



IARS 2018 Annual Meeting and International Science Symposium

Improving Health Through Discovery and Education
April 28 – May 1, 2018

Hyatt Regency Chicago, Chicago, Illinois



Final Program



IARS

International Anesthesia Research Society

For more information,
visit www.iars.org.



Funding research to ensure pediatric anesthesia safety



IARS 2018 ANNUAL MEETING

Visit the SmartTots Booth!

You'll find a plethora of pediatric anesthesia research resources.

Grab our Consensus Statement, FAQ's and up-to-the minute research articles.

Raffle • Wine • Chocolate

Onsite SmartTots Educational Opportunities

SmartTots Panel

Attend *Neurotoxicity in Children Exposed to Anesthesia* to learn the latest research on the effects of anesthesia on the developing brain.

- Sunday, April 29, from 11:30 am – 1:00 pm
Hyatt Regency Chicago
Regency A, Ballroom Level, West Tower

SmartTots Related Poster Sessions

Get the latest research at these sessions:

- smarttots.org/research-and-grants

Stay Informed After the Meeting

Sign up for our newsletter and stay abreast of breaking news and research updates:

- tinyurl.com/smarttots

Donate

Support our critical research! Stop by the booth, make a donation, and enter our drawing to win great prizes, including a bottle of SmartTots special reserve wine, a gift certificate and more!

- Donate online at
SmartTots.org/donate

SmartTots.org



Table of Contents

General Information

Welcome from the IARS Board of Trustees Chair	3
Mayor's Welcome to Chicago	4
Oversight Committee and Board of Trustees	5
CME Information	6
General Information	7
What to do in Chicago	10
Restaurant Guide	11
Map of Surrounding Key Locations	13
Hyatt Regency Chicago Floor Plan	14
Room Locator	17

Education Sessions

Education Highlights	23
Aligned Meeting and SOCCA Focus on Critical Care Day	25
Scholars' Program	27
Networking and Mentoring Opportunities	28
Dine-Arounds	29
T.H. Seldon Memorial Lecture	30
International Science Symposium	31
Schedule-at-a-Glance	32
Anesthesia Subspecialty Topic Index for Education Sessions	33
Friday Education Session	36
Saturday Education Session	37
Sunday Education Session	53
Monday Education Session	73
Tuesday Education Session	87
Affiliate Society Meetings	92

Moderated Poster Discussion Sessions

Poster General Information	95
Poster Room Diagram	97
Moderated Poster Discussion Sessions Schedule-at-a-Glance	98
Kosaka Best of Meeting Abstract Awards Session and Abstract Awards Finalists	99
Saturday Moderated Poster Discussion Sessions	105
Sunday Moderated Poster Discussion Sessions	125
Monday Moderated Poster Discussion Sessions	145
Abstract Presenters Index	165
Abstract Categories Index	185
Abstract Reviewers for the IARS 2018 Annual Meeting	199



Welcome to the IARS 2018 Annual Meeting and International Science Symposium in Chicago

Welcome to the meeting that addresses cutting-edge topics in all anesthesia subspecialties and looks to the future of anesthesia. Be present to shape the discussion and the direction of the practice and interact with more than 1,000 of the world's leading minds in anesthesia education and research. Experience intellectual energy and inspiration with discussions on the latest discoveries and innovations in the field.

Explore the city of Chicago, and experience the rich culture and historical attractions. Chicago is a national leader in the arts, and thrives on the diversity of its neighborhoods and visitors. Historical sites include the National Veterans Art Museum and the John Alexander Logan Monument. While in the birthplace of the modern skyscraper, take note of the architecture that helped define the 20th Century. Indulge in the many museums, comedy shows, and live music Chicago has to offer plus so much more.

Chicago By The Numbers

237 square miles of land located at the southwestern tip of Lake Michigan	More than 250 theaters, 225 music venues and 200 dance companies	More than 125 art galleries and 20 neighborhood art centers	28 CTA bus routes and 8 train routes serving 146 stations
As the third-most populous city in the U.S., Chicago has an estimated 2.7 million residents	56 museums including the Museum of Science+Industry and the Art Institute of Chicago	26 miles of lakefront with an 18.5 -mile lakefront path	119 hotels with 39,000 hotel rooms in the Central Business District
77 community areas containing more than 100 neighborhoods	Over 700 works of public art exhibited in 150 municipal facilities around the city including Cloud Gate (the Bean) and Cows on Parade	8,100 acres of green space with 580 parks and 26 beaches	37 moveable bridges – Chicago has more than any city in the world. Most are the design-style called bascule, from the French word for teeter-totter.
Home of the iconic deep-dish pizza, Chicago serves as a gourmet dining epicenter and hosts over 5,195 restaurants		5 city-wide music festivals, nearly 50 neighborhood music festivals and 35 neighborhood food festivals	
		Over 30 downtown and neighborhood parades	
		Approximately 369 landmarks and 46 historic districts	
		Over 225 miles of bike lanes and more than 13,000 bike racks	
		Over 3,000 bikes and 300 stations through the Divvy bike sharing system	



Welcome to Chicago and the IARS Annual Meeting and International Science Symposium!

As we gather together in this historic city, I am inspired and energized, to be with some of the greatest hearts and minds in anesthesia research.

Chicago is a city that can reflect the best of what America has to offer. It has experienced numerous challenges since its founding in 1837. Whether it's reversing the natural flow of water or being the first to build taller and stronger buildings, each time Chicagoans have risen to the occasion. Anesthesiology has much in common with our host city. We see clearly what is possible, then we roll up our collective sleeves and make that vision a reality.

This year's Annual Meeting takes its cue from this can-do city. We are tackling big issues like a national strategy to better address the opioid crisis, and digging into the fine details of how we can better serve patients in remote areas. We are focused on the nuances of critical care and other subspecialties. We are learning what we can from unlikely places, such as the aviation industry.

Dr. Jeffrey R. Balser, Dean of Vanderbilt University School of Medicine and President and CEO of Vanderbilt University Medical Center, will be giving the T.H. Seldon Memorial Lecture at the Opening General Session. His address, *Personalizing Healthcare in the Era of Big Data*, will boldly lay out how the future of anesthesiology, from diagnosis to drug development, will be impacted by electronic healthcare records.

More than 1,000 anesthesiologists from around the world will participate in dozens of Symposia, Panels, Review Course Lectures, Problem-Based Learning Discussions, and Workshops over the next four days – and will bring learning home to countless others.

While our work is serious, our play should be too. Take time to explore some of our new networking opportunities, and don't forget Chicago offers some of the best theater, art, music and food in the world. And this is a fanatical baseball town – experience it for yourself at a Cubs game!

Thank you for attending the IARS 2018 Annual Meeting and International Science Symposium. We have learned from our rich legacy that no topic is too difficult, no problem unsolvable when we come together. *Together*, in this city of possibility, we will roll up our sleeves and proudly add to that legacy.

Sincerely,

John F. Butterworth, IV, MD
Chair, IARS Board of Trustees

Welcome from the Mayor of Chicago



April 26, 2018

Dear Friends:

As Mayor, and on behalf of the City of Chicago, I am pleased and proud to welcome all of those gathered for the *International Anesthesia Research Society, Association of University Anesthesiologists, and the Society of Critical Care Anesthesiologists 2018 Annual Meetings*.

Since their formation – the oldest dating back nearly a century – the International Anesthesia Research Society (IARS), Association of University Anesthesiologists (AUA), and the Society of Critical Care Anesthesiologists (SOCCA) have been committed to creating dynamic spaces for the support and cultivation of anesthesiologists, scientists, physicians and other professionals dedicated to better understanding anesthesia practice and application. Home to thousands of members worldwide, IARS, AUA and SOCCA's Annual Meetings unite leaders across disciplines dedicated to improving patient care through involved, innovative research. Every member stands committed to augmenting the role of anesthesia in medicine and interpreting methodology and outcomes in relation to our collective health. IARS, AUA and SOCCA play an integral role in impacting education, informing policy, and enlightening the public.

This year's meeting presents a special opportunity to come together to discuss recent innovations in the field while also remaining focused on all the advancements left to uncover. The *2018 Meeting* aims to promote exposure to different techniques, tools, and social strategies that build upon new ways to approach studying and researching anesthesia. In addition, interactive sessions and thoughtful exhibits will allow attendees to explore growing trends of scientific research and medical practices to forge a place at the forefront of education and implementation. All of Chicagoland's residents benefit year-round from the important work that the groups' diverse membership do day in and day out. I commend all associated with IARS, AUA and SOCCA for demonstrating excellence and dedication in your field, and for being an invaluable resource for the global science and medical communities.

After learning, exchanging ideas, and networking, it is my hope that those visiting our great city take time to experience some of the special places in Chicago. Our historic neighborhoods, iconic skyline, and incredible lakefront invite you to explore all Chicago has to offer. I hope you have a chance to sample our distinguished restaurants, tour our great universities, and visit our world-class museums during your stay.

Best wishes for an enjoyable and informative event, and much continued success.

RAHM EMANUEL, Mayor

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Continuing Medical Education (CME) Activity Information

Activity Overview

Findings from new research and the evolution of anesthesiology practice based on emerging evidence create an inherent gap between existing practice and new practice models. The purpose of the International Anesthesia Research Society (IARS) 2018 Annual Meeting and International Science Symposium is to provide an evidence-based and clinically oriented educational activity that will improve competence and performance in the anesthesiology specialty, resulting in improved patient care and outcomes.

Target Audience

The IARS 2018 Annual Meeting and International Science Symposium is designed to address the continuing medical education needs of anesthesiologists, anesthesiologists-in-training, anesthesia investigators, and allied health professionals who conduct research, practice, or intend to practice in any area of general anesthesia, subspecialty anesthesia, or pain management.

Educational Objectives

As a result of participating in this live CME activity, learners will be able to:

- Describe the latest developments in critical care, perioperative medicine, pain management, and other anesthesiology subspecialty areas.
- Evaluate gaps in their knowledge, behavior, and patient outcomes that may result in a need for additional education and training.
- Develop and apply strategies for integrating new knowledge and behaviors into their professional practice.

Accreditation Statement

The IARS is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.


CME Credit

The IARS designates this live activity for a maximum of 29 AMA PRA Category 1 Credits.TM Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Claiming CME Credit

The IARS will provide online program evaluation and session tracking to support claiming CME credit beginning on Wednesday, May 2. Meeting participants will have 90 days to claim CME credit.

Maintenance of Certification in Anesthesiology Program® (MOCA®)

Physicians wishing to have credits from this educational activity reported to the ABA for the ABA MOCA® Patient Safety CME Credit Program may do so by entering their eight digit ABA identification number when claiming CME credit. The IARS forwards credits to the ABA on a quarterly basis. Sessions approved for ABA MOCA 2.0® Patient Safety CME credit is designated by .

Disclosure

The IARS makes every effort to develop CME activities that are independent, objective, scientifically balanced presentations of information. The IARS has implemented mechanisms requiring everyone in a position to control content to disclose all relevant financial relationships with commercial interests. Relevant financial relationships are defined as financial relationships in any amount occurring within the past 12 months, including financial relationships of the spouse or partner of the person in control of content. Disclosure of any or no relationships is made available in advance of all educational activities. The IARS evaluates, and if necessary, resolves any conflicts of interest prior to the start of the activity. Individuals who refuse or fail to provide the required disclosures are disqualified from being a planning committee member, teacher, or author of CME, and cannot have control of, or responsibility for, the development, management, presentation or evaluation of the CME activity.

Disclaimer

The information provided in this CME activity is for continuing education purposes only and is not meant to substitute for the independent medical judgment of a health care provider relative to diagnostic and treatment options of a specific patient's medical condition.

Commercial Support

This activity is provided with commercial support from FUJIFILM SonoSite, Inc., HeartWorks by MedaPhor, PAJUNK Medial Systems, and Philips Healthcare.

How to Use the Program

In this Program, you will find the information needed to make the most of your Annual Meeting experience. Included is a complete listing of Annual Meeting events as well as a Schedule-at-a-Glance listing. The education sessions and Moderated Poster Discussion Sessions are listed by day, then by time, in each section within the Program. Room locations are available in the Room Locator and Schedule-at-a-Glance sections. Refer to pages 14-16 of this Program for a map of the IARS Headquarters Hotel, Hyatt Regency Chicago.

Location

IARS 2018 Annual Meeting Headquarters Hotel

Hyatt Regency Chicago
151 East Wacker Drive
Chicago, Illinois 60601

The Registration Desk is located in the Crystal Foyer, Lobby Level, West Tower. All education sessions, special events and tabletop exhibits will take place at the Hyatt Regency Chicago except where noted in the Program.

Registration

Registration Hours

Thursday, April 26	6:00 am – 6:00 pm
Friday, April 27	6:00 am – 6:00 pm
Saturday, April 28	6:00 am – 6:00 pm
Sunday, April 29	6:00 am – 6:00 pm
Monday, April 30	6:00 am – 6:00 pm
Tuesday, May 1	7:00 am – 12:00 pm

Registration materials will be available for pick up at the Registration Desk in the Crystal Foyer, Lobby Level, West Tower.

Registration Materials

Attendee registration materials will include a printed copy of the IARS 2018 Annual Meeting and International Science Symposium Program and the Exhibits Guide. The Review Course Lecture and Abstract Supplements will be available online following the meeting at www.iars.org.

Name Badges

Your registration packet includes your name badge which you must wear at all times while attending events in the hotel. Only attendees with names badges will be admitted to meeting rooms. If you misplace your badge, please visit the Registration Desk for a replacement.

Registration Fee

The IARS Annual Meeting registration fee includes access to the T.H. Seldon Memorial Lecture, International Science Symposium, Review Course Lectures, Panels, Symposia, Awards Sessions, Moderated Poster Discussion Sessions, Alignment Reception, and Tabletop Exhibits. Problem-Based Learning Discussions (PBLDs) require pre-registration to guarantee a seat. Workshops and the Scholars' Program sessions are limited seating and require an additional non-refundable fee. If seating is still available, tickets may be purchased at the Registration Desk.

Annual Meeting Registration Cancellation Policy

The registration cancellation deadline was Thursday, April 12, 2018. Registrations canceled on or before Thursday, April 12, 2018 were refunded, minus a \$50 processing charge.

Poster Room Location

The Poster Room, Poster Check-in and Information Booth, and the Poster Pickup Booth are all in Riverside West, Exhibit Level, East Tower of the hotel.

Poster Room Hours

Saturday, April 28	9:30 am – 6:30 pm
Sunday, April 29	6:30 am – 6:30 pm
Monday, April 30	6:30 am – 6:30 pm

Poster Check-in and Information Desk Hours

Saturday, April 28	6:00 am – 6:30 pm
Sunday, April 29	6:00 am – 6:30 pm
Monday, April 30	6:00 am – 6:30 pm

Poster Pickup Booth Hours

Thursday, April 26	6:00 am – 2:00 pm
Friday, April 27	6:00 am – 2:00 pm
Saturday, April 28	6:00 am – 2:00 pm
Sunday, April 29	6:00 am – 2:00 pm
Monday, April 30	6:00 am – 2:00 pm

Speaker Ready Room

The Speaker Ready Room is located in Field, Third Floor, West Tower of the hotel for IARS speakers to utilize.

Thursday, April 26	6:00 am – 6:00 pm
Friday, April 27	6:00 am – 6:00 pm
Saturday, April 28	6:00 am – 6:00 pm
Sunday, April 29	6:00 am – 6:00 pm
Monday, April 30	6:00 am – 6:00 pm
Tuesday, May 1	7:00 am – 12:00 pm

Tabletop Exhibits

The Tabletop Exhibits are located in Regency Ballroom D & Foyer, Ballroom Level, West Tower. Please join us in Regency Ballroom D & Foyer for the Alignment Reception on Saturday, April 28, 6:00 pm – 7:30 pm.

Tabletop Exhibit Hours

Saturday, April 28	6:30 am – 4:00 pm
Alignment Reception	6:00 pm – 7:30 pm
Sunday, April 29	6:30 am – 4:00 pm
Monday, April 30	6:30 am – 9:30 am

For complete information on the Tabletop Exhibits, please refer to the Exhibits Guide in your registration printed materials.

General Information

Services

Annual Meeting App

The IARS, AUA and SOCCA 2018 Annual Meetings feature an interactive app, enabling you to view the complete event schedule, explore all session and speaker details and opportunities to network with other attendees. Expand your professional network and make the most of your Annual Meeting experience! Download the app above, or from Google Play or the Apple Store.



Abstracts List and Event Search

Search all sessions, abstracts and speakers for the IARS, AUA and SOCCA 2018 Annual Meetings on the event site at ww3.aievolution.com/ars1801.

IARS On Demand

Maximize your Annual Meeting investment! The CME-accredited IARS On Demand program includes easy access to an online library of 80 hours of educational content from the meeting. Revisit sessions you attended and participate in those you missed anytime, anywhere. Select the Gold Registration Upgrade on your registration form. Visit the IARS On Demand Tabletop Exhibit in the Regency Foyer C, Ballroom Level, in the West Tower for more information or to purchase this upgrade onsite.

Internet Availability

Complimentary wireless internet is available in the conference area, exhibit area and all IARS scheduled meeting rooms. Open your internet browser and choose the network labeled, "Hyatt Conference." When prompted for an access code, enter "AM2018." Please no streaming or video downloads.

OpenAnesthesia SelfStudyPlus Information Booth

The first adaptive learning app for anesthesiologists and residents, OpenAnesthesia SelfStudyPLUS personalizes learning using novel and patented algorithms that assess and adapt to individual needs. This easy to use app provides access to over 1,700 questions curated by teaching physicians at top hospitals, while fitting into the most demanding schedules. Physicians can use SelfStudyPLUS to conveniently earn CME. OpenAnesthesia is proudly sponsored by IARS. Visit the booth in the Regency Foyer A, Ballroom Level, in the West Tower.

SmartTots Information Booth

Stop by the SmartTots booth! You'll find a plethora of pediatric anesthesia research resources. Grab the latest info, make a donation, win a bottle of SmartTots wine, enjoy some delicious San Francisco chocolate and more! The SmartTots booth is located in the Regency Foyer A, Ballroom Level, in the West Tower.

Treasure Hunt

Participate in our IARS, AUA and SOCCA 2018 Annual Meetings Treasure Hunt for a chance to win gift cards! Download the IARS Mtgs app from the app store to play. Complete all the IARS, AUA and SOCCA Treasure Hunt challenges and you'll be entered to win one of three gift cards. The deadline to complete the Treasure Hunt is Tuesday, April 1 at 12:00 pm. The Treasure Hunt winners will be notified via email following the meeting.

Trivia Game

Play the IARS, AUA and SOCCA 2018 Annual Meeting Trivia Game each day for a chance to win prizes. Each game consists of 12 multiple-choice trivia questions, each with three options. Questions get harder as the game progresses and you only have just seconds to select your answer. Participants with the most correct answers in a game will be entered in a raffle for a chance to win prizes and bragging rights. Check the leaderboard in Crystal Foyer to compare your progress against other attendees. Trivia Game winners will be notified by email after the meeting.

Social Media

We want to see what you're getting out of the meeting, whether it's meeting another doctor for the first time, the food at our special events, or an interesting idea you heard at a session. Share your posts on social media and use the hashtag **#IARS2018**.

Information

Dress Code

The dress code for the IARS 2018 Annual Meeting and International Science Symposium is business/business casual.

Electronic Devices

Please silence all electronic devices during education sessions. Videotaping and recording of sessions are not allowed without written permission from the presenter(s) and IARS.

Media Release Policy

By attending the IARS 2018 Annual Meeting and International Science Symposium or entering in the facility in which the IARS 2018 Annual Meeting and International Science Symposium takes place, you agree that IARS and/or third parties authorized by IARS may photograph or record your likeness, image, name, voice, and/or words, and may publish, display, reproduce, copy, and distribute your likeness, image, name, voice, and/or words for promotional, educational, or membership activities worldwide in all forms of media now known or later developed, including but not limited to advertising, training, websites, presentations, and marketing materials. You further acknowledge that IARS and/or third parties authorized by IARS shall have the right, but not the obligation, to identify you in connection with such media by name and/or affiliation.

Recording (Audio, Video, and Still Photography)

Copyright of the IARS 2018 Annual Meeting and International Science Symposium program is owned by IARS. IARS reserves the rights to all recordings or reproductions of presentations at this Meeting and all IARS meetings and symposia. Any photography, filming, taping, recording, or reproduction in any medium of any of the programs presented at the IARS 2018 Annual Meeting and International Science Symposium without the express written consent of IARS is strictly forbidden. Exception: Non-flash photography and audio or video recording using hand-held equipment, for strictly personal, social, or noncommercial use, are permitted if not disruptive, as determined by IARS.

No Smoking Policy

Smoking is not permitted at IARS events. We respectfully request that you abide by our smoke-free policy. Thank you.

Special Services

If you are in need of any special services, please contact the IARS at meetings@iars.org or see an IARS staff at the Registration Desk in the Crystal Foyer, Lobby Level, West Tower.

Special Events

First-Time Attendee Orientation and Networking Session

On Friday, April 27, 5:00 pm – 6:00 pm, review what's new at the IARS Annual Meeting and learn strategies to get the most out of your experience. Meet other first-time attendees and loyal return attendees of the Annual Meeting!

Dine-Around Sessions

Make friends and gain mentors in the casual setting of a Dine-Around while discussing the top-of-mind anesthesia topics on Friday, April 27, 7:30 pm – 9:00 pm or Sunday, April 29, 6:30 pm – 8:00 pm.

Dining costs are the responsibility of attendees. For more information and availability, see the Registration Desk.

Scholars' Program Breakfast with IARS, AUA and SOCCA Leadership and Mentors

Network with the IARS, AUA and SOCCA leadership and your mentor over breakfast on Friday, April 27, 6:15 am – 7:15 am.

The Breakfast is part of the Scholars' Program and requires a separate, non-refundable fee and pre-registration.

IARS, AUA, SOCCA and eSAS Scholars' Program Mentoring and Networking Reception

Network and socialize with fellow scholars, plus participate in mentoring opportunities, Friday, April 27, 6:00 pm – 7:00 pm.

This reception is part of the Scholars' Program and requires a separate, non-refundable fee and pre-registration.

IARS, AUA and SOCCA Alignment Reception

Come together and celebrate the convergence of the IARS, AUA and SOCCA Annual Meetings and meet the leaders of all subspecialties in anesthesiology in one location. Relax, unwind and join your colleagues and peers on Saturday, April 28, 6:00 pm – 7:30 pm.

Chicago, Illinois, Travel Tips

Chicago Airports

O'Hare International Airport, located 17 miles from downtown, is one of the largest airports in the world. It is North America's major international gateway airport, servicing over 67 million passengers to and from over 200 destinations around the globe. Midway International Airport is located 10 miles from downtown Chicago and offers another convenient travel option for visitors.

Time Zone

Chicago follows the Central Time Zone (CST).

Transportation

O'Hare and Midway airports offer taxi service to downtown and the suburbs. Rates range from \$40-50 from O'Hare, and \$30-40 from Midway. Rates vary based on travel time and are subject to change.

The Chicago Transit Authority serves both airports for easy and economical travel between downtown and Chicago neighborhoods using the 'L' train. The 24-hour CTA Blue Line connects directly to O'Hare and the CTA Orange Line connects directly to Midway. Read more at www.transitchicago.com airports for full fare information and maps.

GO Airport Express provides shared ride services to all downtown/suburban hotels and many businesses. Pair fares and group discounts are available along with customized reservation portals for your groups.

Weather

Springtime in Chicago means blooming flowers and a lively lakefront. Temperatures start to warm up in April and May, typically ranging from the 50's °F (10-15°C) to around 70°F (21°C).

What to Do in Chicago

Chicago Neighborhoods

The meeting takes place in downtown Chicago, among the unique buildings of the city's skyline. The North Side neighborhoods are full of entertainment, including baseball, sketch comedy, and live jazz. The neighborhoods to the south contain many of the city's cultural spots such as public art pieces, galleries, museums, and performance venues. To the west are neighborhoods that celebrate Chicago's diversity with world-class restaurants and specialty shops. Visit www.choosechicago.com for more details.

Architecture

Chicago is the birthplace of the modern skyscraper. After most buildings in the downtown area were destroyed during the Great Chicago Fire in 1871, the city rose from the ashes and led the world in architectural innovation. Here are just a few of the unique buildings nearby:

Aqua

225 N Columbus Dr

Marina City

300 N State St

Tribune Tower

435 N Michigan Ave

Willis Tower (formally the Sears Tower)

233 S Wacker Dr

Museums

As a leader in the arts, Chicago is widely known for its incredible array of museums. Here are five museums you should make time to visit while in Chicago:

Adler Planetarium

Travel through space and time to explore our universe with some of the top researchers in astronomy and astrophysics. Right next to the Planetarium is the Doane Observatory, open to the public to view the planets and stars of our galaxy.

Art Institute of Chicago

Art Institute of Chicago has a permanent collection of more than 300,000 artworks from all over the world.

Chicago History Museum

Documenting the history of Chicago, this museum contains items that highlight the people, culture, and events from the past 200 years.

The Field Museum

The museum was originally founded to exhibit the biological and anthropological collection for the Columbian Exposition of 1893. It spans 350,000 square feet of permanent exhibitions to such as a royal Egyptian tomb or a Chinese rock garden.

Museum of Contemporary Art

The museum houses one of the largest collections of modern art in the nation and hosts major touring exhibits. It also presents works by local artists, showcasing the rising talent in the city.



Art Institute of Chicago



Adler Planetarium

Restaurant Guide

Restaurants at the Hyatt Regency Chicago

American Craft Kitchen & Bar

American (Traditional), \$\$

Hours: 6:00 am – 3:00 pm; 5:00pm – 11:00pm

BIG Bar

Lounges, American (New), \$\$

Hours: From 5:00 pm

The Living Room & Bar

Tapas/Small Plates, Cocktail Bars, \$\$

Hours: Tues-Sat 5:00 pm – 11:00 pm

Market Chicago

Coffee & Tea, \$

Hours: 24-hours a day

Stetsons Modern Steak + Sushi

Sushi Bars, Steakhouses, \$\$\$

Hours: Tues-Sat 5:00 pm – 10:00 pm

Restaurants Near the Hyatt Regency Chicago

Ill Forks

Steakhouse, \$\$\$

180 N Field Blvd • 312-938-4303

Distance from hotel: 8 min. (0.4 mi.)

Barrio

Mexican, Bars, American (New), \$\$\$

65 W Kinzie St • 312-941-9900

Distance from hotel: 14 min (0.7 mi.)

Beatrix

New American, \$\$

519 N Clark St • 312-284-1377

Distance from hotel: 16 min (0.7 mi.)

Brightwok Kitchen

Asian Fusion, Gluten-Free,

Vegetarian, \$\$

21 E Adams St • 312-583-0729

Distance from hotel: 13 min (0.6 mi.)

Catch 35

Seafood, \$\$\$

35 W Wacker Dr • 312-346-3500

Distance from hotel: 9 min (0.4 mi.)

Cochon Volant Brasserie

French, Brasseries, \$\$

100 W Monroe St • 312-754-6560

Distance from hotel: 14 min (0.7 mi.)

Restaurants Near the Hyatt Regency Chicago, continued

The Dearborn

Traditional American, \$\$

145 N Dearborn St • 312-384-1242

Distance from hotel: 12 min (0.6 mi.)

Giordano's

Pizza, \$\$

130 E Randolph St • 312-616-1200

Distance from hotel: 5 min (0.2 mi.)

Howells & Hood

Traditional American, \$\$

435 N Michigan Ave • 312-262-5310

Distance from hotel: 6 minutes (0.6 mi.)

Imperial Lamian

Chinese, Dim Sum, \$\$

6 W Hubbard St • 312-595-9440

Distance from hotel: 11 min (0.5 mi.)

Lou Malnati's Pizzeria

Pizza, \$\$

439 N Wells St • 312-828-9800

Distance from hotel: 15 min (0.8 mi.)

Magnolia Bakery

Bakeries, Desserts, Cupcakes, \$\$

108 N State St • 312-346-7777

Distance from hotel: 10 min (0.5 mi.)

MingHin Cuisine

Dim Sum, Cantonese, Asian Fusion, \$\$

333 E Benton Pl Ste 300 • 312-228-1333

Distance from hotel: 5 min (0.2 mi.)

Naf Naf Grill

Middle Eastern, Falafel, Salad, \$

326 N Michigan Ave • 312-263-0019

Distance from hotel: 5 min (0.2 mi.)

Nando's PERi-PERi

Portuguese, South African, Chicken Shop, \$\$

22 S Wabash Ave • 312-589-7432

Distance from hotel: 10 min (0.5 mi.)

Potbelly Sandwich Shop

Sandwiches, Fast Food, Soup, \$

111 E Wacker Dr • 312-861-0013

Distance from hotel: 3 min (0.2 mi.)

Prime & Provisions

American (Traditional), Seafood, Steakhouses, \$\$\$\$

222 N La Salle St • 312-726-7777

Distance from hotel: 12 min (0.6 mi.)

Restaurant Guide, continued

Restaurants Near the Hyatt Regency Chicago, continued

The Purple Pig

Tapas/Small Plates, Mediterranean, \$\$
500 N Michigan Ave • 312-464-1744
Distance from hotel: 8 min (0.4 mi.)

Quartino Ristorante

Italian, Wine Bars, \$\$
626 N State St • 312-695-5000
Distance from hotel: 13 min (0.6 mi.)

Sweetwater Tavern and Grille

New American, \$\$
225 N Michigan Ave. • 312-698-7111
Distance from hotel: 5 min. (0.3 mi.)

Tesori Trattoria & Bar

Italian, \$\$
65 E Adams St. • 312-786-9911
Distance from hotel: 15 min (0.7 mi.)

Wildberry Pancakes and Café

Breakfast & Brunch, American (New), \$\$
130 E Randolph St • 312-938-9777
Distance from hotel: 5 min (0.2 mi.)

Yolk – Streeterville

Breakfast & Brunch, American (Traditional), Comfort Food, \$\$
355 E Ohio St • 312-822-9655
Distance from hotel: 9 min (0.4 mi.)



Coffee near the Hyatt Regency Chicago

Caffe RoM

Coffee & Tea, Sandwiches, Gelato, \$
180 N Stetson Ave • 312-948-888
Distance from hotel: 3 min (0.1 mi.)

Intelligentsia Coffee

Coffee & Tea, \$
53 E Randolph St • 312-920-9332
Distance from hotel: 6 min (0.3 mi.)

Stan's Donuts & Coffee

Donuts, Coffee & Tea, \$
181 N Michigan Ave • 312-729-5480
Distance from hotel: 5 min (0.2 mi.)

Two Zero Three

Coffee & Tea, Wine Bars, \$
203 North Wabash Ave • 312-940-4808
Distance from hotel: 8 min (0.4 mi.)

Other Restaurants of Note

Dusek's Board & Beer

Bars, American (New), Breakfast & Brunch, \$\$
1227 W 18th St • 312-526-385
Distance from hotel:
(4.6 mi.)

Gibsons Bar & Steakhouse

Steakhouses, Wine Bars, \$\$\$
1028 N Rush St • 312-266-8999
Distance from hotel: 8 min car ride
(1.5 mi.)

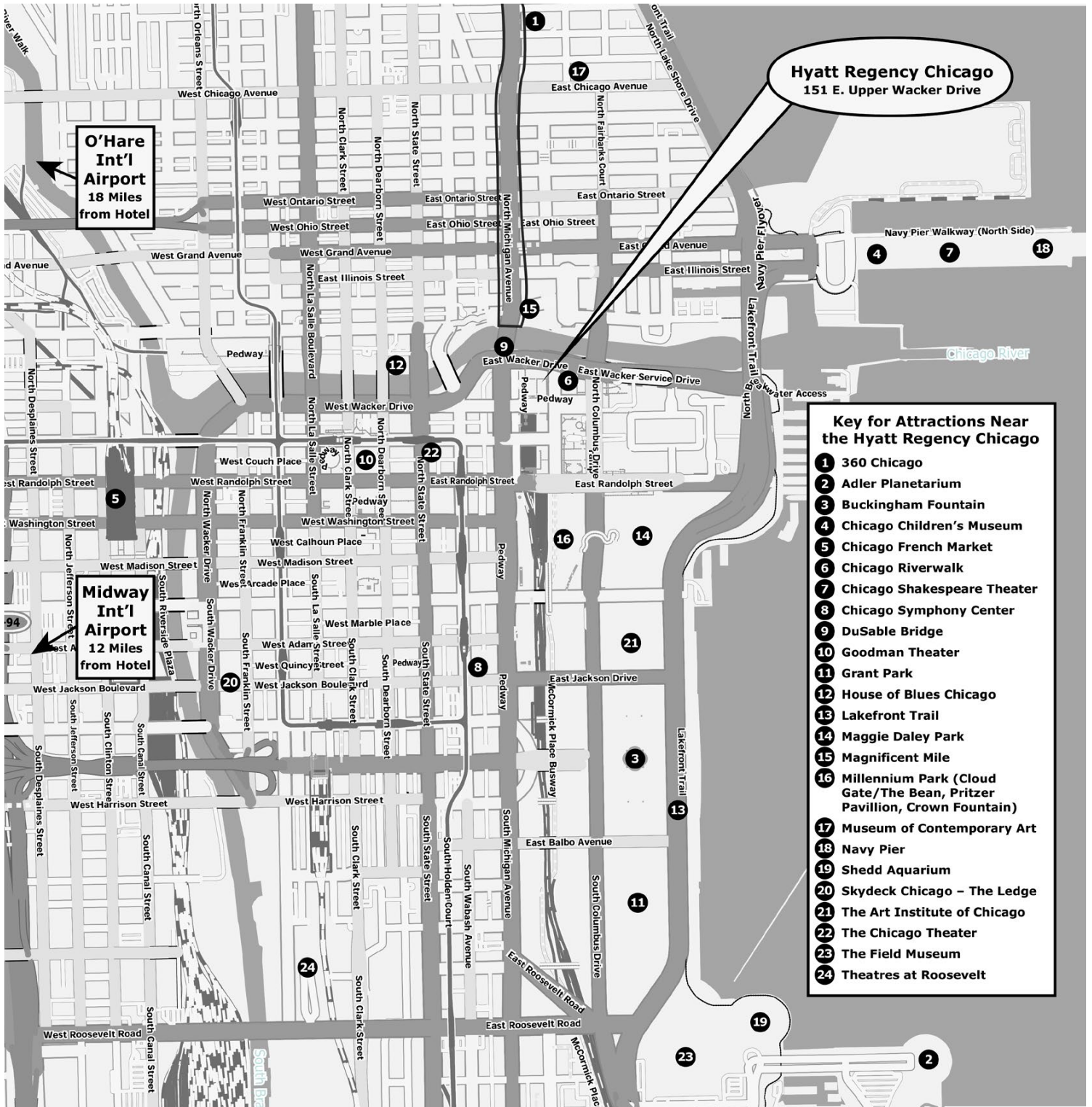
Pequod's Pizzeria

Pizza, \$\$
2207 N Clybourn Ave • 773-327-1512
Distance from hotel: 25 min car ride
(5.0 mi.)

Roister

American (New), \$\$\$\$
951 W Fulton Market
Distance from hotel: 12 min car ride
(2.1 mi.)

Map of Surrounding Key Locations



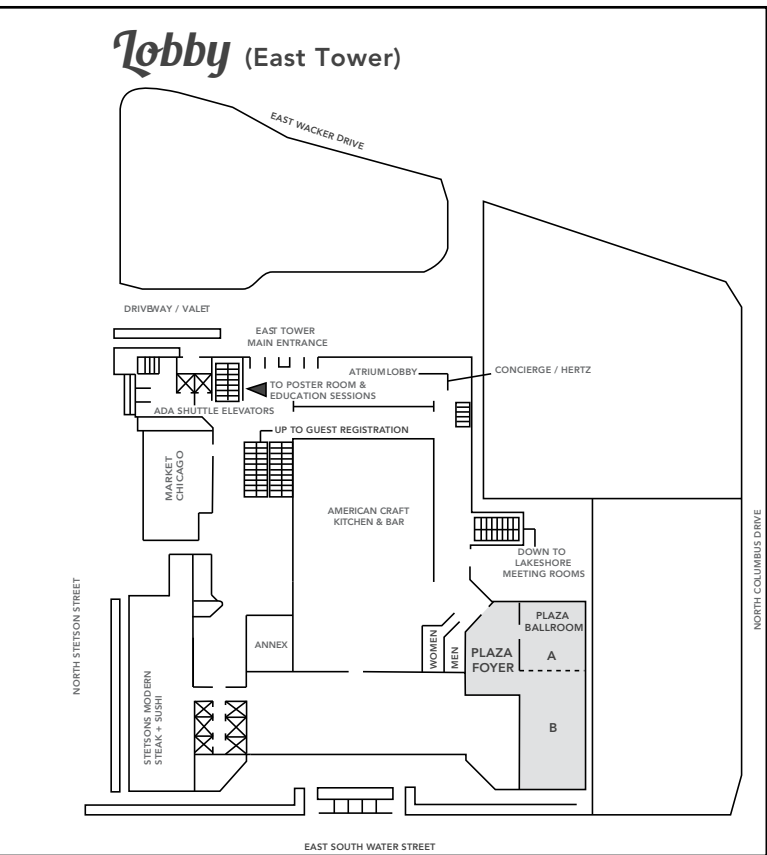
General Information

Headquarters Hotel: Hyatt Regency Chicago

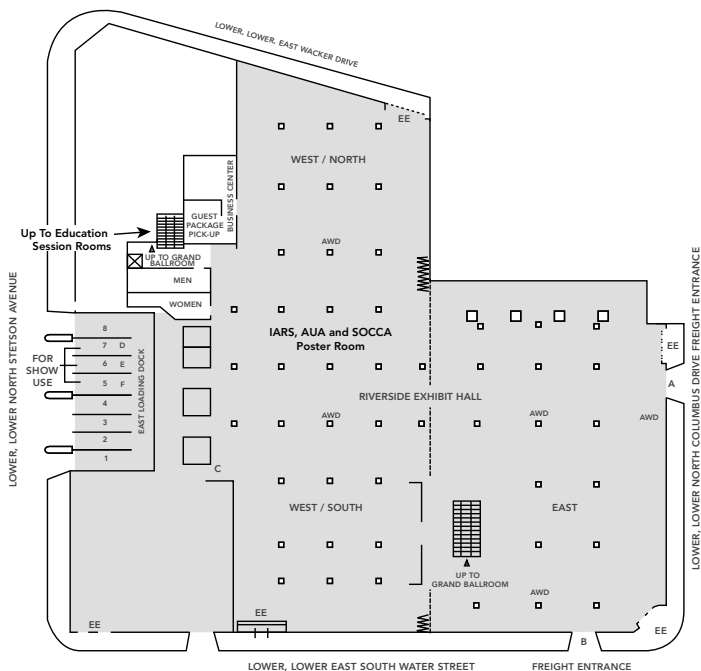


The Hyatt Regency Chicago offers a chic, downtown retreat, located steps from the Magnificent Mile and iconic Chicago destinations. Slip away for an afternoon at the Art Institute of Chicago, ride the Chicago Architectural Foundation’s River Cruise, or snap a photo in front of Cloud Gate, locally known as the Bean. Plus, savor the unparalleled views of downtown and Navy Pier from the Hyatt Regency Chicago.

Headquarters Hotel Floor Plans

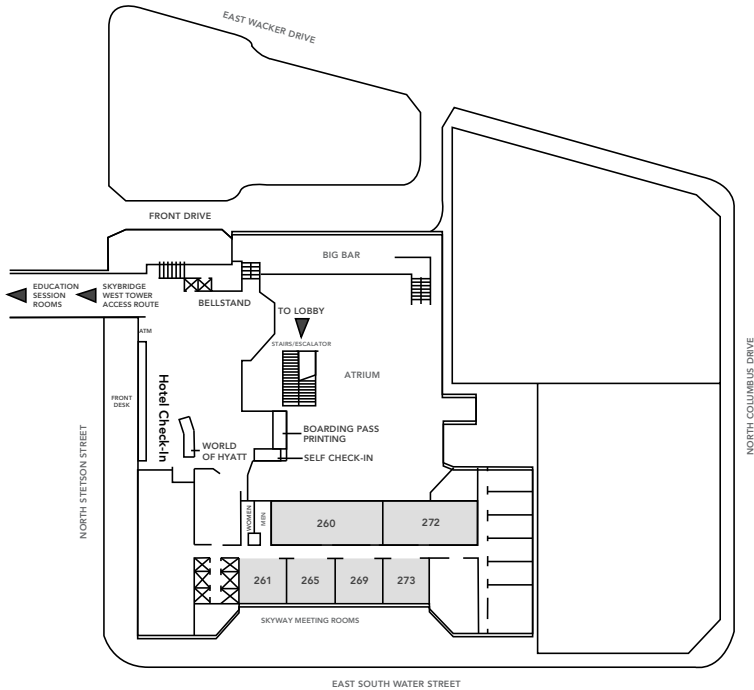


Riverside West (Exhibit Level, East Tower)

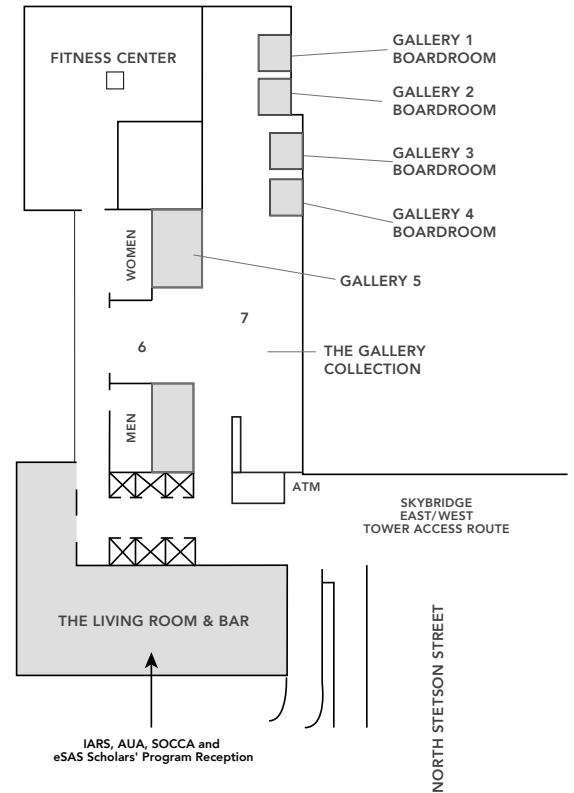


Headquarters Hotel Floor Plans

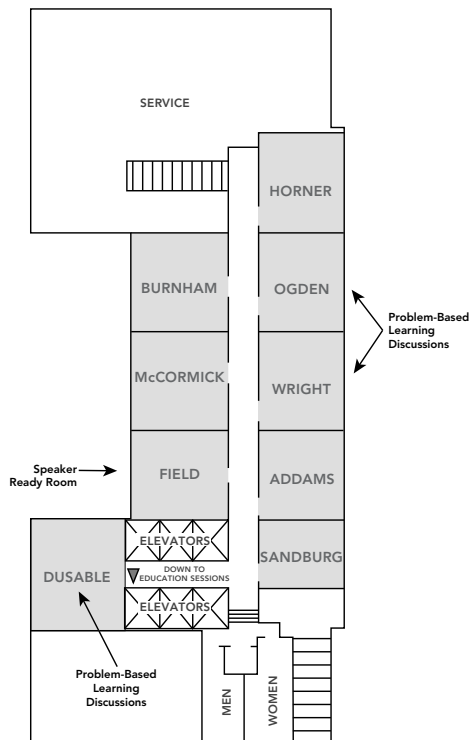
Skyway Level (East Tower)



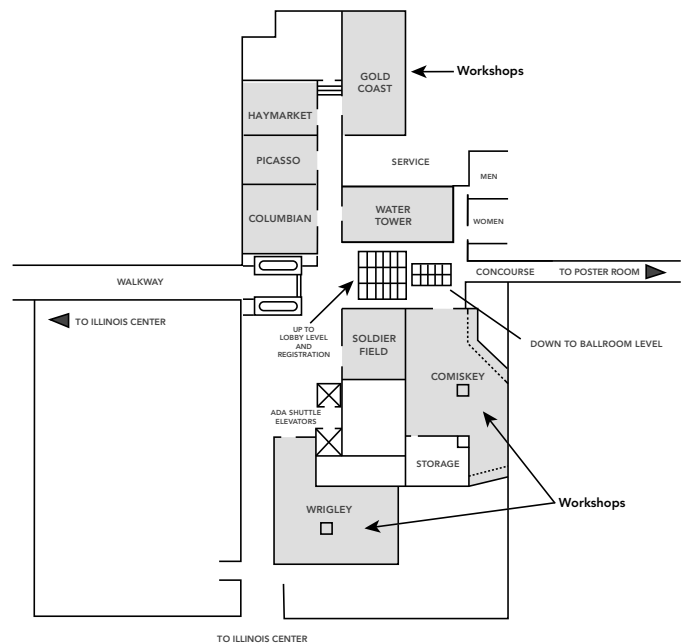
Skyway Level (West Tower)



Third Floor (West Tower)

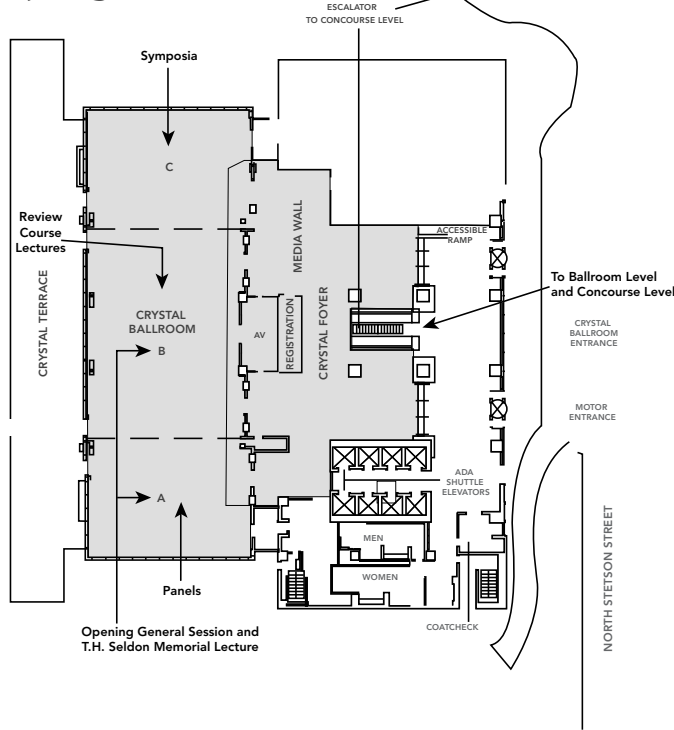


Concourse (West Tower)

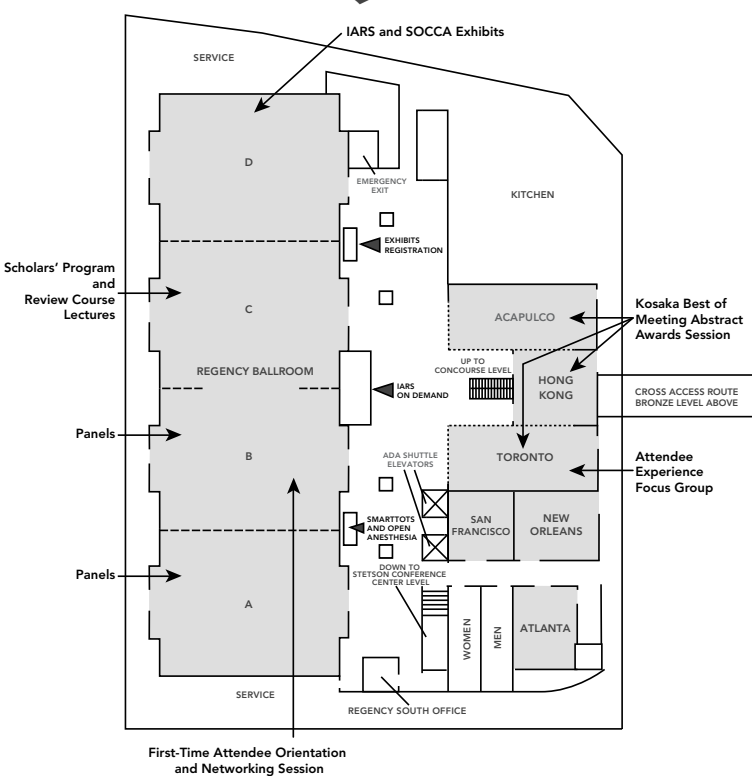


Headquarters Hotel Floor Plans

Lobby (West Tower)



Ballroom Level (West Tower)



Room Locator

Session Type Key

P=Panel

SCHOLAR=Scholars' Program *

PBLD=Problem-Based Learning Discussion*

SYM=Symposium

RCL=Review Course Lecture

W=Workshop*

FRIDAY, APRIL 27

TIME	EVENT	ROOM
6:00 am – 6:00 pm	Registration	Crystal Foyer, Lobby Level, West Tower
5:00 pm – 6:00 pm	First-Time Attendee Orientation and Networking Session*	Regency B, Ballroom Level, West Tower
6:00 pm – 7:00 pm	IARS, AUA, SOCCA and eSAS Scholars' Program Mentoring and Networking Reception*	The Living Room & Bar, Skyway Level, West Tower
7:30 pm – 9:00 pm	DINE-AROUND SESSION I*	
	Group 1: Adverse Neurological Effects of Surgery and Anesthesia	Howells & Hood, 435 N Michigan Ave
	Group 2: Career Development and Finding the Right Mentor	The Dearborn, 145 N Dearborn St
	Group 3: How to Become a Leader	Imperial Lamian, 6 W Hubbard St
	Group 4: Innovations in Anesthesiology	Tesori Trattoria & Bar, 65 E Adams St
	Group 5: Preserving Academic Anesthesia	Beatrix, 519 North Clark St
	Group 6: Development of Educational Leaders and Scholars in Anesthesiology	Labriola, 535 North Michigan Ave
	Group 12: Mechanical Ventilation: Nuances in Using Them	Sweetwater Tavern and Grille, 225 N Michigan Ave

SATURDAY, APRIL 28

TIME	EVENT	ROOM
6:00 am – 6:00 pm	Registration	Crystal Foyer, Lobby Level, West Tower
6:15 am – 7:15 am	Scholars' Program Breakfast with IARS, AUA, and SOCCA Leadership and Mentors*	Regency C, Ballroom Level, West Tower
6:30 am – 7:30 am	Continental Breakfast with Exhibitors	Regency D & Foyer, Ballroom Level, West Tower
6:30 am – 4:00 pm	Exhibits	Regency D, Ballroom Level, West Tower
7:30 am – 9:00 am	Opening General Session and T.H. Seldon Memorial Lecture: Personalizing Healthcare in the Era of Big Data	Crystal AB, Lobby Level, West Tower
9:00 am – 9:30 am	Break with Exhibitors	Regency D, Ballroom Level, West Tower
9:30 am – 9:40 am	SCHOLAR 01: Introduction to Scholars' Program and eSAS*	Regency C, Ballroom Level, West Tower
9:30 am – 10:30 am	PBLD-01: SNACC: Perioperative Management of Patient with Closed Head Injury for Non-Neurological Procedures*	Dusable, Third Floor, West Tower
9:30 am – 10:30 am	PBLD-02: SOCCA: To Intubate or Not: Management of Postoperative Acute Respiratory Failure*	Wright, Third Floor, West Tower
9:30 am – 11:00 am	Moderated Poster Discussion Session-01	Riverside West, Exhibit Level, East Tower
9:30 am – 11:00 am	P-01: New Innovations in the Management of Postpartum Hemorrhage	Regency B, Ballroom Level, West Tower
9:30 am – 11:00 am	P-02: Enhanced Recovery Protocol Elements: What Is the Level of Evidence?	Regency A, Ballroom Level, West Tower
9:30 am – 12:00 pm	SYM-01: AUA: Mitochondria and Bioenergetics in Health and Disease: It's Not Just A Power Failure!	Crystal C, Lobby Level, West Tower
9:30 am – 12:30 pm	W-01: Focused Cardiovascular Ultrasound (FoCUS) – It's for Everyone!*	Wrigley, Concourse Level, West Tower
9:40 am – 10:30 am	SCHOLAR-02: Moving from Insight to Research Program and What This is All About*	Regency C, Ballroom Level, West Tower
10:45 am – 11:45 am	PBLD-03: Heroin PCA for Labor Pain: What Are You Smoking or How to Get Controversial Research through the IRB*	Dusable, Third Floor, West Tower
10:45 am – 11:45 am	PBLD-04: Anticoagulant Therapy Management for Interventional Chronic Pain Procedures*	Wright, Third Floor, West Tower
10:45 am – 12:15 pm	SCHOLAR-03: Shine Like A Rockstar: Different Paths to Success*	Regency C, Ballroom Level, West Tower
11:15 am – 12:00 pm	RCL-01: SOCCA: The Tele-Vision: Taking Care to the Patient and Expanding the Scope of the Intensivist	Crystal B, Lobby Level, West Tower
11:15 am – 12:45 pm	Moderated Poster Discussion Session-02	Riverside West, Exhibit Level, East Tower

* Ticketed Session. See Registration Desk for availability.

General Information

Room Locator, continued

SATURDAY, APRIL 28, continued

TIME	EVENT	ROOM
11:15 am – 12:45 pm	P-03: SNACC: The Microbiome and Brain Health: An Emerging Frontier of Perioperative Neuroscience	Regency A, Ballroom Level, West Tower
11:15 am – 12:45 pm	P-04: Research Statistics for the Non-Statisticians	Regency B, Ballroom Level, West Tower
12:00 pm – 1:00 pm	PBLD-05: AUA: Why Study Time Doesn't Always Lead to Learning: How Do We Help the Struggling Trainee? – Offered Twice!	Dusable, Third Floor, West Tower
12:00 pm – 1:00 pm	PBLD-06: Taking Assent to New Heights: Do-Not-Resuscitate Status in Pediatric Palliative Care Procedures*	Wright, Third Floor, West Tower
12:15 pm – 1:00 pm	RCL-02: SPAQI: Perioperative Cardiac Risk Assessment and Management: The Internist's Perspective	Crystal B, Lobby Level, West Tower
12:30 pm – 2:00 pm	SCHOLAR-04: Lunch Session: Resilience Personified: Transitioning from Trainee to Junior Faculty and Beyond*	Regency C, Ballroom Level, West Tower
1:00 pm – 2:00 pm	Lunch on Your Own	Offsite (see restaurant list on page 11)
1:00 pm – 2:00 pm	Sponsored Lunch Symposium – Non-CME**	Crystal A, Lobby Level, West Tower
2:00 pm – 2:45 pm	RCL-03: What's New with the Management of Vasodilatory Shock in the ICU?	Crystal B, Lobby Level, West Tower
2:00 pm – 3:00 pm	PBLD-07: SOCCA: The Sweet Escape: A Complicated Case of DKA*	Dusable, Third Floor, West Tower
2:00 pm – 3:00 pm	PBLD-08: Defining Acute Epiglottitis and Anesthetic Management in the Post-Haemophilus Influenzae Type B (Hib) Vaccination Era*	Wright, Third Floor, West Tower
2:00 pm – 3:30 pm	Moderated Poster Discussion Session-03	Riverside West, Exhibit Level, East Tower
2:00 pm – 3:30 pm	P-05: Regional Anesthesia: An Evidence-Based Look at Current Controversies and Unknowns	Regency A, Ballroom Level, West Tower
2:00 pm – 3:30 pm	P-06: SPAQI: Preoperative Management and Optimization Strategies	Crystal C, Lobby Level, West Tower
2:00 pm – 3:30 pm	P-07: Detection of Sepsis: Beyond Culture	Regency B, Ballroom Level, West Tower
2:00 pm – 5:00 pm	W-02: Advanced Perioperative Ultrasound*	Comiskey, Concourse Level, West Tower
2:15 pm – 3:45 pm	SCHOLAR-05: Moving Fluidly Across the Translational Spectrum: Current Opioid Crisis	Regency C, Ballroom Level, West Tower
2:30 pm – 3:30 pm	PBLD-09: AUA: Why Study Time Doesn't Always Lead to Learning: How Do We Help the Struggling Trainee? – Offered Twice!	Ogden, Third Floor, West Tower
2:55 pm – 3:40 pm	RCL-04: Anesthesia for Children with Inborn Errors of Metabolism: Opening Up the Black Box	Crystal B, Lobby Level, West Tower
3:30 pm – 4:00 pm	Break with Exhibitors	Regency D, Ballroom Level, West Tower
3:30 pm – 6:00 pm	SYM-02: SAGA: Perioperative Care of the Frail or High-Risk Older Patient: Current Knowledge and Future Directions	Crystal C, Lobby Level, West Tower
4:00 pm – 4:45 pm	RCL-05: Neurologic Complications Associated with Neuraxial Regional Anesthesia	Crystal B, Lobby Level, West Tower
4:00 pm – 5:00 pm	PBLD-10: AUA: Getting to the Heart of the Matter: Perioperative Focused Cardiac and Ultrasound, and The Hemodynamically Unstable Patient – Offered Twice!	Dusable, Third Floor, West Tower
4:00 pm – 5:00 pm	PBLD-11: SOCCA: Perioperative Renal Replacement Therapy for the Anesthesiologist: Does It Make A Difference?*	Wright, Third Floor, West Tower
4:00 pm – 5:00 pm	SCHOLAR-06: Priorities for Developing Researchers: Perspectives from the NIH and IARS*	Regency C, Ballroom Level, West Tower
4:00 pm – 5:30 pm	Moderated Poster Discussion Session-04	Riverside West, Exhibit Level, East Tower
4:00 pm – 5:30 pm	P-08: Investigating, Conceptualizing and Addressing Healthcare Disparity in Anesthesiology and Perioperative Medicine	Regency A, Ballroom Level, West Tower
4:00 pm – 5:30 pm	P-09: Management of Patients with Pulmonary Hypertension	Regency B, Ballroom Level, West Tower
5:00 pm – 5:45 pm	RCL-06: SOCCA: Heart Failure with Preserved Ejection Fraction (HFpEF) as a Perioperative Risk Factor	Crystal B, Lobby Level, West Tower
5:10 pm – 6:10 pm	SCHOLAR-07: From the Editor's Desk: A No-Nonsense Guide to Successful Publication*	Regency C, Ballroom Level, West Tower
6:00 pm – 7:30 pm	IARS, AUA and SOCCA Alignment Reception	Regency D & Foyer, Ballroom Level, West Tower
6:00 pm – 7:30 pm	Exhibits	Regency D & Foyer, Ballroom Level, West Tower

*Ticketed Session. See Registration Desk for availability.

**Check at the Exhibits Registration Desk for availability in Regency Foyer D, Ballroom Level, West Tower.

Room Locator, continued

SUNDAY, APRIL 29

TIME	EVENT	ROOM
6:00 am – 6:00 pm	Registration	Crystal Foyer, Lobby Level, West Tower
6:30 am – 7:30 am	Continental Breakfast with Exhibitors	Regency D, Ballroom Level, West Tower
6:30 am – 4:00 pm	Exhibits	Regency D, Ballroom Level, West Tower
7:30 am – 9:00 am	Moderated Poster Discussion Session-05	Riverside West, Exhibit Level, East Tower
7:30 am – 9:00 am	P-10: Understanding and Making Use of the Electroencephalogram During General Anesthesia	Crystal A, Lobby Level, West Tower
7:30 am – 9:00 am	P-11: Physician Wellness in Hospital Medicine: Thriving, Not Simply Surviving	Regency B, Ballroom Level, West Tower
7:30 am – 9:00 am	P-12: WFSA: Universal Access and Safe Anesthesia: Global Anesthesia Workforce	Regency A, Ballroom Level, West Tower
8:00 am – 8:45 am	RCL-07: Airway Management of the Obstetric Patient: What's New?	Crystal B, Lobby Level, West Tower
8:00 am – 9:00 am	PBLD-12: A New Research Ethical Paradigm for Health Services Research and Cluster Randomized Trials*	Dusable, Third Floor, West Tower
8:00 am – 9:00 am	PBLD-13: Ventricular Assist Devices: Anesthetic Management of Patients Presenting for Noncardiac Procedures*	Wright, Third Floor, West Tower
9:00 am – 9:30 am	Break with Exhibitors	Regency D, Ballroom Level, West Tower
9:30 am – 10:15 am	RCL-08: LVADs and Noncardiac Surgery: What To Do When They Come to Your OR	Crystal B, Lobby Level, West Tower
9:30 am – 10:30 am	PBLD-14: TAS: Anesthetic Considerations in Blast Injury*	Dusable, Third Floor, West Tower
9:30 am – 10:30 am	PBLD-14B: AUA: Getting to the Heart of the Matter: Perioperative Focused Cardiac and Pulmonary Ultrasound, and the Hemodynamically Unstable Patient – Offered Twice!*	Wright, Third Floor, West Tower
9:30 am – 11:00 am	Kosaka Best of Meeting Abstract Awards Session	Acapulco-Hong Kong-Toronto, Ballroom Level, West Tower
9:30 pm – 12:00 pm	International Science Symposium: Designing Drugs: Transforming Anesthesiology Practice	Crystal C, Lobby Level, West Tower
9:30 am – 12:30 pm	W-03: Truncal Blocks Workshop: An Enhanced Recovery After Surgery (ERAS) Approach*	Wrigley, Concourse Level, West Tower
9:45 am – 11:15 am	P-13: Increasing Diversity and Gender Equivalency in Your Department	Regency B, Ballroom Level, West Tower
9:45 am – 11:15 am	P-14: Can Human Factors and Cognitive Science Make Medicine and Anesthesiology Safer?	Regency A, Ballroom Level, West Tower
10:25 am – 11:10 am	RCL-09: Cerebrospinal Fluid Drainage Catheters in Endovascular and Open Aortic Surgery	Crystal B, Lobby Level, West Tower
10:45 am – 11:45 am	PBLD-15: Modern Pain Management Concepts for Patients Undergoing Thoracic Surgery*	Wright, Third Floor, West Tower
11:20 am – 12:05 pm	RCL-10: Neurological Complications of Cardiovascular Diseases	Crystal B, Lobby Level, West Tower
11:30 am – 1:00 pm	Moderated Poster Discussion Session-06	Riverside West, Exhibit Level, East Tower
11:30 am – 1:00 pm	P-15: Anesthesiologists within the U.S. Veterans Health Administration: Contributions to Anesthesia and Perioperative Medicine	Crystal A, Lobby Level, West Tower
11:30 am – 1:00 pm	P-16: SmartTots: Neurotoxicity in Children Exposed to Anesthesia	Regency A, Ballroom Level, West Tower
11:30 am – 1:00 pm	P-17: Innovations in Anesthesiology Resident Education	Regency B, Ballroom Level, West Tower
12:15 pm – 1:00 pm	RCL-11: Perioperative Management of Hyperglycemia for Noncardiac Surgery: Who, How and Why?	Crystal B, Lobby Level, West Tower
1:00 pm – 2:00 pm	Lunch on Your Own	Offsite (see restaurant list on page 11)
2:00 pm – 2:45 pm	RCL-12: Perioperative Venous Thromboembolism: A Review	Crystal B, Lobby Level, West Tower
2:00 pm – 3:00 pm	PBLD-16: How Should I Manage My Patient's Regional Anesthesia Associated with Neurologic Complication?*	Dusable, Third Floor, West Tower
2:00 pm – 3:30 pm	Moderated Poster Discussion Session-07	Riverside West, Exhibit Level, East Tower
2:00 pm – 3:30 pm	P-18: eSAS: Updates to Perioperative Outcomes Research: So Far We've Come, So Far to Go	Regency A, Ballroom Level, West Tower

*Ticketed Session. See Registration Desk for availability.

General Information

Room Locator, continued

SUNDAY, APRIL 29, continued

TIME	EVENT	ROOM
2:00 pm – 3:30 pm	P-19: Healthcare Quality Infrastructure: Too Much Stick, Not Enough Carrot	Regency B, Ballroom Level, West Tower
2:00 pm – 3:30 pm	P-20: A&A: Meet the Editors – Non-CME	Crystal A, Lobby Level, West Tower
2:00 pm – 5:00 pm	W-04: Teaching Anesthesia Teams to Perform After Action Reviews: Lessons Learned from Aviation and Healthcare*	Gold Coast, Concourse Level, West Tower
2:30 pm – 3:30 pm	PBLD-17: SNACC: Anesthesia for Acute Stroke: Updates in Management*	Wright, Third Floor, West Tower
2:55 pm – 3:40 pm	RCL-13: TAS: The Practicalities of Delivering Massive Transfusions in Trauma Resuscitation	Crystal B, Lobby Level, West Tower
3:30 pm – 4:00 pm	Break with Exhibitors	Regency D, Ballroom Level, West Tower
3:30 pm – 6:00 pm	SYM-03: CAS: Social Accountability: How Can Anesthesiology Face the Challenge? No Anesthesia? Whose Problem is It?	Regency A, Ballroom Level, West Tower
4:00 pm – 4:45 pm	RCL-14: ASER: Enhanced Recovery Program: Key Components, Implementation and Outcomes	Crystal B, Lobby Level, West Tower
4:00 pm – 5:00 pm	PBLD-18: Acute Pulmonary Hypertensive Crisis: Integrating Old and New Hemodynamic Monitoring at the Bedside*	Dusable, Third Floor, West Tower
4:00 pm – 5:00 pm	PBLD-19: The Difficult Airway in Obstetrics*	Wright, Third Floor, West Tower
4:00 pm – 5:30 pm	Moderated Poster Discussion Session-08	Riverside West, Exhibit Level, East Tower
4:00 pm – 5:30 pm	P-21: SOCCA: 50 Years of ARDS: An Update	Regency B, Ballroom Level, West Tower
4:00 pm – 5:30 pm	P-22: Ketamine for Acute Pain, Chronic Pain, and Psychiatric Disorders: An Evidence-Based Review of Efficacy, Safety, and Logistics	Crystal C, Lobby Level, West Tower
4:00 pm – 5:30 pm	P-23: Interpreting and Applying Systematic Reviews in Perioperative Medicine	Crystal A, Lobby Level, West Tower
5:00 pm – 5:45 pm	RCL-15: Ultrasound Findings in Intraoperative Anesthetic Emergencies	Crystal B, Lobby Level, West Tower
6:30 pm – 8:00 pm	DINE-AROUND SESSION II* Group 7: Improving Outcomes, Making Difficult Decisions and The Aging Population Emergency General Surgery	The Dearborn, 145 N Dearborn St
	Group 8: Pain Management and the Opioid Epidemic	MingHin Cuisine, 333 E Benton Place, Suite #300
	Group 9: Physician Wellness	Labriola, 535 North Michigan Ave
	Group 10: Quality/Safety Outcomes Studies	Beatrix, 519 North Clark St
	Group 11: Treating an Aging Population	Imperial Lamian, 6 W Hubbard St

MONDAY, APRIL 30

TIME	EVENT	ROOM
6:00 am – 6:00 pm	Registration	Crystal Foyer, Lobby Level, West Tower
6:30 am – 7:30 am	Continental Breakfast with Exhibitors	Regency D, Ballroom Level, West Tower
6:30 am – 4:00 pm	Exhibits	Regency D, Ballroom Level, West Tower
6:30 am – 7:30 am	Innovating the Attendee Experience Focus Group	Toronto Room, Ballroom Level, West Tower
7:30 am – 9:00 am	Moderated Poster Discussion Session-09	Riverside West, Exhibit Level, East Tower

*Ticketed Session. See Registration Desk for availability.

Room Locator, continued

MONDAY, APRIL 30, continued

TIME	EVENT	ROOM
7:30 am – 9:00 am	P-24: Innovative Training for Future Leaders in Anesthesiology	Crystal A, Lobby Level, West Tower
7:30 am – 9:00 am	P-25: SAMBA: The Perioperative Management of the Heroin/Fentanyl Addicted Patient: The Epidemic is Upon Us!	Regency A, Ballroom Level, West Tower
7:30 am – 9:00 am	P-26: Data Driven Quality Improvement	Regency B, Ballroom Level, West Tower
8:00 am – 8:45 am	RCL-16: Blue Babies: How Do They Survive?	Crystal B, Lobby Level, West Tower
8:00 am – 9:00 am	PBLD-20: End of Life Option Act: What Role Do Pediatric Practitioners Have in the Provision of Aid-in-Dying Drugs*	Dusable, Third Floor, West Tower
9:00 am – 9:30 am	Break with Exhibitors	Regency D, Ballroom Level, West Tower
9:30 am – 10:15 am	RCL-17: Medicine for Care of Older Persons and Emergency Laparotomy: The Lessons and How We Can Improve Care	Crystal B, Lobby Level, West Tower
9:30 am – 10:30 am	PBLD-21: Ketamine for Perioperative Analgesia: Just the Facts*	Dusable, Third Floor, West Tower
9:30 am – 12:00 pm	SYM-04: A&A: Acute Kidney Injury in the Perioperative Period: From Bench to Bedside	Crystal C, Lobby Level, West Tower
9:30 am – 12:30 pm	W-05: SAGA: Interactive Bootcamp for Brief Perioperative Cognitive Assessment*	Wrigley, Concourse Level, West Tower
9:45 am – 11:15 am	Moderated Poster Discussion Session-10	Riverside West, Exhibit Level, East Tower
9:45 am – 11:15 am	P-27: Clinical Informatics Training for Anesthesiologists	Regency A, Ballroom Level, West Tower
9:45 am – 11:15 am	P-28: So You Want To Be A Leader: A How-To Guide	Regency B, Ballroom Level, West Tower
10:25 am – 11:10 am	RCL-18: Safety Reporting, Checklists, and Root Cause Analysis: What Are They Good For? Absolutely Nothing?	Crystal B, Lobby Level, West Tower
11:20 am – 12:05 pm	RCL-19: Principles of Lean Management and Systems Engineering for Anesthesiologists	Crystal B, Lobby Level, West Tower
11:30 am – 1:00 pm	Moderated Poster Discussion Session-11	Riverside West, Exhibit Level, East Tower
11:30 am – 1:00 pm	P-29: Impact of Anesthesia in Patients with Concussion	Regency A, Ballroom Level, West Tower
11:30 am – 1:00 pm	P-30: eSAS: The “I” in “Team”: Interdisciplinary Thinking for Whole-Patient Perioperative Care	Regency B, Ballroom Level, West Tower
11:30 am – 1:00 pm	P-31: STA: Leveraging Machine Learning to Improve Patient Care: What Is Involved, and What It Really Means	Crystal A, Lobby Level, West Tower
12:00 pm – 1:00 pm	PBLD-23: The Preoperative Anesthesia Clinic Improves Patient Recruitment for Clinical Research*	Dusable, Third Floor, West Tower
12:15 pm – 1:00 pm	RCL-20: Women in Medicine and Leadership: Glass Ceiling, Sticky Floors, and Everything in Between	Crystal B, Lobby Level, West Tower
1:00 pm – 2:00 pm	Lunch on Your Own	Offsite (see restaurant list on page 11)
2:00 pm – 2:45 pm	RCL-21: Biases in Education and Research and Their Impact on Patient Safety	Crystal B, Lobby Level, West Tower
2:00 pm – 3:00 pm	PBLD-24: Hip Fracture in a Patient with Severe Pulmonary Hypertension*	Dusable, Third Floor, West Tower
2:00 pm – 3:30 pm	Moderated Poster Discussion Session-12	Riverside West, Exhibit Level, East Tower
2:00 pm – 3:30 pm	P-32: Rise of the Machines: Mechanical Support for Organ Failure	Regency A, Ballroom Level, West Tower
2:00 pm – 3:30 pm	P-33: ISPCOP: Morbid Obesity: Recent Advances and New Insights in the Perioperative Anesthetic Care of Affected Patients	Crystal A, Lobby Level, West Tower
2:00 pm – 3:30 pm	P-34: SABM: Review of the Top Blood Management Publications in A&A	Regency B, Ballroom Level, West Tower
2:00 pm – 5:00 pm	W-06: Transformational Leadership: You’re Not a Born Leader!*	Gold Coast, Concourse Level, West Tower
2:30 pm – 3:30 pm	PBLD-25: Clinical Research for the Busy Anesthesia Provider: When Research is “Not Your Thing”*	Wright, Third Floor, West Tower

*Ticketed Session. See Registration Desk for availability.

General Information

Room Locator, continued

MONDAY, APRIL 30, continued

TIME	EVENT	ROOM
2:55 pm – 3:40 pm	RCL-22: The Trials and Tribulations of ERABS: Implementing ERAS in Bariatric Anesthesia!	Crystal B, Lobby Level, West Tower
3:30 pm – 4:00 pm	Break	Riverside West, Exhibit Level, West Tower
3:30 pm – 6:00 pm	SYM-05: A Primer on Glial Cells for the Anesthesiologist: Functional Contribution to Stroke, Pain, Post-Operative Cognitive Dysfunction, and Alzheimer's Disease	Crystal C, Lobby Level, West Tower
4:00 pm – 4:45 pm	RCL-23: Update on Healthcare Reform: The Impact of MACRA on the Practice of Anesthesia	Crystal B, Lobby Level, West Tower
4:00 pm – 5:00 pm	PBLD-26: SABM: Management of DOAC's in the Patient Blood Management (PBM) Arena*	Dusable, Third Floor, West Tower
4:00 pm – 5:30 pm	Moderated Poster Discussion Session-13	Riverside West, Exhibit Level, East Tower
4:00 pm – 5:30 pm	P-35: SAGA: Your Patient Has Memory Problems: Now What?	Regency A, Ballroom Level, West Tower
4:00 pm – 5:30 pm	P-36: APSF: The Role of Implementation Science in Patient Safety	Regency B, Ballroom Level, West Tower
4:55 pm – 5:40 pm	RCL-24: SPA: Perioperative Pain Management in Children with Sleep-Disordered Breathing: A Difficult Balancing Act	Crystal B, Lobby Level, West Tower

TUESDAY, MAY 1

TIME	EVENT	ROOM
7:00 am – 8:00 am	Continental Breakfast	Crystal Foyer, Lobby Level, West Tower
7:00 am – 12:00 pm	Registration	Crystal Foyer, Lobby Level, West Tower
8:00 am – 8:45 am	RCL-25: SASM: Postoperative Respiratory Depression: Who? When? How? Knowledge that Anesthesiologists Should Have	Regency C, Ballroom Level, West Tower
8:00 am – 9:00 am	PBLD-27: Simplifying the ESC and AHA Guidelines for Perioperative Management for Noncardiac Surgery: A Clinician's Approach*	Dusable, Third Floor, West Tower
8:00 am – 9:30 am	P-37: Leveraging Mobile Apps for Medical Education	Regency B, Ballroom Level, West Tower
8:00 am – 9:30 am	P-38: eSAS: Practical Clinical Approaches to Prevention of Postoperative Delirium: A Review of Modern Evidence	Regency A, Ballroom Level, West Tower
9:00 am – 9:45 am	RCL-26: Advanced Teaching Skills for the OR: How to Teach Effectively when Faced with High Clinical Workload and Lack of Time	Regency C, Ballroom Level, West Tower
9:15 am – 10:15 am	PBLD-28: Emergency TEVAR Patient Taking a Novel Oral Anticoagulant: Best Evidence for Coagulation Management*	Dusable, Third Floor, West Tower
9:45 am – 11:15 am	P-39: A National Strategy to Reduce the Opioid Epidemic: A Report from the National Academies of Sciences, Engineering and Medicine	Regency A, Ballroom Level, West Tower
9:45 am – 11:15 am	P-40: SEA: Managing Professionalism Issues in the Workplace	Regency B, Ballroom Level, West Tower
10:00 am – 10:45 am	RCL-27: The Adult Patient with Congenital Heart Disease Presenting for Noncardiac Surgery	Regency C, Ballroom Level, West Tower
10:30 am – 11:30 am	PBLD-29: Management of a Patient with Pulmonary Hypertension for Noncardiac Surgery: Anesthetic Implications*	Dusable, Third Floor, West Tower
11:00 am – 11:45 am	RCL-28: SAGA: The Dementia Brain: Considerations for Anesthesiologists	Regency C, Ballroom Level, West Tower
1:00 pm – 4:00 pm	Clinical Research Consortium: Clinical Research Initiative for Perioperative Clinical and Translational Science Meeting	Regency B, Ballroom Level, West Tower
1:00 pm – 5:30 pm	Society for the Advancement of Transplant Anesthesia (SATA) 2nd Symposium	Regency A, Ballroom Level, West Tower

*Ticketed Session. See Registration Desk for availability.

Session Highlights for the IARS 2018 Annual Meeting and International Science Symposium

Saturday, April 28 • 7:30 am – 9:00 am

Opening General Session and the T.H. Seldon Memorial Lecture: Personalizing Healthcare in the Era of Big Data

with Dr. Jeffrey R. Balser

Dr. Balser oversees Vanderbilt University Medical Center, one of the nation's largest fully integrated academic health centers. As a national spokesperson on health system governance and finance, Dr. Balser has led efforts to understand and promote the fiscal health and sustainability of research and training in academic medicine. His original National Institutes of Health-(NIH) supported scholarship focused on the functional genomics of cardiac arrhythmias. Over the past two decades, Dr. Balser has guided the expansion of Vanderbilt University's research programs in personalized medicine, human subjects research, and population health, moving Vanderbilt University School of Medicine's ranking to eighth in the nation among U.S. medical schools in total grant support provided through the NIH. A world leader in health informatics and genomic medicine, Vanderbilt University is home to the NIH Data and Research Center for the U.S. Precision Medicine Initiative.

Saturday, April 28 • 9:30 am – 12:00 pm

Association of University Anesthesiologists Symposium: Mitochondria and Bioenergetics in Health and Disease: It's Not Just a Power Failure!

with Drs. Paul S. Brookes, Elizabeth A. Jonas, Y.S. Prakash, Douglas L. Rothman, and Douglas C. Wallace

Mitochondria are well-known as the cell's powerhouse. They are also the source of reactive oxygen species that influence physiological functions, homeostasis, signal transduction, inflammation, survival, and bioenergetics in the context of disease that, in turn, modulates mitochondrial structure and function. This symposium will investigate the important questions relating to mitochondria and bioenergetics that impact the perioperative environment.

Saturday, April 28 • 3:30 pm – 6:00 pm

Society for the Advancement of Geriatric Anesthesia Symposium: Perioperative Care of the Frail or High-Risk Older Patient: Current Knowledge and Future Directions

with Drs. Faraj W. Abdallah, Manoj M. Lalu, Daniel I. McIsaac, and Hannah M. Wunsch

Older patients require a unique approach to their perioperative care, are likely to have multimorbidity, often have impaired organ function which impacts pharmacokinetics and pharmacodynamics, and may face significant cognitive, functional and psychosocial impairments. Attend this important session and evaluate the current state of knowledge regarding the epidemiology and clinical impact of our aging population and the presence of perioperative frailty.

Sunday, April 29 • 9:30 am – 12:00 pm

International Science Symposium: Designing Drugs: Transforming Anesthesiology Practice

with Drs. Laura M. Bohn, Alex S. Evers, Aashish Manglik, and Eugene R. Viscusi

The concept of specific ligands acting on receptor subtypes (full or partial agonists or antagonists) to modulate a second messenger signaling system is a fundamental principle of traditional pharmacology. It is now known that some ligands can bind to a specific site on a single receptor isoform to activate two different signaling pathways; various ligands for these sites can be biased signaling agents because they activate one signaling pathway in preference to the other. During this symposium, participants will explore this novel but fundamental concept in pharmacology with an emphasis on opioids and implications for the future clinical use of narcotic agents.

Session Highlights, continued

Sunday, April 29 • 3:30 pm – 6:00 pm

Canadian Anesthesiologists' Society Symposium: Social Accountability: How Can Anesthesiology Face the Challenge? No Anesthesia? Whose Problem is It?

with Drs. Alike LaFontaine, W. Alexander (Sandy) MacDonald, Susan S. O'Leary, Beverley A. Orser, Pavithra Ranganathan, Brian Spain, and Ruth Wilson

This symposium, led by the Canadian Anesthesiologists' Society, challenges the international anesthesia community to consider our role in the delivery of anesthesia care to indigenous and rural populations. Anesthesia care is provided in many remote locations, but other areas lack trained anesthesia providers. Whose problem is it? How should we be providing physician-led anesthesia care in rural and remote regions? How should we train, support and retrain care providers? How can we optimize the composition and expertise of care teams? These are challenging problems that require the attention of our best innovators. This panel of global thought leaders will provide their experiences and perspectives on this challenging aspect of anesthesia care, but most importantly, we want to hear from you.

Monday, April 30 • 9:30 am – 12:00 pm

Anesthesia & Analgesia Symposium: Acute Kidney Injury in the Perioperative Period: From Bench to Bedside

with Drs. Azra Bihorac, Eric Hoste, John A. Kellum, and Alexander Zarbock

The incidence of perioperative acute kidney injury (AKI) is more common than previously recognized especially in high-risk patients undergoing higher risk procedures. The growing number of patients who develop perioperative AKI is related, in part, to the aging population and increase in the number of individuals with chronic co-morbidities particularly those with pre-morbid chronic kidney disease. Despite the acceptance of standardization in the definition of AKI, clinicians routinely under-diagnose AKI and fail to appreciate that it is associated with considerable morbidity and mortality. This symposium will cover the role of novel damage biomarkers and new therapy strategies to prevent surgery-associated AKI.

Monday, April 30 • 3:30 pm – 6:00 pm

Symposium: A Primer on Glial Cells for the Anesthesiologist: Functional Contribution to Stroke, Pain, Post-Operative Cognitive Dysfunction, and Alzheimer's Disease

with Drs. Michelle L. James, Ines P. Koerner, Vivianne Tawfik, and Niccolo P. Terrando

Constituting over 70% of cells in the central nervous system (CNS), glial cells in their homeostatic states contribute to synaptic pruning, neurotransmission and immune surveillance. CNS glial cells (including microglia and astrocytes) may become activated in response to injury, resulting in the release of factors that influence synaptic transmission and ultimately alter neuronal circuits. Attend this important symposium and identify the basic mechanisms of CNS diseases that connect many seemingly unrelated conditions and glial modulators of clinical importance.



IARS, AUA and SOCCA Annual Meetings Together in One Location • Hyatt Regency Chicago

AUA 2018 Annual Meeting • Thursday, April 26 – Friday, April 27

Engage with leaders in academic anesthesiology and take away valuable tools designed to enhance your practice at the AUA 2018 Annual Meeting, April 26-27, in Chicago, then stay through Saturday, April 28, for the Aligned Meeting Day, available complimentary to AUA registrants. Review the intricacies of *Motivation, Metacognition, and Self-Regulation in Education*, investigate *The Science of Longitudinal Assessment*, and discuss the latest in *Sepsis Revisited – Important Updates* at the President's Panel. Learn what makes the Host Program Institutions, Northwestern University Feinberg School of Medicine and The University of Chicago Medicine, unique. Plus, discover original research during two days of Scientific Advisory Board (SAB) Oral Sessions and Moderated Poster Discussion Sessions.

SOCCA 2018 Annual Meeting and Critical Care Update • Friday, April 27

Join leaders in critical care anesthesiology at the SOCCA 2018 Annual Meeting and Critical Care Update, Friday, April 27, to explore current practices in critical care anesthesia and focus on new discoveries in critical care research and education. Program topics include *Metabolic Support for the Postoperative Patient in the ICU*, *Enhancing Recovery from Critical Illness and Life Thereafter*, *Wellness for the Anesthesiologist-Intensivist*, and *Innovative Uses of Ultrasound in the ICU*. Plus, stay an extra day for the IARS Aligned Meeting Day and SOCCA Focus on Critical Care Day on Saturday, April 28, available complimentary to SOCCA registrants.

IARS Aligned Meeting and SOCCA Focus on Critical Care Day Saturday, April 28

The attendees of the IARS, AUA and SOCCA Annual Meetings have the opportunity to take advantage of a special Aligned Meeting and SOCCA Focus on Critical Care Day on Saturday, April 28. Thought leaders in academic anesthesiology will present a wide selection of robust education sessions highlighting pioneering topics in anesthesia and celebrating advances in education, science, research and the art of anesthesiology.

Sessions Include:

- 7:30 am – 9:00 am: **Opening General Session and T.H. Seldon Memorial Lecture:**
Personalizing Healthcare in the Era of Big Data
with Dr. Jeffrey R. Balser
- 9:30 am – 10:30 am: **SOCCA Problem-Based Learning Discussion: *To Intubate or Not: Management of Post-Operative Acute Respiratory Failure***
with Dr. Kunal Karamchandani
- Management of postoperative acute respiratory failure can be challenging. Early recognition and prompt treatment is critical to prevent significant morbidity and mortality. In this case-based session, discuss the principles and utility of non-invasive ventilation (NIV) and high flow nasal cannula (HFNC) in the management of acute hypoxic respiratory failure.
- 9:30 am – 12:00 pm: **AUA Symposium: *Mitochondria and Bioenergetics in Health and Disease: It's Not Just a Power Failure!***
with Drs. Paul S. Brookes, Elizabeth A. Jonas, Y.S. Prakash, Douglas L. Rothman, and Douglas C. Wallace
- 11:15 am – 12:00 pm: **SOCCA Review Course Lecture: *The Tele-Vision: Taking Care to the Patient and Expanding the Scope of the Intensivist***
with Dr. Liza M. Weavind
- The reality of virtual care is upon us, and it is the responsibility of intensivists to maximize the potential of telemedicine to leverage ourselves and provide care to an ever-widening circle of patients, not limited to the critically ill in our ICU's. The patients may be acutely deteriorating on a non-monitored floor or being evaluated in an ED. The input of intensivists, in real time, in remote geographic locations, within or outside of the hospital may be lifesaving. Utilizing telemedicine to take critical care to the patient, rather than bringing the patient to the ICU, should be the goal.

(continued)

IARS Aligned Meeting and SOCCA Focus on Critical Care Day, continued

- 12:00 pm – 1:00 pm: **AUA Problem-Based Learning Discussion: *Why Study Time Doesn't Always Lead to Learning: How Do We Help the Struggling Trainee?*** Also offered from 2:30 pm – 3:30 pm
with Drs. Ersne Eromo and Daniel Saddawi-Konefka

This hands-on session will provide various self-study methods available to trainees, including relative effectiveness of each technique, offering an approach to unpack a trainee's study habits and to prepare a study plan for a hypothetical trainee that combines effective learning modalities.
- 2:00 pm – 3:00 pm: **SOCCA Problem-Based Learning Discussion: *The Sweet Escape: A Complicated Case of DKA***
with Dr. George W. Williams, II

Join this exciting discussion and examine an intriguing case of diabetic ketoacidosis (DKA). Evaluate a case of a middle-aged man who presents with a preliminarily negative cardiac workup and yet has chest pain. Endocrine, renal and infectious diseases come into play in this real case.
- 2:30 pm – 3:30 pm: **AUA Problem-Based Learning Discussion: *Why Study Time Doesn't Always Lead to Learning: How Do We Help the Struggling Trainee?*** Also offered at 12:00 pm – 1:00 pm!
with Drs. Ersne Eromo and Daniel Saddawi-Konefka
- 4:00 pm – 5:00 pm: **AUA Problem-Based Learning Discussion: *Getting to the Heart of the Matter: Perioperative Focused Cardiac and Pulmonary Ultrasound, and The Hemodynamically Unstable Patient***
Offered a second time on Sunday!
with Drs. Alexander S. Kuo and Abraham Sonny

Evaluate the role of anesthesiologist-performed focused cardiac and pulmonary ultrasound in the perioperative period and the role of focused ultrasound in hemodynamic assessment for guiding diagnosis and management of undifferentiated shock.
- 4:00 pm – 5:00 pm: **SOCCA Problem-Based Learning Discussion: *Perioperative Renal Replacement Therapy for the Anesthesiologist: Does It Make A Difference?***
with Dr. Dragos Galusca

Anesthetic management of high-risk patients undergoing major hepatic surgery can involve the use of perioperative renal replacement therapy (RRT). Examine the risk factors and etiology of renal injury for patients undergoing major (hepatic) surgery during this discussion session.
- 5:00 pm – 5:45 pm: **SOCCA Review Course Lecture: *Heart Failure with Preserved Ejection Fraction (HFpEF) as a Perioperative Risk***
with Dr. Aalok Kacha

Heart failure with preserved ejection fraction (HFpEF) accounts for approximately 50% of cases of heart failure. HFpEF confers an increased risk of perioperative morbidity and mortality. Assess how the phenotypes, evaluation, and management of HFpEF is important for the perioperative physician given the increasing prevalence of ICUs.

Bonus! Focus on Critical Care Session on Sunday, April 29, Complimentary for SOCCA Attendees:

- 4:00 pm – 5:30 pm: **SOCCA Panel: *50 Years of ARDS: An Update***
with Drs. Kunal Karamchandani, Brian Kavanagh, Daniel S. Talmor, Avery Tung, and Michael H. Wall

Despite heightened awareness and extensive research related to ARDS over the last 50 years, ARDS represents an important public health problem globally and is associated with a mortality rate of approximately 40%. ARDS continues to be under-recognized and under-treated in terms of the use of optimal, proven, or recommended approaches to mechanical ventilation. Attend this panel and discover strategies to prevent and treat ARDS.

Scholars' Program • Friday, April 27 – Saturday, April 28

The IARS, AUA, SOCCA and eSAS Scholars' Program is for early-stage scholars in anesthesiology who are looking for best practices in adapting to the rapidly changing world of academic anesthesia and medicine. Through innovative teaching approaches, scholars will receive the much-needed skills they desire while interacting with peers and mentors.



Friday, April 27 • 6:00 pm – 7:00 pm

IARS, AUA, SOCCA and eSAS Scholars' Program Mentoring and Networking Reception

Trainees will be matched with a mentor and have the opportunity to network during this reception.

Saturday, April 28 • 6:15 am – 7:15 am

Breakfast with IARS, AUA and SOCCA Leadership and Mentors

Share the most important meal of the day and network with the IARS, AUA and SOCCA Leadership and Mentors in anesthesiology education and research.

Saturday, April 28 • 9:30 am – 9:40 am

Introduction to the Scholars' Program and eSAS

with Drs. Vivianne Tawfik and Elizabeth L. Whitlock

The Scholars' Program is an amazing opportunity for early-stage faculty, fellows, residents and other trainees to gain exposure to exciting advances in the field, learn more about career development in academic anesthesiology and meet other early-stage scholars.

Saturday, April 28 • 9:40 am – 10:30 am

Moving from Insight to Scientific Premise to Research Program and What This is All About

with Drs. Max B. Kelz and Katie J. Schenning

Delve deeply into scientific premises and gain insight into the most thought-provoking research programs in anesthesiology.

Saturday, April 28 • 10:45 am – 12:15 pm

Shine Like A Rockstar: Different Paths to Success

with Drs. Boris D. Heifets, Laureen Hill, Manoj M. Lalu, Peter Nagele, and Paloma Toledo

Learn how to succeed on the clinician-investigator track and observe highlighted pathways, illustrating lessons learned towards success in academic anesthesiology.

Saturday, April 28 • 12:30 pm – 2:00 pm

Lunch Session: Resilience Personified: Transitioning from Trainee to Junior Faculty and Beyond

with Drs. Julie K. Freed, Ken Solt, and Elizabeth L. Whitlock

As young physician scientists continue to face unique challenges, it is important to address the transition from trainee to early-stage faculty including all the pitfalls along the way. Hear about the paths taken by two early-stage scholars during this session.

Saturday, April 28 • 2:15 pm – 3:45 pm

Moving Fluidly across the Translational Spectrum: Current Opioid Crisis

with Drs. Catherine Chen, Afton Hassett, Michael R. Mathis, Giancarlo Vanini, and Jennifer F. Waljee

Explore the promising avenue of innovative and scalable self-management strategies and discuss how effectively empowering patients with anxiety and pain-coping skills would hopefully decrease the use of analgesics and increase patient satisfaction.

Saturday, April 28 • 4:00 pm – 5:00 pm

Priorities for Developing Researchers: Perspectives from the NIH and IARS

with Drs. Emery N. Brown, Alison Cole, and Robert Freundlich

Discover and evaluate the most important priorities for developing researchers from several perspectives including the NIH and IARS.

Saturday, April 28 • 5:10 pm – 6:10 pm

From the Editor's Desk: A No-Nonsense Guide to Successful Publication

with Drs. Hilary P. Grocott, Kate Leslie, and Jamie R. Privratsky

Great research deserves wide dissemination; therefore, providing early-career researchers a no-nonsense and hassle-free approach to designing, implementing, reporting and submitting studies is necessary to maximize impact.

The Scholars' Program requires a separate \$50 non-refundable fee and pre-registration. This fee includes education sessions, reception, breakfast and lunch. Seating is limited. Check at registration to see if space is available.

Networking and Mentoring Opportunities

FRIDAY, APRIL 27

IARS First-Time Attendee Orientation and Networking Session

5:00 pm – 6:00 pm • Regency B, Ballroom Level, West Tower

At the IARS First-Time Attendee Orientation and Networking Session, learn how to make the most of your Annual Meeting experience. Meet other first-time attendees and loyal return attendees of the Annual Meeting – sign-up at registration!

IARS, AUA, SOCCA and eSAS Scholars' Program Mentoring and Networking Reception*

6:00 pm – 7:00 pm • The Living Room & Bar, Skyway Level, West Tower

Network and socialize with fellow scholars, plus participate in mentoring opportunities. The Mentoring and Networking Reception is part of the Scholars' Program and requires a separate, non-refundable fee and pre-registration.

Dine-Around Session 1

7:30 pm – 9:00 pm • Restaurants Offsite

Meet new friends and colleagues in the casual setting of a Dine-Around while discussing the top-of-mind anesthesia topics, See the next page for additional details.

SATURDAY, APRIL 28

Scholars' Program Breakfast with IARS, AUA and SOCCA Leadership and Mentors*

6:15 am – 7:15 am • Regency C, Ballroom Level, West Tower

Networking with the IARS, AUA and SOCCA Leadership and Mentors over breakfast.

IARS, AUA and SOCCA Alignment Reception

6:00 pm – 7:30 pm • Regency D & Foyer, Ballroom Level, West Tower

Come together and celebrate the convergence of the IARS, AUA and SOCCA Annual Meetings and meet leaders in all subspecialties of anesthesiology. Relax, unwind and join your colleagues and peers.

SUNDAY, APRIL 29

Dine-Around Session 2

6:30 pm – 8:00 pm • Restaurants Offsite

Meet new friends and colleagues in the casual setting of a Dine-Around while discussing the top-of-mind anesthesia topics, See the next page for additional details.

MONDAY, APRIL 30

Innovating the Attendee Experience Focus Group

6:30 am – 7:30 am • Toronto, Ballroom Level, West Tower

Brainstorm and imagine ways to innovate the attendee experience at medical meetings. Share your great ideas with peers during this special focus group, hosted by eSAS Co-Presidents Drs. Vivianne Tawfik and Elizabeth Whitlock. We'll bring the coffee, you bring the ideas!

**This session is part of the Scholars' Program and requires a separate, non-refundable fee and pre-registration.*





Dine-Arounds



We know from experience that anesthesiologists are not wallflowers – it's one of the many reasons the IARS, AUA and SOCCA Annual Meetings spark robust conversation and debate! That's why we're offering Dine-Arounds – 10-person dinners where you can network and make friends, in a casual dinner setting, all while discussing top-of-mind anesthesia topics.

Didn't get a chance to sign up for a Dine-Around group? Check at registration in case there are still spots available, and be sure to sign up early next year!

Dine-Around Session 1 • Friday, April 27, 7:30 pm – 9:00 pm

Group 1: Adverse Neurological Effects of Surgery and Anesthesia

Facilitators: Patrick L. Purdon, PhD, and Shobana Rajan, MD
Location: Howells & Hood (435 N Michigan Ave)
Cuisine: Traditional American, \$\$

Group 2: Career Development and Finding the Right Mentor

Facilitators: Keith A. (Tony) Jones, MD, and Makoto Ozaki, MD, PhD
Location: The Dearborn (145 N Dearborn St)
Cuisine: Traditional American, \$\$

Group 3: How to Become a Leader

Facilitator: Colleen Koch, MD, MS, MBA, FACC
Location: Imperial Lamian (6 W Hubbard St)
Cuisine: Chinese, Dim Sum, \$\$

Group 4: Innovations in Anesthesiology

Facilitators: Kelly McQueen, MD, MPH, and Liza M. Weavind, MBBCh, FCCM, MMHC
Location: Tesori Trattoria & Bar (65 E Adams St)
Cuisine: Italian, \$\$

Group 5: Preserving Academic Anesthesia

Facilitators: Michael Avidan, MBBCh, and Davy C.H. Cheng, MD, MSc, FRCPC, FCAHS, CCPE
Location: Beatrix (519 N Clark St)
Cuisine: New American, \$\$

Group 6: Development of Educational Leaders and Scholars in Anesthesiology

Facilitators: Marek Brzezinski, MD, PhD, and Pedro Tanaka, MD, PhD, MACM
Location: Labriola (535 N Michigan Ave)
Cuisine: Italian, New American, \$\$

Group 12: Mechanical Ventilation: Nuances in Using Them

Facilitator: Jeanine P. Wiener-Kronish, MD
Location: Sweetwater Tavern and Grille (225 N Michigan Ave)
Cuisine: New American, \$\$

Dine-Around Session 2 • Sunday, April 29, 6:30 pm – 8:00 pm

Group 7: Improving Outcomes, Making Difficult Decisions and the Aging Population – Emergency General Surgery

Facilitators: Geeta Aggarwal, MBBS, MRCP, FRCA, and Nial Quiney, FRCA, FFICM
Location: The Dearborn (145 N Dearborn St)
Cuisine: Traditional American, \$\$

Group 8: Pain Management and the Opioid Epidemic

Facilitators: Alan Kaye, MD, PhD, DABA, DABPM, DABIPP, and Vivianne Tawfik, MD, PhD
Location: MingHin Cuisine (333 E Benton Pl #300)
Cuisine: Dim Sum, Cantonese, \$\$

Group 9: Physician Wellness

Facilitator: Gregory B. Hammer, MD
Location: Labriola (535 N Michigan Ave)
Cuisine: Italian, New American, \$\$

Group 10: Quality/Safety Outcomes Studies

Facilitators: Jonathan B. Cohen, MD, MS, and Sara Goldhaber-Fiebert, MD
Location: Beatrix (519 N Clark St)
Cuisine: New American, \$\$

Group 11: Treating an Aging Population

Facilitators: Deborah J. Culley, MD, and Elizabeth L. Whitlock, MD, MSc
Location: Imperial Lamian (6 W Hubbard St)
Cuisine: Chinese, Dim Sum, \$\$



Opening General Session

T.H. Seldon Memorial Lecture: *Personalizing Healthcare in the Era of Big Data*

Saturday, April 28, 2018

7:30 am – 9:00 am

Jeffrey R. Balser, MD, PhD

Dean, Vanderbilt University School of Medicine;
President and CEO, Vanderbilt University
Medical Center, Nashville, Tennessee

Jeffrey R. Balser, MD, PhD, oversees Vanderbilt University Medical Center, one of the nation's largest fully integrated academic health centers. A national spokesperson on health system governance and finance, he has led efforts to understand and promote the fiscal health and sustainability of research and training in academic medicine. His original National Institutes of Health (NIH)-supported scholarship focused on the functional genomics of cardiac arrhythmias. Over two decades, Dr. Balser has guided expansion of Vanderbilt's research programs in personalized medicine, human subjects research, and population health, moving Vanderbilt University School of Medicine into eighth place in the U.S. in NIH funding. A world leader in health informatics and genomic medicine, Vanderbilt University is home to the NIH Data and Research Center for the U.S. Precision Medicine Initiative.

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the limitations of data sets previously available for research, and the new data sets becoming available through electronic health records; (2) Review how genomic information can be linked to electronic health record phenotypes, and used for the discovery of new drug targets as well as drug side effects; and (3) Assess the challenges and opportunities associated with bringing genetic information into point-of-care actionable use in clinical care.

Subspecialty Key: AP, EEP, PS, TCSEM

T.H. Seldon Memorial Lecture

Established to honor Dr. "Harry" Seldon, the Anesthesia & Analgesia Editor-In-Chief for 23 years from 1954-1976. The keynote address became the T.H. Seldon Memorial Lecture in 1992 after Dr. Seldon's death in 1991.

International Science Symposium

Designing Drugs: Transforming Anesthesiology Practice

Sunday, April 29 • 9:30 am – 12:00 pm

The concept of specific ligands acting on receptor subtypes (full or partial agonists or antagonists) to modulate a second messenger signaling system is a fundamental principle of traditional pharmacology. It is now known that some ligands can bind to a specific site on a single receptor isoform to activate two different signaling pathways; various ligands for these sites can be biased signaling agents because they activate one signaling pathway in preference to the other. During this symposium, participants will discover this novel but fundamental concept in pharmacology with emphasis on opioids and implications for the future clinical use of narcotic agents.

Moderator:

Alex S. Evers, MD, Henry E. Mallinckrodt Professor, Anesthesiology, Head, Department of Anesthesiology, Professor, Internal Medicine and Developmental Biology, Washington University School of Medicine in St. Louis, St. Louis, Missouri; Trustee, IARS

Panelists:

General Principles of Biased Signaling with Cannabinoid and Kappa-Opioid Receptors

Laura M. Bohn, PhD, Professor, Department of Molecular Medicine and Neuroscience, The Scripps Research Institute, Jupiter, Florida

Biased Signaling and the Opioid Receptor

Aashish Manglik, MD, PhD, Assistant Professor, Departments of Pharmaceutical Chemistry and Anesthesia and Perioperative Care, University of California, San Francisco School of Medicine, San Francisco, California

Clinical Application of Biased Signaling Opioids

Eugene R. Viscusi, MD, Professor, Pain Management, and Director, Acute Pain Management, Thomas Jefferson University, Director, Acute Pain Management, Physician, Jefferson University Hospitals, Sidney Kimmel Medical College at Thomas Jefferson University, Philadelphia, Pennsylvania

Will Anesthetic Drug Design Change the Way We Do Business?

Alex S. Evers, MD

Learner Objectives: After participating in this activity, the learner will be able to: (1) Evaluate how G protein-coupled receptors function in an endogenous setting to control physiologically relevant processes; (2) Discuss general principles of biased signaling with Cannabinoid and Kappa-Opioid receptors; (3) Discuss the concept of biased agonism and its potential for pharmacological targeting of G-protein-coupled receptors; (4) Describe structure-based drug discovery and its role in modern drug development; (5) Discuss mechanism of anesthetic action for anesthetic neurosteroids in pain management; (6) Review the clinical application of biased signaling opioids; and (7) Examine how this novel but fundamental concept in pharmacology, with emphasis on opioids, may affect future clinical use of narcotic agents.

Subspecialty Key: AP, CA, EEP

Annual Meeting Schedule-at-a-Glance

THURSDAY, APRIL 26

AUA and SOCCA Annual Meetings

- 6:00 am – 6:00 pm Registration
- 8:00 am – 6:00 pm AUA Education Sessions and Moderated Poster Discussion Sessions
- 7:00 pm – 8:00 pm SOCCA Reception with Exhibitors
- 7:00 pm – 10:00 pm AUA Social Event Reception

FRIDAY, APRIL 27

IARS, AUA and SOCCA Annual Meetings

- 6:00 am – 6:00 pm Registration
- 8:00 am – 6:00 pm SOCCA Education Sessions and Moderated Poster Discussion Sessions
- 8:00 am – 6:00 pm AUA Education Sessions and Moderated Poster Discussion Sessions
- 5:00 pm – 6:00 pm **IARS First-Time Attendee Orientation and Networking Session**
- 6:00 pm – 7:00 pm **IARS, AUA, SOCCA and eSAS Scholars' Program Mentoring and Networking Reception**
- 7:30 pm – 9:00 pm **Dine-Around Session 1**

SATURDAY, APRIL 28

IARS Annual Meeting, Aligned Meeting and SOCCA Focus on Critical Care Day

- 6:00 am – 6:00 pm Registration
- 6:15 am – 7:15 am **Scholars' Program Breakfast with IARS, AUA and SOCCA Leadership and Mentors**
- 6:30 am – 4:00 pm Tabletop Exhibits
- 7:30 am – 9:00 am **Opening General Session and T.H. Seldon Memorial Lecture:**
Personalizing Healthcare in the Era of Big Data
Jeffrey R. Balser, MD, PhD
- 9:30 am – 12:00 pm **AUA Symposium: Mitochondria and Bioenergetics in Health and Disease: It's Not Just a Power Failure!**
- 9:30 am – 12:30 pm **Workshop: Focused Cardiovascular Ultrasound (FoCUS): It's for Everyone!**
- 9:30 am – 6:00 pm **Concurrent Sessions**
 - Panels
 - Problem-Based Learning Discussions
 - Review Course Lectures
 - Moderated Poster Discussion Sessions
- 9:30 am – 6:10 pm **IARS, AUA and SOCCA Scholars' Program Education Sessions and Lunch**
- 2:00 pm – 5:00 pm **Workshop: Advanced Perioperative Ultrasound**
- 3:30 pm – 6:00 pm **SAGA Symposium: Perioperative Care of the Frail or High-Risk Older Patient: Current Knowledge and Future Directions**
- 6:00 pm – 7:30 pm **IARS, AUA and SOCCA Alignment Reception**
- 6:00 pm – 7:30 pm Tabletop Exhibits

SUNDAY, APRIL 29

- 6:00 am – 6:00 pm Registration
- 6:30 am – 4:00 pm Tabletop Exhibits
- 7:30 am – 6:00 pm **Concurrent Sessions**
 - Panels
 - Problem-Based Learning Discussions
 - Review Course Lectures
 - Moderated Poster Discussion Sessions
- 9:30 am – 11:00 am **Kosaka Best of Meeting Abstract Awards Session**
- 9:30 am – 12:00 pm **International Science Symposium:**
Designing Drugs: Transforming Anesthesiology Practice
- 9:30 am – 12:30 pm **Workshop: Truncal Block Workshop: An Enhanced Recovery After Surgery (ERAS) Approach**
- 2:00 pm – 5:00 pm **Workshop: Teaching Anesthesia Teams to Perform After Action Reviews: Lessons Learned from Aviation and Healthcare**
- 3:30 pm – 6:00 pm **CAS Symposium: Social Accountability: How Can Anesthesiology Face the Challenge? No Anesthesia? Whose Problem is It?**
- 6:30 pm – 8:00 pm **Dine-Around Session 2**

MONDAY, APRIL 30

- 6:00 am – 6:00 pm Registration
- 6:30 am – 9:30 am Tabletop Exhibits
- 6:30 am – 7:30 am **Innovating the Attendee Experience Focus Group**
- 7:30 am – 6:00 pm **Concurrent Sessions**
 - Panels
 - Problem-Based Learning Discussions
 - Review Course Lectures
 - Moderated Poster Discussion Sessions
- 9:30 am – 12:00 pm **A&A Symposium: Acute Kidney Injury in the Perioperative Period: From Bench to Bedside**
- 9:30 am – 12:30 pm **SAGA Workshop: Interactive Bootcamp for Brief Perioperative Cognitive Assessment**
- 2:00 pm – 5:00 pm **Workshop: Transformational Leadership: You're Not a Born Leader!**
- 3:30 pm – 6:00 pm **Symposium: A Primer on Glial Cells for the Anesthesiologist: Functional Contribution to Stroke, Pain, Post-Operative Cognitive Dysfunction and Alzheimer's Disease**

TUESDAY, MAY 1

- 7:00 am – 12:00 pm Registration
- 8:00 am – 11:45 am **Concurrent Sessions**
 - Panels
 - Problem-Based Learning Discussions
 - Review Course Lectures
- 1:00 pm – 5:30 pm **Affiliate Society Meetings**
 - Clinical Research Consortium: Collaborative Research Initiative for Perioperative Clinical and Translational Science Meeting
 - Society for the Advancement of Transplant Anesthesia (SATA) 2nd Symposium

Anesthesia Subspecialty Topics Index for Education Sessions

All education sessions at the Annual Meeting are coded by the anesthesia subspecialty for which they pertain. Please see below for the Anesthesia Subspecialty Key as well as an anesthesia subspecialty topics index with specific sessions identified by topic.

Education Sessions Key for Anesthesia Subspecialty Topics

AM	Airway Management	OB	Obstetric Anesthesiology
AMB	Ambulatory Anesthesia	PA	Perioperative Anesthesia
AP	Anesthetic Pharmacology	PED	Pediatric Anesthesiology
BLD	Blood Management	PM	Pain Medicine
CA	Cardiovascular Anesthesiology	PME	Pain Mechanisms
CC	Critical Care	PS	Patient Safety
EEP	Economics, Education and Policy	RA	Regional Anesthesia
GA	Geriatric Anesthesia	RES	Respiration
GH	Global Health	SM	Sleep Medicine
L	Liver	TCSEM	Technology, Computing and Simulation, Equipment Monitoring
NR	Neuroscience in Anesthesiology and Perioperative Medicine	T	Trauma
O	Obesity		

AM = Airway Management

PBLD-02
RCL-03
PBLD-07
PBLD-08
Panel-09
PBLD-14
RCL-07
RCL-12
RCL-13
PBLD-19
Panel-21
RCL-16
Panel-32
Panel-33
RCL-24
RCL-25

AMB = Ambulatory Anesthesia

Panel-02
Panel-05
RCL-11
PBLD-16
Panel-25
PBLD-24
Panel-33
PBLD-29

AP = Anesthetic Pharmacology

T.H. Seldon Memorial Lecture
Symposium-01

AP, continued

PBLD-03
PBLD-06
PBLD-08
Panel-05
Scholar-05
RCL-05
Panel-09
ISS
Panel-15
PBLD-17
Panel-22
RCL-15
Panel-25
Panel-33
Panel-39
PBLD-28

BLD = Blood Management

Panel-01
PBLD-04
Panel-07
RCL-05
PBLD-10
RCL-05
PBLD-13
RCL-08
RCL-09
RCL-12
RCL-13
PBLD-17

BLD, continued

PBLD-18
Panel-25
PBLD-21
PBLD-24
Panel-34
PBLD-26
PBLD-28
PBLD-29

CA = Cardiovascular Anesthesiology

Symposium-01
Workshop-01
RCL-02
RCL-03
PBLD-07
Workshop-02
PBLD-10
Panel-09
RCL-06
PBLD-13
RCL-08
ISS
RCL-09
PBLD-15
RCL-10
Panel-15
PBLD-14
PBLD-18
RCL-15

CA, continued

Panel-25
RCL-16
PBLD-21
Panel-30
Panel-32
PBLD-24
PBLD-27
PBLD-28
RCL-27
PBLD-29

CC = Critical Care

PBLD-02
Panel-02
Symposium-01
Workshop-01
RCL-01
Panel-03
Panel-04
PBLD-06
RCL-02
RCL-03
PBLD-07
PBLD-08
Panel-07
Workshop-02
Symposium-02
PBLD-10
PBLD-11
Panel-09

Anesthesia Subspecialty Topics Index for Education Sessions, continued

CC, continued

RCL-06
PBLD-13
RCL-08
PBLD-14
RCL-10
Panel-18
Panel-19
RCL-13
Symposium-03
PBLD-18
Panel-21
RCL-15
Panel-25
PBLD-20
RCL-17
Symposium-04
PBLD-23
PBLD-29

EEP = Economics, Education and Policy

T.H. Seldon Memorial Lecture
Scholar-01
Scholar-02
Scholar-03
PBLD-03
Panel-04
Panel-05
PBLD-05
PBLD-06
Scholar-04
Scholar-05
Symposium-02
PBLD-10
Scholar-06
Panel-08
Scholar-07
Panel-11
Panel-12
PBLD-12
Kosaka
ISS
Panel-13
Panel-14
Panel-15
Panel-17
RCL-12
Panel-19

EEP, continued

Panel-20
Workshop-04
Symposium-03
RCL-14
Panel-23
Panel-24
Panel-26
PBLD-20
Panel-27
Panel-28
RCL-19
Panel-30
RCL-20
Panel-31
PBLD-23
RCL-21
Workshop-06
Panel-34
RCL-23
Panel-36
PBLD-27
Panel-37
RCL-26
Panel-39
Panel-40

GA = Geriatric Anesthesia

Workshop-01
Panel-03
Symposium-02
RCL-17
Workshop-05
Panel-30
Panel-35
Panel-38
RCL-28

GH = Global Health

Panel-01
Panel-12
PBLD-13
PBLD-14
Symposium-03
RCL-19

L = Liver

Workshop-01
PBLD-11

L, continued

Symposium-01
Panel-32

NR = Neuroscience in Anesthesiology and Perioperative Medicine

PBLD-01
Symposium-01
Workshop-01
PBLD-03
Panel-03
Panel-04
RCL-03
RCL-05
Symposium-02
Panel-10
RCL-10
PBLD-16
PBLD-17
Panel-29
Panel-30
Panel-32
Symposium-05
Panel-35
Panel-38
RCL-28

O = Obesity

Symposium-01
Workshop-01
RCL-11
Panel-33
PBLD-25
RCL-22
RCL-24

OB = Obstetric Anesthesiology

Panel-01
Symposium-01
Workshop-01
RCL-07
PBLD-19
Panel-33

PA = Perioperative Anesthesia

Panel-02
Symposium-01
Workshop-01

PA, continued

PBLD-03
Panel-03
RCL-02
RCL-03
Panel-06
Workshop-02
Scholar-05
RCL-04
Symposium-02
PBLD-10
PBLD-11
Panel-08
Panel-09
RCL-06
Panel-11
RCL-08
PBLD-12
PBLD-13
Workshop-03
Panel-14
RCL-09
Panel-15
PBLD-16
RCL-11
Panel-18
RCL-14
Panel-22
Panel-23
Panel-24
RCL-16
RCL-17
Workshop-05
Symposium-04
Panel-27
RCL-18
RCL-19
Panel-30
Panel-32
Panel-33
PBLD-25
RCL-22
Panel-35
PBLD-26
Panel-36
RCL-24
PBLD-27
Panel-38
RCL-27

Anesthesia Subspecialty Topics Index for Education Sessions, continued

PA, continued

PBLD-28
Panel-39
RCL-28

PED = Pediatric Anesthesiology

Symposium-01
Workshop-01
PBLD-06
Panel-05
Panel-06
RCL-04
Panel-16
PBLD-19
PBLD-20
RCL-16
PBLD-25
RCL-24
RCL-27

PM = Pain Medicine

PBLD-03
PBLD-04
Panel-06
Scholar-05
Panel-15
PBLD-15
Panel-22
Panel-25
PBLD-20
PBLD-21
RCL-24
Panel-39
RCL-28

PME = Pain Mechanisms

Symposium-01
PBLD-03
PBLD-04
Panel-06
Scholar-05
Panel-10
PBLD-15
Panel-22
PBLD-21
Symposium-05
RCL-28

PS = Patient Safety

T.H. Seldon Memorial Lecture
PBLD-01
Panel-01
Panel-02
Symposium-01
PBLD-03
PBLD-04
Panel-03
RCL-01
RCL-02
RCL-03
Panel-05
Panel-06
Scholar-05
RCL-04
RCL-05
Symposium-02
Panel-09
RCL-06
Panel-10
Panel-11
Panel-12
RCL-08
PBLD-12
RCL-09
PBLD-15
Panel-15
Panel-16
RCL-11
RCL-12
PBLD-16
Panel-19
Workshop-04
RCL-13
PBLD-17
Symposium-03
PBLD-18
RCL-14
Panel-21
Panel-22
Panel-25
Panel-26
PBLD-21
Symposium-04
RCL-18
Panel-30
RCL-21
Panel-32

PS, continued

Panel-33
Panel-34
Workshop-06
RCL-22
Symposium-05
PBLD-26
Panel-36
PBLD-29
Panel-39

RA = Regional Anesthesia

RCL-01
Panel-05
RCL-05
Workshop-03
PBLD-16

RES = Respiration

PBLD-02
Symposium-01
Workshop-01
PBLD-06
PBLD-08
Panel-09
RCL-07
PBLD-14
RCL-13
PBLD-19
RCL-15
Panel-32
Panel-33
RCL-24
RCL-25

SM = Sleep Medicine

Workshop-01
Scholar-05
PBLD-25
RCL-24
RCL-25

TCSEM = Technology, Computing and Simulation, Equipment Monitoring

T.H. Seldon Memorial Lecture
Panel-02
Workshop-01
RCL-01

TCSEM, continued

RCL-03
Workshop-02
Panel-10
PBLD-12
RCL-07
PBLD-13
Panel-14
Panel-17
Panel-18
Panel-19
Workshop-04
PBLD-18
RCL-14
Panel-24
Panel-26
PBLD-21
Panel-27
Panel-31
Panel-32
Panel-37

T = Trauma

PBLD-01
Symposium-01
Workshop-01
Panel-07
PBLD-14
RCL-13
RCL-15
Panel-29

Daily Schedule-at-a-Glance

6:00 am – 6:00 pm	Registration
5:00 pm – 6:00 pm	IARS First-Time Attendee Orientation and Networking Session
6:00 pm – 7:00 pm	IARS, AUA, SOCCA and eSAS Scholars' Program Mentoring and Networking Reception
7:30 pm – 9:00 pm	Dine-Around Session 1

5:00 pm – 6:00 pm

IARS First-Time Attendee Orientation and Networking Session

Come say hello! Learn how to make the most of your Annual Meeting experience. Get tips for selecting your sessions, when to visit exhibitors, and when and where to network most effectively.

This session is included in the general registration fee. Space is limited and pre-registration is required to attend. Check at the Registration Desk for availability.

6:00 pm – 7:00 pm

IARS, AUA, SOCCA and eSAS Scholars' Program Mentoring and Networking Reception

Based on rigorous evaluation of both mentors' expertise and trainees' needs, early-stage scholars and trainees will be matched with mentors who will provide first-hand advice and guidance during the event on a variety of topics important to the trainee. Take advantage of this unique occasion to network and socialize with fellow scholars and participate in mentoring opportunities.

This session is included in the registration fee for the Scholars' Program. Space is limited and pre-registration is required. Check at the Registration Desk for availability.



7:30 pm – 9:00 pm

Dine-Around Session 1

Make friends and gain mentors in the casual setting of a Dine-Around while discussing the top-of-mind anesthesia topics. Take advantage of this unique opportunity for a more meaningful networking experience.

Check at registration for Dine-Around seat availability. See page 29 for more details.

Daily Schedule-at-a-Glance

6:00 am – 6:00 pm	Registration	9:30 am – 5:45 pm	Concurrent Sessions
6:15 am – 7:15 am	Scholars' Program Breakfast with IARS, AUA and SOCCA Leadership and Mentors		<ul style="list-style-type: none"> • Moderated Poster Discussion Sessions • Panels • Problem-Based Learning Discussions • Review Course Lectures
6:30 am – 4:00 pm	Tabletop Exhibits	9:30 am – 6:10 pm	IARS, AUA, SOCCA and eSAS Scholars' Program Education Sessions and Lunch
7:30 am – 9:00 am	Opening General Session and T.H. Seldon Memorial Lecture Personalizing Healthcare in the Era of Big Data Jeffrey R. Balser, MD, PhD	2:00 pm – 5:00 pm	Workshop: Advanced Perioperative Ultrasound
9:30 am – 12:00 pm	AUA Symposium: <i>Mitochondria and Bioenergetics in Health and Disease: It's Not Just a Power Failure!</i>	3:30 pm – 6:00 pm	SAGA Symposium: Perioperative Care of the Frail or High-risk Older Patient: Current Knowledge and Future Directions
9:30 am – 12:30 pm	Workshop: Focused Cardiovascular Ultrasound (FoCUS): It's for Everyone!	6:00 pm – 7:30 pm	IARS, AUA and SOCCA Alignment Reception
		6:00 pm – 7:30 pm	Tabletop Exhibits

6:15 am – 7:15 am

Scholars' Program Breakfast with IARS, AUA and SOCCA Leadership and Mentors

Join the IARS, AUA and SOCCA Leadership and your mentors and peers for an informal networking breakfast. This is your opportunity to ask the leaders of IARS, AUA and SOCCA the questions you've been afraid to ask in an intimate environment and gain advice from mentors. Plus, get to know your peers and colleagues better.

This session is included in the registration fee for the Scholars' Program. Space is limited and pre-registration is required. Check at the Registration Desk for availability.

Please note: No CME is offered for this session.

Affiliate Society Meetings

Tuesday, May 1

Stay all day Tuesday, May 1 and take advantage of the Affiliate Society Meetings offered that afternoon.

1:00 pm - 4:00 pm:
Clinical Research Consortium: Collaborative Research Initiative for Perioperative Clinical and Translational Science Meeting

1:00 pm - 5:30 pm:
Society for the Advancement of Transplant Anesthesia (SATA) 2nd Symposium

For more information, see page 92-93.

Session Type Key

P=Panel
SCHOLAR=Scholars' Program *

PBLD=Problem-Based Learning Discussion*
SYM=Symposium

RCL=Review Course Lecture
W=Workshop*

Anesthesia Subspecialty Key for Education Sessions

AM Airway Management	EEP Economics, Education and Policy	O Obesity	PS Patient Safety
AMB Ambulatory Anesthesia	GA Geriatric Anesthesia	OB Obstetric Anesthesiology	RA Regional Anesthesia
AP Anesthetic Pharmacology	GH Global Health	PA Perioperative Anesthesia	RES Respiration
BS Bench Science	L Liver	PAP Pain and Addiction Pathways	SM Sleep Medicine
BLD Blood Management	MPC Metabolism and Perioperative Care	PED Pediatric Anesthesiology	TCSEM Technology, Computing and Simulation, Equipment Monitoring
CA Cardiovascular Anesthesiology	NR Neuroscience in Anesthesiology and Perioperative Medicine	PM Pain Medicine	T Trauma
CC Critical Care		PME Pain Mechanisms	

*These sessions require pre-registration to attend.
Check at the Registration Desk for availability.

7:30 am – 9:00 am

Opening General Session and T.H. Seldon Memorial Lecture: Personalizing Healthcare in the Era of Big Data

Presenter: Jeffrey R. Balser, MD, PhD, Dean, Vanderbilt University School of Medicine; President and CEO, Vanderbilt University Medical Center, Nashville, Tennessee

See page 30 for more details.

9:30 am – 9:40 am

Scholar-01: Introduction to the Scholars' Program and eSAS

- **Vivianne Tawfik, MD, PhD**, Assistant Professor, Department of Anesthesiology, Perioperative and Pain Medicine (Adult Pain), Assistant Director, Fellowship in Anesthesia Research & Medicine Program (FARM), Stanford University School of Medicine, Stanford, California; Co-President, eSAS
- **Elizabeth L. Whitlock, MD, MSc**, Clinical Instructor and T32 Fellow, Department of Anesthesia and Perioperative Care, University of California, San Francisco School of Medicine, San Francisco, California; Co-President, eSAS

Subspecialty Key: EEP

This session is included in the registration fee for the Scholars' Program. Space is limited and pre-registration is required. Please note: CME is not offered for this session.

9:30 am – 10:30 am



PBLD-01: Perioperative Management of Patient with Closed Head Injury for Non-neurological Procedures



Presenter: Letha Mathews, MD, Associate Professor of Clinical Anesthesiology, Interim Chief & Clinical Director, Neuroanesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review the pathophysiology of traumatic brain injury (TBI) and discuss the Brain Trauma Foundation's latest guidelines for management of TBI; (2) Evaluate the severity of intracranial hypertension and assess the appropriate timing of surgery and when to make recommendations to surgical teams; and (3) Estimate improvements for postoperative outcomes by analyzing the principles of perioperative management of patients with closed head injury scheduled to undergo non-neurological procedures.

Subspecialty Key: NR, PS, T

9:30 am – 10:30 am, continued



PBLD-02: To Intubate or Not: Management of Postoperative Acute Respiratory Failure

Presenter: Kunal Karamchandani, MD, FCCP, Assistant Professor, Anesthesiology and

Perioperative Medicine, College of Medicine, Penn State Milton S. Hershey Medical Center, Hershey, Pennsylvania

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the causes of postoperative acute hypoxemic respiratory failure; (2) Review the principles and differences between Continuous Positive Airway Pressure (CPAP) and Bi-level Positive Airway Pressure (BIPAP) ventilation; (3) Discuss the physiological effects of High-Flow Nasal Cannula (HFNC) in acute hypoxemic respiratory failure; and (4) Analyze the role of non-invasive mechanical ventilation in acute hypoxemic respiratory failure.

Subspecialty Key: AM, CC, RES

This session is part of the SOCCA Focus on Critical Care Day and is open to SOCCA attendees as part of their registration fee for their Society Annual Meeting.

Moderated Poster Discussion Sessions

Over **600** Posters will be presented and highlighted in these areas:

- Basic Science and Clinical Research
- Scholars' Abstracts
- Medically Challenging Cases

Moderators and abstract authors will review and discuss their abstracts with attendees, Saturday, April 28 – Monday, May 1, 2018.

Visit bit.ly/IARSeduc for more information!

9:30 am – 11:00 am

P-01: New Innovations in the Management of Postpartum Hemorrhage



Moderator: Asim Q. Alam, MD, Assistant Professor, Anesthesiology, University of Toronto Faculty of Medicine; Medical Director, Perioperative Autologous Transfusion Program, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada

Panelists:

■ **The Epidemiology of Postpartum Hemorrhage: Where Do We Go from Here?**

Stacie Geller, PhD, G. William Arends Professor of Obstetrics and Gynecology, Department of Obstetrics and Gynecology, Professor, Division of Academic Internal Medicine, University of Illinois College of Medicine; Director, University of Illinois at Chicago Center for Research on Women and Gender and the National Center of Excellence in Women's Health, Chicago, Illinois

■ **A Deconstruction of Massive Hemorrhage Protocols in Obstetrics**

Jeannie Callum, MD, FRCPC, CTBS, Associate Scientist, Biological Sciences, Trauma, Emergency & Critical Care Research Program, Sunnybrook Research Institute; Associate Professor, Department of Laboratory Medicine and Pathobiology, University of Toronto Faculty of Medicine; Director, Transfusion Medicine, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada

■ **Novel Therapeutic Approaches to Combat Obstetrical Hemorrhage: Looking Beyond 2018**

Michael J. Paidas, MD, Professor of Obstetrics, Gynecology, and Reproductive Sciences, Interim Director, Section of Maternal Fetal Medicine, Interim Section Chief, Maternal Fetal Medicine, Yale New Haven Hospital; Vice Chair, Obstetrics, Program Director, Maternal Fetal Medicine Fellowship, Director, Yale Women and Children's Center for Blood Disorders and Preeclampsia Advancement, Co-Director, National Hemophilia Foundation, Baxter Clinical Fellowship Program, Division of Maternal Fetal Medicine, Yale School of Medicine, New Haven, Connecticut

■ **Viscoelastic Testing for the Management of Postpartum Hemorrhage**

Michaela K. Farber, MD, MS, Fellowship Program Director, Obstetric Anesthesia, Department of Obstetrics and Gynecology, Brigham and Women's Hospital; Assistant Professor, Anaesthesia, Harvard Medical School, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the worldwide epidemiology of Postpartum Hemorrhage (PPH); (2) Identify the role of the obstetric anesthesiologist in the timely recognition and treatment of PPH; (3) Describe the utilization of rotational thromboelastometry (ROTEM) and other viscoelastic testing parameters in an obstetrical hemorrhage setting; (4) Describe the components of a massive transfusion protocol in obstetrics and rationale behind its utilization; and (5) Discuss novel agents that are being utilized and studied in the treatment and prevention of postpartum hemorrhage.

Subspecialty Key: BLD, GH, OB, PS

9:30 am – 11:00 am (continued)



P-02: Enhanced Recovery Protocol Elements: What Is the Level of Evidence?



Moderator: Tong Joo (TJ) Gan, MD, MHS, FRCA, MBA, Professor and Chairman, Department of Anesthesiology, Stony Brook School of Medicine, Stony Brook, New York; Founding President, ASER

Panelists:

■ **Perioperative Nutrition**

Paul E. Wischmeyer, MD, EDIC, Professor, Department of Anesthesiology, Division of Critical Care Medicine, Associate Vice Chair for Clinical Research, Co-Director, Academic Career Enrichment Scholars (ACES) Resident Research Program, Duke University School of Medicine; Director, Perioperative Research, Duke Clinical Research Institute (DCRI), Durham, North Carolina

■ **Prevention and Management of Postoperative Ileus**

Julie K. Marosky Thacker, MD, Medical Director, Clinical Research Unit, Associate Professor of Surgery, Division of Advanced Oncologic and Gastrointestinal Surgery, Duke University School of Medicine, Durham, North Carolina; President, ASER

■ **Perioperative Fluid Management**

Timothy E. Miller, MB ChB, FRCA, Chief, Division of General, Vascular, and Transplant Anesthesiology, Director, Perioperative Medicine Fellowship, Associate Professor of Anesthesiology, Duke University School of Medicine, Durham, North Carolina; President-Elect, ASER; Associate Editor, *Anesthesia & Analgesia*

■ **Patient-Reported Outcomes**

Elliott Bennett-Guerrero, MD, Professor, Department of Anesthesiology, Vice Chair for Clinical Research, Medical Director, Perioperative Quality and Patient Safety, Stony Brook School of Medicine, Stony Brook, New York

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the strategies to prevent and manage postoperative ileus within an Enhanced Recovery Pathway (ERP); (2) Define preoperative nutritional assessment and evaluate the role of immunonutrition and management of postoperative nutritional stress; (3) Discuss aspects of ERP that impact fluid management and make recommendations on preoperative oral hydration; strategy on perioperative fluid management; and (4) Evaluate which patient-reported outcomes should be measured within an ERP.

Subspecialty Key: AMB, CC, PA, PS, TCSEM



SYM-01: Mitochondria and Bioenergetics in Health and Disease: It's Not Just a Power Failure!

Moderator: Y.S. Prakash, MD, PhD, Professor of Anesthesiology and Physiology; Chair, Department of Physiology and Biomedical Engineering, Department of Anesthesiology and Perioperative Medicine, Mayo Clinic College of Medicine and Science, Rochester, Minnesota

Presenters:

■ **Mitochondria From Evolution to Disease: It's in the Genes**

Douglas C. Wallace, PhD, Director, Center for Mitochondrial and Epigenomic Medicine (CMEM), Michael and Charles Barnett Endowed Chair of Pediatric Mitochondrial Medicine and Metabolic Diseases, Children's Hospital of Philadelphia Research Institute; Professor, Department of Pathology and Laboratory Medicine, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

■ **Brain Bioenergetics: Watch that Oxygen Level**

Elizabeth A. Jonas, MD, Professor, Department of Internal Medicine, Division of Endocrinology, Yale School of Medicine, New Haven, Connecticut

■ **Taking a Closer Look at Mitochondria**

Douglas L. Rothman, PhD, Professor of Biomedical Engineering and Radiology and Biomedical Imaging, Director, Magnetic Resonance Research Center (MRRC), Yale School of Engineering and Applied Sciences, New Haven, Connecticut

■ **Anesthetic Preconditioning and Mitochondria**

Paul S. Brookes, PhD, Professor, Department of Anesthesiology & Perioperative Medicine, Research (SMD), Professor, Department of Pharmacology and Physiology (SMD), University of Rochester Medical Center, Rochester, New York

Learner Objectives: After participating in this activity, the learner will be able to: (1) Appraise the breadth and impact of mitochondrial functions in normal organ function; (2) Identify mitochondrial mechanisms and dysfunctional bioenergetics that contribute to diseases relevant to perioperative medicine; (3) Review ongoing multidisciplinary approaches to the study of mitochondria and bioenergetics in the context of disease; and (4) Analyze ongoing efforts to develop novel therapies that target mitochondria and energetics.

Subspecialty Key: AP, CA, CC, L, NR, O, OB, PA, PED, PME, PS, RES, T

This session is part of the Aligned Meeting Day and is open to AUA and SOCCA attendees as part of their Annual Meeting registration fee.

W-01: Focused Cardiovascular Ultrasound (FoCUS) – It's for Everyone!*

Focused cardiovascular ultrasound (FoCUS) can be defined as limited bedside transthoracic echocardiography that the perioperative physician can use to rule in or out broad categories of dysfunction for improving patient care. In this hands-on workshop and online tutorial, trainees will learn how to obtain and evaluate the five FoCUS views, as well as learn the equipment needed, general transthoracic ultrasound nomenclature and technique, indications, and limitations.

Workshop Leader: Candice K. Morrissey, MD, MSPH, Assistant Professor (Clinical), Anesthesiology, University of Utah Healthcare, Salt Lake City, Utah

Presenters:

■ **Orode Badakhsh, MD**, Assistant Professor, Anesthesiology, University of California, Davis Medical Center, Sacramento, California

■ **Nate Birgenheier, MD**, Assistant Professor, Anesthesiology, University of Utah Healthcare, Salt Lake City, Utah

■ **Bradley J. Coker, MD**, Assistant Professor, Anesthesiology, University of Alabama at Birmingham, Birmingham, Alabama

■ **Jason Harig, MD**, Assistant Professor (Clinical), Anesthesiology, University of Utah Healthcare, Salt Lake City, Utah

■ **Joshua M. Zimmerman, MD, FASE**, Associate Professor, (Clinical), Adjunct Assistant Professor, Surgery Director, Perioperative Echocardiography, Director, Preoperative Clinic, University of Utah Healthcare, Salt Lake City, Utah

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review the indications, limitations, and diagnostic targets of focused cardiovascular ultrasound (FoCUS); (2) Identify the equipment required and demonstrate important elements of patient positioning when performing focused cardiovascular ultrasound; and (3) Demonstrate probe positions, basic anatomic structures and how to rule in or out broad categories of cardiac dysfunction with the use of focused cardiovascular ultrasound.

Subspecialty Key: CA, CC, GA, L, NR, O, OB, PED, PA, RES, SM, TCSEM, T

9:40 am – 10:30 am

SCHOLAR-02: Moving from Insight to Scientific Premise to Research Program and What This is All About

Moderator: Katie J. Schenning, MD, MPH, Assistant Professor of Anesthesiology and Perioperative Medicine, School of Medicine, Oregon Health & Sciences University, Portland, Oregon; Co-Chair Membership, eSAS

Presenter: Max B. Kelz, MD, PhD, David E. Longnecker Associate Professor of Anesthesiology and Critical Care, Chair of Admissions, Department of Neuroscience MD PhD Program, MSTP Program Advisor, Director for Research Education, Department of Anesthesiology and Critical Care, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify how early experiences including adverse ones have the potential to positively impact and shape your career; (2) Plan to disprove your own hypotheses and don't be devastated if/when you do; and (3) Discuss how to seek out good mentors who are invested in helping and how they are invaluable.

Subspecialty Key: EEP

This session is included in the registration fee for the Scholars' Program. Space is limited and pre-registration is required. Check at the Registration Desk for availability.

10:45 am – 11:45 am

PBLD-03: Heroin PCA for Labor Pain: What Are You Smoking or How to Get Controversial Research through the IRB

Presenter: Michael H. Andreae, MD, Associate Professor, Department of Anesthesiology and Perioperative Medicine, Penn State Milton S. Hershey Medical Center, Hershey, Pennsylvania

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the basic tenants of research ethics with specific reference to the issues arising in clinical trials of controlled controversial substances, including autonomy, non-maleficence, and justice, especially in vulnerable populations who might benefit most; (2) Interpret ethical, social, and legal concerns and conflicts arising in the conduct of clinical trials on the benefit of illegal or tightly controlled drugs; (3) Analyze typical biases and objections, like concerns about the ability to give informed consent in people living with drugs; and (4) Debate the conflicting ethical principles and potential risk for research participants, investigators, institutions, and regulators arising in the conduct of clinical trials involving controlled controversial drugs.

Subspecialty Key: AP, EEP, NR, PA, PM, PME, PS

10:45 am – 11:45 am (continued)

PBLD-04: Anticoagulant Therapy Management for Interventional Chronic Pain Procedures



Presenter: Robert Bolash, MD, Assistant Professor, Interventional Pain Physician, Cleveland Clinic, Cleveland, Ohio

Learner Objectives: After participating in this activity, the learner will be able to: (1) Formulate a tailored risk stratification assessment for anticoagulated patients undergoing chronic pain interventions; (2) Identify the appropriate times to cessation of anticoagulants when performing peripheral and neuraxial pain procedures; (3) Assess when to guide patients on the appropriate time to resume anticoagulants following an interventional pain procedure; and (4) Formulate a plan for cessation and resumption of novel anticoagulants in the absence of formal consensus guidance.

Subspecialty Key: BLD, PM, PME, PS

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10:45 am – 12:15 pm

SCHOLAR-03: Shine Like a Rockstar: Different Paths to Success

Moderators:

Boris D. Heifets, MD, PhD, Clinical Assistant Professor, Department of Anesthesiology, Perioperative and Pain Medicine, Stanford University School of Medicine, Stanford, California

Manoj M. Lal, MD, PhD, FRCPC, Vice Chairman for Clinical Research and Faculty Development, Clinical Scholar, Department of Anesthesiology and Pain Medicine, The Ottawa Hospital; Associate Scientist, Clinical Epidemiology Program, Ottawa Hospital Research Institute, Ottawa, Ontario, Canada; Co-Chair Membership, eSAS

Panelists:

■ Academic Leadership Path

Peter Nagele, MD, MSc, Professor of Anesthesia & Critical Care, Chair, Department of Anesthesia & Critical Care, The University of Chicago Medicine, Chicago, Illinois

■ Organizational Leadership Path

Laureen Hill, MD, MBA, Senior Vice President and Chief Operating Officer, Columbia University Medical Center; New York-Presbyterian Hospital, New York, New York

■ Educational Leadership Path

Paloma Toledo, MD, MPH, Assistant Professor of Anesthesiology, Department of Anesthesiology, Northwestern University Feinberg School of Medicine, Chicago, Illinois; Associate Editor, *Anesthesia & Analgesia*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review pathways and lessons learned towards success in academic anesthesiology; (2) Discuss strategies for succeeding on the clinician investigator track; (3) Describe the current objectives and challenges for leaders in academic healthcare; (4) Identify the skills, experiences and attributes that make successful academic healthcare leaders; (5) Identify traditional and non-traditional resources available to anesthesiologists for achieving academic success; and (6) Explain the value of building a network of collaborators, both within, and outside of your institution.

Subspecialty Key: EEP

This session is included in the registration fee for the Scholars' Program. Space is limited and pre-registration is required. Check at the Registration Desk for availability.

11:15 am – 12:00 pm



RCL-01: The Tele-Vision: Taking Care of the Patient and Expanding the Scope of the Intensivist

Presenter: Liza M. Weavind, MBBCh, FCCM, MMHC, Professor of Anesthesiology and Surgery, Associate Division Chief of Anesthesiology Critical Care Medicine, Associate Chief of Staff, Director of Tele-ICU, Vanderbilt University Medical Center, Nashville, Tennessee

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify opportunities in Tele-ICU to improve patient care around the hospital; (2) Review Tele-ICU outcomes in remote locations; (3) Examine internal and external barriers to advancing the Tele-Critical Care agenda; and (4) Discuss how to expand the reach of the Intensivist beyond the boundaries of the ICU.

Subspecialty Key: CC, PS, RA, TCSEM

The image shows a tablet with a white screen displaying an advertisement for 'IARS On Demand'. The screen has a status bar at the top showing '4G LTE', '6:00 AM', and '100%' battery. The main text on the screen reads: 'IARS On Demand Back in 2018! IARS On Demand will maximize your Annual Meeting investment. The CME-accredited IARS On Demand program includes easy access to an online library with 80 hours of educational content from the meeting. Revisit sessions you attended and participate in those you missed any time, anywhere. Plus, earn additional CME credits. Sign-up for this program onsite at the IARS On Demand booth in Regency Foyer C, Ballroom Level, West Tower!'

11:15 am – 12:45 pm



P-03: The Microbiome and Brain Health: An Emerging Frontier of Perioperative Neuroscience

Moderator: Dhanesh Kumar Gupta, MD, Chief of Neuroanesthesiology and Non-Operating Room Anesthesiology, Professor of Anesthesiology, Duke University School of Medicine, Durham, North Carolina

Panelists:

- **Microbiome 101: Therapeutic Opportunities or Innocent but Influential Bystanders?**
Paul E. Wischmeyer, MD, EDIC, Chief of Neuroanesthesiology and Non-Operating Room Anesthesiology, Professor of Anesthesiology, Associate Vice Chair for Clinical Research, Co-Director, Academic Career Enrichment Scholars (ACES) Resident Research Program, Duke University School of Medicine; Director, Perioperative Research, Duke Clinical Research Institute (DCRI), Durham, North Carolina
- **Does the Microbiome Influence Cognitive Health in the Perioperative Period**
Zhiyi E. Zuo, MD, MS, PhD, Robert M. Epstein Professor of Anesthesiology, Professor of Neuroscience and Neurological Surgery, University of Virginia School of Medicine, Charlottesville, Virginia
- **The Microbiome Influences on Cerebrovascular Disease**
Tomoki Hashimoto, MD, Professor, Department of Anesthesia and Perioperative Care, University of California, San Francisco School of Medicine, San Francisco, California

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss how the microbiome can affect health and neurologic disease; (2) Examine the current knowledge regarding the impact of the microbiome on brain function; (3) Examine the emerging evidence linking the microbiome to cognitive health in the perioperative period; and (4) Examine the emerging evidence linking the microbiome to cerebrovascular disease and the outcomes in stroke and arteriovenous malformations.

Subspecialty Key: CC, GA, NR, PA

11:15 am – 12:45 pm (continued)

P-04: Research Statistics for the Non-Statisticians

Moderator: Edward J. Mascha, PhD, Associate Staff Biostatistician, Department of Quantitative Health Sciences and Department of Outcomes Research in the Anesthesiology Institute, Learner College of Medicine, Cleveland Clinic, Cleveland, Ohio; Statistical Editor, *Anesthesia & Analgesia*

Panelists:

- **Common Reasons for Violating the Statistical Review Checklist of *Anesthesia & Analgesia***
Edward J. Mascha, PhD
- **Review of the Research Guidelines: What Is It About the Statistics?**
Won Ho Kim, MD, PhD, Clinical Associate Professor, Department of Anesthesiology and Pain Medicine, Seoul National University Hospital, Seoul, South Korea
- **Common Pitfalls of Statistical Study Design and Analysis of Research Data**
Thomas R. Vetter, MD, MPH, Director of Perioperative Care, Professor, Surgery and Perioperative Care, Population Health, Dell Medical School at the University of Texas at Austin, Austin, Texas; Deputy Editor-in-Chief, *Anesthesia & Analgesia*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the statistical checklists for *Anesthesia & Analgesia*; (2) Discuss how to design a study from a statistical point of view and how to analyze a research data; (3) Review the common statistical pitfalls that the researchers often make; and (4) Review the research guidelines focusing the statistical analysis and papers published regarding the statistical analysis in major anesthesia journals.

Subspecialty Key: EEP

12:00 pm – 1:00 pm



PBLD-05: Why Study Time Doesn't Always Lead to Learning: How Do We Help the Struggling Trainee?

Presenters:

- **Ersne Eromo, MD, MBA**, Instructor in Anaesthesia, Associate Residency Program Director, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital; Clerkship Director for Harvard Medical Students, Department of Anesthesia, Harvard Medical School, Boston, Massachusetts
- **Daniel Saddawi-Konefka, MD, MBA**, Anesthesia Residency Program Director, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Assistant Professor, Anaesthesia, Harvard Medical School, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss various self-study methods available to trainees, including relative effectiveness of each technique; (2) Describe an approach to unpacking a trainee's study habits; and (3) Prepare a study plan for a hypothetical trainee that combines effective learning modalities.

Subspecialty Key: EEP

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PBLD-06: Taking Assent to New Heights: Do-Not-Resuscitate Status in Pediatric Palliative Care Procedures

Presenter: Heather A. Ballard, MD, Instructor of Anesthesiology, Department of Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine; Attending Physician, Anesthesiology, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, Illinois

Learner Objectives: After participating in this activity, the learner will be able to: (1) Assess the terminally ill adolescent's ability to assent/consent to advanced directives and anesthetic plans; (2) Discuss anesthetic goals when caring for a dying patient and the potential conflict with DNR status; (3) Assess the value of establishing a therapeutic patient relationship including an advanced directives discussion prior to administering an anesthetic for a palliative procedure; and (4) Assess when to involve other services (palliative care, primary caregivers, ethics board, risk management) when discussing end-of-life issues as part of a collaborative care model.

Subspecialty Key: AP, CC, EEP, PED, RES

12:15 pm – 1:00 pm



RCL-02: Perioperative Cardiac Risk Assessment and Management: The Internist's Perspective

Presenter: Steven L. Cohn, MD, FACP, SFHM,

Professor, Clinical Medicine, and Medical Director, UHealth Preoperative Assessment Center (UPAC), Medical Consultation Service, University of Miami Miller School of Medicine, Miami, Florida; Chief, Division of General Internal Medicine, Director of the Preoperative Medical Consultation Clinic and Medical Consultation Service, Kings County Hospital Center, Brooklyn, New York; Governing Board, SPAQI

Learner Objectives: After participating in this activity, the learner will be able to: (1) Explain the ACC/AHA algorithm for perioperative cardiac risk assessment; (2) Identify various tools and calculators to assess risk of postoperative cardiac complications; (3) Judge appropriate evidence-based decisions as to when further cardiac tests are indicated; and (4) Assess the evidence or lack thereof for risk reduction strategies including revascularization and medical therapy.

Subspecialty Key: CA, CC, PA, PS

12:30 pm – 2:00 pm

SCHOLAR-04: Lunch Session: Resilience Personified: Transitioning from Trainee to Junior Faculty and Beyond

Moderator: Elizabeth L. Whitlock, MD, MSc, Clinical Instructor and T32 Fellow, Department of Anesthesia and Perioperative Care, University of California, San Francisco School of Medicine, San Francisco, California; Co-President, eSAS

Panelists:

■ Junior Investigator Perspective

Julie K. Freed, MD, PhD, Assistant Professor, Department of Anesthesiology, Medical College of Wisconsin, Milwaukee, Wisconsin; Co-Chair Events, eSAS

■ Senior Investigator Perspective

Ken Solt, MD, Associate Professor, Anaesthesia, Harvard Medical School; Associate Anesthetist, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the challenges physician scientists encounter when transitioning from trainee to junior faculty; (2) Apply strategies to manage difficult situations during the transition to junior faculty; (3) Describe the importance of mentoring in the development of physician-scientists; and (4) Describe the unique challenges faced by academic anesthesiologists who are transitioning to independence.

Subspecialty Key: EEP

This session is included in the registration fee for the Scholars' Program. Space is limited and pre-registration is required. Check at the Registration Desk for availability.

2:00 pm – 2:45 pm

RCL-03: What's New with the Management of Vasodilatory Shock in the ICU?



Presenter: Ashish K. Khanna, MD, FCCP, FCCM, Staff Anesthesiologist and Intensivist, Assistant Professor of Anesthesiology CCLCM, Vice-Chief for Research, Center for Critical Care, Anesthesiology Institute, Cleveland Clinic Foundation, Cleveland, Ohio

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify evidence of the duration and extent of hypotension during the intraoperative, postoperative and acute critical illness periods in the ICU that affects outcomes; (2) Describe how low blood pressure will influence the brain, heart and kidney hypoperfusion syndromes; (3) Formulate a plan for prioritizing different vasopressors and their usage in vasodilatory shock states in the ICU; and (4) Identify the mechanism of action, physiology and clinical perspectives with the newer vasopressors in refractory vasodilatory shock.

Subspecialty Key: AM, CA, CC, NR, PA, PS, TCSEM

2:00 pm – 3:00 pm (continued)

PBLD-08: Defining Acute Epiglottitis and Anesthetic Management in the Post-Haemophilus Influenzae Type B (Hib) Vaccination Era

Presenter: Claude Abdallah, MD, MSc, Associate Professor of Anesthesiology and Pediatrics, Division of Anesthesiology, Pain and Perioperative Medicine, Children's National Health System, Washington, DC

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review the demographics and presentation of acute epiglottitis in the Post-Haemophilus influenzae type B (Hib) vaccination era; (2) Analyze the interventions and outcomes of acute epiglottitis; (3) Describe differentiating symptoms and signs of epiglottitis and other airway emergencies; and (4) Discuss the different steps of anesthesia management in a patient with diagnosis of epiglottitis.

Subspecialty Key: AM, AP, CC, RES

2:00 pm – 3:00 pm



PBLD-07: The Sweet Escape: A Complicated Case of DKA

Presenter: George W. Williams, II, MD, FCCP, Division Chief, Division of Critical Care Medicine, Fellowship Program Director, Division of Critical Care Medicine, Assistant Program Director, Anesthesiology Residency, McGovern School of Medicine at the University of Texas Health Science Center, Houston, Texas; Chief Resident for Education, University Hospitals Case Medical Center, Case Western Reserve School of Medicine, Cleveland, Ohio

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review pathogenesis and management of DKA; (2) Describe acid-base disorders and their diagnosis; and (3) Review appropriate management for circulatory shock.

Subspecialty Key: AM, CA, CC

This session is part of the SOCCA Focus on Critical Care Day and is open to SOCCA attendees as part of their registration fee for their Society Annual Meeting.

Trivia Game

Play the IARS, AUA and SOCCA 2018 Annual Meeting Trivia Game each day for a chance to win prizes. Each game consists of 12 multiple-choice trivia questions, each with three options. Questions get harder as the game progresses and you only have 10 seconds to select your answer. Participants with the most correct answers in a game will be entered in a raffle for a chance to win prizes and bragging rights. Check the leaderboard in Crystal Foyer to compare your progress against other attendees. Trivia Game winners will be notified via email after the meeting.

2:00 pm – 3:30 pm

P-05: Regional Anesthesia: An Evidence-Based Look at Current Controversies and Unknowns

Moderator: Joseph M. Neal, MD, Anesthesiology Faculty, Department of Anesthesiology, Virginia Mason Medical Center, Seattle, Washington

Panelists:

■ **Should Blocks Be Performed in Anesthetized Patients?**

Joseph M. Neal, MD

Santhanam Suresh, MD, Arthur C. King Professor and Chair of Pediatric Anesthesiology, Ann & Robert H. Lurie Children's Hospital of Chicago; Professor of Anesthesiology and Pediatrics, Northwestern University Feinberg School of Medicine, Chicago, Illinois; Trustee and Journal Liaison, IARS

■ **Single Injection Versus Continuous Blocks for Total Knee Arthroplasty**

Sandra L. Kopp, MD, Vice Chair, Practice Convergence and Integration, Department of Anesthesiology and Perioperative Medicine, Chair, Division of Community Anesthesiology, Department of Anesthesiology and Perioperative Medicine, Professor of Anesthesiology, Mayo Clinic College of Medicine and Science, Rochester, Minnesota

Edward R. Mariano, MD, MAS, Professor, Department of Anesthesiology, Perioperative and Pain Medicine, Stanford University School of Medicine; Stanford, California; Chief, Anesthesiology and Perioperative Care Service, and Associate Chief of Staff, Inpatient Surgical Services, Veterans Affairs Palo Alto Healthcare System, Palo Alto, California

■ **Evolving Trends in Local Anesthetic Systemic Toxicity**

Sandra L. Kopp, MD

Joseph M. Neal, MD

Santhanam Suresh, MD

■ **Bold Predictions: The Role of New Blocks and Drugs**

Sandra L. Kopp, MD

Edward R. Mariano, MD, MAS

Santhanam Suresh, MD

Learner Objectives: After participating in this activity, the learner will be able to: (1) Appraise the nuances of performing blocks in anesthetized adults versus children; (2) Assess evidence supporting the choice of either a single injection or continuous technique for total knee arthroplasty analgesia; (3) Identify evolving trends in local anesthetic systemic toxicity; (4) Evaluate the future of new blocks and new drugs; and (5) Demonstrate awareness of unusual complications associated with regional anesthesia.

Subspecialty Key: AMB, AP, PED, PS, RA

2:00 pm – 3:30 pm (continued)



P-06: Preoperative Management and Optimization Strategies



Moderator: Monty Mythen, MBBS, MD, FRCA, FFICM, Professor of Anaesthesia and Critical Care, University College London; Director, The University College London Discovery Lab, The London 2012 Olympic Legacy Institute of Sport Exercise and Health, London, England

Panelists:

■ **Redesigning the Pathway to Surgery**

Timothy E. Miller, MB, ChB, FRCA, Chief, Division of General, Vascular, and Transplant Anesthesiology, Director, Perioperative Medicine Fellowship, Associate Professor of Anesthesiology, Duke University School of Medicine, Durham, North Carolina; President-Elect, ASER; Associate Editor, *Anesthesia & Analgesia*

■ **Fit-4-Surgery**

Michael P. Grocott, MD, Professor, Anesthesia and Critical Care Medicine, University of Southampton, Head of Critical Care Research, University Hospital Southampton / University of Southampton NIHR Biomedical Research Centre, Southampton, Hampshire, England

■ **Perioperative Pain Care: Care Pathways to Manage High Resource Utilizers**

Padma Gulur, MD, Professor of Anesthesiology, Vice Chair, Operations and Performance, Medical Director, Acute Pain and Pain Consult Service, Duke University School of Medicine, Durham, North Carolina

■ **Collaborative Design-Making**

Angela M. Bader, MD, MPH, Professor, Anaesthesia, Harvard Medical School; Director, Weiner Center for Preoperative Evaluation, and Vice Chairman for Perioperative Medicine, Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss how preoperative optimization has the potential to improve outcomes; (2) Describe the potential advantage and practical limitations of planning perioperative care based on estimated risk; and (3) Identify the advantages of care pathways to manage patients with chronic pain undergoing major surgery.

Subspecialty Key: PA, PM, PME, PS

2:00 pm – 3:30 pm (continued)



P-07: Detection of Sepsis: Beyond Culture



Moderator: Jeanine P. Wiener-Kronish, MD, Chief of Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital; Professor of Anaesthesia, Harvard Medical School, Boston, Massachusetts; President, AUA

Panelists:

■ **Whole Blood and Single Cell Transcriptomes to Diagnose Sepsis**

Abraham Sonny, MD, Faculty, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital; Harvard Medical School, Boston, Massachusetts

■ **Gene Transcription to Diagnose Sepsis: Leveraging Heterogeneity across Multiple Datasets for Robust Gene Signatures**

Purvesh Khatri, PhD, Assistant Professor, Institute for Immunity, Transplantation and Infection, Division of Biomedical Research, Department of Medicine, Stanford University School of Medicine, Stanford, California

■ **Exosomes: What They Are and Why They May Help Us Identify Specific Groups of Pathologies**

Aranya Bagchi, MD, Assistant Professor, Anaesthesia, Harvard Medical School, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the studies of whole blood transcriptomes in infected patients and why they are important; (2) Discuss why biological and technical heterogeneity across data sets is beneficial; and (3) Explain how to leverage this heterogeneity to identify robust gene signatures.

Subspecialty Key: BLD, CC, T

2:00 pm – 5:00 pm

W-02: Advanced Perioperative Ultrasound

This advanced workshop will build on basic techniques to expand learners' knowledge and skill set. The presenters will focus on assessment of left and right ventricular function, valvular pathology, and volume responsiveness. Course instruction via small-group format will include a combination of reviewing short lectures, scanning live models, and utilizing simulator mannequins. Workshop participants should have an understanding of basic perioperative ultrasound prior to taking this advanced workshop.

Workshop Leader: Julia B. Sobol, MD, Assistant Professor of Anesthesiology, Program Director, International Anesthesiology Fellowship, Anesthesiology PGY1 Program Director, Columbia University Medical Center; New York-Presbyterian Hospital, New York, New York

Presenters:

■ **David Kiamanesh, MD**, Assistant Professor, Department of Anesthesiology, Stony Brook University School of Medicine, Section Chief, Critical Care, Stony Brook University Hospital, Stony Brook, New York

■ **James A. Osorio, MD**, Assistant Professor, Clinical Anesthesiology, Weill Cornell Medical Center, Cornell University; Assistant Attending Anesthesiologist, New York-Presbyterian Hospital, New York, New York

■ **Oliver Panzer, MD**, Assistant Professor, Anesthesiology, Columbia University Medical Center; New York-Presbyterian Hospital, New York, New York

■ **Mark A. Weller, MD**, Assistant Professor of Anesthesiology, Columbia University Medical Center; Director of Anesthesia, Allen Hospital for Spine Surgery, New York-Presbyterian Hospital, New York, New York

■ **Paul D. Weyker, MD**, Associate Physician, Anesthesiology and Pain Medicine, Kaiser Permanente Medical Group of Northern California; University of California, San Francisco Pain Management Center; University of California, San Francisco Medical Center at Mount Zion; University of California, San Francisco Medical Center at Parnassus; San Francisco, California

Learner Objectives: After participating in this activity, the learner will be able to: (1) Assess left ventricular function, including regional wall motion abnormalities, diastolic dysfunction, and measures of cardiac output; (2) Assess the right ventricle for systolic dysfunction; (3) Evaluate the heart for valvular pathology; and (4) Examine parameters of volume responsiveness.

Subspecialty Key: CA, CC, PA, TCSEM

2:15 pm – 3:45 pm

SCHOLAR-05: Moving Fluidly across the Translational Spectrum: Current Opioid Crisis

Moderators:

- **Catherine L. Chen, MD, MPH**, Assistant Professor, Department of Anesthesia and Perioperative Care, Philip R. Lee Institute for Health Policy Studies, University of California, San Francisco School of Medicine, San Francisco, California; Western Regional Representative, eSAS
- **Michael R. Mathis, MD**, Assistant Professor, Anesthesiology, University of Michigan Medicine, Ann Arbor, Michigan; Co-Chair Events, eSAS

Panelists:

- **The Role of Acute Care Prescribing in the Opioid Epidemic**
Jennifer F. Waljee, MD, MPH, MS, Associate Professor, Section of Plastic and Reconstructive Surgery, Member, Early Career Faculty Advisory Council (ECFAC), Institute for Healthcare Policy & Innovation, University of Michigan Medicine, Ann Arbor, Michigan
- **Caffeine Alleviates the Increase in Postoperative Pain Sensitivity Induced by Previous Sleep Loss in Rats: An Alternative to Opioids for Pain Relief?**
Giancarlo Vanini, MD, Research Assistant Professor of Anesthesiology, Department of Anesthesiology, University of Michigan Medicine, Ann Arbor, Michigan
- **Tapping into Patient Resilience: The Use of Innovative Self-Management Strategies to Reduce Anxiety and Pain in the Perioperative Setting**
Afton Hassett, PsyD, Associate Research Scientist and Clinical Psychologist, Anesthesiology, University of Michigan Medicine, Ann Arbor, Michigan

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the clinical impact of sleep loss on pain and comorbid conditions; (2) Review potential central mechanisms by which insufficient sleep worsens pain; (3) Identify potential non-opioids therapeutic interventions to alleviate pain in patients with insufficient sleep; (4) Describe the impact of anxiety and pain catastrophizing on surgical outcomes; (5) Discuss the role of positive affect and resilient thoughts in reducing anxiety and pain; and (6) Identify self-management strategies that foster resilience and can improve perioperative outcomes.

Subspecialty Key: AP, EEP, PA, PM, PME, PS, SM

This session is included in the registration fee for the Scholars' Program. Space is limited and pre-registration is required. Check at the Registration Desk for availability.

2:30 pm – 3:30 pm



PBLD-09: Why Study Time Doesn't Always Lead to Learning: How Do We Help the Struggling Trainee?

Presenters:

Ersne Eromo, MD, MBA, Instructor in Anaesthesia, Clerkship Director for Harvard Medical Students, Harvard Medical School, Simulation Fellow, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital Learning Lab, Massachusetts General Hospital, Boston, Massachusetts

Daniel Saddawi-Konefka, MD, MBA, Anesthesia Residency Program Director, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Assistant Professor, Anaesthesia, Harvard Medical School, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss various self-study methods available to trainees, including relative effectiveness of each technique; (2) Describe an approach to unpacking a trainee's study habits; and (3) Prepare a study plan for a hypothetical trainee that combines effective learning modalities.

Subspecialty Key: EEP

This session is part of the Aligned Meeting Day and is open to AUA and SOCCA attendees as part of their registration fee for their Annual Meetings. This session is offered twice.

2:55 pm – 3:40 pm

RCL-04: Anesthesia for Children with Inborn Errors of Metabolism: Opening Up the Black Box



Presenter: Johnny J. Kenth, BSc, MSc, MBBS, FRCA, Manchester Foundation Trust, Department of Anesthesia, Royal Manchester Children's Hospital, Manchester, England

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe a broad conceptual overview of the different types of inborn errors of metabolism (IEM); (2) Identify the pathophysiological nuances involved contextualized to the dysregulation of the normal metabolic pathways; (3) Assess the perioperative considerations for children with IEMs; and (4) Identify the anaesthetic complications in patients with IEM including catastrophic metabolic decompensation.

Subspecialty Key: PA, PED, PS

3:30 pm – 6:00 pm

SAGA

SYM-02: Perioperative Care of the Frail or High-Risk Older Patient: Current Knowledge and Future Directions



Moderator: Daniel I. McIsaac, MD, MPH, FRCPC, Assistant Professor, Junior Research Chair in Perioperative Health Systems and Outcomes Research, Department of Anesthesiology and Pain Medicine, University of Ottawa; Associate Scientist, Ottawa Hospital Research Institute, Staff Anesthesiologist, The Ottawa Hospital, Ottawa, Ontario, Canada; Adjunct Scientist, Institute for Clinical Evaluative Sciences (ICES)

Presenters:

■ Epidemiology and Preoperative Assessment of Frailty

Daniel I. McIsaac, MD, MPH, FRCPC

■ Biomarkers, Physiologic Changes, and Translational Research Findings in Perioperative Aging and Frailty

Manoj M. Lalu, MD, PhD, FRCPC, Vice Chairman for Clinical Research and Faculty Development, Clinical Scholar, Department of Anesthesiology and Pain Medicine, The Ottawa Hospital; Associate Scientist, Clinical Epidemiology Program, Ottawa Hospital Research Institute, Ottawa, Ontario, Canada; Co-Chair Membership, eSAS

■ Postoperative Acute Care of Frail and High Risk Older Patients

Hannah M. Wunsch, MD, MSc, Associate Professor of Anesthesia and Critical Care Medicine, University of Toronto Faculty of Medicine, Toronto, Ontario; Staff Physician, Department of Critical Care Medicine, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada

■ Rational and Evidence-Based Postoperative Pain Management in High Risk Older Patients

Faraj Abdallah, MD, MSc, Associate Professor, Anesthesia, University of Toronto Faculty of Medicine, Toronto, Ontario, Canada; Assistant Editor, *Anesthesia & Analgesia*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify frailty as a key risk factor for adverse postoperative outcomes, including an understanding of underlying causal mechanisms; (2) Identify, choose, and assess frailty instruments appropriate for different clinical settings; (3) Identify existing evidence-based interventions that may improve the care and outcomes of frail and older patients in the perioperative setting; and (4) Identify how emerging scientific discoveries may translate into enhanced care of our older surgical population.

Subspecialty Key: CC, EEP, GA, NR, PA, PS

4:00 pm – 4:45 pm

RCL-05: Neurologic Complications Associated with Neuraxial Regional Anesthesia



Presenter: Joseph M. Neal, MD, Anesthesiology Faculty, Department of Anesthesiology, Virginia Mason Medical Center, Seattle, Washington

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify factors that may predispose patients to neuraxial injury associated with a regional anesthetic; (2) Differentiate those conditions that demand immediate diagnosis and select the proper diagnostic modality; (3) Evaluate the controversial role of corticosteroids and cerebrospinal fluid (CSF) drainage as therapeutic intervention; and (4) Assess critically the emerging concerns over the possible contribution of spinal stenosis, blood pressure control, and pre-existing disease to these injuries.

Subspecialty Key: AP, BLD, NR, RA, PS

4:00 pm – 5:00 pm



AUA

Association of University Anesthesiologists

PBLD-10: Getting to the Heart of the Matter: Perioperative Focused Cardiac and Pulmonary Ultrasound, and the Hemodynamically Unstable Patient

Presenters:

■ **Alexander S. Kuo, MD,** Instructor in Anaesthesia, Harvard Medical School, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

■ **Abraham Sonny, MD, MBBS,** Faculty, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Harvard Medical School, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss and apply the evidence for anesthesiologist-performed focus cardiac and pulmonary ultrasound in the preoperative setting; (2) Appraise and apply the information available from focus cardiac and pulmonary ultrasound in the intraoperative and post-operative care of a hemodynamically unstable patient; (3) Evaluate critically current evidence for using focus cardiac and pulmonary ultrasound in hemodynamic assessment during the perioperative period, and its limitations; and (4) Review the differential diagnosis and management of undifferentiated hypotension and shock in the perioperative setting.

Subspecialty Key: BLD, CA, CC, EEP, PA

This session is part of the Aligned Meeting Day and is open to AUA and SOCCA attendees as part of their registration fee for their Society Annual Meetings. This session is offered a second time on Sunday, April 29.

4:00 pm – 5:00 pm (continued)



PBLD-11: Perioperative Renal Replacement Therapy for the Anesthesiologist: Does It Make a Difference?

Presenter: **Dragos M. Galusca, MD, FCCP**, Division Head, Critical Care Anesthesia, Anesthesiology, Pain Management and Perioperative Medicine, Henry Ford Health System, Detroit, Michigan

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the risk factors and etiology of renal injury for patients undergoing major (hepatic) surgery; (2) Discuss timing and indications for intraoperative renal replacement therapy in high-risk patient populations; (3) Review the different techniques of perioperative renal replacement therapies and their indications; and (4) Review evidence-based renal protective modalities in the perioperative period and their limitations.

Subspecialty Key: CC, L, PA

SCHOLAR-06: Priorities for Developing Researchers: Perspectives from the NIH and IARS

Moderator: **Robert E. Freundlich MD, MS**, Assistant Professor of Anesthesiology and Biomedical Informatics, Vanderbilt University Medical Center, Nashville, Tennessee

Panelists:

■ **NIH Perspective**

Alison Cole, PhD, Branch Chief, Pharmacological and Physiological Sciences Branch, Division of Pharmacology, Physiology, and Biological Chemistry, National Institute of General Medical Sciences, Bethesda, Maryland

■ **IARS Perspective**

Emery N. Brown, MD, PhD, Warren M. Zapol Professor of Anaesthesia, Harvard Medical School, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital; Edward Hood Taplin Professor of Medical Engineering, Institute for Medical Engineering and Science; Professor of Computational Neuroscience, Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology, Boston, Massachusetts; Treasurer, IARS

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss current NIH priorities for funding as well as opportunities for funding for early-stage investigators; (2) Assemble strategies for identifying important new research questions as a young faculty member; and (3) Discuss strategies for identifying funding opportunities for important new research questions.

Subspecialty Key: EEP

This session is included in the registration fee for the Scholars' Program. Space is limited and pre-registration is required. Check at the Registration Desk for availability.

4:00 pm – 5:30 pm

P-08: Investigating, Conceptualizing and Addressing Healthcare Disparity in Anesthesiology and Perioperative Medicine

Moderator: **Michael H. Andreae, MD**, Associate Professor, Department of Anesthesiology and Perioperative Medicine, Penn State Milton S. Hershey Medical Center, Hershey, Pennsylvania

Panelists:

■ **Who Is Responsible for Healthcare Disparities in Anesthesia?**

Michael H. Andreae, MD

■ **Enhancing Academic Diversity to Address and Overcome Healthcare Disparity**

J. Renee Navarro, PharmD, MD, Vice Chancellor, Diversity and Outreach, Professor of Anesthesia and Perioperative Care, University of California, San Francisco School of Medicine, San Francisco, California

■ **Conceptualizing and Investigating Race in Healthcare Disparities**

Jay S. Kaufman, PhD, Professor, Department of Epidemiology, Biostatistics, and Occupational Health, McGill University, Montreal, Quebec, Canada

■ **Enforcing Fair Employment Practices in the Academic Setting**

Amos Jones, JD, Interim President and Chief Executive Officer, Hepatitis Foundation International, Washington, DC

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify and explain systemic and individual bias as mechanisms which can drive healthcare disparity in anesthesia and perioperative medicine; (2) Analyze and criticize discourse claiming a biological or genetic basis as an excuse to justifying healthcare disparity; (3) Compose research questions to demonstrate persistent cognitive and subconscious bias as mechanistic target to reduce underlying healthcare disparity; and (4) Appraise barriers to improved workforce diversity and identify the legal framework, including the Civil Rights Act, to enforce fair hiring and promotion practices.

Subspecialty Key: EEP, PA

4:00 pm – 5:30 pm (continued)

PBLD-09: Management of Patients with Pulmonary Hypertension

Moderator: Ronald Pearl, MD, PhD, Dr. Richard K. and Erika N. Richards Professor, Anesthesiology, Perioperative and Pain Medicine, Chair, Anesthesia Department, Member, Cardiovascular Institute, Stanford University School of Medicine, Stanford, California

Panelists:

■ **Intraoperative and Postoperative Management**
Ronald Pearl, MD, PhD

■ **Treatment of Right Ventricular Failure**
André Denault, MD, PhD, FRCPC, ABIM-CCM, FASE, FCCS, Professor of Anesthesiology, Critical Care Medicine and Pharmacology. Department of Anesthesiology, Université de Montréal; Montreal Heart Institute and Centre Hospitalier de l'Université de Montréal, Montreal, Quebec, Canada

■ **Mechanisms and Treatment of Chronic Pulmonary Hypertension**
Neil Goldenberg, MD, PhD, FRCPC, Clinical Fellow, Department of Anesthesia, The Hospital for Sick Children, University of Toronto Faculty of Medicine, Toronto, Ontario, Canada

■ **Preoperative Assessment of Pulmonary Hypertension**
Harish Ramakrishna, MD, Professor of Anesthesiology and Perioperative Medicine, Vice Chair of Research, Mayo Clinic College of Medicine and Science, Scottsdale, Arizona

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the treatment options for patients with chronic pulmonary hypertension; (2) Analyze the risks and benefits of surgery in patients with pulmonary hypertension; (3) Formulate an anesthetic plan for patients with pulmonary hypertension; and (4) Assess how best to treat the perioperative complications that may occur in patients with pulmonary hypertension.

Subspecialty Key: AP, AM, CA, CC, PA, PS, RES

5:00 pm – 5:45 pm



RCL-06: Heart Failure with Preserved Ejection Fraction (HFpEF) as a Perioperative Risk Factor



Presenter: Aalok K. Kacha, MD, PhD, Assistant Professor, Department of Anesthesia and Critical Care, The University of Chicago Medicine, Chicago, Illinois

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify severe heart failure as a risk factor for overall mortality; (2) Describe the perioperative risks of heart failure with reduced ejection fraction vs. heart failure with preserved ejection fraction; (3) Interpret preoperative testing of cardiac function for patients with heart failure with preserved ejection fraction; and (4) Propose strategies for management of decompensated patients with heart failure with preserved ejection fraction.

Subspecialty Key: CA, CC, PA, PS

This session is part of the SOCCA Focus on Critical Care Day and is open to SOCCA attendees as part of their registration fee for their Society Annual Meeting.

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5:10 pm – 6:10 pm

SCHOLAR-07: From the Editor's Desk: A No-Nonsense Guide to Successful Publications

Moderator: Jamie R. Privratsky, MD, PhD, Assistant Professor of Anesthesiology, Duke University Medical Center, Durham, North Carolina

Panelists:

■ **From the Editor's Desk to Publication**

Hilary P. Grocott, MD, FRCPC, Adjunct Professor, Duke University School of Medicine, Professor, Department of Anesthesia and Perioperative Medicine, Professor, Department of Surgery, Director, Cardiac Anesthesia Fellowship Program, University of Manitoba Faculty of Medicine, Winnipeg, Manitoba, Canada; Editor-in-Chief, *Canadian Journal of Anesthesia*

■ **How to Successfully Publish in Anesthesia & Analgesia**

Kate Leslie, MD, Head of Research, Department of Anaesthesia and Pain Management, Royal Melbourne Hospital, University of Melbourne, Melbourne, Australia; Senior Editor, *Anesthesia & Analgesia*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss how to design a study that will be published; (2) Review how to write a paper that maximizes the impact of your research; and (3) Discuss how to deal with the editorial and review process.

Subspecialty Key: EEP

This session is included in the registration fee for the Scholars' Program. Space is limited and pre-registration is required. Check at the Registration Desk for availability.

Moderated Poster Discussion Sessions

Over **600** Abstract Posters will be presented and highlighted in these areas:

- Basic Science and Clinical Research
- Scholars' Abstracts
- Medically Challenging Cases

Moderators and abstract authors will review and discuss their abstracts with attendees, Saturday, April 28 – Monday, May 1, 2018.

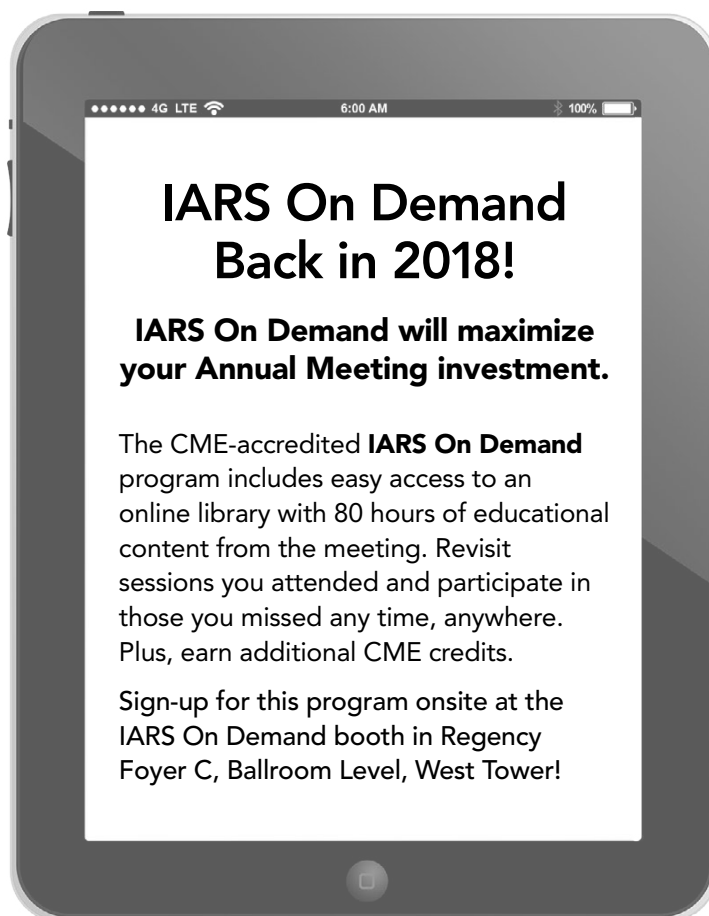
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6:00 pm – 7:30 pm

IARS, AUA and SOCCA Alignment Reception

Take advantage of this networking opportunity to connect, collaborate, and join your colleagues while visiting the Tabletop Exhibits at the Alignment Reception.

This event is part of the Aligned Meeting Day and available to AUA and SOCCA attendees complimentary as part of the registration fee for their Society Annual Meetings.



Daily Schedule-at-a-Glance

6:00 am – 6:00 pm	Registration	9:30 am – 12:30 pm	Workshop: <i>Truncal Blocks Workshop: An Enhanced Recovery after Surgery (ERAS) Approach</i>
6:30 am – 4:00 pm	Tabletop Exhibits	2:00 pm – 5:00 pm	Workshop: <i>Teaching Anesthesia Teams to Perform after Action Reviews: Lessons Learned from Aviation and Healthcare</i>
7:30 am – 5:45 pm	Concurrent Sessions <ul style="list-style-type: none"> • Moderated Poster Discussion Sessions • Panels • Problem-Based Learning Discussions • Review Course Lectures 	3:30 pm – 6:00 pm	CAS Symposium: <i>Social Accountability: How Can Anesthesiology Face the Challenge? No Anesthesia? Whose Problem is It?</i>
9:30 am – 11:00 am	Kosaka Best of Meeting Abstract Awards Session	6:30 pm – 8:00 pm	Dine-Around Session 2
9:30 am – 12:00 pm	International Science Symposium: <i>Designing Drugs: Transforming Anesthesiology Practice</i>		

7:30 am – 9:00 am

P-10: Understanding and Making Use of the Electroencephalogram During General Anesthesia

Moderator: **Gerhard Schneider, MD**, Faculty of Medicine, Anesthesiology, Technical University Munich School of Medicine; Klinikum Rechts der Isar, Munich, Germany

Panelists:

■ Making Use of EEG-derived Information to Safely Navigate a Patient through General Anesthesia

Paul S. Garcia, MD, PhD, Assistant Professor, Department of Anesthesiology, Emory University School of Medicine, Atlanta, Georgia

■ (Paradoxical) EEG Changes after Noxious

Jamie S. Sleight, MBChB, MD, Professor, Anaesthesia, Waikato Hospital, Hamilton, Waikato, New Zealand

■ From Molecular Actions of Anesthetics to Changes in the EEG

Stephan A. Kratzer, MD, Anesthesiologist, Department of Anesthesiology, Technical University Munich School of Medicine, Klinikum Rechts der Isar, Munich, Germany

■ How to Derive the Information from the EEG

Matthias Kreuzer, PhD, Research Fellow, Anesthesiology, Emory University School of Medicine, Atlanta Veterans Affairs Medical Center, and Technical University of Munich, Germany

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the basics of EEG generation and how (different) anesthetics influence neuronal activity that leads to the EEG patterns that can be seen in an anesthetized patient; (2) Assess how the recorded EEG is a very complex signal as are many of the tools used to extract information from it; (3) Describe basic (e.g., power spectrum, spectral coherence) as well as more sophisticated (e.g., different entropy measures) signal analysis techniques; (4) Appraise how signal analytical basics can help the clinician to identify an appropriate level of anesthesia as well as EEG signatures that are associated with adverse outcomes; (5) Discuss adequate pain management during anesthesia based on the EEG-based indices and how this is difficult due to paradoxical EEG changes to noxious stimuli; and (6) Explain how to read the EEG to detect these reactions to painful stimuli.

Subspecialty Key: NR, PME, PS, TCSEM

Session Type Key

P=Panel
SCHOLAR=Scholars' Program *

PBLD=Problem-Based Learning Discussion*
SYM=Symposium

RCL=Review Course Lecture
W=Workshop*

Anesthesia Subspecialty Key for Education Sessions

AM Airway Management	EEP Economics, Education and Policy	O Obesity	PS Patient Safety
AMB Ambulatory Anesthesia	GA Geriatric Anesthesia	OB Obstetric Anesthesiology	RA Regional Anesthesia
AP Anesthetic Pharmacology	GH Global Health	PA Perioperative Anesthesia	RES Respiration
BS Bench Science	L Liver	PAP Pain and Addiction Pathways	SM Sleep Medicine
BLD Blood Management	MPC Metabolism and Perioperative Care	PED Pediatric Anesthesiology	TCSEM Technology, Computing and Simulation, Equipment Monitoring
CA Cardiovascular Anesthesiology	NR Neuroscience in Anesthesiology and Perioperative Medicine	PM Pain Medicine	T Trauma
CC Critical Care		PME Pain Mechanisms	

*These sessions require pre-registration to attend.
Check at the Registration Desk for availability.

7:30 am – 9:00 am (continued)

P-11: Physician Wellness in Hospital Medicine: Thriving, Not Simply Surviving

Moderator: Santhanam Suresh, MD, Arthur C. King Professor & Chair of Pediatric Anesthesiology, Ann & Robert H. Lurie Children's Hospital of Chicago; Professor of Anesthesiology and Pediatrics, Northwestern University Feinberg School of Medicine, Chicago, Illinois; Trustee and Journal Liaison, IARS

Panelists:

- **Introductory Remarks and Introduction of Panelists**
Santhanam Suresh, MD
- **Physician Burnout: Defining the Problem, Its Causes, and Its Cures**
Gregory B. Hammer, MD, Professor of Anesthesiology and Pediatrics, Department of Perioperative and Pain Medicine, Stanford University School of Medicine, Stanford, California
- **The Role of Culture for a Healthy Practice**
Jeffery S. Vender, MD, Clinical Professor, Anesthesiology, University of Chicago Medicine; Harris Family Foundation Chair Emeritus, NorthShore Medical Group, Evanston, Illinois
- **Improving Physician Resilience: Personal Approach to Wellness**
Gregory B. Hammer, MD

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the manifestations, causes, and consequences of physician burnout; (2) Formulate institutional approaches to reduce burnout via improvements in culture and practice efficiencies; and (3) Identify individual approaches to improve resilience and job satisfaction.

Subspecialty Key: EEP, PA, PS



Downtown Chicago provides a unique opportunity for anyone interested in bridges. In just two miles, you will find eighteen movable bridges.

7:30 am – 9:00 am (continued)



P-12: Universal Access and Safe Anesthesia: Global Anesthesia Workforce



Moderator: Davy C.H. Cheng, MD, MSc, FRCPS, FCAHS, CCPE, Distinguished University Professor and EPiCOR Research Chair; Medical Director, MEDICI Centre, Anesthesia and Perioperative Medicine, Western University, London, Ontario, Canada; Chair, WFSA Scientific Affairs Committee; Past Chair, IARS Board of Trustees

Panelists:

- **Migration and Workforce Planning in Anesthesiology**
Jannicke Mellin-Olsen, MD, DPH, Consultant Anesthesiologist, Department of Anaesthesia and Intensive Care Medicine, Baerum Hospital, Baerum, Norway; President-Elect, WFSA
- **The Global Anesthesia Workforce and the WFSA Workforce Map**
Wayne Morriss, MBChB (Otago), Dip Obst (Otago), FANZCA, Clinical Senior Lecturer, Anaesthesia, Otago Medical School, University of Otago; Consultant Anaesthetist, Christchurch Hospital, Christchurch, New Zealand; Director of Programmes, WFSA
- **WFSA Fellowship Programs: Training of Teachers and Leaders**
Miodrag Milenovic, MD, PhD, Assistant Professor, Department of Anaesthesiology, University of Belgrade School of Medicine, Clinical Center of Serbia, Belgrade, Serbia; Chair, Education Committee, WFSA

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the United Nations Sustainable Development Goals and describe the global anesthesia human resources workforce and the workforce map; (2) Discuss the complexity regarding mechanisms related to migration and workforce planning in anesthesiology at the global level; and (3) Appraise the joint efforts of the WFSA and other stakeholders in the creation of critical mass of teachers and leaders, capable to generate changes and to strengthen the global capacity to deliver safe anesthesia and effective pain relief in Low and Middle Income Countries (LMIC).

Subspecialty Key: EEP, GH, PS

8:00 am – 8:45 am

RCL-07: Airway Management of the Obstetric Patient: What's New?

Presenter: Sonia Vaida, MD, Professor of Anesthesiology, Obstetrics and Gynecology, Penn State Milton S. Hershey Medical Center, Hershey, Pennsylvania

Learner Objectives: After participating in this activity, the learner will be able to: (1) Formulate a plan for airway management for cesarean delivery; (2) Describe the role of supraglottic airway devices in the obstetric airway; (3) Discuss advantages and disadvantages of video laryngoscopy in obstetric anesthesia; and (4) Formulate a plan to exchange a supraglottic airway device with an endotracheal tube.

Subspecialty Key: AM, OB, RES, TCSEM

8:00 am – 9:00 am

PBLD-12: A New Research Ethical Paradigm for Health Services Research and Cluster Randomized Trials

Presenter: Michael H. Andreae, MD, Associate Professor, Department of Anesthesiology and Perioperative Medicine, Penn State Milton S. Hershey Medical Center, Hershey, Pennsylvania

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe motivation and study designs of pragmatic and cluster randomized clinical trials for contemporary health systems research in perioperative medicine; (2) Assess ethical concerns arising in the conduct of cluster randomized trials and clinical health services research and explain how the underlying ethical principles are evolving; (3) Propose safeguards and study design modifications to mitigate these ethical concerns and evaluate their feasibility in the perioperative setting; and (4) Debate, compare and contrast the conflicting ethical principles and potential conflict of interests for investigators, gatekeepers and regulators arising in the conduct of cluster randomized trials and health services research.

Subspecialty Key: EEP, PA, PS, TCSEM

8:00 am – 9:00 am (continued)

PBLD-13: Ventricular Assist Devices: Anesthetic Management of Patients Presenting for Noncardiac Procedures

Presenter: Peter Von Homeyer, MD, FASE, Associate Professor of Anesthesiology and Surgery, University of Washington Medicine, Seattle, Washington

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review the basic principles of mechanical circulatory support; (2) Describe the various support options and implications for clinical management; and (3) Summarize the important perioperative challenges in these patients (e.g., right heart dysfunction, anticoagulation).

Subspecialty Key: BLD, CA, PA, TCSEM

9:30 am – 10:15 am

RCL-08: LVADs and Noncardiac Surgery: What To Do When They Come to Your Operating Room



Presenter: David W. Barbara, MD, Assistant Professor, Department of Anesthesiology and Perioperative Medicine, Mayo Clinic, Rochester, Minnesota

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the increasing incidence of and reasons for LVAD patients presenting for noncardiac surgery; (2) Identify LVAD console parameters and construct a framework to manage intraoperative hemodynamic perturbations based on these parameters; (3) Apply current evidence and expert opinion regarding optimal intraoperative hemodynamic monitoring for LVAD patients undergoing noncardiac surgery; and (4) Formulate an understanding of perioperative anticoagulation management for LVAD patients undergoing noncardiac surgery.

Subspecialty Key: BLD, CA, CC, PA, PS

9:30 am – 10:30 am



PBLD-14: Anesthetic Considerations in Blast Injury



Presenter: Andrew Milne, MBChB, FRCA, DMCC,
Anaesthetics Registrar, Anaesthesia, Central London School of Anaesthetics, London, England

Learner Objectives: After participating in this activity, the learner will be able to: (1) Define the different forms of blast injury; (2) Define the anesthesiologist's role in secondary triage; (3) Identify key considerations in the perioperative and critical care management of blast victims; and (4) Identify and effectively manage blast lung and other challenges presented by these patients.

Subspecialty Key: AM, CC, GH, RES, T



PBLD-14B: Getting to the Heart of the Matter: Perioperative Focused Cardiac and Pulmonary Ultrasound, and the Hemodynamically Unstable Patient

Presenters:

Alexander S. Kuo, MD, Instructor in Anaesthesia, Harvard Medical School, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

Abraham Sonny, MD, MBBS, Faculty, Department of Anesthesia, Critical Care and Pain Medicine, Harvard Medical School; Massachusetts General Hospital, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss and apply the evidence for anesthesiologist-performed focus cardiac and pulmonary ultrasound in the preoperative setting; (2) Appraise and apply the information available from focus cardiac and pulmonary ultrasound in the intraoperative and postoperative care of a hemodynamically unstable patient; (3) Evaluate critically current evidence for using focus cardiac and pulmonary ultrasound in hemodynamic assessment during the perioperative period, and its limitations; and (4) Review the differential diagnosis and management of undifferentiated hypotension and shock in the perioperative setting.

Subspecialty Key: BLD, CA, CC, EEP, PA

9:30 am – 11:00 am

Kosaka Best of Meeting Abstract Awards Session

The top 30 abstract authors submitted in Clinical Research, Basic Science or by a scholar will display their posters for viewing and discussion during the Kosaka Best of Meeting Abstract Awards Session.

The top 9 finalists (3 from Clinical Research, 3 from Basic Science, and 3 authors who are scholars) will present their original research orally during this session. These top 9 finalists will also compete for the top award in their category and a \$500 prize. In addition, the top three scored Late-Breaking abstract authors will present their research orally. See the Moderated Poster Discussion Session section of this program for additional information on this session.

Moderator: Beverley A. Orser, MD, PhD, FRCPC, Professor, Department of Anesthesia and Physiology, and Chair, Department of Anesthesia, University of Toronto Faculty of Medicine; Scientist, Sunnybrook Research Institute; Director of Research, Department of Anesthesia, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada; Trustee, IARS

Judges:

Keith A. (Tony) Jones, MD, Alfred Habeeb Professor of Anesthesiology and Perioperative Medicine; President-UA Health Services Foundation; Chief Physician Executive-UAB Medicine; Senior Associate Dean for Clinical Affairs-School of Medicine, Birmingham, Alabama

Makoto Ozaki, MD, PhD, Professor, Department of Anesthesiology, Tokyo Women's Medical University, Tokyo, Japan; Secretary, IARS

Santhanam Suresh, MD, Arthur C. King Professor and Chair of Pediatric Anesthesiology, Ann & Robert H. Lurie Children's Hospital of Chicago; Professor of Anesthesiology and Pediatrics, Northwestern University Feinberg School of Medicine, Chicago, Illinois; Trustee and Journal Liaison, IARS



The Kosaka Best of Meeting Abstract Awards Session is supported by the Japan Society for Clinical Anesthesia (JSCA) and the International Anesthesia Research Society (IARS).

Subspecialty Key: EEP

International Science Symposium

Designing Drugs: Transforming Anesthesiology Practice

Sunday, April 29 • 9:30 am – 12:00 pm

The concept of specific ligands acting on receptor subtypes (full or partial agonists or antagonists) to modulate a second messenger signaling system is a fundamental principle of traditional pharmacology. It is now known that some ligands can bind to a specific site on a single receptor isoform to activate two different signaling pathways; various ligands for these sites can be biased signaling agents because they activate one signaling pathway in preference to the other. During this symposium, participants will discover this novel but fundamental concept in pharmacology with emphasis on opioids and implications for the future clinical use of narcotic agents.

Moderator:

Alex S. Evers, MD, Henry E. Mallinckrodt Professor, Anesthesiology, Head, Department of Anesthesiology, Professor, Internal Medicine and Developmental Biology, Washington University School of Medicine in St. Louis, St. Louis, Missouri; Trustee, IARS

Panelists:

General Principles of Biased Signaling with Cannabinoid and Kappa-Opioid Receptors

Laura M. Bohn, PhD, Professor, Department of Molecular Medicine and Neuroscience, The Scripps Research Institute, Jupiter, Florida

Biased Signaling and the Opioid Receptor

Aashish Manglik, MD, PhD, Assistant Professor, Departments of Pharmaceutical Chemistry and Anesthesia and Perioperative Care, University of California, San Francisco School of Medicine, San Francisco, California

Clinical Application of Biased Signaling Opioids

Eugene R. Viscusi, MD, Professor, Pain Management, and Director, Acute Pain Management, Thomas Jefferson University, Director, Acute Pain Management, Physician, Jefferson University Hospitals, Sidney Kimmel Medical College at Thomas Jefferson University, Philadelphia, Pennsylvania

Will Anesthetic Drug Design Change the Way We Do Business?

Alex S. Evers, MD

Learner Objectives: After participating in this activity, the learner will be able to: (1) Evaluate how G protein-coupled receptors function in an endogenous setting to control physiologically relevant processes; (2) Discuss general principles of biased signaling with Cannabinoid and Kappa-Opioid receptors; (3) Discuss the concept of biased agonism and its potential for pharmacological targeting of G-protein-coupled receptors; (4) Describe structure-based drug discovery and its role in modern drug development; (5) Discuss mechanism of anesthetic action for anesthetic neurosteroids in pain management; (6) Review the clinical application of biased signaling opioids; and (7) Examine how this novel but fundamental concept in pharmacology, with emphasis on opioids, may affect future clinical use of narcotic agents.

Subspecialty Key: AP, CA, EEP

9:30 am – 12:30 pm

W-03: Truncal Blocks Workshop: An Enhanced Recovery after Surgery (ERAS) Approach

This truncal blocks workshop focuses on hands-on ultrasound-guided truncal blocks, including rectus sheath, transversus abdominis (TAP), quadratus lumborum (QL), paravertebral, ilioinguinal and iliohypogastric, PECS 1 and PECS 2 (serratus plane) blocks. Participants will acquire a thorough knowledge of imaging, innervation, surface anatomy, and needling techniques. In addition, participants will discover the indications for these specialized blocks.

Workshop Leader: Christina L. Jeng, MD, Assistant Professor, Anesthesiology, Perioperative and Pain Medicine, Assistant Professor, Orthopaedics, Director of the Regional Anesthesiology Fellowship, Assistant Program Director for Clinical Competence, Resident Training Program, Icahn School of Medicine at Mount Sinai, Mount Sinai Queens, The Mount Sinai Hospital, New York, New York

Presenters:

- **Elisha J. Dickstein, MD**, Assistant Professor, Anesthesiology, Icahn School of Medicine at Mount Sinai, Mount Sinai Queens, The Mount Sinai Hospital, New York, New York
- **Nadia Hernandez, MD**, Assistant Professor, Department of Anesthesiology, McGovern School of Medicine at the University of Texas Health Science Center, Houston, Texas
- **Yan Lai, MD, FASA, MPH**, Assistant Professor, Department of Anesthesiology, Perioperative, and Pain Medicine, Icahn School of Medicine at Mount Sinai, Mount Sinai West & St. Luke's Hospitals, New York, New York
- **Jordan F. Wicker, MD**, Assistant Professor, Anesthesiology, Perioperative and Pain Medicine, Icahn School of Medicine at Mount Sinai; The Mount Sinai Hospital; Mount Sinai St. Luke's; Mount Sinai West; New York, New York

Learner Objectives: After participating in this activity, the learner will be able to: (1) Demonstrate competence to perform ultrasound-guided regional anesthesia procedures; (2) Demonstrate proper transducer manipulation and system optimization to produce diagnostic images; (3) Identify and differentiate the topographic and cross-sectional anatomy; (4) Demonstrate imaging techniques for performing ultrasound-guided truncal blocks on live models; (5) Identify how to incorporate protocols, scan techniques, and interpretation criteria to integrate the skills learned into clinical practice; and (6) Identify those surgical patients whose recovery/discharge could be better optimized by the incorporation of these blocks.

Subspecialty Key: PA, RA

9:45 am – 11:15 am

P-13: Increasing Diversity and Gender Equivalency in Your Department

Moderator: Jeanine P. Wiener-Kronish, MD, Chief of Anesthesia, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital; Professor of Anaesthesia, Harvard Medical School, Boston, Massachusetts; President, AUA

Panelists:

- **How Diverse are Anesthesia Programs and Departments?**
J. Renee Navarro, PharmD, MD, Professor of Anesthesia and Perioperative Care, University of California, San Francisco School of Medicine, San Francisco, California
- **How Diverse are Medical Schools and Other Fields?**
William "Bill" McDade, MD, PhD, Executive Vice President and Chief Academic Officer, Anesthesia, Ochsner Health System, New Orleans, Louisiana
- **What Can We Do to Improve Diversity in Medicine and Science?**
Chiquita A. Collins, PhD, Vice Dean for Inclusion and Diversity; Chief Diversity Officer, Office of the Dean; Associate Professor, Department of Epidemiology and Biostatistics, UT Health San Antonio, Joe R. & Teresa Lozano Long School of Medicine, San Antonio, Texas

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify ways to increase diversity in medical school classes; (2) Formulate ways to increase diversity in anesthesia residencies; (3) Identify ways to improve leadership training for women and under-represented minority candidates; and (4) Discuss how to teach cultural competency.

Subspecialty Key: EEP

Affiliate Society Meetings

Stay **Tuesday, May 1**, and take advantage of the Affiliate Society Meetings offered that afternoon.

1:00 pm – 4:00 pm:
Clinical Research Consortium: Collaborative Research Initiative for Perioperative Clinical and Translational Science Meeting

1:00 pm – 5:30 pm:
Society for the Advancement of Transplant Anesthesia (SATA) 2nd Symposium

For more information, see page 92-93.

9:45 am – 11:15 am (continued)

P-14: Can Human Factors and Cognitive Science Make Medicine and Anesthesiology Safer?

Moderator: Anna Clebone, MD, Assistant Professor of Anesthesia and Critical Care, The University of Chicago Medicine, Chicago, Illinois

Panelists:

- **Matching Cognitive Aid Design to the Way Anesthesiologists Approach Critical Events**
Anna Clebone, MD
- **Is Every Intervention Always Good? The Unrecognized Hazards of Alarm Fatigue**
Keith Ruskin, MD, Professor of Anesthesia and Critical Care, The University of Chicago Medicine, Chicago, Illinois
- **Cognitive Aid Creation and Implementation: More than a Tick-Box**
Barbara K. Burian, PhD, Research Psychologist, Human Systems Integration Division, NASA Ames Research Center, Moffett Field, California
- **The Science of Error: Beyond the Individual**
Key Dismukes, PhD, Chief Scientist for Aerospace Human Factors (retired), NASA Ames Research Center, Moffett Field, California

Learner Objectives: After participating in this activity, the learner will be able to: (1) Examine how our thinking about error has evolved from blaming the individual to using the science of human performance to examine the underlying causes of mistakes in anesthesiology and medicine; (2) Inspect the science behind alarms and alerts in anesthesiology, and how these can lead to alarm fatigue, as well as potential solutions; (3) Discuss the steps in the lifecycle of perioperative checklist development for anesthesiology including conception, determining content and design, testing and validation, induction, training and implementation, and revision; and (4) Examine ways to make anesthesia critical event checklist design meet specific clinical user needs within the anesthesia environment.

Subspecialty Key: EEP, PA, TCSEM

10:25 am – 11:10 am

RCL-09: Cerebrospinal Fluid Drainage Catheters in Endovascular and Open Aortic Surgery



Presenter: Maged Y. Argalious, MD, MSc, MBA, MEd, FASE, Professor and Vice Chair for Education, Anesthesiology Institute, Cleveland Clinic, Cleveland, Ohio

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the indications of Cerebrospinal fluid (CSF) drainage catheters in endovascular an open aortic surgery; (2) Describe the safe steps in insertion and management of CSF drainage catheters; (3) Differentiate prophylactic from therapeutic CSF drainage; and (4) Identify CSF drainage catheter-related complications, including measures to prevent and manage these complications.

Subspecialty Key: BLD, CA, PA, PS

10:45 am – 11:45 am

PBLD-15: Modern Pain Management Concepts for Patients Undergoing Thoracic Surgery

Presenter: Peter Von Homeyer, MD, FASE, Associate Professor of Anesthesiology and Surgery, University of Washington Medicine, Seattle, Washington

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss general principles of pain management after thoracic surgery; (2) Describe the different analgesic modalities and how they pertain to various thoracic surgical procedures; and (3) Interpret the literature and assess outcome data related to pain management after thoracic surgery.

Subspecialty Key: CA, PM, PME, PS

Thank you for your support!

The International Anesthesia Research Society (IARS) Board of Trustees and the 2018 Annual Meeting Oversight Committee thanks our generous sponsors, gift in-kind supporters and exhibitors.

11:20 am – 12:05 pm

RCL-10: Neurological Complications of Cardiovascular Diseases

Presenter: Avinash B. Kumar, MD, FCCM, FCCP, Professor, Division of Anesthesiology Critical Care Medicine and Neurology, Vanderbilt University Medical Center, Nashville, Tennessee

Learner Objectives: After participating in this activity, the learner will be able to: (1) Examine the diagnostic approach to a cardiac surgical patient who does not “wake up” after successful cardiac surgery; (2) Distinguish how to diagnose and manage infectious central nervous system (CNS) complications in the patient with cardiovascular disease; and (3) Discuss the diagnosis and management of cardiovascular complications and sequelae of primary neurological illness.

Subspecialty Key: CA, CC, NR

Tabletop Exhibits

Be sure to visit the Tabletop Exhibits, Saturday, April 28 through Monday, April 30. And don’t forget the Alignment Reception on Saturday, April 28, from 6:00 pm – 7:30 pm.

Tabletop Exhibit Hours:

Saturday, April 28	6:30 am – 4:00 pm
Alignment Reception	6:00 pm – 7:30 pm
Sunday, April 29	6:30 am – 4:00 pm
Monday, April 30	6:30 am – 9:30 am



The Chicago Theatre, originally known as the Balaban and Katz Chicago Theatre, is a landmark theater located on North State Street in the Loop area.

11:30 am – 1:00 pm

P-15: Anesthesiologists within the U.S. Veterans Health Administration: Contributions to Anesthesia and Perioperative Medicine

Moderator: Jonathan Mark, MD, Professor of Anesthesiology, Duke University School of Medicine; Durham Veterans Affairs Medical Center, Durham, North Carolina

Panelists:

■ **Perioperative Surgical Home**
Edward R. Mariano, MD, MAS, Professor, Department of Anesthesiology, Perioperative and Pain Medicine, Stanford University School of Medicine; Stanford, California; Chief, Anesthesiology and Perioperative Care Service, and Associate Chief of Staff, Inpatient Surgical Services, Veterans Affairs Palo Alto Healthcare System, Palo Alto, California

■ **Perioperative Beta-Blockade**
Arthur R. Wallace, MD, PhD, Professor, Anesthesiology, University of California, San Francisco Department of Anesthesia and Perioperative Care, and Chief of Anesthesia, San Francisco Veterans Affairs Healthcare System, San Francisco, California

■ **Perioperative Opioid Use**
Karthik Raghunathan, MD, MPH, Associate Professor, Department of Anesthesiology, Duke University School of Medicine; Durham Veterans Affairs Medical Center, Durham, North Carolina

Learner Objectives: After participating in this activity, the learner will be able to: (1) Design a Cardiac Risk Reduction program for a medical center; (2) Identify the components of a successful Perioperative Surgical Home; (3) Formulate and evaluate a program to reduce the prolonged use of opioids following surgery; and (4) Contrast anesthesia practices in Veterans Affairs and non-Veterans Affairs health systems.

Subspecialty Key: AP, CA, EEP, PA, PM, PS

11:30 am – 1:00 pm (continued)



P-16: Neurotoxicity in Children Exposed to Anesthesia

Moderator: Santhanam Suresh, MD, Arthur C. King Professor and Chair of Pediatric Anesthesiology, Ann & Robert H. Lurie Children's Hospital of Chicago; Professor of Anesthesiology and Pediatrics, Northwestern University Feinberg School of Medicine, Chicago, Illinois; Trustee and Journal Liaison, IARS

Panelists:

■ **The Developing Brain under Anesthesia: Oscillations, Neural Circuits, and Critical Period Plasticity**

Patrick L. Purdon, PhD, Nathaniel M. Sims Endowed Scholar in Anesthesia Innovation and Bioengineering, Department of Anesthesia, Critical Care, and Pain Medicine, Massachusetts General Hospital; Associate Professor, Anaesthesia, Harvard Medical School, Boston, Massachusetts

■ **Preclinical Data: Is This Always Reproducible?**

Beverley A. Orser, MD, PhD, FRCPC, Professor, Department of Anesthesia and Physiology, and Chair, Department of Anesthesia, University of Toronto Faculty of Medicine; Scientist, Sunnybrook Research Institute; Director of Research, Department of Anesthesia, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada; Trustee, IARS

■ **The MASK Study: What Does It Tell Us?**

David O. Warner, MD, Professor of Anesthesiology, Consultant, Department of Anesthesiology and Perioperative Medicine, Mayo Clinic College of Medicine and Science, Rochester, Minnesota

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review basic neural circuit mechanisms of anesthetic drugs, and how they relate to the electroencephalogram (EEG); (2) Examine age-dependent changes in the anesthesia-induced EEG in children, and how this activity relates to brain development; (3) Examine how anesthesia-induced brain activity differs in infants, and what this can tell us about early childhood development; (4) Discuss the basic neurobiology of critical period plasticity in early childhood development, and how it relates to anesthetic mechanisms; (5) Describe the major findings of the Mayo Anesthesia Safety in Kids (MASK) study; and (6) Compare how the MASK study results relate to prior preclinical and clinical research studies of anesthesia neurotoxicity.

Subspecialty Key: PED, PS

11:30 am – 1:00 pm (continued)

P-17: Innovations in Anesthesiology Resident Education

Moderator: Julia B. Sobol, MD, Assistant Professor of Anesthesiology, Program Director for the International Anesthesiology Fellowship, Anesthesiology PGY1 Program Director, Columbia University Medical Center; New York-Presbyterian Hospital, New York, New York

Panelists:

■ **Overview of Educational Resources for Graduate Medical Education**

Julia B. Sobol, MD

■ **Gaming and Virtual Reality Simulation in Graduate Medical Education**

Robert Maniker, MD, Assistant Professor, Anesthesiology, Division of Regional Anesthesia and Pain Medicine, Columbia University Medical Center, New York, New York

■ **Simulation in Graduate Medical Education**

Marjorie Stiegler, MD, Associate Professor of Anesthesiology, The University of North Carolina at Chapel Hill, Chapel Hill, North Carolina

■ **Blended and Social Learning in Graduate Medical Education**

Glenn Woodworth, MD, Associate Professor and Director of Regional Anesthesia, Program Director, Regional Anesthesiology Fellowship, Department of Anesthesiology and Perioperative Medicine, Oregon Health & Science University, Portland, Oregon

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss adult educational theory and new educational modalities; (2) Compare and contrast blended and social learning in graduate medical education; (3) Appraise simulation as an educational tool for trainees; and (4) Examine gaming and virtual reality simulation as other tools for teaching residents.

Subspecialty Key: EEP, TCSEM

12:15 pm – 1:00 pm

RCL-11: Perioperative Management of Hyperglycemia for Noncardiac Surgery: Who, How and Why?

Presenter: Elizabeth Watson Duggan, MD, Division Chief, General and Transplant Anesthesiology, Department of Anesthesiology, Emory University School of Medicine, Atlanta, Georgia

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the impact of long-term and short-term glycemic control in various surgical populations; (2) Identify patient characteristics associated with perioperative hyperglycemia as a means to risk stratify surgical candidates; and (3) Interpret recommended blood glucose targets and discern the risks/benefits of the various hypoglycemic treatment options.

Subspecialty Key: AMB, O, PA, PS

2:00 pm – 2:45 pm

RCL-12: Perioperative Venous Thromboembolism: A Review

Presenter: Ronald Gordon, MD, PhD, Associate Clinical Professor of Anesthesiology, University of California, San Diego School of Medicine, San Diego, California

Learner Objectives: After participating in this activity, the learner will be able to: (1) Assess the enormous magnitude of the problem of perioperative venous thromboembolism (VTE) and its effect on healthcare costs; (2) Identify the basic pathophysiology of deep vein thrombosis and pulmonary embolism; (3) Discuss the key role anesthesiologists can play in its prevention; (4) Demonstrate two interventions that can immediately be introduced into practice at no cost to reduce the incidence of VTE; and (5) Identify the role of genomics in predicting VTE risk.

Subspecialty Key: AM, BLD, EEP, PS

2:00 pm – 3:00 pm

PBLD-16: How Should I Manage My Patient's Regional Anesthesia Associated with Neurologic Complication?



Presenter: Joseph M. Neal, MD, Anesthesiology Faculty, Department of Anesthesiology, Virginia Mason Medical Center, Seattle, Washington

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify factors that may predispose patients to neurologic injury; (2) Differentiate those conditions that demand immediate diagnosis and therapeutic intervention; and (3) Demonstrate knowledge of those factors that may predispose patients to neurologic injury.

Subspecialty Key: AMB, NR, PA, PS, RA

2:00 pm – 3:30 pm



P-18: Updates to Perioperative Outcomes Research: So Far We've Come, So Far to Go

Moderator: Michael R. Mathis, MD, Assistant Professor, Anesthesiology, University of Michigan Medicine, Ann Arbor, Michigan; Co-Chair Events, eSAS

Panelists:

- **Maintaining Perioperative Database Integrity: An Approach by the Multicenter Perioperative Outcomes Group (MPOG)**
Michael R. Mathis, MD
- **Validation of Medicare Data as Applied to Intensive Care and Mechanical Ventilation**
Hannah Wunsch, MD, MSc, Associate Professor of Anesthesia and Critical Care Medicine, University of Toronto Faculty of Medicine, Toronto, Ontario; Staff Physician, Department of Critical Care Medicine, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada
- **Modeling Patient Trajectories in Perioperative Medicine Using Regular Patient Data**
Linda Peelen, PhD, Assistant Professor of Epidemiology, Department of Anesthesiology, Intensive Care and Emergency Medicine, University Medical Center Utrecht, Utrecht, The Netherlands

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the limitations of previous perioperative database research, and demands imposed for improving data quality; (2) Discuss the continued importance of high-quality perioperative outcomes studies, and their role in shaping the anesthesiology research landscape; and (3) Identify specific methods anesthesiologist clinician-investigators can use to successfully navigate pitfalls encumbering previous outcomes database analyses, to generate new and improved generation of perioperative outcomes research.

Subspecialty Key: CC, PA, TCSEM

2:00 pm – 3:30 pm (continued)

P-19: Healthcare Quality Infrastructure: Too Much Stick, Not Enough Carrot

Moderator: Mark E. Nunnally, MD, FCCM, Director, Adult Critical Care Services, New York University Langone Health, New York, New York

Panelists:

■ **The Social Construction of Medicine**

Michael O'Connor, MD, Professor of Anesthesia and Critical Care, The University of Chicago Medicine, Chicago, Illinois

■ **Metrics: Guiding or Gaming?**

Avery Tung, MD, FCCM, Professor of Anesthesia and Critical Care, Quality Chief for Anesthesia, The University of Chicago Medicine, Chicago, Illinois; President, SOCCA; Executive Section Editor, Critical Care and Resuscitation, *Anesthesia & Analgesia*

■ **Evidence-Based Medicine is Evidence of What?**

Brian Kavanagh, MD, FRCP(C), Senior Clinician-Scientist and Dr Geoffrey Barker Chair in Critical Care Research, Hospital for Sick Children; Professor of Anesthesia, Physiology and Medicine, University of Toronto, Toronto, Ontario, Canada

Learner Objectives: After participating in this activity, the learner will be able to: (1) Explain the meaning and consequences of social constructions in complex systems; (2) Discuss how social constructions change and control medical care; and (3) Review the social potential of several common practice processes.

Subspecialty Key: CC, EEP, PS, TCSEM

The IARS Board of Trustees and Annual Meeting Oversight Committee wish to thank the Session Proposal Review Panel Committee Members for the critical role they play in selecting proposals for presentation at the IARS 2018 Annual Meeting and International Science Symposium.

This year, 277 total sessions were submitted and reviewed including 107 Panels, 63 Problem-Based Learning Discussions, 83 Review Course Lectures, 9 Symposia, and 15 Workshop sessions.

The Committee Members' valuable perspectives and experience help develop IARS educational content which advances anesthesia education and research, and continues to improve care for our patients.

2:00 pm – 3:30 pm (continued)



P-20: Meet the Editors

Moderators:

Jean-Francois Pittet, MD, David Hill Chestnut Endowed Professor of Anesthesiology and Perioperative Medicine, Director, Organ Injury and Trauma Research, University of Alabama at Birmingham, Birmingham, Alabama; Editor-in-Chief, *Anesthesia & Analgesia* and *A&A Practice*

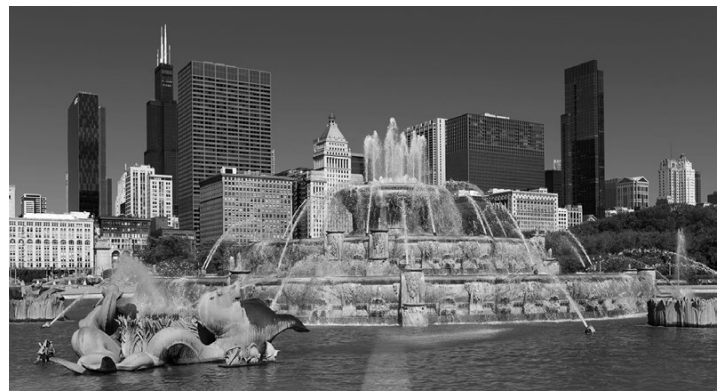
Thomas R. Vetter, MD, MPH, Director of Perioperative Care, Professor, Surgery and Perioperative Care, Population Health, Dell Medical School at the University of Texas at Austin, Austin, Texas; Deputy Editor-in-Chief, *Anesthesia & Analgesia* and *A&A Practice*

Please join Drs. Pittet and Vetter, as well as several of the Journal's Executive Section Editors, for an informal and collegial dialogue about ongoing changes to and the future direction of *Anesthesia & Analgesia* and *A&A Practice*.

Potential authors and peer reviewers are especially encouraged to attend.

Note: This session is open to all attendees. CME is not offered for this session.

Subspecialty Key: EEP



Buckingham Fountain is a Chicago landmark in the center of Grant Park. Dedicated in 1927, it is one of the largest fountains in the world.

2:00 pm – 5:00 pm

W-04: Teaching Anesthesia Teams to Perform after Action Reviews: Lessons Learned from Aviation and Healthcare

In intense, high-risk medical domains, such as anesthesia, improving patient safety is a major concern. Although widely used in simulation-based trainings (SBT) and studied in the context of simulation, debriefings are underutilized and understudied in clinical practice. The leaders in aviation and healthcare will provide important lessons to apply simulation-based debriefings methods to clinical practice, showcasing a promising lens for examining work in high-risk domains.

Workshop Leader: Bastian Grande, MD, Consultant Anesthesiologist, Simulation Center, Teaching Models, University Hospital Zurich, Institute of Anesthesiology, Zurich, Switzerland

Presenters:

- **Dieter Eppler**, Captain, Swiss International Airlines, Deputy Head of Training 3rd Party, Lufthansa Aviation Training, Zurich, Switzerland
- **Michael Hanusch, MD**, Doctoral Student, Anaesthesiology, University Hospital Zurich, Zurich, Switzerland
- **Michaela Kolbe, PhD**, Director of Research and Development, Simulation Center, University Hospital Zurich, Zurich, Switzerland
- **Adrian Marty, MD**, Clinical Professor, Anesthesiology, Perioperative and Pain Medicine, Stanford University School of Medicine, Stanford, California
- **Julia Seelandt, PhD**, Psychologist, Simulation Center, University Hospital Zurich, Zurich, Switzerland

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the core elements of simulation-based trainings (SBT), and how the use of debriefing is not limited to the simulated setting; (2) Describe how debriefings offer multiple learning possibilities for ACTs; (3) Assess how learning and performance of ACTs will be effectively enhanced by structured debriefings in clinical practice which could provide a cost-effective and potentially powerful learning infrastructure; (4) Discuss how ACT debriefings have to be embedded in organizational learning, set up, and conducted to provide an effective yet feasible and low-threshold learning tool for ACTs; and (5) Identify what healthcare providers need in order to learn and apply debriefing techniques during clinical practice and how faculty development programs can be targeted most usefully.

Subspecialty Key: EEP, PS, TCSEM

2:30 pm – 3:30 pm



SNACC
SOCIETY FOR NEUROSCIENCE
IN ANESTHESIOLOGY AND CRITICAL CARE

PBLD-17: Anesthesia for Acute Stroke: Updates in Management

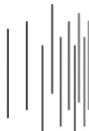


Presenter: Shobana Rajan, MD, Staff Anesthesiologist, Department of General Anesthesiology, Cleveland Clinic, Cleveland, Ohio

Learner Objectives: After participating in this activity, the learner will be able to: (1) Formulate a plan of anesthesia (general versus monitored anesthesia care); (2) Recall the drugs that could be used for monitored anesthesia care and the rationale for its use; (3) Apply the current updates to their practice based on review of the current literature; (4) Recall the consensus guidelines from the Society of Neuroscience in Anesthesiology and Critical Care (SNACC) for the management of patients with acute stroke; (5) Describe the hemodynamic management before, during and after recanalization; (6) List the neuroprotective strategies available in literature in ischemic stroke; and (7) List the intraprocedural complications and understand its management.

Subspecialty Key: AP, BLD, NR, PS

2:55 pm – 3:40 pm



TRAUMA
ANESTHESIOLOGY
SOCIETY

RCL-13: The Practicalities of Delivering Massive Transfusions in Trauma Resuscitation

Presenter: Andrew Milne, MBChB, FRCA, DMCC, Anaesthetics Registrar, Anaesthesia, Central London School of Anaesthetics, London, England

Learner Objectives: After participating in this activity, the learner will be able to: (1) Compare different intravenous catheters and access sites; (2) Discuss the function of rapid infusion devices; (3) Evaluate key targets in hemostatic resuscitation; (4) Apply point-of-care tests to guide resuscitation; and (5) Describe key non-technical skills vital to effective delivery of massive transfusion resuscitations.

Subspecialty Key: AM, BLD, CC, PS, RES, T

3:30 pm – 6:00 pm



**Symposium-03: Social Accountability:
How Can Anesthesiology Face the
Challenge? No Anesthesia? Whose
Problem is It?**

Introduction: Beverley A. Orser, MD, PhD, FRCPC, Professor, Department of Anesthesia and Physiology, and Chair, Department of Anesthesia, University of Toronto Faculty of Medicine; Scientist, Sunnybrook Research Institute; Director of Research, Department of Anesthesia, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada; Trustee, IARS

Moderator: Susan S. O'Leary, MD, Associate Professor Faculty of Health Sciences, Anesthesiology, McMaster University; Hamilton Health Sciences, Hamilton, Ontario, Canada

Presenters:

■ **Healthcare in First Nations and Inuit Peoples**

Alika Lafontaine, MD, Assistant Clinical Professor, Department of Anesthesiology, University of Alberta, Grand Prairie, Alberta, Canada

■ **Report on Rural Health Services in Canada**

Ruth Wilson, MD, CCFP, FCFP, CM, Professor, Department of Family Medicine, Queen's University, Kingston, Ontario, Canada; Chair, Institute for Safe Medicine Practice (Canada); President, North American Region, World Organization of Family Doctors (WONCA)

■ **Improving Rural Access to Anesthesia Care in the United States**

Pavithra Ranganathan, MD, Associate Professor, Anesthesiology, West Virginia University, Morgantown, West Virginia; Incoming Chair, ASA Committee on Rural Access to Anesthesia Care

■ **Anesthesia in Rural Australia**

Brian Spain, MBBS, FANZCA, Co-Director, Department of Anaesthesia and Perioperative Medicine, Division of Surgery and Critical Care, Royal Darwin Hospital, Darwin, Australia

■ **Generalist Anesthesiologists and Enhanced Skill Training**

W. Alexander (Sandy) MacDonald, MA, MD, CCFP, (FPA), FCFP, Clinical Associate Professor of Family Medicine, Memorial University of Newfoundland; Assistant Professor of Family Medicine VPT, University of Ottawa, Territorial Chief of Staff, Department of Health, Government of Nunavut, Ottawa, Ontario, Canada

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the delivery of anesthesia services in rural and indigenous communities in Canada and Australia; (2) Identify the challenges of providing anesthesia care in rural and indigenous communities; (3) Review potential solutions to improve anesthesia service delivery in these communities; and (4) Compare and contrast the differences between your practice and that of colleagues in remote and indigenous communities.

Subspecialty Key: CC, EEP, GH, PS

4:00 pm – 4:45 pm



**RCL-14: Enhanced Recovery
Program: Key Components,
Implementation and Outcomes**



Presenter: Tong Joo (TJ) Gan, MD, MHS, FRCA, MBA, Professor and Chairman, Department of Anesthesiology, Stony Brook University School of Medicine, Stony Brook, New York; Founding President, ASER

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the changing healthcare landscape and the importance of increasing the value proposition; (2) List the key components of the enhanced recovery protocol (ERP); (3) Demonstrate the outcomes of the enhanced recovery strategy; and (4) Identify barriers and share tips for successful implementation of the ERP.

Subspecialty Key: EEP, PA, PS, TCSEM

4:00 pm – 5:00 pm

**PBLD-18: Acute Pulmonary Hypertensive Crisis:
Integrating Old and New Hemodynamic Monitoring
at the Bedside**

Presenter: Kathleen Tyson, MD, Assistant Professor, Anesthesiology, Lewis Katz School of Medicine at Temple University Hospital, Philadelphia, Pennsylvania

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the signs and symptoms of acute pulmonary hypertensive crisis; (2) Assess the degree of pulmonary hypertensive decompensation with interval 2D POC echocardiography imaging; (3) Discuss the integration of pulmonary artery catheter data to confirm diagnosis; (4) Review pulmonary vasodilator therapy dosing and safe routes of administration; (5) Discuss the vasopressor and inotropic management options and approach; and (6) Identify other organ system goals of therapy including ventilator management, fluid balance goals, and blood product administration.

Subspecialty Key: BLD, CA, CC, PS, TCSEM

4:00 pm – 5:00 pm (continued)

PBLD-19: The Difficult Airway in Obstetrics

Presenter: Mohammad El-Orbany, MD, Professor of Anesthesiology, Medical College of Wisconsin, Milwaukee, Wisconsin

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the physiological changes associated with pregnancy and their impact on airway anatomy, functional residual capacity, and gastric emptying time; (2) Formulate a plan for assessing and preparing the patient for general anesthesia in the short time available between the decision to operate and induction; (3) Formulate a plan to follow in case of inability to visualize the vocal cords; (4) Discuss the different options and devices that can be used in case of tracheal intubation failure after induction; and (5) Discuss the issue of fetal versus mother wellbeing in case of persistent inability to establish the airway.

Subspecialty Key: AM, OB, PED, RES

Call for Session Proposals

Session Proposals Open End of April 2018!

Contribute to the IARS mission to support innovative and forward-thinking anesthesia research and education! Submit your session proposal and be a part of the IARS 2019 Annual Meeting and International Science Symposium education program.

IARS will be accepting proposals for Panels, Problem-Based Learning Discussion sessions, Review Course Lectures, Symposia and Workshops for possible inclusion in the IARS 2019 Annual Meeting and International Science Symposium, May 18-21, 2019, in Montreal, Quebec, Canada.

**Submission Deadline:
Monday, July 9, 2018**

4:00 pm – 5:30 pm



P-21: 50 Years of ARDS: An Update

Moderator: Michael H. Wall, MD, FCCM, JJ Buckley Professor and Chair, Department of Anesthesiology, University of Minnesota Medical School, Chief of Anesthesiology, University of Minnesota Twin Cities, Fellow (FCCM), American College of Critical Care Medicine, Minneapolis, Minnesota

Panelists:

■ Can We Really Prevent ARDS?

Avery Tung, MD, FCCM, Professor of Anesthesia and Critical Care, Quality Chief for Anesthesia, The University of Chicago Medicine, Chicago, Illinois; President, SOCCA; Executive Section Editor, Critical Care and Resuscitation, *Anesthesia & Analgesia*

■ Spontaneous Breathing in ARDS

Brian Kavanagh, MB, FRCP(C), Senior Clinician-Scientist and Dr Geoffrey Barker Chair in Critical Care Research, Hospital for Sick Children; Professor of Anesthesia, Physiology and Medicine, University of Toronto, Toronto, Ontario, Canada

■ Recent Trends in Mechanical Ventilation for ARDS

Daniel S. Talmor, MD, MPH, Professor and Chief, Anesthesia, Pain Medicine and Critical Care, Beth Israel Deaconess Medical Center, Boston, Massachusetts

■ Changing the Outcomes in ARDS: Proning and Paralysis

Kunal Karamchandani, MD, FCCP, Assistant Professor, Anesthesiology and Perioperative Medicine, College of Medicine, Penn State Milton S. Hershey Medical Center, Hershey, Pennsylvania

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the potential strategies to prevent ARDS; (2) Analyze the role of spontaneous breathing in patients with ARDS; (3) Identify the recent developments in mechanical ventilation for patients with ARDS; and (4) Describe the strategies that can improve mortality in patients with ARDS.

Subspecialty Key: AM, CC, PS

This is a bonus session for the SOCCA Focus on Critical Care education program and is offered complimentary to SOCCA attendees as part of their Annual Meeting registration fee.

4:00 pm – 5:30 pm (continued)

P-22: Ketamine for Acute Pain, Chronic Pain, and Psychiatric Disorders: An Evidence-Based Review of Efficacy, Safety, and Logistics



Moderator: Steven Porter, MD, Assistant Professor, Anesthesiology and Perioperative Medicine, Mayo Clinic College of Medicine and Science, Jacksonville, Florida; Program Director, Regional Anesthesia and Acute Pain Medicine Fellowship

Panelists:

- **Ketamine for Psychiatric Disorders: An Evidence-Based Review**
Steven Porter, MD
- **Ketamine for Acute Pain: An Evidence-Based Review of Efficacy and Safety**
Eric S. Schwenk, MD, Associate Professor, Anesthesiology, Director, Orthopedic Anesthesia, Sidney Kimmel Medical College at Thomas Jefferson University, Philadelphia, Pennsylvania
- **Ketamine for Chronic Pain: Efficacy and Logistics**
Eugene R. Viscusi, MD, Professor, Pain Management, and Director, Acute Pain Management, Thomas Jefferson University; Physician, Jefferson University Hospitals, Sidney Kimmel Medical College at Thomas Jefferson University, Philadelphia, Pennsylvania

Learner Objectives: After participating in this activity, the learner will be able to: (1) Apply an evidence-based rationale dosing strategy for perioperative ketamine for acute pain; (2) Create perioperative order sets to administer ketamine on the hospital ward; (3) Discuss the safety and side effect profile of ketamine infusions in the hospital setting; and (4) Identify the psychiatric patient populations who may benefit from perioperative ketamine.

Subspecialty Key: AP, PM, PME, PA, PS

4:00 pm – 5:30 pm (continued)

P-23: Interpreting and Applying Systematic Reviews in Perioperative Medicine

Moderator: Manoj M. Lalu, MD, PhD, FRCPC, Vice Chairman for Clinical Research and Faculty Development, Clinical Scholar, Department of Anesthesiology and Pain Medicine, The Ottawa Hospital; Associate Scientist, Clinical Epidemiology Program, Ottawa Hospital Research Institute, Ottawa, Ontario, Canada; Co-Chair Membership, eSAS

Panelists:

- **Emerging Applications for Systematic Reviews (Knowledge Synthesis to Better Understand Basic Science/Preclinical Data)**
Manoj M. Lalu, MD, PhD, FRCPC
- **Interpreting Systematic Reviews and Applying Them to Your Clinical Practice**
Daniel I. McIsaac, MD, MPH, FRCPC, Assistant Professor, Junior Research Chair in Perioperative Health Systems and Outcomes Research, Department of Anesthesiology and Pain Medicine, University of Ottawa; Associate Scientist, Ottawa Hospital Research Institute, Staff Anesthesiologist, The Ottawa Hospital; Adjunct Scientist, Institute for Clinical Evaluative Sciences (ICES), Ottawa, Ontario, Canada
- **Performing Knowledge Synthesis to Support Your Perioperative Clinical Trial**
W. Scott Beattie, MD, PhD, FRCPC, Professor, Department of Anesthesiology, University of Toronto Faculty of Medicine, Staff Anesthesiologist, Toronto General Hospital; Adjunct Scientist, The Institute for Clinical Evaluative Sciences, Toronto, Ontario, Canada; Associate Editor-in-Chief for Cardiovascular Anesthesiology, *Anesthesia & Analgesia*
- **Emerging Methods for Knowledge Synthesis (Network Meta-Analysis, Trial Sequential Analysis)**
Duminda Nalaka Wijesundera, MD, PhD, FRCPC, Associate Professor, Department of Anesthesia, University of Toronto Faculty of Medicine, and Clinical Researcher, The Institute of Health Policy Management and Evaluation, Toronto, Ontario, Canada

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify key issues in analyzing and applying systematic reviews to their perioperative practice; (2) Discuss how systematic reviews and knowledge synthesis may inform their perioperative research program; (3) List emerging methods for systematic reviews (i.e., network meta-analysis); and (4) Assess how systematic reviews can help interpretation of perioperative basic science/preclinical data.

Subspecialty Key: EEP, PA

5:00 pm – 5:45 pm

RCL-15: Ultrasound Findings in Intraoperative Anesthetic Emergencies

Presenter: Julia B. Sobol, MD, Assistant Professor of Anesthesiology and Critical Care, Program Director for the International Anesthesiology Fellowship, Anesthesiology PGY1 Program Director, Columbia University Medical Center; New York-Presbyterian Hospital, New York, New York

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe how arrests in the operating room may be different from those that occur in the emergency room, in other parts of the hospital, or outside the hospital; (2) Review ultrasound findings in different causes of perioperative arrest, focusing on cardiovascular, respiratory, and anesthetic causes of arrest; and (3) Recall the logistics of performing ultrasound during cardiopulmonary arrest.

Subspecialty Key: AP, CA, CC, RES, T



6:30 pm – 8:00 pm

Dine-Around Session 2

Meet new friends and colleagues in the casual setting of a Dine-Around while discussing the top-of-mind anesthesia topics. Take advantage of this unique opportunity for a more meaningful networking experience.

To register and for more information on the locations, restaurant cuisines and price points, visit the Registration desk in the Crystal Foyer on the Lobby Level in the West Tower.

Space is limited and pre-registration is required. An additional session is offered on Friday, April 27, 7:30 pm – 9:00 pm. Attendees may attend both sessions if space is available.

Dining costs are the responsibility of attendees.

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Millennium Park is a public park located in the Loop community area of Chicago, and was originally intended to celebrate the third millennium.

Program Schedule • Friday, April 27

Registration is open today from 6:00 am – 6:00 pm in the Crystal Foyer, Lobby Level, West Tower. See details for this day in the program (refer to the Table of Contents for the exact page number).

6:00 am – 10:00 am	10:00 am – 1:00 pm	1:00 pm – 4:00 pm	4:00 pm – 9:00 pm
			5:00 pm – 6:00 pm First-Time Attendee Orientation and Networking Session <i>Regency B, Ballroom Level, West Tower</i>
			6:00 pm – 7:00 pm IARS, AUA, SOCCA and eSAS Scholars' Program Mentoring and Networking Reception <i>The Living Room & Bar, Skyway Level, West Tower</i>
			7:30 pm – 9:00 pm Dine-Around Session 1 <i>Group 1: Howells & Hood, Group 2: The Dearborn, Group 3: Imperial Lamian, Group 4: Tesori, Group 5: Beatrix, Group 6: Labriola, Group 12: Sweetwater Tavern and Grille</i>

Program Schedule • Saturday, April 28

Registration is open today from 6:00 am – 6:00 pm in the Crystal Foyer, Lobby Level, West Tower. See details for this day in the program (refer to the Table of Contents for the exact page number).

6:00 am – 10:00 am	10:00 am – 1:00 pm	1:00 pm – 4:00 pm	4:00 pm – 8:00 pm
6:15 am – 7:15 am Scholars' Program Breakfast with IARS, AUA and SOCCA Leadership and Mentors <i>Regency C, Ballroom Level, West Tower</i>	10:45 am – 11:45 am Heroin PCA for Labor Pain: What Are You Smoking or How to Get Controversial Research through the IRB <i>Dusable, Third Floor, West Tower</i>	1:00 pm – 2:00 pm Lunch on Your Own	4:00 pm – 5:00 pm Scholars' Program: Priorities for Developing Researchers: Perspectives from the NIH and IARS <i>Regency C, Ballroom Level, West Tower</i>
6:30 am – 7:30 am Continental Breakfast with Exhibitors <i>Regency D & Foyer, Ballroom Level, West Tower</i>	10:45 am – 11:45 am Anticoagulant Therapy Management for Interventional Chronic Pain Procedures <i>Wright, Third Floor, West Tower</i>	2:00 pm – 2:45 pm What's New with the Management of Vasodilatory Shock in the ICU? <i>Crystal B, Lobby Level, West Tower</i>	4:00 pm – 5:00 pm AUA: Getting to the Heart of the Matter: Perioperative Focused Cardiac and Pulmonary Ultrasound, and The Hemodynamically Unstable Patient – Offered Twice! <i>Dusable, Third Floor, West Tower</i>
6:30 am – 4:00 pm and 6:00 pm – 7:30 pm Exhibits <i>Regency D & Foyer, Ballroom Level, West Tower</i>	10:45 am – 12:15 pm Scholars' Program: Shine Like a Rockstar: Different Paths to Success <i>Regency C, Ballroom Level, West Tower</i>	2:00 pm – 3:00 pm SOCCA: The Sweet Escape: A Complicated Case of DKA <i>Dusable, Third Floor, West Tower</i>	4:00 pm – 5:00 pm SOCCA: Perioperative Renal Replacement Therapy for the Anesthesiologist: Does It Make a Difference? <i>Wright, Third Floor, West Tower</i>
7:30 am – 9:00 am Opening General Session and T.H. Seldon Memorial Lecture: Personalizing Healthcare in the Era of Big Data Dr. Jeffrey R. Balser <i>Crystal AB, Lobby Level, West Tower</i>	11:15 am – 12:00 pm SOCCA: The Tele-Vision: Taking Care to the Patient and Expanding the Scope of the Intensivist <i>Crystal B, Lobby Level, West Tower</i>	2:00 pm – 3:00 pm Defining Acute Epiglottitis and Anesthetic Management in the Post-Haemophilus Influenzae Type B (Hib) Vaccination Era <i>Wright, Third Floor, West Tower</i>	4:00 pm – 4:45 pm Neurologic Complications Associated with Neuraxial Regional Anesthesia <i>Crystal B, Lobby Level, West Tower</i>
9:30 am – 9:40 am Introduction to the Scholars' Program and eSAS <i>Regency C, Ballroom Level, West Tower</i>	11:15 am – 12:45 pm Moderated Poster Discussion Session 02 <i>Riverside West, Exhibit Level, East Tower</i>	2:00 pm – 3:30 pm Moderated Poster Discussion Session 03 <i>Riverside West, Exhibit Level, East Tower</i>	4:00 pm – 5:30 pm Moderated Poster Discussion Session 04 <i>Riverside West, Exhibit Level, East Tower</i>
9:30 am – 10:30 am SNACC: Perioperative Management of Patient with Closed Head Injury for Non-Neurological Procedures <i>Dusable, Third Floor, West Tower</i>	11:15 am – 12:45 pm SNACC: The Microbiome and Brain Health: An Emerging Frontier of Perioperative Neuroscience <i>Regency A, Ballroom Level, West Tower</i>	2:00 pm – 3:30 pm Regional Anesthesia: An Evidence-Based Look at Controversies and Unknowns <i>Regency A, Ballroom Level, West Tower</i>	4:00 pm – 5:30 pm Investigating, Conceptualizing and Addressing Healthcare Disparity in Anesthesiology and Perioperative Medicine <i>Regency A, Ballroom Level, West Tower</i>
9:30 am – 10:30 am SOCCA: To Intubate or Not: Management of Post-Operative Acute Respiratory Failure <i>Wright, Third Floor, West Tower</i>	11:15 am – 12:45 pm Research Statistics for the Non-Statisticians <i>Regency B, Ballroom Level, West Tower</i>	2:00 pm – 3:30 pm SPAQI: Preoperative Management and Optimization Strategies <i>Crystal C, Lobby Level, West Tower</i>	4:00 pm – 5:30 pm Management of Patients with Pulmonary Hypertension <i>Regency B, Ballroom Level, West Tower</i>
9:30 am – 11:00 am Moderated Poster Discussion Session 01 <i>Riverside West, Exhibit Level, East Tower</i>	12:00 pm – 1:00 pm AUA: Why Study Time Doesn't Always Lead to Learning: How Do We Help the Struggling Trainee? Offered Twice! <i>Dusable, Third Floor, West Tower</i>	2:00 pm – 3:30 pm Detection of Sepsis – Beyond Culture <i>Regency B, Ballroom Level, West Tower</i>	5:00 pm – 5:45 pm SOCCA: Heart Failure with Preserved Ejection Fraction (HFpEF) as a Perioperative Risk Factor <i>Crystal B, Lobby Level, West Tower</i>
9:30 am – 11:00 am New Innovations in the Management of Postpartum Hemorrhage <i>Regency B, Ballroom Level, West Tower</i>	12:00 pm – 1:00 pm Taking Assent to New Heights: Do-Not-Resuscitate Status in Pediatric Palliative Care Procedures <i>Wright, Third Floor, West Tower</i>	2:00 pm – 5:00 pm Advanced Perioperative Ultrasound Workshop <i>Comiskey, Concourse Level, West Tower</i>	5:10 pm – 6:10 pm Scholars' Program: From the Editor's Desk: A No-Nonsense Guide to Successful Publications <i>Regency C, Ballroom Level, West Tower</i>
9:30 am – 11:00 am ASER: Enhanced Recovery Protocol Elements, What is the Level of Evidence? <i>Regency A, Ballroom Level, West Tower</i>	12:15 pm – 1:00 pm SPAQI: Perioperative Cardiac Risk Assessment and Management: The Internist's Perspective <i>Crystal B, Lobby Level, West Tower</i>	2:15 pm – 3:45 pm Scholars' Program: Moving Fluidly Across the Translational Spectrum: Current Opioid Crisis <i>Regency C, Ballroom Level, West Tower</i>	6:00 pm – 7:30 pm IARS, AUA and SOCCA Alignment Reception <i>Regency D & Foyer, Ballroom Level, West Tower</i>
9:30 am – 12:00 pm AUA: Mitochondria and Bioenergetics in Health and Disease: It's Not Just a Power Failure! <i>Crystal C, Lobby Level, West Tower</i>	12:30 pm – 2:00 pm Scholars' Program Lunch Session: Resilience Personified: Transitioning from Trainee to Junior Faculty and Beyond <i>Regency C, Ballroom Level, West Tower</i>	2:30 pm – 3:30 pm AUA: Why Study Time Doesn't Always Lead to Learning: How Do We Help the Struggling Trainee? Offered Twice! <i>Ogden, Third Floor West Tower</i>	
9:30 am – 12:30 pm Focused Cardiovascular Ultrasound – It's for Everyone! <i>Wrigley, Concourse Level, West Tower</i>		2:55 pm – 3:40 pm Anesthesia for Children with Inborn Errors of Metabolism: Opening up the Black Box <i>Crystal B, Lobby Level, West Tower</i>	
9:40 am – 10:30 am Scholars' Program: Moving from Insight to Scientific Premise to Research Program and What This is All About <i>Regency C, Ballroom Level, West Tower</i>		3:30 pm – 4:00 pm Break with Exhibitors <i>Regency D & Foyer, Ballroom Level, West Tower</i>	
		3:30 pm – 6:00 pm SAGA: Perioperative Care of the Frail or High-risk Older Patient: Current Knowledge and Future Directions <i>Crystal C, Lobby Level, West Tower</i>	

Session Type Key

OPENING GENERAL SESSION	AWARDS SESSION	EXHIBITS	MODERATED POSTER DISCUSSION SESSIONS	PANELS	PROBLEM-BASED LEARNING DISCUSSIONS
RECEPTIONS/NETWORKING	REVIEW COURSE LECTURES	SCHOLARS' PROGRAM	SYMPOSIA	WORKSHOPS	SUBSPECIALTY SOCIETY MEETINGS

Program Schedule • Sunday, April 29

Registration is open today from 6:00 am – 6:00 pm in the Crystal Foyer, Lobby Level, West Tower. See details for this day in the program (refer to the Table of Contents for the exact page number).

6:00 am – 10:00 am	10:00 am – 1:00 pm	1:00 pm – 4:00 pm	4:00 pm – 8:00 pm
6:30 am – 7:30 am Continental Breakfast with Exhibitors <i>Regency D & Foyer, Ballroom Level, West Tower</i>	10:25 am – 11:10 am Cerebrospinal Fluid Drainage Catheters in Endovascular and Open Aortic Surgery <i>Crystal B, Lobby Level, West Tower</i>	1:00 pm – 2:00 pm Lunch On Your Own	4:00 pm – 4:45 pm ASER: Enhanced Recovery Program: Key Components, Implementation and Outcomes <i>Crystal B, Lobby Level, West Tower</i>
6:30 am – 4:00 pm Exhibits <i>Regency D & Foyer, Ballroom Level, West Tower</i>	10:45 am – 11:45 am Modern Pain Management Concepts for Patients Undergoing Thoracic Surgery <i>Wright, Third Floor, West Tower</i>	2:00 pm – 2:45 pm Perioperative Venous Thromboembolism: A Review <i>Crystal B, Lobby Level, West Tower</i>	4:00 pm – 5:00 pm Acute Pulmonary Hypertensive Crisis: Integrating Old and New Hemodynamic Monitoring at the Bedside <i>Dusable, Third Floor, West Tower</i>
7:30 am – 9:00 am Moderated Poster Discussion Session 05 <i>Riverside West, Exhibit Level, East Tower</i>	11:20 am – 12:05 pm Neurological Complications of Cardiovascular Diseases <i>Crystal B, Lobby Level, West Tower</i>	2:00 pm – 3:00 pm How Should I Manage My Patient's Regional Anesthesia-Associated Neurologic Complication? <i>Dusable, Third Floor, West Tower</i>	4:00 pm – 5:00 pm The Difficult Airway in Obstetrics <i>Wright, Third Floor, West Tower</i>
7:30 am – 9:00 am Understanding and Making Use of the Electroencephalogram During General Anesthesia <i>Crystal A, Lobby Level, West Tower</i>	11:30 am – 1:00 pm Moderated Poster Discussion Session 06 <i>Riverside West, Exhibit Level, East Tower</i>	2:00 pm – 3:30 pm Moderated Poster Discussion Session 07 <i>Riverside West, Exhibit Level, East Tower</i>	4:00 pm – 5:30 pm SOCRA: 50 Years of ARDS: An Update <i>Regency B, Ballroom Level, West Tower</i>
7:30 am – 9:00 am Physician Wellness in Hospital Medicine: Thriving, Not Simply Surviving <i>Regency B, Ballroom Level, West Tower</i>	11:30 am – 1:00 pm Anesthesiologists within the U.S. Veterans Health Administration: Contributions to Anesthesia and Perioperative Medicine <i>Crystal A, Lobby Level, West Tower</i>	2:00 pm – 3:30 pm eSAS: Updates to Perioperative Outcomes Research: So Far We've Come; So Far to Go <i>Regency A, Ballroom Level, West Tower</i>	4:00 pm – 5:30 pm Ketamine for Acute Pain, Chronic Pain, and Psychiatric Disorders: An Evidence-based Review of Efficacy, Safety, and Logistics <i>Crystal C, Lobby Level, West Tower</i>
7:30 am – 9:00 am WFSA: Universal Access and Safe Anesthesia: Global Anesthesia Workforce <i>Regency A, Ballroom Level, West Tower</i>	11:30 am – 1:00 pm SmartTots: Neurotoxicity in Children Exposed to Anesthesia <i>Regency A, Ballroom Level, West Tower</i>	2:00 pm – 3:30 pm Healthcare Quality Infrastructure: Too Much Stick, Not Enough Carrot <i>Regency B, Ballroom Level, West Tower</i>	4:00 pm – 5:30 pm Interpreting and Applying Systematic Reviews in Perioperative Medicine <i>Crystal A, Lobby Level, West Tower</i>
8:00 am – 8:45 am Airway Management of the Obstetric Patient: What's New? <i>Crystal B, Lobby Level, West Tower</i>	11:30 am – 1:00 pm Innovations in Anesthesiology Resident Education <i>Regency B, Ballroom Level, West Tower</i>	2:00 pm – 3:30 pm A&A Meet the Editors – No CME <i>Crystal A, Lobby Level, West Tower</i>	5:00 pm – 5:45 pm Ultrasound Findings in Intraoperative Anesthetic Emergencies <i>Crystal B, Lobby Level, West Tower</i>
8:00 am – 9:00 am A New Research Ethical Paradigm for Health Services Research and Cluster Randomized Trials <i>Dusable, Third Floor, West Tower</i>	12:15 pm – 1:00 pm Perioperative Management of Hyperglycemia in Noncardiac Surgery: Who, How and Why? <i>Crystal B, Lobby Level, West Tower</i>	2:00 pm – 5:00 pm Teaching Anesthesia Teams to Perform After Action Reviews: Lessons Learned from Aviation and Healthcare <i>Gold Coast, Concourse Level, West Tower</i>	6:30 pm – 8:00 pm Dine-Around Session 2 <i>Group 7: The Dearborn, Group 8: MingHin Cuisine, Group 9: Labriola, Group 10: Beatrix, Group 11: Imperial Laminian</i>
8:00 am – 9:00 am Ventricular Assist Devices: Anesthetic Management of Patients Presenting for Noncardiac Procedures <i>Wright, Third Floor, West Tower</i>		2:30 pm – 3:30 pm SNACC: Anesthesia for Acute Stroke: Updates in Management <i>Wright, Third Floor, West Tower</i>	
9:00 am – 9:30 am Break with Exhibitors <i>Regency D & Foyer, Ballroom Level, West Tower</i>		2:55 pm – 3:40 pm TAS: The Practicalities of Delivering Massive Transfusions in Trauma Resuscitation <i>Crystal B, Lobby Level, West Tower</i>	
9:30 am – 10:15 am LVADs and Noncardiac Surgery: What to Do When They Come to Your Operating Room <i>Crystal B, Lobby Level, West Tower</i>		3:30 pm – 4:00 pm Break with Exhibitors <i>Regency D & Foyer, Ballroom Level, West Tower</i>	
9:30 am – 10:30 am TAS: Anesthetic Considerations in Blast Injury <i>Dusable, Third Floor, West Tower</i>		3:30 pm – 6:00 pm CAS: Social Accountability: How Can Anesthesiology Face the Challenge? No Anesthesia? Whose Problem is It? <i>Regency A, Ballroom Level, West Tower</i>	
9:30 am – 10:30 am AUA: Getting to the Heart of the Matter: Perioperative Focused Cardiac and Pulmonary Ultrasound, and The Hemodynamically Unstable Patient Offered Twice! <i>Wright, Third Floor, West Tower</i>			
9:30 am – 11:00 am Kosaka Best of Meeting Abstract Awards Session <i>Acapulco-Hong Kong-Toronto, Ballroom Level, West Tower</i>			
9:30 am – 12:00 pm International Science Symposium: Designing Drugs: Transforming Anesthesiology Practice <i>Crystal C, Lobby Level, West Tower</i>			
9:30 am – 12:30 pm Truncal Blocks Workshop: An Enhanced Recovery After Surgery (ERAS) Approach <i>Wrigley, Concourse Level, West Tower</i>			
9:45 am – 11:15 am Increasing Diversity and Gender Equivalency in Your Department <i>Regency B, Ballroom Level, West Tower</i>			
9:45 am – 11:15 am Can Human Factors and Cognitive Science Make Medicine and Anesthesiology Safer? <i>Regency A, Ballroom Level, West Tower</i>			

Session Type Key

OPENING GENERAL SESSION	AWARDS SESSION	EXHIBITS	MODERATED POSTER DISCUSSION SESSIONS	PANELS	PROBLEM-BASED LEARNING DISCUSSIONS
RECEPTIONS/NETWORKING	REVIEW COURSE LECTURES	SCHOLARS' PROGRAM	SYMPOSIA	WORKSHOPS	SUBSPECIALTY SOCIETY MEETINGS

Program Schedule • Monday, April 30

Registration is open today from 6:00 am – 6:00 pm in the Crystal Foyer, Lobby Level, West Tower. See details for this day in the program (refer to the Table of Contents for the exact page number).

6:00 am – 10:00 am	10:00 am – 1:00 pm	1:00 pm – 4:00 pm	4:00 pm – 8:00 pm
6:30 am – 7:30 am Continental Breakfast with Exhibitors <i>Regency D & Foyer, Ballroom Level, West Tower</i>	10:25 am – 11:10 am Safety Reporting, Checklists, and Root Cause Analysis: What Are They Good For? Absolutely Nothing? <i>Crystal B, Lobby Level, West Tower</i>	1:00 pm – 2:00 pm Lunch on Your Own	4:00 pm – 4:45 pm Healthcare Reform Update: The Impact of MACRA on the Practice of Anesthesia <i>Crystal B, Lobby Level, West Tower</i>
6:30 am – 9:30 am Exhibits <i>Regency D & Foyer, Ballroom Level, West Tower</i>	11:20 am – 12:05 pm Principles of Lean Management and Systems Engineering for Anesthesiologists <i>Crystal B, Lobby Level, West Tower</i>	2:00 pm – 2:45 pm Biases in Education and Research and their Impact on Patient Safety <i>Crystal B, Lobby Level, West Tower</i>	4:00 pm – 5:00 pm SABM: Management of DOAC's in the Patient Blood Management (PBM) Arena <i>Dusable, Third Floor, West Tower</i>
6:30 am – 7:30 am Innovating the Attendee Experience Focus Group <i>Toronto Room, Ballroom Level, West Tower</i>	11:30 am – 1:00 pm Moderated Poster Discussion Session 11 <i>Riverside West, Exhibit Level, East Tower</i>	2:00 pm – 3:00 pm Hip Fracture in a Patient with Severe Pulmonary Hypertension <i>Dusable, Third Floor, West Tower</i>	4:00 pm – 5:30 pm Moderated Poster Discussion Session 13 <i>Riverside West, Exhibit Level, East Tower</i>
7:30 am – 9:00 am Moderated Poster Discussion Session 09 <i>Riverside West, Exhibit Level, East Tower</i>	11:30 am – 1:00 pm Impact of Anesthesia in Patients with Concussion <i>Regency A, Ballroom Level, West Tower</i>	2:00 pm – 3:30 pm Moderated Poster Discussion Session 12 <i>Riverside West, Exhibit Level, East Tower</i>	4:00 pm – 5:30 pm SAGA: Your Patient has Memory Problems: Now What? <i>Regency A, Ballroom Level, West Tower</i>
7:30 am – 9:00 am Innovative Training for Future Leaders in Anesthesiology <i>Crystal A, Lobby Level, West Tower</i>	11:30 am – 1:00 pm eSAS: The "I" in "Team": Interdisciplinary Thinking for Whole-Patient Perioperative Care <i>Regency B, Ballroom Level, West Tower</i>	2:00 pm – 3:30 pm Rise of the Machines: Mechanical Support for Organ Failure <i>Regency A, Ballroom Level, West Tower</i>	4:00 pm – 5:30 pm APSF: The Role of Implementation Science in Patient Safety <i>Regency B, Ballroom Level, West Tower</i>
7:30 am – 9:00 am SAMBA: The Perioperative Management of the Heroin/Fentanyl-Addicted Patient: The Epidemic is Upon Us! <i>Regency A, Ballroom Level, West Tower</i>	11:30 am – 1:00 pm STA: Leveraging Machine Learning to Improve Patient Care: What is Involved, and What It Really Means <i>Crystal A, Lobby Level, West Tower</i>	2:00 pm – 3:30 pm ISPCOP: Morbid Obesity – Recent Advances and New Insights in the Perioperative Anesthetic Care of Affected Patients <i>Crystal A, Lobby Level, West Tower</i>	4:55 pm – 5:40 pm SPA: Perioperative Pain Management in Children with Sleep-Disordered Breathing: A Difficult Balancing Act <i>Crystal B, Lobby Level, West Tower</i>
7:30 am – 9:00 am Data Driven Quality Improvement <i>Regency B, Ballroom Level, West Tower</i>	12:00 pm – 1:00 pm The Preoperative Anesthesia Clinic Improves Patient Recruitment for Clinical Research <i>Dusable, Third Floor, West Tower</i>	2:00 pm – 3:30 pm SABM: Review of the Top Blood Management Publications in A&A <i>Regency B, Ballroom Level, West Tower</i>	
8:00 am – 8:45 am Blue Babies: How Do They Survive? <i>Crystal B, Lobby Level, West Tower</i>	12:15 pm – 1:00 pm Women in Medicine and Leadership: Glass Ceiling, Sticky Floors, and Everything in Between <i>Crystal B, Lobby Level, West Tower</i>	2:30 pm – 3:30 pm Clinical Research for the Busy Anesthesia Provider: When Research is "Not Your Thing" <i>Wright, Third Floor, West Tower</i>	
9:00 am – 9:30 am Break with Exhibitors <i>Regency D & Foyer, Ballroom Level, West Tower</i>		3:30 pm – 4:00 pm Break in Poster Room <i>Riverside West, Exhibit Level, East Tower</i>	
9:30 am – 10:15 am Medicine for Care of Older Persons and Emergency Laparotomy: The Lessons and How We Can Improve Care <i>Crystal B, Lobby Level, West Tower</i>		3:30 pm – 6:00 pm A Primer on Glial Cells for the Anesthesiologist: Functional Contribution to Stroke, Pain, Post-Operative Cognitive Dysfunction, and Alzheimer's Disease <i>Crystal C, Lobby Level, West Tower</i>	
9:30 am – 10:30 am Ketamine for Perioperative Analgesia: Just the Facts <i>Dusable, Third Floor, West Tower</i>			
9:30 am – 12:00 pm A&A: Acute Kidney Injury in the Perioperative Period: From Bench to Bedside <i>Crystal C, Lobby Level, West Tower</i>			
9:30 am – 12:30 pm SAGA: Interactive Bootcamp for Brief Perioperative Cognitive Assessment <i>Comiskey, Concourse Level, West Tower</i>			
9:45 am – 11:15 am Moderated Poster Discussion Session 10 <i>Riverside West, Exhibit Level, East Tower</i>			
9:45 am – 11:15 am Clinical Informatics Training for Anesthesiologists <i>Regency A, Ballroom Level, West Tower</i>			
9:45 am – 11:15 am So You Want To Be A Leader: A How-To Guide <i>Regency B, Ballroom Level, West Tower</i>			

Session Type Key

OPENING GENERAL SESSION	AWARDS SESSION	EXHIBITS	MODERATED POSTER DISCUSSION SESSIONS	PANELS	PROBLEM-BASED LEARNING DISCUSSIONS
RECEPTIONS/NETWORKING	REVIEW COURSE LECTURES	SCHOLARS' PROGRAM	SYMPOSIA	WORKSHOPS	SUBSPECIALTY SOCIETY MEETINGS

Program Schedule • Tuesday, May 1

Registration is open today from 7:00 am – 12:00 pm in the Crystal Foyer, Lobby Level, West Tower. See details for this day in the program (refer to the Table of Contents for the exact page number).

6:00 am – 9:00 am	9:00 am – 11:00 am	11:00 am – 1:00 pm	1:00 pm – 6:00 pm
7:00 am – 8:00 am Continental Breakfast <i>Crystal Foyer, Lobby Level, West Tower</i>	9:00 am – 9:45 am Advanced Teaching Skills For The OR: How To Teach Effectively When Faced With High Clinical Workload and Lack Of Time? <i>Regency C, Lobby Level, West Tower</i>	11:00 am – 11:45 am SAGA: The Dementia Brain: Considerations for Anesthesiologists <i>Regency C, Lobby Level, West Tower</i>	1:00 pm – 4:00 pm Clinical Research Consortium: Collaborative Research Initiative for Perioperative Clinical and Translational Science Meeting <i>Regency B, Ballroom Level, West Tower</i>
8:00 am – 8:45 am SASM: Postoperative Respiratory Depression: Who? When? How? Knowledge that Anesthesiologists Should Have <i>Regency C, Lobby Level, West Tower</i>	9:15 am – 10:15 am Emergency TEVAR Patient Taking a Novel Oral Anticoagulant: Best Evidence for Coagulation Management <i>Dusable, Third Floor, West Tower</i>	12:00 pm – 1:00 pm Lunch on Your Own	1:00 pm – 5:30 pm Society for the Advancement of Transplant Anesthesia (SATA) 2nd Symposium <i>Regency A, Ballroom Level, West Tower</i>
8:00 am – 9:00 am Simplifying the ESC and AHA Guidelines for Perioperative Management for Noncardiac Surgery: A Clinician's Approach <i>Dusable, Third Floor, West Tower</i>	9:45 am – 11:15 am A National Strategy to Reduce the Opioid Epidemic: A Report from the National Academies of Sciences, Engineering and Medicine <i>Regency A, Ballroom Level, West Tower</i>		
8:00 am – 9:30 am Leveraging Mobile Apps for Medical Education <i>Regency B, Ballroom Level, West Tower</i>	9:45 am – 11:15 am SEA: Managing Professionalism Issues in the Workplace <i>Regency B, Ballroom Level, West Tower</i>		
8:00 am – 9:30 am eSAS: Practical Clinical Approaches to Prevention of Postoperative Delirium: A Review of Modern Evidence <i>Regency A, Ballroom Level, West Tower</i>	10:00 am – 10:45 am The Adult Patient with Congenital Heart Disease Presenting for Noncardiac Surgery <i>Regency C, Lobby Level, West Tower</i>		
	10:30 am – 11:30 am Management of a Patient with Pulmonary Hypertension for Noncardiac Surgery: Anesthetic Implications <i>Dusable, Third Floor, West Tower</i>		

Session Type Key	OPENING GENERAL SESSION	AWARDS SESSION	EXHIBITS	MODERATED POSTER DISCUSSION SESSIONS	PANELS	PROBLEM-BASED LEARNING DISCUSSIONS
	RECEPTIONS/NETWORKING	REVIEW COURSE LECTURES	SCHOLARS' PROGRAM	SYMPOSIA	WORKSHOPS	SUBSPECIALTY SOCIETY MEETINGS

CALL FOR SESSION PROPOSALS

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Improving Health through Discovery and Education

May 18 – May 21, 2019

Fairmont The Queen Elizabeth Hotel
Montréal, Quebec, Canada

Session Proposals Open End of April 2018!
Submission Deadline: Monday, July 9, 2018

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Daily Schedule-at-a-Glance

6:00 am – 6:00 pm	Registration	9:30 am – 12:30 pm	SAGA Workshop: <i>Interactive Bootcamp for Brief Cognitive Assessment</i>
6:30 am – 9:30 am	Tabletop Exhibits	2:00 pm – 5:00 pm	Workshop: <i>Transformational Leadership: You're Not A Born Leader!</i>
7:30 am – 5:40 pm	Concurrent Sessions <ul style="list-style-type: none"> • Moderated Poster Discussion Sessions • Panels • Problem-Based Learning Discussion • Review Course Lectures 	3:30 pm – 6:00 pm	Symposium: <i>A Primer on Glial Cells for the Anesthesiologist: Functional Contribution to Stroke, Pain, Post-Operative Cognitive Dysfunction, and Alzheimer's Disease</i>
9:30 am – 12:00 pm	A&A Symposium: <i>Acute Kidney Injury in the Perioperative Period: From Bench to Bedside</i>		

7:30 am – 9:00 am

P-24: Innovative Training for Future Leaders in Anesthesiology

Moderator: Thomas E. Cox, MD, Professor, Vice-Chair of Education, and Chief of Pediatric Anesthesiology, Department of Anesthesiology, Washington University School of Medicine in St. Louis; St. Louis Children's Hospital, St. Louis, Missouri

Panelists:

■ Innovative Training of Clinician-Educators

Pedro P. Tanaka, MD, PhD, MACM, Clinical Professor, Anesthesiology, Perioperative and Pain Medicine, Stanford University School of Medicine, Stanford, California

■ Innovative Training of Experts in Perioperative Medicine

Timothy E. Miller, MB ChB, FRCA, Chief, Division of General, Vascular, and Transplant Anesthesiology, Director, Perioperative Medicine Fellowship, Associate Professor of Anesthesiology, Duke University School of Medicine, Durham, North Carolina; President-Elect, ASER; Associate Editor, *Anesthesia & Analgesia*

■ Innovative Training of Clinician-Scientists

Aaron Norris, MD, PhD, Instructor of Anesthesiology, Chair, Scholarship Oversight Committee, Washington University School of Medicine in St. Louis, St. Louis, Missouri; Co-Vice President, eSAS

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review the pertinent Accreditation Council for Graduate Medical Education (ACGME) and The American Board of Anesthesiology (ABA) policies and procedures for innovative program application and approval; (2) Identify current innovative programs for training future clinician-scientists, educators, and leaders in perioperative medicine; and (3) Discuss future directions for innovative training program design and implementation to promote the development of future leaders in anesthesiology.

Subspecialty Key: EEP, PA, TCSEM

Session Type Key

P=Panel
SCHOLAR=Scholars' Program *

PBLD=Problem-Based Learning Discussion*
SYM=Symposium

RCL=Review Course Lecture
W=Workshop*

Anesthesia Subspecialty Key for Education Sessions

AM Airway Management	EEP Economics, Education and Policy	O Obesity	PS Patient Safety
AMB Ambulatory Anesthesia	GA Geriatric Anesthesia	OB Obstetric Anesthesiology	RA Regional Anesthesia
AP Anesthetic Pharmacology	GH Global Health	PA Perioperative Anesthesia	RES Respiration
BS Bench Science	L Liver	PAP Pain and Addiction Pathways	SM Sleep Medicine
BLD Blood Management	MPC Metabolism and Perioperative Care	PED Pediatric Anesthesiology	TCSEM Technology, Computing and Simulation, Equipment Monitoring
CA Cardiovascular Anesthesiology	NR Neuroscience in Anesthesiology and Perioperative Medicine	PM Pain Medicine	T Trauma
CC Critical Care		PME Pain Mechanisms	

7:30 am – 9:00 am (continued)



P-25: The Perioperative Management of the Heroin/Fentanyl Addicted Patient: The Epidemic is Upon Us!

Moderator: Corey S. Scher, MD, Clinical Professor, Department of Anesthesiology, Perioperative Care, and Pain Medicine, New York University School of Medicine, New York, New York

Panelists:

- **The Ongoing Understanding of the Neurobiology of Heroin Addiction**
Corey S. Scher, MD
- **Intraoperative Strategy of the Heroin/Fentanyl Addict**
Levon Capan, MD, Professor, Department of Anesthesiology, Perioperative Care and Pain Medicine, New York University School of Medicine; Associate Director of Anesthesia, Bellevue Hospital Center, New York, New York
- **Postoperative Management including Pain Control in the Addict Who Refused Regional Anesthesia**
Alan Kaye, MD, PhD, DABA, DABPM, DABIPP, Chairman and Program Director, Department of Anesthesiology, Professor of Anesthesiology, The Louisiana State University School of Medicine, New Orleans, Louisiana; Editor-in-Chief, *Pain Physician Journal*
- **Preoperative Assessment of the Heroin Addict**
Ethan O. Bryson, MD, Associate Professor, Anesthesiology, Perioperative and Pain Medicine, Associate Professor, Psychiatry, The Icahn School of Medicine at Mount Sinai, New York, New York

Learner Objectives: After participating in this activity, the learner will be able to: (1) Evaluate what in the social history should be asked that is relevant for anesthesiology; (2) Identify essential lab tests that must be ordered preoperatively, including the echo cardiogram, chest x-ray, and a comprehensive blood evaluation, including Hepatitis C and HIV status; (3) Identify essential tests that must be included in preoperative testing by participating in this activity; (4) Formulate a plan that addresses the opioid needs during the hospitalization; and (5) Compose data to decide whether ambulatory patients should remain in the hospital in a monitored setting.

Subspecialty Key: AMB, AP, BLD, CC, CA, PM, PS

7:30 am – 9:00 am (continued)

P-26: Data Driven Quality Improvement

Moderator: Nirav J. Shah, MD, Assistant Professor, Anesthesiology, University of Michigan Medicine, Ann Arbor, Michigan

Panelists:

- **From Aspiration to Action: The Journey of MPOGs Quality Improvement Initiative**
Nirav J. Shah, MD
- **Using Novel Decision Support Tools to Support Quality Improvement Initiatives**
Leif Saager, MD, MMM, FACHE, FCCM, Assistant Professor, Anesthesiology, University of Michigan Medicine, Ann Arbor, Michigan
- **Implementing Data Driven Quality Improvement Programs in Large Group Practices**
Richard Dutton, MD, MBA, Chief Quality Officer, United States Anesthesia Partners, Inc. (USAP), Houston, Texas
- **AIRS: Building Quality Improvement Applications Integrated with Leading EHR Vendors**
Patrick Guffey, MD, Associate Professor, Anesthesiology, University of Colorado Denver School of Medicine, Children's Hospital Colorado, Aurora, Colorado

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss three different types of quality improvement infrastructure: large group practices, hospitals that are members of the Multicenter Perioperative Outcomes Group (MPOG), and hospitals that have implemented Epic Electronic Health Records (EHR); (2) Describe the breadth of decision support tools (from validated, frequently used tools to experimental, leading-edge ones) that enable practice leaders and quality improvement champions to improve performance; and (3) Formulate a plan to enhance the quality improvement program at the learner's institution based on the infrastructure, processes, experience, and tools described by the panelists.

Subspecialty Key: EEP, PS, TCSEM

8:00 am – 8:45 am

RCL-16: Blue Babies: How Do They Survive?

Presenter: Minal J. Menezes, PhD, Research Officer/
Senior Lecturer, Department of Anaesthesia, Sydney
Medical School, University of Sydney, Sydney, Australia

Learner Objectives: After participating in this activity, the learner will be able to: (1) Define nitrate physiology in both the adaptations to, and surgical management of, congenital heart disease; (2) Discuss basic research in anesthesiology and organize the process of building a successful research proposal and employing it in a timely manner; (3) Describe new technology like side stream dark microscopy and its scope in anesthesia; and (4) Assess the benefits of building collaborative studies involving multidisciplinary departments.

Subspecialty Key: AM, CA, PA, PED

8:00 am – 9:00 am

PBLD-20: End of Life Option Act: What Role Do Pediatric Practitioners Have in the Provision of Aid-in-Dying Drugs

Presenter: Gabriel E. Sarah, MD, Assistant Clinical
Professor, Anesthesiology, OMFS Pediatric Anesthesia
Clerkship, University of California, San Francisco School of
Medicine, San Francisco, California

Learner Objectives: After participating in this activity, the learner will be able to: (1) Assess the implications of the California End of Life Option Act and others like it; (2) Identify primary concerns of pediatric anesthesiologists surrounding the implementation of end of life option acts nationally; (3) Evaluate the importance of the implementation of rules and regulations surrounding end of life options planning; and (4) Evaluate personal feelings regarding the ethics of pediatric healthcare practitioners providing patients with aid-in-dying drugs.

Subspecialty Key: CC, EEP, PM, PED

9:30 am – 10:15 am

RCL-17: Medicine for Care of Older Persons and Emergency Laparotomy: The Lessons and How We Can Improve Care

Presenters: Geeta Aggarwal, MBBS, MRCP, FRCA,
Consultant Anaesthetist, Anaesthetics, Royal Surrey County
Hospital, Surrey, England

Nial Quiney, MBBS, FRCA, Consultant Anaesthetist, Royal
Surrey County Hospital, Guilford, Surrey, England

Learner Objectives: After participating in this activity, the learner will be able to: (1) Assess how to improve care for elderly patients in their hospital; (2) Assess and measure outcomes for emergency general surgery; and (3) Formulate a care bundle that has been proven to reduce mortality for emergency surgery.

Subspecialty Key: CC, GA, PA

9:30 am – 10:30 am

PBLD-21: Ketamine for Perioperative Analgesia: Just the Facts

Presenter: Steven Porter, MD, Assistant Professor,
Anesthesiology and Perioperative Medicine, Program
Director, Regional Anesthesia and Acute Pain Medicine
Fellowship, Mayo Clinic College of Medicine and Science,
Jacksonville, Florida

Learner Objectives: After participating in this activity, the learner will be able to: (1) Apply an evidence-based rationale dosing strategy for perioperative ketamine for acute pain; (2) Discuss the safety and side effect profile of ketamine infusions in the hospital setting; (3) Identify the necessary logistical support for ketamine use outside of the operating room; and (4) Discuss psychiatric conditions that may benefit from perioperative ketamine.

Subspecialty Key: PM, PME, PA, PS



Cloud Gate is a public sculpture, by Indian-born British artist Sir Anish Kapoor, that is the centerpiece of Millennium Park.

9:30 am – 12:00 pm



SYM-04: Acute Kidney Injury in the Perioperative Period: From Bench to Bedside



Introduction: **Jean-Francois Pittet, MD**, David Hill Chestnut Endowed Professor of Anesthesiology and Perioperative Medicine, Director, Organ Injury and Trauma Research, The University of Alabama at Birmingham, Birmingham, Alabama; Editor-in-Chief, *Anesthesia & Analgesia* and *A&A Practice*

Moderator: **Alexander Zarbock, MD**, Clinician Scientist, Director and Chair, Department of Anesthesiology and Critical Care Medicine, University of Münster Faculty of Medicine, University Hospital Münster, Münster, Germany; Executive Section Editor, Basic Science, *Anesthesia & Analgesia*

Presenters:

- **Prevention of Acute Kidney Injury (AKI)**
Alexander Zarbock, MD
- **Definition and Epidemiology of Surgery Associated AKI**
Eric Hoste, MD, PhD, Chair, Acute Kidney Injury Section of ESICM, University of Ghent Faculty of Medicine and Health Sciences, Ghent, Belgium
- **Pathophysiology of AKI**
John A. Kellum, MD, FACP, MCCM, Tenured Professor, Critical Care Medicine, Chair of Critical Care Research, Professor of Medicine, Bioengineering, and Clinical and Translational Science, Director, Center for Critical Care Nephrology, Vice Chair for Research, Department of Critical Care Medicine, Director, Center for Assistance in Research Using eRecord (CARE), University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania
- **Oliguria: Physiologic or Pathologic Response**
Jay Koyner, MD, Associate Professor of Medicine, Department of Medicine, The University of Chicago Medicine, Chicago, Illinois

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the role of AKI in perioperative medicine; (2) Discuss the role of novel damage biomarkers in diagnosing AKI; (3) Assess the importance of oliguria during surgery; and (4) Formulate strategies to prevent surgery associated AKI.

Subspecialty Key: CC, PA, PS

9:30 am – 12:30 pm

SAGA

W-05: Interactive Bootcamp for Brief Perioperative Cognitive Assessment

Taking a few minutes to assess the brain is particularly important given the growing number of older adults electing surgery and the rise of dementia internationally. For this workshop, clinical neuropsychologists who specialize in dementia assessment and perioperative cognitive change will conduct an interactive workshop for anesthesiologists interested in sharpening their skills in rapid pre- and post-operative cognitive-behavioral assessment.

Workshop Leader: **Catherine Price, PhD, ABPP/CN**, Associate Professor/Paul Satz Term Professor, Clinical and Health Psychology/Anesthesiology, University of Florida College of Medicine, Gainesville, Florida

Presenters:

- **Tania Giovannetti, PhD**, Associate Professor, Department of Psychology, Temple University, Philadelphia, Pennsylvania
- **Melissa Lamar, PhD**, Associate Professor, Department of Neurological Sciences, Rush Medical College, Chicago, Illinois
- **Catherine Price, PhD, ABPP/CN**

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the basics of administration for brief behavioral tools and common screeners for assessing general cognitive impairment, memory, and executive function; (2) Discuss the basics of interpretation for these brief behavioral assessment tools; (3) Describe common forms of test errors produced by patients with different dementing disorders; and (4) Discuss which forms of cognitive impairment are predictive of negative outcome after participating in a series of short TED-talks involving case vignettes followed by practice on "pseudopatients" with distinct cognitive profiles.

Subspecialty Key: GA, PA

9:45 am – 11:15 am

P-27: Clinical Informatics Training for Anesthesiologists

Moderator: Richard H. Epstein, MD, Professor of Clinical Anesthesiology, Director, Clinical Anesthesiology, Anesthesia Information Systems, University of Miami Miller School of Medicine, Miami, Florida

Panelists:

- **Data Quality and Access Issues Related to Publishing from Electronic Health Record Systems**
Richard H. Epstein, MD

- **Data Issues in Converting from an Institutionally Maintained Enterprise Health Record System to a Commercial System**
Jonathan Wanderer, MD, Associate Professor of Anesthesiology, Division of Multispecialty Adult Anesthesiology, Associate Professor of Biomedical Informatics, Medical Director, Vanderbilt Anesthesiology and Perioperative Informatics Research (VAPIR) Division, Medical Director of Procedure Preparation Center Vanderbilt University School of Medicine, Nashville, Tennessee; Associate Editor, *Anesthesia & Analgesia*

- **Challenges of Data Access from Commercial Enterprise Health Record Systems**
Karl Poterack, MD, Assistant Professor of Anesthesiology, Medical Director, Applied Clinical Informatics, Center for Translational Informatics and Knowledge Management, Mayo Clinic College of Medicine and Science, Phoenix, Arizona

- **Building a Data Warehouse for Efficient Use of Enterprise Health Record System Data**
Ira Hofer, MD, Director, Division of Bioinformatics and Analytics, Department of Anesthesiology and Perioperative Medicine, Director, Center of Excellence for Perioperative Analytics, University of California, Los Angeles David Geffen School of Medicine, Los Angeles, California

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the issues related to providing specifications or pulling research data from electronic health record systems; (2) Compare the various options to achieve expertise in clinical informatics and analytics; and (3) Interpret how an anesthesia department achieved extremely high research productivity using its anesthesia information system data.

Subspecialty Key: EEP, PA, TCSEM

9:45 am – 11:15 am (continued)

P-28: So You Want to Be a Leader: A How-To Guide

Moderator: Ronald Pearl, MD, PhD, Dr. Richard K. and Erika N. Richards Professor, Anesthesiology, Perioperative and Pain Medicine, Chair, Anesthesia Department, Member, Cardiovascular Institute, Stanford University School of Medicine, Stanford, California

Panelists:

- **Creating and Implementing a Vision**
Colleen Koch, MD, MS, MBA, FACC, Mark C. Rogers Professor and Chair, Department of Anesthesiology and Critical Care Medicine, Johns Hopkins School of Medicine, Baltimore, Maryland; Member-at-Large and Chair-Elect, IARS
- **Basics of Negotiation**
Warren S. Sandberg, MD, PhD, Professor and Chair, Department of Anesthesiology, Vanderbilt University School of Medicine, Nashville, Tennessee
- **Dealing with Setbacks and Personal Conflicts**
Keith A. (Tony) Jones, MD, Alfred Habeeb Professor of Anesthesiology and Perioperative Medicine; President-UA Health Services Foundation; Chief Physician Executive-UAB Medicine; Senior Associate Dean for Clinical Affairs-School of Medicine, Birmingham, Alabama
- **Leadership Training**
James P. Rathmell, MD, Leroy D. Vandam Professor, Anaesthesia, Harvard Medical School, Head, Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe specific skills required to be successful in leadership roles; (2) Create and employ a vision; (3) Demonstrate the skills of negotiation and dealing with interpersonal conflicts; and (4) Describe options for obtaining leadership training.

Subspecialty Key: EEP

10:25 am – 11:10 am

RCL-18: Safety Reporting, Checklists, and Root Cause Analysis: What Are They Good For? Absolutely Nothing?



Presenter: Jonathan B. Cohen, MD, MS, Department Safety Officer, H. Lee Moffitt Cancer Center and Research Institute, Tampa, Florida

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the evolution and application of safety reporting, checklists, and root cause analysis from high-reliability organizations to healthcare; (2) Identify components of an effective safety reporting system; (3) Summarize essential elements of perioperative checklist implementation; and (4) Assess the effectiveness of actions intended to address hazards identified by root cause analyses.

Subspecialty Key: PA, PS

11:20 am – 12:05 pm

RCL-19: Principles of Lean Management and Systems Engineering for Anesthesiologists

Presenter: Jeanna Blitz, MD, Medical Director, Preoperative Evaluation Clinic, New York University School of Medicine, New York, New York

Learner Objectives: After participating in this activity, the learner will be able to: (1) Apply concepts of lean management to quality and efficiency initiatives at their institution; (2) Prepare a charter to advocate for support to begin a quality improvement initiative; (3) Evaluate the best approach to collect data and confidently and independently analyze results; and (4) Formulate ongoing quality improvement and efficiency projects for the department and institution.

Subspecialty Key: EEP, GH, PA

11:30 am – 1:00 pm

P-29: Impact of Anesthesia in Patients with Concussion

Moderator: Martin Smith, MBBS, FRCA, FFICM, Consultant and Honorary Professor, Neuroanaesthesia and Neurocritical Care, The National Hospital for Neurology and Neurosurgery, University College London Hospitals, London, England; Editor-in-Chief, *Journal of Neurosurgical Anesthesiology*

Panelists:

■ **Perioperative Considerations in Concussion: Why Should It Matter to Us?**

Monica S. Vavilala, MD, Professor, Anesthesiology and Pediatrics, University of Washington Medicine; Director, Harborview Injury Prevention and Research Center, Seattle, Washington

■ **Epidemiology of Anesthesia Utilization in Patients with Concussion**

Jeffrey J. Pasternak, MD, Associate Professor, Anesthesiology and Perioperative Medicine, Mayo Clinic College of Medicine and Science, Rochester, Minnesota; President, SNACC

■ **Brain Homeostasis Following Mild Traumatic Brain Injury**

Deepak Sharma, MBBS, MD, DM, Virginia & Prentice Bloedel Professor and Division Chief, Neuroanesthesiology and Perioperative Neurosciences, University of Washington Medicine; Harborview Medical Center, Seattle, Washington

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the rationale for concussion considerations during the perioperative period; (2) Describe the epidemiology of anesthetic utilization in patients with concussion; (3) Explain how brain homeostasis is affected by mild traumatic brain injury; (4) List factors that can occur in the perianesthetic period that can potentially impact outcome following traumatic brain injury; and (5) List areas of future investigation in the field of concussion relevant to perianesthesia care.

Subspecialty Key: NR, T

11:30 am – 1:00 pm (continued)



**P-30: The "I" in "Team":
Interdisciplinary Thinking for
Whole-Patient Perioperative Care**



Moderator: Julie K. Freed, MD, PhD, Assistant Professor, Department of Anesthesiology, Medical College of Wisconsin, Milwaukee, Wisconsin; Co-Chair Events, eSAS

Panelists:

■ **Perioperative Screening for High Blood Pressure: The Interdisciplinary Challenge of Bringing MIPS Measure 317 into Practice**

Robert B. Schonberger, MD, MHS, Associate Professor, Anesthesiology, Faculty Research, and Office of Cooperative Research, Yale School of Medicine, New Haven, Connecticut

■ **Building an Interdisciplinary Research Team for Implementation Science Research**

Meghan Lane-Fall, MD, MSHP, Assistant Professor of Anesthesiology and Critical Care, Senior Fellow, Leonard Davis Institute of Health Economics; Co-Director, Center for Perioperative Outcomes Research and Transformation, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

■ **Distant Time Horizons: A Geriatrics Approach to Perioperative Cognitive Change**

Elizabeth L. Whitlock, MD, MSc, Clinical Instructor and T32 Fellow, Department of Anesthesia and Perioperative Care, University of California, San Francisco School of Medicine, San Francisco, California; Co-President, eSAS

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss factors relating to, and prevention of, postoperative cognitive dysfunction in the geriatric patient; (2) Describe how anesthesiologists can have an impact on their patients' overall cardiovascular health; (3) Assess how to improve patient safety in the perioperative period through effective communication; and (4) Demonstrate how to create a successful interdisciplinary research team to improve patient outcomes.

Subspecialty Key: CA, GA, EEP, NR, PA, PS

11:30 am – 1:00 pm (continued)



P-31: Leveraging Machine Learning to Improve Patient Care: What Is Involved, and What It Really Means

Moderator: Maxime Cannesson, MD, PhD, Professor, Anesthesiology, University of California, Los Angeles David Geffen School of Medicine, Vice Chair for Perioperative Medicine, Ronald Reagan University of California, Los Angeles Medical Center, Los Angeles, California; Board of Directors, ASER; Executive Section Editor, Technology, Computing, and Simulation, *Anesthesia & Analgesia*

Panelists:

■ **Extracting Meaningful Information from Clinical Waveforms: A Physiological and Statistical Approach**

Maxime Cannesson, MD, PhD

■ **Extracting Structured Data from the Electronic Medical Record for Research and Quality Improvement Purposes**

Ira Hofer, MD, Director, Division of Bioinformatics and Analytics, Department of Anesthesiology and Perioperative Medicine, Director, Center of Excellence for Perioperative Analytics, University of California, Los Angeles David Geffen School of Medicine, Los Angeles, California

■ **What are Machine Learning and Deep Learning, and How Can They Be Applied to Healthcare?**

Christine Lee, MS, PhD Candidate, Biomedical Engineering, University of California, Irvine School of Medicine, Irvine, California

■ **Using Multicenter Data to Collaborate, Improve Care, and Advance Science: Pitfalls and Opportunities**

Sachin Kheterpal, MD, MBA, Associate Dean for Research Information Technology, Associate Professor of Anesthesiology, Director, Anesthesiology Performance Improvement and Reporting Exchange (ASPIRE) Collaborative Quality Initiative, University of Michigan Medicine, Ann Arbor, Michigan

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the various types of data available from the electronic medical record (EMR) and how they can be leveraged for reporting in the perioperative environment; (2) Compare and contrast the types of waveforms and other visual data generated as part of patient care, and how to extract meaningful information about the patient; (3) Assess the challenges and opportunities in combining data from various institutions and computer systems, and how this integration can increase the power of the underlying data; and (4) Discuss advanced statistical techniques such as machine learning and deep learning, and how they can be applied to various types of healthcare data.

Subspecialty Key: EEP, TCSEM

12:00 pm – 1:00 pm

PBLD-23: The Preoperative Anesthesia Clinic Improves Patient Recruitment for Clinical Research

Presenter: George Silvay, MD, PhD, Professor, Department of Anesthesiology, Perioperative and Pain Medicine, The Icahn School of Medicine at Mount Sinai, New York, New York

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the challenges associated with enrollment in medical research in the perioperative period, and their underlying causes; (2) Identify the utility of an advanced preoperative visit for the success of recruitment for trial participation; (3) Review a specific model for Preoperative Assessment Clinic (PAC) that has been implemented at an academic institution; and (4) Interpret how the presented experience could be incorporated with the acquired knowledge in their own practice.

Subspecialty Key: CC, EEP

12:15 pm – 1:00 pm

RCL-20: Women in Medicine and Leadership: Glass Ceiling, Sticky Floors, and Everything in Between

Presenter: Maya J. Hastie, MD, Associate Professor of Anesthesiology, Co-Director, Faculty Development and Career Advancement Program, Program Director, Adult Cardiothoracic Anesthesia Fellowship, Columbia University Medical Center, New York, New York

Learner Objectives: After participating in this activity, the learner will be able to: (1) Appraise and examine the factors leading to the under-representation of women in leadership positions in academic medicine; (2) Identify the challenges faced by women in medicine during their careers, including gender biases, lack of mentoring, and work-life balance; (3) Organize and differentiate those challenges in a meaningful framework; (4) Describe and interpret commonly used metaphors in the context of the career paths of women in academic medicine; (5) Appraise and formulate practical approaches for advancing the career of women in academic medicine; and (6) Differentiate and formulate the initial personal, organizational, and societal plans of action to increase the representation of women in leadership positions.

Subspecialty Key: EEP

2:00 pm – 2:45 pm

RCL-21: Biases in Education and Research and Their Impact on Patient Safety

Presenter: Edward C. Nemergut, MD, Frederic A. Berry Professor of Anesthesiology, Professor of Neurosurgery, University of Virginia School of Medicine, Charlottesville, Virginia; Editor-in-Chief, *OpenAnesthesia*, Executive Section Editor, Medical Education, *Anesthesia & Analgesia*

Learner Objectives: After participating in this activity, the learner will be able to: (1) List the most common biases encountered in education, clinical practice, and scientific research; (2) Define the most common biases encountered in education, clinical practice, and scientific research; (3) Explain how the most common biases encountered in scientific research impact our interpretation of research studies and the quality of care; and (4) Identify their own biases and work to eliminate or reduce their impact on education and clinical practice.

Subspecialty Key: EEP, PS

2:00 pm – 3:00 pm

PBLD-24: Hip Fracture in a Patient with Severe Pulmonary Hypertension

Presenter: Jessica Tashjian, MD, Anesthesiologist, Division of Cardiovascular Anesthesiology, Kaiser Permanente, San Francisco, California

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the preoperative evaluation and outpatient management of patients with pulmonary hypertension; (2) Compare the pros and cons of general versus neuraxial anesthesia in patients with severe pulmonary hypertension; and (3) Formulate strategies for intraoperative monitoring and hemodynamic management of these patients.

Subspecialty Key: AMB, BLD, CA

2:00 pm – 3:30 pm

P-32: Rise of the Machines: Mechanical Support for Organ Failure



Moderator: Ronald Pearl, MD, PhD, Dr. Richard K. and Erika N. Richards Professor, Anesthesiology, Perioperative and Pain Medicine, Chair, Anesthesia Department, Member, Cardiovascular Institute, Stanford University School of Medicine, Stanford, California

Panelists:

- **Lung Failure: ECMO and Artificial Lungs**
Ronald Pearl, MD, PhD
- **Liver Failure: Liver Support and Liver Replacement**
Gebhard Wagoner, MD, Professor of Anesthesiology, Chief, Division of Vascular Anesthesiology, College of Physicians and Surgeons of Columbia University Medical Center, New York, New York; Member, Divisions of Critical Care Medicine and Liver Transplant Anesthesia
- **Heart Failure: Ventricular Assist Devices and the Total Artificial Heart**
Mark Chaney, MD, Professor of Anesthesia and Critical Care, Director, Cardiac Anesthesia, Director, Adult Cardiothoracic Anesthesia Fellowship Program, The University of Chicago Medicine, Chicago, Illinois
- **CNS Failure: Brain Stimulation and Neural Interfaces**
Deborah J. Culley, MD, Associate Professor, Vice Chair for Research, Brigham and Women's Hospital, Harvard Medical School, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the ventricular assist devices currently available for support of the failing heart and discuss their risks and benefits; (2) Describe the options for support and replacement of the failing liver; (3) Discuss the use of Extracorporeal membrane oxygenation (ECMO) and artificial lung support for the patient with severe respiratory failure; and (4) Describe the current state of brain stimulation and neural interfaces for treatment of central nervous system diseases.

Subspecialty Key: AM, CA, L, NR, PA, PS, RES, TCSEM

2:00 pm – 3:30 pm (continued)



P-23: Morbid Obesity: Recent Advances and New Insights in the Perioperative Anesthetic Care of Affected Patients

Moderator: Roman Schumann, MD, Vice-Chair for Academic Affairs, Department of Anesthesiology, Tufts University School of Medicine, Boston, Massachusetts; Immediate Past President, ISPCOP

Panelists:

- **Point-of-Care Gastric Ultrasound and Airway Assessment in the Obese Patient: Why and How**
Anahi Perlas, MD, Associate Professor, Anesthesia, University of Toronto Faculty of Medicine, Director, Clinical Regional Anesthesia Program, Toronto Western Hospital, University Health Network, Toronto, Ontario, Canada
- **Preoxygenation Practices in the Obese Patient: What's the Buzz?**
Rainer Lenhardt, MD, Professor and Vice Chair, Department of Anesthesiology and Perioperative Medicine, University of Louisville School of Medicine, Louisville, Kentucky
- **Current Principles and Evidence of Opioid-Sparing Anesthesia and Analgesia for Bariatric Patients: ERABS Considerations and Patient Satisfaction**
Adrian Sultana, MD, Senior Consultant Anaesthetist, Sydney Institute for Obesity Surgery, Sydney, Australia
- **OSA in the Parturient: Implications and Perioperative Management Pearls**
Ellen Lockhart, MD, Professor and Vice Chairman, Anesthesiology, Washington University School of Medicine in St. Louis, St. Louis, Missouri

Learner Objectives: After participating in this activity, the learner will be able to: (1) Report at least two indications for point-of-care gastric ultrasound to evaluate gastric content; (2) Identify the cricothyroid membrane in the longitudinal airway scan; (3) Assess the range of pharmacological techniques that are available for opioid-sparing anesthesia and analgesia for the bariatric surgical patient; (4) Discuss high flow nasal cannula and continuous positive airway pressure (CPAP) pre-oxygenation and rapid insufflation ventilatory exchange in obese patients; and (5) Describe the clinical implications and management of Obstructive Sleep Apnea (OSA) during pregnancy.

Subspecialty Key: AM, AP, O, OB, PA, PS, RES

2:00 pm – 3:30 pm



P-34: Review of the Top Blood Management Publications in Anesthesia & Analgesia

Moderator: Marisa B. Marques, MD, Medical Director, Transfusion Services, University of Alabama at Birmingham, Birmingham, Alabama; Executive Section Editor, Blood Management, *Anesthesia & Analgesia*

Panelists:

- **Blood Product Utilization, Including Massive Transfusion**
Arthur W. Bracey, MD, Chief of Clinical Pathology, Baylor St. Luke's Medical Center, Houston, Texas
- **PBM in the Pediatric Patient**
Susan Goobie, MD, FRCPC, Associate Professor, Anaesthesia, Harvard Medical School, Boston, Massachusetts
- **Transfusion in Adult Cardiac Surgery Patients**
Aryeh Shander, MD, FCCM, FCCP, FASA, Emeritus Chair, Department of Anesthesiology, Critical Care Medicine, Hyperbaric Medicine and Pain Management at Englewood Hospital and Medical Center, Adjunct Clinical Professor, Department of Anesthesiology, Medicine and Surgery at Icahn School of Medicine at Mount Sinai, New York, New York; Clinical Professor, Department of Anesthesiology, Rutgers New Jersey Medical School, Newark, New Jersey; Senior Editor, *Anesthesia & Analgesia*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the value of A&A as a source of information on blood management topics; (2) List reasons to practice blood management in their institutions; and (3) Recall evidence-based indications and risks of transfusions.

Subspecialty Key: BLD, EEP, PS

2:00 pm – 5:00 pm

W-06: Transformational Leadership: You're Not a Born Leader!

There's no such thing as a born leader. Good leaders learn how to inspire others and lead effective teams – and that means you can, too. This workshop will share proven strategies for cultivating leadership skills, allowing for meaningful change in the OR, and will provide techniques to implement positive change and improve patient care.

Workshop Leader: Chet Wyman, MD, Attending Physician, Anesthesiology and Critical Care Medicine, Johns Hopkins Bayview Medical Center, Baltimore, Maryland

Learner Objectives: After participating in this activity, the learner will be able to: (1) Apply tools to identify and illustrate their leadership style and how that style relates to their performance and the performance of others in the organization; (2) Discuss tools to identify and interpret their conflict style and how conflict style relates to the performance of individuals and teams; (3) Identify and assemble tools to measure and set up trust within the organization and increase engagement; (4) Describe characteristics of Transformational Leaders and explain the differences between the different types of leadership; and (5) Describe and demonstrate strategies to engage staff and motivate change.

Subspecialty Key: EEP, PS

2:30 pm – 3:30 pm

PBLD-25: Clinical Research for the Busy Anesthesia Provider: When Research is “Not Your Thing”

Presenter: Olubukola Nafiu, MD, FRCA, MS, Associate Professor of Pediatrics and Anesthesia, Director, Pediatric Anesthesia Research, University of Michigan Medicine, University of Michigan Health System, Ann Arbor, Michigan

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review different types of research that can be explored by busy anesthesia personnel including, retrospective database query, prospective observational, surveys, and medical education methods; (2) Identify limiting factors to successful perioperative research and how to overcome them; (3) Discuss novel ideas that can assist faculty in doing research while in the operating room; (4) Define basic statistical terminologies needed for writing a proposal and a manuscript: variable selection, dependent vs. independent variable, categorical variable, hypothesis vs. aims, case-control vs. cohort studies; (5) Discuss a sample research idea and develop a workable proposal from this; and (6) Collect tips on how to turn an idea into a manuscript.

Subspecialty Key: O, PED, PA, SM

2:55 pm – 3:40 pm

RCL-22: The Trials and Tribulations of ERABS: Implementing ERAS in Bariatric Anesthesia!



Presenter: Naveen Eipe, MBBS, MD, Assistant Professor of Anesthesiology, Department of Anesthesiology and Pain Medicine, University of Ottawa Faculty of Medicine, Staff Anesthesiologist, The Ottawa Hospital, Ottawa, Ontario, Canada

Learner Objectives: After participating in this activity, the learner will be able to: (1) Evaluate the role of ERAS in improving patient safety and outcomes; (2) Appraise the evidence for ERABS-ERAS in bariatric anesthesia; and (3) Formulate an ERABS strategy for patients with morbid obesity.

Subspecialty Key: O, PA, PS

3:30 pm – 6:00 pm

SYM-05: A Primer on Glial Cells for the Anesthesiologist: Functional Contribution to Stroke, Pain, Post-Operative Cognitive Dysfunction, and Alzheimer’s Disease

Moderator: Vivianne Tawfik, MD, PhD, Assistant Professor, Department of Anesthesiology, Perioperative and Pain Medicine (Adult Pain), Assistant Director, Fellowship in Anesthesia Research & Medicine Program (FARM), Stanford University School of Medicine, Stanford, California; Co-President, eSAS

Presenters:

■ **Microglial Modulation as a Target for Chronic Pain: From the Bench to the Bedside and Back**
Vivianne Tawfik, MD, PhD

■ **The Dual-Edged Sword of Neuroinflammation in Injury and Recovery after Brain Ischemia**
Ines P. Koerner, MD, PhD, Associate Professor, Anesthesiology and Perioperative Medicine, Oregon Health & Science University, Portland, Oregon

■ **Non-Resolving Inflammation in Postoperative Cognitive Dysfunction: Can We Prevent It?**
Niccolo Terrando, PhD, Assistant Professor, Anesthesiology, Duke University Medical Center, Durham, North Carolina

■ **PET Imaging of Neuroinflammation: Visualizing Neuroimmune Interactions in the Context of CNS Diseases**
Michelle James, PhD, Assistant Professor, Department of Radiology and Department of Neurology and Neurological Sciences, Stanford University School of Medicine, Stanford, California

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the key functions of microglia and other monocyte-lineage cells in central nervous system (CNS) pathology; (2) Identify the contribution of microglia to neuron loss after stroke and how they can be targeted to improve outcomes; (3) Explain how microglial activation contributes to the transition from acute to chronic pain; (4) Describe the neuroinflammatory contribution to post-operative cognitive dysfunction; (5) Identify the utility of PET imaging for detecting neuroinflammation in Alzheimer’s disease and post-stroke dementia and evaluate how this imaging technique can be used in clinical trials to influence patient care; and (6) Recall the common CNS mechanisms underlying stroke, chronic pain, Post-Operative Cognitive Dysfunction (POCD), and Alzheimer’s disease and how this overlap can help develop better therapies.

Subspecialty Key: NR, PME, PS

4:00 pm – 4:45 pm

RCL-23: Update on Healthcare Reform: The Impact of MACRA on the Practice of Anesthesia

Presenter: Alice A. Tolbert Coombs, MD, MPA, FCCP, Associate Professor, Anesthesiology and Critical Care Medicine, Virginia Commonwealth University, Richmond, Virginia

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review the recent changes in MACRA; (2) Discuss the Impact of APM and MIPS on the practice of anesthesia and the reporting requirement; and (3) Discuss strategies to develop a sustainable anesthesia practice.

Subspecialty Key: EEP

4:00 pm – 5:00 pm



PBLD-26: Management of Direct Oral Anticoagulants (DOAC) in the Patient Blood Management (PBM) Arena



Presenter: Seth Perelman, MD, Clinical Associate Professor, Department of Anesthesiology, Perioperative Care and Pain Medicine, New York University School of Medicine, New York University Langone Medical Center, New York, New York

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review currently available non-vitamin K direct oral anticoagulants (DOAC) and their indications for use; (2) Review safety data compared to warfarin; (3) Discuss preoperative management of patients receiving DOAC's and Society recommendations for preoperative management; (4) Assess limitations of laboratory measurement of anticoagulation in patient's receiving DOAC's; and (5) Discuss the reversal and treatment of DOAC-induced bleeding.

Subspecialty Key: BLD, PA, PS

4:00 pm – 5:30 pm

SAGA P-35: Your Patient Has Memory Problems: Now What?

Moderator: Ruben Azocar, MD, MHMC, FCCM, Professor and Chair, Department of Anesthesiology and Perioperative Medicine, Tufts University School of Medicine, Boston, Massachusetts; President, SAGA

Panelists:

■ Consenting Your Memory Impaired Patients

Miles Berger, MD, PhD, Assistant Professor, Neuroanesthesiology Division, Anesthesiology Department, Duke University Medical Center, Durham, North Carolina; Co-Vice-President, eSAS

■ Intraoperative Anesthesia Considerations for Your Memory Impaired Patients

Deborah J. Culley, MD, Associate Professor, Vice Chair for Research, Brigham and Women's Hospital, Harvard Medical School, Boston, Massachusetts

■ Delirium and Mortality in Your Memory Impaired Patients

Stacie G. Deiner, MD, Associate Professor, Anesthesiology, Perioperative and Pain Medicine, Icahn School of Medicine at Mount Sinai, New York, New York; Associate Editor, *Anesthesia & Analgesia*

■ Pre- and Post-operative Cognitive Care Considerations for Your Memory Impaired Patient

Catherine Price, PhD, ABPP/CN, Associate Professor, Paul Satz Term Professor, Clinical and Health Psychology, Anesthesiology, University of Florida College of Medicine, Gainesville, Florida

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss improved consent procedures; (2) Identify ways to improve intraoperative care needs; (3) Demonstrate the relationship between memory impairment and delirium risk; and (4) Formulate tools for improving communication and cognitive care for the memory impaired patient both pre- and post-operatively.

Subspecialty Key: GA, NR, PA

4:00 pm – 5:30 pm (continued)



P-36: The Role of Implementation Science in Patient Safety



Moderator: Ankeet D. Udani, MD, MEd, Assistant Professor, Anesthesiology, Duke University School of Medicine, Durham, North Carolina

Panelists:

■ **Introduction to Implementation Science**

Ankeet D. Udani, MD, MEd

■ **Case Study: Structured Post-operative Handoff Implementation**

Meghan Lane-Fall, MD, MSHP, Assistant Professor of Anesthesiology and Critical Care, Senior Fellow, Leonard Davis Institute of Health Economics, Co-Director, Center for Perioperative Outcomes Research and Transformation, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

■ **Case Study: Emergency Manual Implementation**

Sara Goldhaber-Fiebert, MD, Clinical Associate Professor, Anesthesiology, Perioperative and Pain Medicine, Stanford University School of Medicine, Stanford, California

■ **Case Study: Surgical Safety Checklist Implementation**

Aalok V. Agarwala, MD, MBA, Division Chief, General Surgery Anesthesia, Associate Director, Anesthesia Quality and Safety, Massachusetts General Hospital, Anesthesiology, Critical Care and Pain Medicine, Harvard Medical School, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Define central concepts in implementation science (efficacy, effectiveness, population health, Diffusion of Innovation and Motivational Behavior theories, CFIR, PARIHS and RE-AIM frameworks, sustainability, dissemination, mixed-methods research); (2) Identify opportunities for the application of implementation science in patient safety research; and (3) Apply mitigation strategies to common implementation pitfalls to improve program sustainability and dissemination.

Subspecialty Key: EEP, PA, PS

4:55 pm – 5:40 pm



RCL-24: Perioperative Pain Management in Children with Sleep-Disordered Breathing: A Difficult Balancing Act

Presenter: Olubukola O. Nafiu, MD, FRCA, MS, Associate Professor of Pediatrics and Anesthesia, Director, Pediatric Anesthesia Research, University of Michigan Medicine, University of Michigan Health System, Ann Arbor, Michigan

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review the epidemiology of obstructive sleep apnea (OSA) and pain symptoms; (2) Discuss the pathophysiology of OSA and acute pain states; (3) Explain the mechanisms underlying opioid-induced respiratory depression; (4) Express a unifying hypothesis for pain-related behavior, hypoxia and opioid side effects; (5) Analyze analgesic options for OSA patients; and (6) Discuss the importance of preoperative screening for OSA as a risk factor for post-anesthesia care unit (PACU) pain requiring intervention.

Subspecialty Key: AM, AP, O, PA, PED, PM, SM, RES

Trivia Game

Play the IARS, AUA and SOCCA 2018 Annual Meeting Trivia Game each day for a chance to win prizes. Each game consists of 12 multiple-choice trivia questions, each with three options. Questions get harder as the game progresses and you only have 10 seconds to select your answer. Participants who get the most correct answers in a game will be entered in a raffle for a chance to win prizes and bragging rights. Check the leaderboard in Crystal Foyer to compare your progress against other attendees. Trivia Game winners will be notified via email after the meeting.

Notes

Daily Schedule-at-a-Glance

7:00 am – 12:00 pm Registration

8:00 am – 11:45 am **Concurrent Sessions**

- Panels
- Problem-Based Learning Discussions
- Review Course Lectures

1:00 pm – 4:00 pm **Clinical Research Consortium:**

Collaborative Research Initiative for Perioperative Clinical and Translational Science Meeting

1:00 pm – 5:30 pm **Society for the Advancement of Transplant Anesthesia (SATA) 2nd Symposium**

8:00 am – 8:45 am



RCL-25: Postoperative Respiratory Depression: Who? When? How? Knowledge that Anesthesiologists Should Have

Presenters:

Frances F.T. Chung, MBBS, LMCC, FRCPC, Professor, ResMed Chair of Anesthesiology, Sleep and Perioperative Medicine, Department of Anesthesiology and Pain Management, University of Toronto, Faculty of Medicine, Toronto, Ontario, Canada; Clinical Investigator, Krembil Research Institute, University Health Network, Toronto, Ontario, Canada

Toby N. Weingarten, MD, Professor of Anesthesiology, Chair, Division of Multispecialty Anesthesia, Department of Anesthesiology and Perioperative Medicine, Mayo Clinic College of Medicine and Science, Rochester, Minnesota

Learner Objectives: After participating in this activity, the learner will be able to: (1) Evaluate the risk factors of postoperative respiratory depression; (2) Assess the timing of postoperative respiratory depression; (3) Appraise the case reports of death or near-death events caused by opioid-induced respiratory depression; (4) Evaluate whether postoperative oxygen supplementation is friend or foe; and (5) Examine the evidence of support for oximetry and/or capnography.

Subspecialty Key: AM, AP, SM, RES

8:00 am – 9:00 am

PBLD-27: Simplifying the ESC and AHA Guidelines for Perioperative Management for Noncardiac Surgery: A Clinician's Approach

Presenter: Shamsuddin Akhtar, MD, MBBS,

Associate Professor of Anesthesiology, Department of Anesthesiology, Director of Medical Student Education, Medical Director of YNH 7-1 Surgical Intensive Care Unit, Yale School of Medicine, New Haven, Connecticut; President-Elect, SAGA

Learner Objectives: After participating in this activity, the learner will be able to: (1) Compare the 2014 ACC/AHA guidelines, in relation to the 2009/2007 guidelines; (2) Identify a simplified method of determining who should be sent for further cardiac evaluation; (3) Identify when to offer elective surgery after myocardial infarction; and (4) Assess the role of perioperative medical management in reducing major adverse cardiac events.

Subspecialty Key: CA, EEP, PA

Session Type Key

P=Panel
SCHOLAR=Scholars' Program *

PBLD=Problem-Based Learning Discussion*
SYM=Symposium

RCL=Review Course Lecture
W=Workshop*

Anesthesia Subspecialty Key for Education Sessions

AM Airway Management	EEP Economics, Education and Policy	O Obesity	PS Patient Safety
AMB Ambulatory Anesthesia	GA Geriatric Anesthesia	OB Obstetric Anesthesiology	RA Regional Anesthesia
AP Anesthetic Pharmacology	GH Global Health	PA Perioperative Anesthesia	RES Respiration
BS Bench Science	L Liver	PAP Pain and Addiction Pathways	SM Sleep Medicine
BLD Blood Management	MPC Metabolism and Perioperative Care	PED Pediatric Anesthesiology	TCSEM Technology, Computing and Simulation, Equipment Monitoring
CA Cardiovascular Anesthesiology	NR Neuroscience in Anesthesiology and Perioperative Medicine	PM Pain Medicine	T Trauma
CC Critical Care		PME Pain Mechanisms	

8:00 am – 9:30 am

P-37: Leveraging Mobile Apps for Medical Education

Moderator: Vikas N. O'Reilly-Shah, MD, PhD, Assistant Professor of Anesthesiology, Emory University School of Medicine, Children's Healthcare of Atlanta, Atlanta, Georgia

Panelists:

- **Cloud-Based Tracking of Access to Didactics and Case-Specific Reference Material among Pediatric Anesthesia Learners Using a Custom Mobile App**
Vikas N. O'Reilly-Shah, MD, PhD
- **Moving Beyond Multiple Choice: Use of Smartphone-Based Audience Response Systems to Enhance Learner Engagement**
Matthew K. Whalin, MD, PhD, Assistant Professor of Anesthesiology, Director, Grady Division of Neuroanesthesiology, Emory University School of Medicine, Atlanta, Georgia
- **Use of a Web App for Mobile Access to Classroom-based Lectures in an Anesthesia Residency**
Pedro K. Tanaka, MD, PhD, MACM, Clinical Professor, Department of Anesthesiology, Perioperative and Pain Medicine, Stanford University School of Medicine, Stanford, California

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe development and implementation of a mobile web app for blended teaching and learning; (2) Identify the advantages of web and cloud-based approaches to providing learner content and tracking usage of this content; and (3) Compare and contrast the use of multiple-choice and word-cloud audience response formats to engage learners.

Subspecialty Key: EEP, TCSEM



Jay Pritzker Pavilion in Millenium Park

8:00 am – 9:30 am (continued)



P-38: Practical Clinical Approaches to Prevention of Postoperative Delirium: A Review of Modern Evidence

Moderator: Miles Berger, MD, PhD, Assistant Professor, Neuroanesthesiology Division, Anesthesiology Department, Duke University Medical Center, Durham, North Carolina; Co-Vice-President, eSAS

Panelists:

- **Perioperative Cognitive Protection: Cognitive Exercise and Cognitive Reserve for Prevention of Postoperative Delirium**
Michelle Humeidan, MD, PhD, Assistant Professor-Clinical, Department of Anesthesiology, Physician, FGP-Anesthesiology, The Ohio State University, Wexner Medical Center, Columbus, Ohio
- **Intraoperative Ketamine and Associations with Postoperative Delirium: Results from the PODCAST Trial**
Phillip E. Vlisides, MD, Assistant Professor, Department of Anesthesiology, University of Michigan Medicine, Ann Arbor, Michigan
- **Cerebral Autoregulation and Blood Flow and Associations with Postoperative Delirium**
Charles H. Brown, IV, MD, Assistant Professor, Anesthesiology and Critical Care Medicine, Johns Hopkins School of Medicine, Baltimore, Maryland

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe current approaches to prevention of postoperative delirium, including medical and behavioral therapies; (2) Discuss how recent evidence has refined proposed approaches to prevention of postoperative delirium; and (3) Assess the importance of clinical trial design and research methods, used to address current challenges to rigor and reproducibility increasingly emphasized in modern research.

Subspecialty Key: GA, NR, PA

9:00 am – 9:45 am

RCL-26: Advanced Teaching Skills for the OR: How to Teach Effectively when Faced with High Clinical Workload and Lack of Time

Presenter: Marek Brzezinski, MD, PhD, Professor, Department of Anesthesia and Perioperative Care, University of California, San Francisco School of Medicine, San Francisco, California

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the current and relevant teaching theories, including the adult learning theory and the Dreyfus model; (2) Explain the development of clinical decision-making by residents; (3) Identify potential obstacles to teaching in the fast-paced, high-pressure environment of the OR; and (4) Describe simple approaches to optimize the curriculum, as well as effective techniques to improve teaching, while not compromising quality of care.

Subspecialty Key: EEP

9:15 am – 10:15 am

PBLD-28: Emergency TEVAR Patient Taking a Novel Oral Anticoagulant: Best Evidence for Coagulation Management

Presenter: Michael Duggan, MD, FASE, Assistant Professor of Anesthesiology, Department of Anesthesiology, Emory University School of Medicine; Emory University Hospital, Atlanta, Georgia

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review the indications and superiority of novel anticoagulants (compared to warfarin) as means to aid the anesthesiologist in their understanding and identification of conditions for which surgical patients will present using these agents; (2) Review the pharmacologic considerations of the most frequently prescribed agents; (3) Discuss the availability and reliability of laboratory testing in patients using novel anticoagulants, including an in-depth interpretation of lab results including coagulation studies and point-of-care testing (thromboelastography); and (4) List reversal options using case-specific scenarios (preemptive reversal, reversal during active bleeding, urgent need for lumbar drain).

Subspecialty Key: AP, BLD, CA, PA

9:45 am – 11:15 am

P-39: A National Strategy to Reduce the Opioid Epidemic: A Report from the National Academies of Sciences, Engineering and Medicine

Moderator: Mark A. Schumacher, MD, PhD, Professor, Department of Anesthesia and Perioperative Care, Division of Pain Medicine, University of California, San Francisco School of Medicine, San Francisco, California

Panelists:

■ **Introduction: Balancing Societal and Individual Benefits and Risks of Prescription Opioid Use**

Richard Bonnie, LLB, Harrison Foundation Professor of Medicine and Law, Professor of Psychiatry and Neurobehavioral Sciences; Director, Institute of Law, Psychiatry and Public Policy, Professor of Public Policy, Frank Batten School of Leadership and Public Policy, The University of Virginia School of Law, Charlottesville, Virginia

■ **Evidence on Strategies for Addressing the Opioid Epidemic**

Mark A. Schumacher, MD, PhD

■ **Pain Management and Progress and Future Directions in Research on Pain and Opioid Use Disorder**

David Clark, MD, PhD, Professor, Anesthesiology, Perioperative and Pain Medicine, Member, Bio-X, Member, Stanford Neurosciences Institute, Stanford University School of Medicine, Stanford, California; Director of Pain Service, Veterans Affairs Palo Alto Health Care System, Palo Alto, California

■ **The Epidemiology of the Opioid Epidemic: Trends in Opioid Use and Harms**

Traci Green, PhD, MSc, Associate Professor, Emergency Medicine, Associate Director and Senior Scientist, Injury Prevention Research Center, Boston Medical Center, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the epidemiology of the opioid epidemic and strategies to reduce harm; (2) Describe gaps and strategies to educate health professional trainees, physicians and the public on pain management, opioid use disorder and opioid prescribing practices; (3) Assess the potential impact of patients with opioid use disorder in the perioperative period; (4) Analyze the current and proposed changes to the FDA risk-benefit framework for opioid approval and monitoring; and (5) Formulate research questions that need to be addressed to assist private and public agencies in addressing the opioid epidemic.

Subspecialty Key: AP, EEP, PA, PM, PS

9:45 am – 11:15 am (continued)



P-40: Managing Professionalism Issues in the Workplace

Moderator: Michael Sandison, MBBCh, Professor of Anesthesiology, Vice Chair for Education, Albany Medical College, Albany, New York; President, SEA

Panelists:

■ Professionalism Problems for and with Trainees

Franklyn P. Cladis, MD, Associate Professor, Director, Pediatric Anesthesiology Fellowship Program, Department of Anesthesiology, University of Pittsburgh Medical Center, Children's Hospital of Pittsburgh, Pittsburgh, Pennsylvania

■ Professionalism Problems for and with Staff: How They Differ

Annette Mizuguchi, MD, Assistant Professor, Anesthesiology, Brigham and Women's Hospital, Harvard Medical School, Boston, Massachusetts

■ Administrative Approaches: Probation, Warnings and Documentation

Carol A. Diachun, MD, MEd, Associate Chair for Education, Residency Program Director, Anesthesiology, University of Florida College of Medicine, Jacksonville, Florida

■ Training and Teaching to Avoid Professionalism Issues

John D. Mitchell, MD, Associate Professor of Anaesthesia, Harvard Medical School; Residency Program Director, Department of Anesthesia, Critical Care, and Pain Medicine, Beth Israel Deaconess Medical Center, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the scope of the professionalism problems in the perioperative workplace; (2) Discuss problems and solutions relevant for staff physicians; (3) Contrast professionalism issues and approaches for resolution in trainees to those of staff; (4) Formulate a plan for remediation; and (5) List evidence-based approaches to teaching coping skills and avoiding professionalism issues.

Subspecialty Key: EEP

10:00 am – 10:45 am

RCL-27: The Adult Patient with Congenital Heart Disease Presenting for Noncardiac Surgery



Presenter: Viviane Nasr, MD, Associate, Anesthesiology, Perioperative and Pain Medicine, Division of Cardiac Anesthesia, Boston Children's Hospital, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the diverse epidemiology of Adult Congenital Heart Disease (ACHD); (2) Discuss perioperative risk assessment of ACHD; and (3) Describe perioperative anesthetic considerations of ACHD.

Subspecialty Key: CA, PA, PED, PS

10:30 am – 11:30 am

PBLD-29: Management of a Patient with Pulmonary Hypertension for Noncardiac Surgery: Anesthetic Implications



Presenter: Sudarshan Setty, MD, MBBS, Assistant Professor, Department of Anesthesiology, University of Minnesota Medical School, Minneapolis, Minnesota

Learner Objectives: After participating in this activity, the learner will be able to: (1) Define the pathophysiology of pulmonary hypertension and identify the perioperative considerations in patients set to undergo noncardiac surgery; (2) Review the different techniques available for monitoring patients with pulmonary hypertension and the relative merits and demerits of each modality; (3) Discuss the complex hemodynamic variables influencing pulmonary hypertension, propose strategies for management of pulmonary hypertension in the operating room and the postoperative period and prepare changes in clinical practice; and (4) Review the current pharmacologic management of pulmonary hypertension and its implications for the anesthesiologist.

Subspecialty Key: AMB, BLD, CA, CC, PS

11:00 am – 11:45 am

SAGA RCL-28: The Dementia Brain: Considerations for Anesthesiologists

Presenters:

- **Catherine Price, PhD, ABPP/CN**, Associate Professor/
Paul Satz Term Professor, Clinical and Health Psychology/
Anesthesiology, University of Florida College of Medicine,
Gainesville, Florida
- **Brenda G. Fahy, MD, MCCM**, Professor and Chair,
Department of Anesthesiology, University of Florida
College of Medicine, Gainesville, Florida

Learner Objectives: After participating in this activity, the learner will be able to: (1) Summarize important behavioral differences of common neurodegenerative disorders encountered preoperatively; (2) Identify areas of the brain vulnerable to cortical (Alzheimer's disease, Frontotemporal dementia) versus subcortical (small vessel vascular dementia, Parkinson's disease with and without dementia); (3) Discuss potential interactions between neurodegenerative disease relative to anesthesia mechanisms; and (4) Discuss intelligently how pain management and medication management may differ for each behavioral profile.

Subspecialty Key: GA, NR, PA, PM, PME

Trivia Game

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Call for Session Proposals

Session Proposals Open End of April 2018!

Contribute to the IARS mission to support innovative and forward-thinking anesthesia research and education! Submit your session proposal and be a part of the IARS 2019 Annual Meeting and International Science Symposium education program.

IARS will be accepting proposals for Panels, Problem-Based Learning Discussion sessions, Review Course Lectures, Symposia and Workshops for possible inclusion in the IARS 2019 Annual Meeting and International Science Symposium, May 18-21, 2019, in Montreal, Quebec, Canada.

Submission Deadline: Monday, July 9, 2018

Clinical Research Consortium: Collaborative Research Initiative for Perioperative Clinical and Translational Science Meeting

Tuesday, May 1, 2018, 1:00 pm – 4:00 pm
Regency B, Ballroom Level, West Tower



Five prominent anesthesiology organizations have come together to establish a clinical trials network in the United States, focusing specifically on perioperative medicine, critical care, pain management, and peri- and post-partum care.

Please join us for this important gathering. Those interested in anesthesiology-related clinical and translational science are strongly encouraged to attend.

The agenda includes:

- Panel on innovative and efficient approaches to multicenter clinical trials
- Presentations by the Duke Clinical Research Institute (DCRI) and the Multicenter Perioperative Outcomes Group (MPOG)

There is no fee to participate in the Clinical Research Consortium; register onsite day of the event at the Hyatt Regency Chicago, Regency B, Ballroom Level, West Tower. No CME will be provided for this session.

Participating Organizations:

- Association of University Anesthesiologists (AUA)
- Early-Stage Anesthesiology Scholars (eSAS)
- The Foundation for Anesthesia Education and Research (FAER)
- The International Anesthesia Research Society (IARS)
- The Society of Critical Care Anesthesiologists (SOCCA)



IARS

International Anesthesia Research Society



For more information, visit bit.ly/IARSconsortium.



The Society for the Advancement of Transplant Anesthesia Second Annual Symposium

**Tuesday, May 1, 2018, 1:00 pm – 5:30 pm
Regency A, Ballroom Level, West Tower**

If you are a transplant anesthesiologists or critical care physician, join the Society for the Advancement of Transplant Anesthesia (SATA) at the Second Annual Symposium.

Topics will include:

- Anesthetic management of the organ donor (cadaveric and living)
- Anesthetic priorities for the safe management of kidney and thoracic organ transplant recipients

National and international experts in transplant anesthesia will present lectures, interactive case studies, and host discussions, all with an emphasis on controversial topics in transplant anesthesiology and critical care medicine.

Registration fee is waived for SATA members; \$120 for non-members. Register onsite on the day of the event in Regency Foyer A, Ballroom Level, West Tower. No CME will be provided for this session.

For more information, visit bit.ly/IARS-SATA.



Thank You, 2018 Session Proposal Review Panel!

The IARS Board of Trustees and Annual Meeting Oversight Committee wish to thank the Session Proposal Review Panel Committee Members for the critical role they play in selecting proposals for presentation at the IARS 2018 Annual Meeting and International Science Symposium.

This year, 277 total sessions were submitted and reviewed including 107 Panels, 63 Problem-Based Learning Discussions, 83 Review Course Lectures, 9 Symposia, and 15 Workshop sessions.

The Committee Members' valuable perspectives and experience help develop IARS educational content which advances anesthesia education and research, and continues to improve care for our patients.

REVIEW PANEL CHAIR

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San Francisco School of Medicine
San Francisco, California

David Wong, MD, FRCPP(P)
SAM Research Committee and Representative
University of Toronto
Toronto, Ontario, Canada

Yar Luan (Samantha) Yeap, MD
Indiana University
Bloomington, Indiana

Poster General Information

Poster Room Location

Riverside West, Exhibit Level, East Tower

Poster Room Hours

Thursday, April 26 6:00 am – 5:00 pm
Friday, April 27 6:00 am – 5:00 pm
Saturday, April 28 9:30 am – 6:30 pm
Sunday, April 29 6:30 am – 6:30 pm
Monday, April 30 6:30 am – 6:30 pm

Poster Information and Check-In Desk Location

Entrance to Poster Room, Riverside West, Exhibit Level, East Tower

Hours:

Saturday, April 28 6:00 am – 6:30 pm
Sunday, April 29 6:00 am – 6:30 pm
Monday, April 30 6:00 am – 6:30 pm

A staff member will be available at the Poster Information and Check-in desk to assist you in finding your poster board or with any questions. Please check-in at the desk 15 minutes prior to your presentation time.

Poster Pickup Booth Location: Riverside West, Exhibit Level, East Tower

Poster Hours:

Thursday, April 26 6:00 am – 2:00 pm
Friday, April 27 6:00 am – 2:00 pm
Saturday, April 28 6:00 am – 2:00 pm
Sunday, April 29 6:00 am – 2:00 pm
Monday, April 30 6:00 am – 2:00 pm

Kosaka Best of Meeting Abstract Awards Session Information

Sunday, April 29, 9:30 am – 11:00 am

Acapulco-Hong Kong-Toronto, Ballroom Level, West Tower

The Kosaka Best of Meeting Abstract Awards Session is supported by the Japan Society for Clinical Anesthesia (JSCA) and the International Anesthesia Research Society (IARS). During this two-hour session, the top 30 abstract authors in Clinical Research, Basic Science, and Scholar Abstract categories will display their poster. The top three finalists in each abstract category will also present their original abstract orally and compete for the top award in their category and a \$500 prize each. Additionally, the top three scored abstract presenters from the late-breaking abstract submissions will present their research orally.

Abstract Presenter Instructions:

Presenters are required to be in attendance at their assigned Moderated Poster Discussion Session and should check-in at the poster desk on arrival. Each presenter will provide a 3-5 minute summary of their most important research findings. This will be followed by a Question and Answer period for each presenter. The poster moderator for your poster session will assist with facilitating the discussion.

e-Poster Viewing and Event Search

Search and view all e-posters submitted, sessions, abstracts and speakers for the IARS, AUA and SOCCA 2018 Annual Meetings on the event site at www3.aievolution.com/ars1801. All IARS-accepted posters that are submitted as an electronic poster (e-Poster) will be available for viewing by all attendees onsite at the IARS 2018 Annual Meeting and International Science Symposium via the IARS website.

IARS Annual Meeting Abstract Supplement

All IARS-accepted posters that are submitted as an abstract supplement for the IARS 2018 Annual Meeting and International Science Symposium, consisting of all IARS-presented abstracts with the exception of Medically Challenging Cases, will also be available for viewing by all attendees following the meeting via the IARS website.

Moderated Poster Discussion Session Learner Objectives

after participating in this activity, the learner will be able to: (1) Summarize findings in current research; and (2) Explain application in clinical practice.

Trivia Game

Play the IARS, AUA and SOCCA 2018 Annual Meeting Trivia Game each day for a chance to win prizes. Each game consists of 12 multiple-choice trivia questions, each with three options. Questions get harder as the game progresses and you only have ten seconds to select your answer. Participants who get the most correct answers in a game will be entered in a raffle for a chance to win prizes and bragging rights. Check the leaderboard in Crystal Foyer to compare your progress against other attendees. Trivia Game winners will be notified by email after the meeting.

Poster General Information

Assigned Poster Board Identification and Location

A poster board ID is assigned to all presenting authors. The assigned IDs will be affixed to each poster board in the poster room. Poster board numbers will be placed at the end of each aisle in the poster session room. A staff member will be available to assist you with finding your poster board.

Poster Board ID Format and Abstract Key for Anesthesia Subspecialty Topics:

The Poster Board ID format is the following: Poster Board Anesthesia Subspecialty Topic Abbreviation Poster Board # (Abstract #). Example: AM 1 (230). Please see the Abstract Category Key for Anesthesia Subspecialty Topics on the next page of this program.

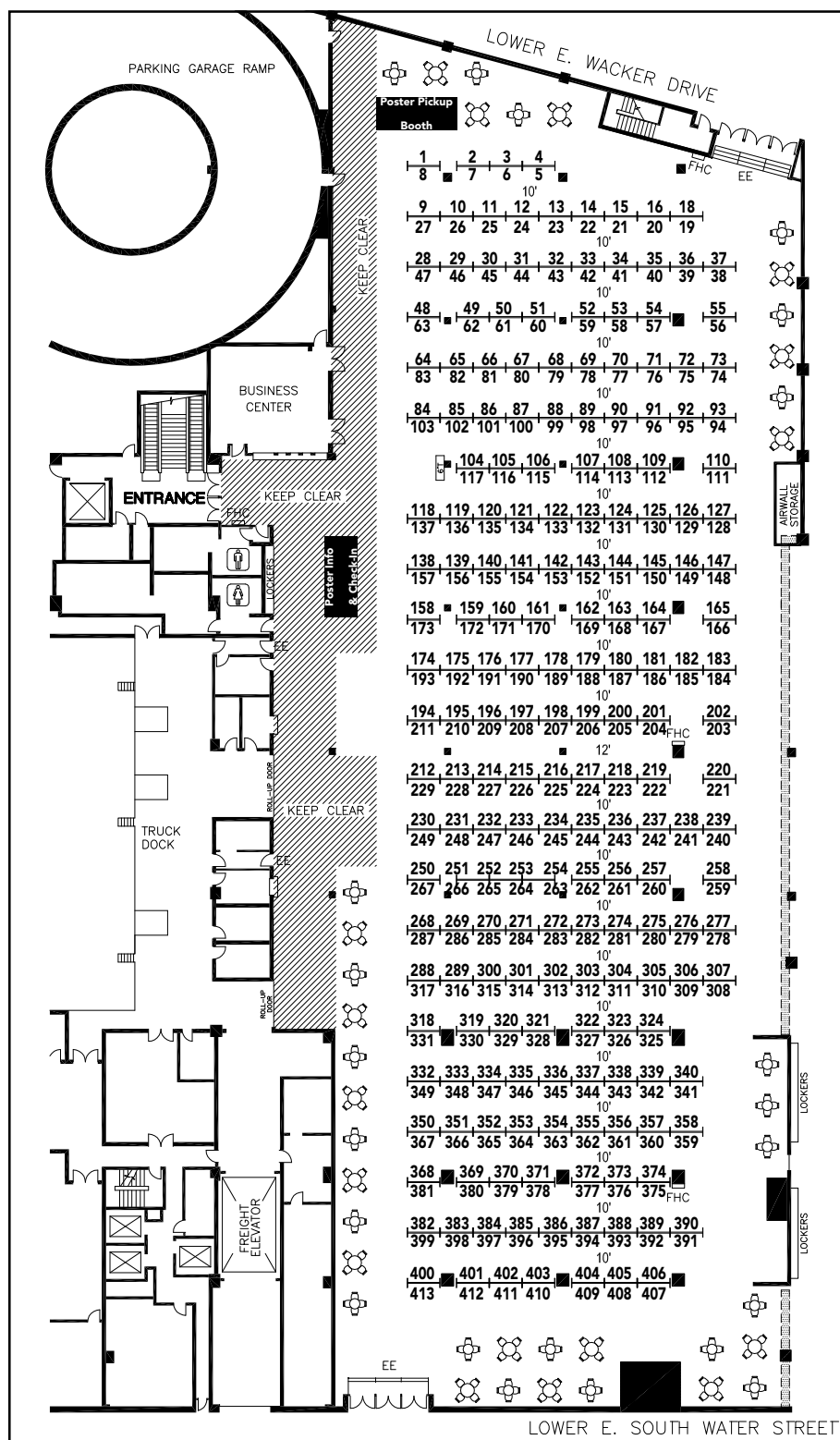
The International Anesthesia Research Society Board of Trustees and the 2018 Annual Meeting Oversight Committee acknowledge with thanks the 2018 abstract reviewers and poster moderators.

Abstracts Category Key for Anesthesia Subspecialty Topics:

AM Airway Management	GH Global Health	PED Pediatric Anesthesiology
AMB Ambulatory Anesthesia	L Liver	PM Pain Medicine
AP Anesthetic Pharmacology	MCC Medically Challenging Cases	PME Pain Mechanisms
BS Bench Science	MPC Metabolism and Perioperative Care	PS Patient Safety
BLD Blood Management	NR Neuroscience in Anesthesiology and Perioperative Medicine	RA Regional Anesthesia
CA Cardiovascular Anesthesiology	O Obesity	RES Respiration
CC Critical Care	OB Obstetric Anesthesiology	SM Sleep Medicine
EEP Economics, Education and Policy	PA Perioperative Anesthesia	TCSEM Technology, Computing and Simulation, Equipment Monitoring
GA Geriatric Anesthesia	PAP Pain and Addiction Pathways	T Trauma

IARS 2018 Moderated Poster Discussion Sessions

Poster Room Diagram



IARS 2018 Moderated Poster Discussion Sessions

Schedule-at-a-Glance*

Saturday, April 28

Moderated Poster Discussion Session-01

9:30 am – 11:00 am

Set-up** 6:30 am – 7:30 am

Removal 1:00 pm – 1:30 pm

Moderated Poster Discussion Session-02

11:15 am – 12:45 pm

Set-up 6:30 am – 7:30 am

Removal 1:00 pm – 1:30 pm

Moderated Poster Discussion Session-03

2:00 pm – 3:30 pm

Set-up 1:30 pm – 2:00 pm

Removal 5:30 pm – 6:30 pm

Moderated Poster Discussion Session-04

4:00 pm – 5:30 pm

Set-up 1:30 pm – 2:00 pm

Removal 5:30 pm – 6:30 pm

Sunday, April 29

Moderated Poster Discussion Session-05

7:30 am – 9:00 am

Set-up 6:30 am – 7:30 am

Removal 1:00 pm – 1:30 pm

Kosaka Best of Meeting Abstract Awards Session

9:30 am – 11:00 am

Set-up 6:30 am – 7:30 am

Removal 1:00 pm – 1:30 pm

Moderated Poster Discussion Session-06

11:30 am – 1:00 pm

Set-up 6:30 am – 7:30 am

Removal 1:00 pm – 1:30 pm

Moderated Poster Discussion Session-07

2:00 pm – 3:30 pm

Set-up 1:30 pm – 2:00 pm

Removal 5:30 pm – 6:30 pm

Moderated Poster Discussion Session-08

4:00 pm – 5:30 pm

Set-up 1:30 pm – 2:00 pm

Removal 5:30 pm – 6:30 pm

Monday, April 30

Moderated Poster Discussion Session-09

7:30 am – 9:00 am

Set-up 6:30 am – 7:30 am

Removal 9:00 am – 9:20 am

Moderated Poster Discussion Session-10

9:45 am – 11:15 am

Set-up 9:20 am – 9:45 am

Removal 1:00 pm – 1:30 pm

Moderated Poster Discussion Session-11

11:30 am – 1:00 pm

Set-up 9:20 am – 9:45 am

Removal 1:00 pm – 1:30 pm

Moderated Poster Discussion Session-12

2:00 pm – 3:30 pm

Set-up 1:30 pm – 2:00 pm

Removal 5:30 pm – 6:30 pm

Moderated Poster Discussion Session-13

4:00 pm – 5:30 pm

Set-up 1:30 pm – 2:00 pm

Removal 5:30 pm – 6:30 pm

*The Abstract Poster Presenter is responsible for removing all material from the poster boards during the removal times indicated in the above table. There is no storage available for posters, and any materials remaining will be discarded.

** Poster Set-up and Removal Times will take place on the same day as the abstract presenter's schedule presentation day unless noted otherwise.

Kosaka Best of Meeting Abstract Awards Session

Sunday, April 29 • 9:30 am – 11:00 am

Moderator:

Beverley A. Orser, MD, PhD, FRCPC, Professor, Department of Anesthesia and Physiology, and Chair, Department of Anesthesia, University of Toronto Faculty of Medicine; Scientist, Sunnybrook Research Institute; Director of Research, Department of Anesthesia, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada; Trustee, IARS

Judges:

Keith A. (Tony) Jones, MD, Alfred Habeeb Professor of Anesthesiology and Perioperative Medicine, Chief Physician Executive, The University of Alabama at Birmingham Health System, Birmingham, Alabama; Trustee, IARS

Makoto Ozaki, MD, PhD, Professor, Department of Anesthesiology, Tokyo Women's Medical University, Tokyo, Japan; Secretary, IARS

Santhanam Suresh, MD, Arthur C. King Professor and Chair of Pediatric Anesthesiology, Ann & Robert H. Lurie Children's Hospital of Chicago; Professor of Anesthesiology and Pediatrics, Northwestern University Feinberg School of Medicine, Chicago, Illinois; Trustee and Journal Liaison, IARS

9:30 am – 9:40 am: Welcome and Introductions

9:40 am – 10:40 am: Top Abstract Finalists and Top Late-Breaking Abstract presenters present orally

10:40 am – 10:50 am: Poster viewing of Abstract Finalists' posters in room while judges deliberate

10:50 am – 11:00 am: Awards announced by judges and photo opportunity for award winners

Top Finalists

These nine abstracts have been selected for the distinction of Kosaka Best of Meeting Top Finalist from more than 600 abstract submissions to the IARS 2018 Annual Meeting and International Science Symposium. Attend the Kosaka Best of Meeting Abstract Awards Session and witness these top finalists compete for the award in their category as they present their original research orally to a panel of judges. Additionally, the top three scored abstracts presenters from the late-breaking abstract submissions will present their research orally.

The Kosaka Best of Meeting Abstract Awards Session is supported by the Japan Society for Clinical Anesthesia (JSCA) and the International Anesthesia Research Society (IARS).

Clinical Research

AMBULATORY ANESTHESIA

AMB 2 (1256): Finding the Body Mass Index Threshold for Selection of Patients for Ambulatory Open Hernia Repair

Eric Rosero, Girish Joshi

University of Texas Southwestern Medical Center, Dallas, Texas

NEUROSCIENCE IN ANESTHESIOLOGY AND PERIOPERATIVE MEDICINE

NR 136 (1393): Optical Neuromonitoring Detects Brain Hypoxia

David R. Busch¹, Wesley Baker², Wensheng Guo², Ramani Balu², Keith St. Lawrence³, Arjun G. Yodh², William A. Kofke², Lian He², Mamadou Diop³, Daniel Milej³, Venkaiah Kavuri², Olivia Amendolia²

¹University of Texas Southwestern, Dallas, Texas,

²Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, ³University of Western Ontario, London, Ontario, Canada

Clinical Research, continued

PEDIATRIC ANESTHESIOLOGY

PED 123 (1099): Intraoperative Intravenous Infusion of Lidocaine for Better Postoperative Analgesia in Children Undergoing Laparoscopic Hernia Repair

Ji-Min Lee, Jeongrim Lee

Severance Hospital, Yonsei University College of Medicine, Seoul, Korea

Basic Science Research

ANESTHETIC PHARMACOLOGY

AP 11 (1410): Identification of a Modulatory Site of Action for the Volatile Anesthetic Isoflurane in TREK1 Tandem Pore Potassium Channels

Paul M. Riegelhaupt¹, Kellie Woll², Thomas T. Joseph², Kiran A. Vaidya¹, Crina M. Nimigean¹, Roderic G. Eckenhoﬀ²

¹Weill Cornell Medicine, New York, New York, ²Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

Kosaka Best of Meeting Top Finalists

Basic Science Research (continued) _____

NEUROSCIENCE IN ANESTHESIOLOGY AND PERIOPERATIVE MEDICINE

NR 100 (1388): Activation of Mouse Orexin Neurons Facilitates Anesthesia Emergence and Increases Pain Tolerance

Wei Zhou, Kevin Cheung, Zhonghui Guan, Philip A. Kurien, Lily Jan, Lynn Wang

University of California, San Francisco School of Medicine, San Francisco, California

PAIN MECHANISMS

PME 116 (955): GABA Neurons in the Rostromedial Tegmental Nucleus Modulate Analgesia in Mice

Norman E. Taylor¹, Hu Long², JunZhu Pei³, Phanidhar Kukutla¹, Ksenia Y. Vlasov³, Ken Solt⁴, Gary J. Brenner⁴

¹Massachusetts General Hospital, Boston, Massachusetts;

²West China Hospital of Stomatology, Chengdu, China;

³Massachusetts Institute of Technology, Cambridge, Massachusetts; ⁴Harvard Medical School, Boston, Massachusetts

Scholars _____

GERIATRIC ANESTHESIA

GA 61 (823): Considerations for Scoring the Clock Drawing Test for Impairment of Geriatric Patients in the Perioperative Setting: A Comparison of Three Common Scoring Criteria

Mitchel Y. Zhang, Bailey Frei, Kristen Woodward, Shawna Amini, Patrick J. Tighe, Chris Giordano, Catherine Price

University of Florida College of Medicine, Gainesville, Florida

NEUROSCIENCE IN ANESTHESIOLOGY AND PERIOPERATIVE MEDICINE

NR 97 (928): Midazolam Sedation during the Periodic Experience of Pain Decreases Functional Connectivity Both within and between Brain Systems for Pain Processing and Memory Encoding

Christopher T. Smith, Keith M. Vogt, James W. Ibinson

University of Pittsburgh, Pittsburgh, Pennsylvania

NR 98 (953): Power Spectrum and Frontal Alpha Band Activity Saturation Predicts Loss of Response to Verbal Command in Older Adults during Anesthetic Induction with Propofol: A Diagnostic Test Approach

Carlos M. Fuentes, Juan C. Pedemonte, Andrea Sanchez, Martin Irani, Mohit Rana, Victor Contreras, Ignacio Cortinez

Pontificia Universidad Católica de Chile, Santiago de Chile, Chile



Kosaka Best of Meeting Finalists

These abstract authors submitted in Clinical Research or Basic Science or by a scholar have been selected from more than 600 abstract submissions to the IARS 2018 Annual Meeting and International Science Symposium by an expert panel of reviewers for the distinction of the Kosaka Best of Meeting Finalist. Attend the Kosaka Best of Meeting Abstract Awards Session, Sunday, April 29, 9:30 am – 11:00 am, and discover what makes the finalists' posters unique. Poster viewing will be available during this session.

The Kosaka Best of Meeting Abstract Awards Session is supported by the Japan Society for Clinical Anesthesia (JSCA) and the International Anesthesia Research Society (IARS).

Clinical Research

AMBULATORY ANESTHESIA

AMB 1 (777): Is There a Threshold Age to Select Patients for Ambulatory Abdominal Surgery?

Eric Rosero, Girish Joshi

University of Texas Southwestern Medical Center, Dallas, Texas

ANESTHETIC PHARMACOLOGY

AP 12 (1429): Coagulation Effect of Sugammadex Using Thromboelastography in a Randomized Controlled Study of Surgical Patients

Hae Wone Chang, Il Ok Lee, Byung Gun Lim

Korea University Guro Hospital, Seoul, Korea

BLOOD MANAGEMENT

BLD 18 (1348): Factor IX from Prothrombin Complex Concentrate Augments Low Tissue Factor-triggered Thrombin Generation – “An Exploratory In Vitro Study”

Ezeldeen Abuelkasem¹, Shaheer Hasan², Brittney Williams², Reney Handerson², Michael A. Mazzeffi², Kenichi Tanaka²

¹University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania; ²University of Maryland School of Medicine, Baltimore, Maryland

ECONOMICS, EDUCATION AND POLICY

EEP 54 (984): The Role of Gender and Body Language on Patient Perception of Physicians

Katherine T. Forkin, Lauren K. Dunn, Allison J. Bechtel, Amanda M. Kleiman, Jennifer F. Potter, Julie L. Huffmyer, Edward C. Nemergut

University of Virginia School of Medicine, Charlottesville, Virginia

EEP 52 (747): Effect of Night Float on Anesthesiology Resident Sleep Patterns: An Observational Study

Lauren K. Dunn, Amanda Kleiman, Katherine Forkin, Mark S. Quigg, Allison J. Bechtel, Julie L. Huffmyer, Edward C. Nemergut

University of Virginia School of Medicine, Charlottesville, Virginia

Clinical Research, continued

NEUROSCIENCE IN ANESTHESIOLOGY AND PERIOPERATIVE MEDICINE

NR 88 (695): Non-invasive Optical Quantification of Absolute Cerebral Blood Flow in Adults: Validation Against MRI

Andrew W. Kofke¹, Daniel Milej², Mamadou Diop², Ramani Balu¹, John A. Detre¹, **Wesley B. Baker**¹, Arjun G. Yodh¹, Keith St. Lawrence², Lian He¹, Androu Abdalalak³, Sudipto Dolui¹, Udunna Anazodo², Venkaiah Kavuri², William Pavlosky², Olivia Amendolia¹, Francis Quattrone¹

¹Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania; ²University of Western Ontario, London, Ontario

PERIOPERATIVE ANESTHESIA

PA 19 (555): Association of Preoperative Anticholinergic Medication Exposure with Postoperative Healthcare Resource Use and Outcomes: Population-Based Cohort Study

Deric B. Diep¹, Coralie Wong², Carl van Walraven¹, Daniel I. McIsaac¹

¹University of Ottawa, Ottawa, Ontario, Canada; ²The Ottawa Hospital Research Institute, Ottawa, Ontario, Canada

Basic Science Research

BLOOD MANAGEMENT

BLD 17 (838): Contrasting Effects of Stored Allogeneic Red Blood Cells and Their Supernatants on Permeability and Inflammatory Responses by Human Pulmonary Artery Endothelial Cells

Junghyun Kim, Trang Nguyen, Michael A. Mazzeffi, Kenichi Tanaka, Anna Birukova, Konstantin Birukov

University of Maryland School of Medicine, Baltimore, Maryland

Kosaka Best of Meeting Finalists

Basic Science Research, continued _____

CRITICAL CARE

CC 33 (702): Role of Toll-like Receptor Signaling in Sepsis-induced Coagulopathy in Mice

Brittney Williams, Ping Cui, Olivia Conn, Kenichi Tanaka, Lin Zou, Wei Chao

University of Maryland Baltimore, Baltimore, Maryland

NEUROSCIENCE IN ANESTHESIOLOGY AND PERIOPERATIVE MEDICINE

NR 90 (1039): Adolescent Rats Display Long-Lasting Abnormalities in REM Sleep Quantity and Structure after Postnatal Anesthesia

Nadia Lunardi, Ryan Sica, Navya Atluri, Zhiyi E. Zuo

University of Virginia School of Medicine, Charlottesville, Virginia

NR 89 (940): Preliminary Evidence of Neural Inertia in Human Subjects Undergoing Xenon Anesthesia

Charles W. Carspecken, Andrew McKinstry-Wu, Alexander Proekt, Max B. Kelz

Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

NR 87 (621): Neonatal Disruption of PSD-95 PDZ Domain-mediated Protein-protein Interactions Alters Dendritic Spine Morphology, Long-term Potentiation, and Causes Deficits in Learning and Memory in Mice

Michele L. Schaefer, Meina Wang, Patric Perez, Jing Xu, Reilley P. Mathena, Roger A. Johns

Johns Hopkins University School of Medicine, Baltimore, Maryland

TRAUMA

T 143 (1141): Histone Subunits Disrupt Lung Vascular Endothelial Cell Barrier in Trauma

Seakwoo Lee, Ramasubramanian Baalachandran, Trang Nguyen, Yunbo Ke, Anna Birukova, Kenichi Tanaka, Konstantin Birukov

University of Maryland School of Medicine, Baltimore, Maryland

Scholars _____

ANESTHETIC PHARMACOLOGY

AP 6 (1101): The Effects of Dexmedetomidine on Hyperpolarization-Activated Cyclic Nucleotide-Gated (HCN) Channels in Mouse Thalamocortical Neurons

Catharina Westpha, Stefan Schwerin, Claudia Kopp, Gerhard Schneider, Stephan A. Kratzer, Rainer Haseneder

Rechts der Isar Hospital, Munich, Germany

CARDIOVASCULAR ANESTHESIOLOGY

CA 26 (814): Energetic Performance Index Improvement after Glenn and Damus-Kaye-Stansel Procedure Using Vector Flow Mapping Analysis

Atsushi Kainuma¹, Kazuma Hayase¹, Koichi Akiyama², Yoshifumi Naito¹, Masaru Shimizu¹, Keiichi Itatani¹, Teiji Sawa¹

¹Kyoto Prefectural University of Medicine, Kyoto, Japan;

²Columbia University, New York, New York

NEUROSCIENCE IN ANESTHESIOLOGY AND PERIOPERATIVE MEDICINE

NR 92 (1413): Cognitive Associates of the Digital Clock Drawing Test in Older Adults: Total Clock Time and Pre-First Hand Latency

Catherine Dion¹, Franchesca Arias², Cheshire Hardcastle¹, Shawna Amini¹, Randall Davis², Patrick J. Tighe¹, Catherine C. Price¹

¹University of Florida, Gainesville, Florida; ²Massachusetts Institute of Technology, Cambridge, Massachusetts

NR 91 (1057): Perioperative Trajectory of Alzheimer's Disease Biomarkers in Surgical Patients and Matched Non-surgical Controls

Yee Ching Vanessa Cheong¹, Mary Cooter², Richard L. Huang³, Heather E. Whitson², Harvey J. Cohen², Joseph P. Mathew², Miles Berger²

¹Duke-National University of Singapore Medical School, Singapore, Singapore; ²Duke University Medical Center, Durham, North Carolina; ³Duke University School of Medicine, Durham, North Carolina

NR 92 (646): Measuring Post-Operative Cognitive Dysfunction in Older Adults Using the Dalhousie Computerized Attention Battery

Yaesh Sardiwala, Gail Eskes, Ronald B. George, Michael Schmidt

Dalhousie University, Halifax, Nova Scotia, Canada

Kosaka Best of Meeting Finalists

Scholars, continued_____

OBSTETRIC ANESTHESIOLOGY

OB 107 (753): Transcutaneous P6 Acupoint Electrical Stimulation Prevents Both Nausea and Vomiting during Elective Cesarean Section under Combined Spinal-Epidural: A Randomized Control Clinical Trial

Danielle Levin, Shaul Cohen, Scott Mellender, Adil Mohiuddin, Rong Zhao, Geza Kiss, Enrique Pantin

Rutgers Robert Wood Johnson Medical School, New Brunswick, New Jersey

TECHNOLOGY, COMPUTING AND SIMULATION, EQUIPMENT MONITORING

TCSEM 134 (795): Diagnostic Accuracy of Point-of-Care Gastric Ultrasound: A Bayesian Analysis

Luis E. Chaparro¹, Richelle Kruisselbrink¹, Angineh Gharapetian¹, Noam Ami², Dustin Richler², Vincent W. Chan^{1,2}, Anahi Perlas²

¹University of Toronto, Toronto, Ontario, Canada, ²Toronto Western Hospital, University Health Network, Toronto, Ontario, Canada

Top Late-Breaking Abstract Presenters

The top three scored late-breaking abstract presenters were selected to present orally during this special session.

CRITICAL CARE

LB CC 79 (1472): Hindlimb Muscle Compromise during the Course of Acute Lung Injury In Mice

Matias Iglesias, Maria N. Marin, Lucia Noboa, Amparo Fernandez, Agustina Vacca, Romina Rodriguez, Fabiana Gámbaro

Universidad de la República School of Medicine, Montevideo, Uruguay

LB CC 80 (1521): Propofol Impacts Neutrophil Extracellular Trap (NET) Production

Angela Meier¹, Laura Hobohm², Jason Chien², Victor Nizet¹, Ross Corriden¹

¹University of California San Diego School of Medicine, San Diego, California, ²University of Hannover, San Diego, California

PERIOPERATIVE ANESTHESIA

LB PA 161 (1486): Assessment of Functional Capacity before Major Elective Noncardiac Surgery: An International Multicenter Prospective Cohort Study

Duminda N. Wijeyesundera¹, Rupert Pearse², Mark Shulman³, Tom Abbott², Michael P. Grocott⁴, Paul Myles³, Brian Cuthbertson¹

¹University of Toronto, Toronto, Ontario, Canada, ²Queen Mary University of London, London, England, ³Alfred Hospital, Melbourne, Australia, ⁴University of Southampton, Southampton, England

Notes

Daily Poster Schedule-at-a-Glance

9:30 am – 11:00 am **Moderated Poster Discussion Session-01**

11:15 am – 12:45 pm **Moderated Poster Discussion Session-02**

2:00 pm – 3:30 pm **Moderated Poster Discussion Session-03**

4:00 pm – 5:30 pm **Moderated Poster Discussion Session-04**

9:30 am – 11:00 am

MODERATED POSTER DISCUSSION SESSION-01

Group 1: Cardiovascular Anesthesiology

Moderator: David W. Barbara, MD, Mayo Clinic,
Rochester, Minnesota

CA 1 (484) Timing of Recombinant Activated Factor Seven Administration in Severe Bleeding Cardiac Surgery Patients Does it Make Difference?

Mahmoud I. Abdalla, Hesham Ewila, Mahmoud Eissa, Abdulaziz Alkhulaifi, Rajivir Singh
Qatar Heart Hospital, Doha, Qatar

CA 3 (531) The Effect of Aortic Regurgitant Jet Directionality on Energy Loss

Koichi Akiyama¹, Isaac Wu¹, Atsushi Kainuma², Yasufumi Nakajima³, Teiji Sawa², Keiichi Itatani², Hiroo Takayama¹

¹Columbia University Medical Center, New York, New York, ²Kyoto Prefectural University of Medicine, Kyoto City, Kyoto, Japan, ³Kansai Medical University, Hirakata City, Osaka, Japan

CA 4 (841) Phenotyping Anesthesiology Providers for Hypotension Episodes during Coronary Artery Bypass Surgery

Miguel Á. Armengol de la Hoz, Ariel Mueller, Sarah Nabel, Balachundhar Subramaniam, Satya Krishna Ramachandran
Beth Israel Deaconess Medical Center; Harvard Medical School, Boston, Massachusetts

CA 5 (1192) Intraoperative Blood Pressure Thresholds and Major Adverse Events Following Cardiac Surgery: An Exploratory Analysis

Miguel Á. Armengol de la Hoz, Ariel Mueller, Satya Krishna Ramachandran, Sarah Nabel, Balachundhar Subramaniam
Beth Israel Deaconess Medical Center; Harvard Medical School, Boston, Massachusetts

9:30 am – 11:00 am

MODERATED POSTER DISCUSSION SESSION-01, continued

Group 2: Critical Care

Moderator: Ashish Khanna, MD, FCCP, FCCM,
Cleveland Clinic Foundation, Cleveland, Ohio

CC 7 (716) Non-Convulsive Status Epilepticus after Coronary Artery Bypass Graft Surgery with and without Concomitant Valve Replacement on Cardiopulmonary Bypass

Martin Dworschak¹, Keso Skhirtladze-Dworschak², Rebekka Jung², Susanne Aull-Watschinger², Ekaterina Pataraia²

¹Division of Cardiothoracic and Vascular Anesthesia and Intensive Care Medicine, Vienna, Austria, ²Medical University of Vienna, Vienna, Austria

CC 8 (723) Does Real Time Ultrasonography during Bronchoscopy Guided Percutaneous Tracheostomy Confer Any Benefit : A Preliminary, Randomised Controlled Trial

Richa Aggarwal, Kapil Soni
All India Institutes of Medical Sciences, New Delhi, India

CC 9 (1385) Implementation of a Simulation-Based Training Program for ECMO Complications

Mark Caridi-Scheible, Sarah Burke, Brent Kidd, **Hemanckur Makker,** Matthew Wiepking, Mark Caridi-Scheible, Leon Eydelman
Emory University School of Medicine, Atlanta, Georgia

CC 10 (1258) Focused Transthoracic Echocardiography and In-hospital Cardiac Arrest: A Case Series of 10 Resident-obtained Echocardiograms in the Peri-resuscitative Period

Susan L. Herrick, Nibras Bughrara, Kirti Sahu, Scott Groudine, Kevin Roberts
Albany Medical College, Albany, New York

CC 11 (941) The Prognostic Value of Cardiac Power Output in Septic Patients

Beliz Bilgili, Zuhail Aykac, Muserref Turker
Marmara University, School of Medicine, Istanbul, Turkey

Saturday, April 28 • Moderated Poster Discussion Sessions

9:30 am – 11:00 am

MODERATED POSTER DISCUSSION SESSION-01, continued

Group 2: Critical Care, continued

CC 12 (1385) Non-invasive Optical Cerebral Blood Flow and Oxygenation Monitoring in Critically Brain-injured Patients

Wesley Baker¹, Ramani Balu¹, Lian He², David Busch², Arjun G. Yodh¹, Keith St. Lawrence³, William A. Kofke², Venkaiah Kavuri¹, Daniel Milej³, Mamadou Diop³, Lin Wang¹, Olivia Amendolia¹, Francis Quattrone¹, Suzanne Frangos¹, Eileen Maloney-Wilensky¹, Elizabeth Mahanna¹

¹Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, ²University of Texas Southwestern, Dallas, Texas, ³University of Western Ontario, London, Ontario, Canada

Group 3: Liver

Moderator: Sean Josephs, MD, College of Medicine
University of Cincinnati, Cincinnati, Ohio

L 15 (562) Predicting Postoperative Liver Dysfunction using Indocyanine Green Clearance after Cardiac Surgery

Kaila Gordo¹, **Gebhard Wagener²**

¹Columbia University, New York, New York, ²College of Physicians and Surgeons of Columbia University Medical Center, New York, New York

L 16 (628) Predicting Poor Outcomes Following Pediatric Hepatectomy

Angelica A. Vargas¹, Nicholas R. Wasson¹, Joseph Lee², Caroline Lemoine², Ricardo Superina¹, Eric Cheon¹

¹Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, Illinois, ²Northwestern University, Feinberg School of Medicine, Chicago, Illinois

L 17 (1149) The Prolyl Hydroxylase Inhibitor DMOG Inhibits Hepatocyte Proliferation, but Induces Growth of Non-parenchymal Cells in a Rat Model In Vivo and In Vitro

Konstantin Dirscherl, Erik Schadde, Birgit Roth Z'Graggen, Christa Booy, Martin Schlapfer, Donat Spahn, Beatrice Beck-Schimmer

University of Zürich; University Hospital of Zürich, Zürich, Switzerland

9:30 am – 11:00 am

MODERATED POSTER DISCUSSION SESSION-01, continued

Group 3: Liver, continued

L 18 (1179) Novel Insights into a Mitochondrial Immuno-Metabolism Connection Detected by RNA-Sequence Analysis of Experimental Drug-Induced Hepatitis in BALB/c Mice

Anthony Franchetti, Alyssa R. Padover, Merylin Cottagiri, Connover Talbot, **Dolores B. Njoku**

Johns Hopkins Hospital, Baltimore, Maryland

LB L 19 (1502) Post Liver Transplant Respiratory Failure: Predictors and Clinical Outcomes

Ryan Graham, Jeffrey Mella, Weston Bush, Richard S. Mangus

Indiana University School of Medicine, Indianapolis, Indiana

Group 4: Medically Challenging Cases

Moderator: Claude Abdallah, MD, MSc, Children's
National Health System, Washington, DC

MCC 24 (551) Bronchus Transection after Blunt Trauma

Christopher Denny, Shira Gambrel, **Dung D. Nguyen**, Sean Lawson

University of Kentucky Health Care, Lexington, Kentucky

MCC 25 (855) Penetrating Atherosclerotic Ulcer of the Ascending Aorta: A Case Report

Yen K. Chau, Jose Humanez

University of Alabama at Birmingham Hospital, Birmingham, Alabama

MCC 26 (1184) Arterial Blood Gas from Misplaced Central Venous Catheter: What Do You Do?

Yosaf Zeyed, Pankaj Jain

University of Miami/Jackson Memorial Medical Center, Miami, Florida

MCC 27 (1083) Anesthetic Management of an Adult Patient with Kenny-Caffey Syndrome Type 2

Yuel-Kai Jean¹, Bansi Patel², Keith Candiotti¹, Yiliam F. Rodriguez¹

¹University of Miami/Jackson Memorial Medical Center, Miami, Florida, ²Nova Southeastern University, Fort Lauderdale, Florida

Saturday, April 28 • Moderated Poster Discussion Sessions

9:30 am – 11:00 am

MODERATED POSTER DISCUSSION SESSION-01, continued

Group 4: Medically Challenging Cases, continued _____

MCC 28 (1234) Anesthetic Considerations for Cesarean Delivery in a Primigravida with Supraventricular Tachycardia without Re-entrant Features and History of Wolff-Parkinson-White Syndrome with Incomplete Ablation

Yuel-Kai Jean, Catherine X. Chen, Armando M. Pancorbo, Selina D. Patel

University of Miami; Jackson Memorial Medical Center, Miami, Florida

MCC 29 (1246) Case Report: Novel Use of Thromboelastography to Diagnose Hypercoagulability and Enoxaparin Failure Despite Therapeutic Anti-FXa Activity in a Patient with Bladder Cancer

Alexander Hawson

University of California, San Francisco School of Medicine, San Francisco, California; Cleveland Clinic Foundation, Cleveland, Ohio

Group 5: Medically Challenging Cases, Metabolism and Perioperative Care, and Obesity _____

Moderator: Johanna de Haan, MD, University of Texas Health Science Center at Houston, Houston, Texas

O 33 (583) Apneic Oxygenation with a Nasal Cannula in the Morbidly Obese Patient: A Randomized, Double-Blinded, Placebo-Controlled Trial

Tiffany Moon, Agnes Kim, Callie Ebeling, Arghavan Sharifi, Kevin Vu, Rachael Lu, **Nwamaka Nnamani**

University of Texas Southwestern Medical Center, Dallas, Texas

O 34 (775) A Novel Modified Nasal PAP Mask Assembly Maintained Spontaneous Ventilation and Oxygenation in a Morbidly Obese Patient with Severe OSA and Asthma during Hysteroscopy and D&C under Spinal Anesthesia

Vrajesh Mehta, James Tse, Justin Roberts, Sylviana Barsoum

Rutgers Robert Wood Johnson Medical School, New Brunswick, New Jersey

9:30 am – 11:00 am

MODERATED POSTER DISCUSSION SESSION-01, continued

Group 5: Medically Challenging Cases, Metabolism and Perioperative Care, and Obesity, continued _____

MPC 35 (786) The Effects of Major Hepatobiliary Surgery and General Anesthesia on Skeletal Muscle Mitochondrial Respiration: A Pilot Study

Jia Liu Stevens¹, Helen McKenna¹, Andrew Murray², Gavin Jell¹, Daniel Martin¹

¹University College London, London, England, ²University of Cambridge, Cambridge, England

O 36 (835) Paternal BMI Affects Neonatal Weight: A Retrospective Study

Danielle Levin, Shaul Cohen, Scott Mellender, Rong Zhao, Adil Mohiuddin, Ushma Shah, Geza Kiss

Rutgers Robert Wood Johnson Medical School, New Brunswick, New Jersey

MCC 37 (839) Successful Anesthetic Management of a Patient with Multiple Trauma and Severe Hypothermia: A Case Report

Danielle Levin, Shaul Cohen, Scott Mellender, Preet Patel, Adil Mohiuddin, Ushma Shah, Geza Kiss

Rutgers Robert Wood Johnson Medical School, New Brunswick, New Jersey

Group 6: Medically Challenging Cases and Obesity _____

Moderator: James Tse, MD, PhD, Rutgers Robert Wood Johnson Medical School, New Brunswick, New Jersey

O 42 (851) Severity and Duration of Hypoxemia during Outpatient Endoscopy in Obese Patients

Anton Laffin¹, Samir Kendale¹, Tessa K. Huncke²

¹New York University School of Medicine, New York, New York, ²New York University Health, New York, New York

O 43 (894) Dexmedetomidine Versus Morphine for Postoperative Analgesia after Laparoscopic Bariatric Surgery

Carine Zeeni¹, Sara Naji², Dayane Daou², Samar Jabbour², Sahar Siddik-Sayid²

¹American University of Beirut Medical Center, Beirut, Lebanon, ²American University of Beirut, Beirut, Lebanon

Saturday, April 28 • Moderated Poster Discussion Sessions

9:30 am – 11:00 am

MODERATED POSTER DISCUSSION SESSION-01, continued

Group 6: Medically Challenging Cases and Obesity, continued

O 44 (1333) Effect of Pediatric Obesity Pre-anesthesia Evaluation Guidelines in Anesthetic Complications: A Multidisciplinary Effort

Vera A. Sergeeva, Amy Andersen, Brian D. Soriano, Maida L. Chen, Grace Kim, Nathalia Jimenez

Seattle Children's Hospital, Seattle, Washington

O 45 (1347) The Evaluation of NSAIDs in the Perioperative Period – A Retrospective Analysis of Bariatric Surgery Patients

Singh Nair¹, Victor Tseng¹, Ellise Delphi², Annelisa Tucker¹

¹Montefiore Medical Center, Bronx, New York, ²Montefiore Medical Center; Albert Einstein College of Medicine, Bronx, New York

MCC 46 (999) The Anesthetic Management of an Adolescent with Autism Spectrum Disorder and Super-Super Obesity: A Case Report

Deric B. Diep¹, Jonathan Hooper¹, Naveen Eipe²

¹University of Ottawa, Ottawa, Ontario, Canada, ²University of Ottawa Faculty of Medicine, Ottawa, Ontario, Canada

MCC 47 (1217) Anesthetic Challenges of Emergency Gynecological Surgery in a Jehovah's Witness with Fontan Circulation: A Case Report

Deric B. Diep, Malcolm Lucy, Ashraf Fayad

University of Ottawa, Ottawa, Ontario, Canada

Group 7: Pain and Addiction Pathways, Pain Mechanisms, and Pain Medicine

Moderator: Honorio Benzon, MD, Northwestern University Feinberg School of Medicine, Chicago, Illinois

PAP 51 (793) Are the Patients with Opioid Use Disorder Prone to Relapse to Opioids in the Postoperative Period?

Khodadad Namiranian

Veterans Affairs Maryland Health Care System, Baltimore, Maryland

9:30 am – 11:00 am

MODERATED POSTER DISCUSSION SESSION-01, continued

Group 7: Pain and Addiction Pathways, Pain Mechanisms, and Pain Medicine, continued

PAP 52 (992) Car8 Analgesia Assessed in Morphine Equivalence Using Mechanical Antinociception: Implications for Allometric Dosing and Translation from Mice to Humans

Eugene Fu, Konstantinos D. Sarantopoulos, Gerald Z. Zhuang, Udit Upadhyay, Yuan Kang, Roy C. Levitt

University of Miami, Miller School of Medicine, Miami, Florida

PM 53 (1235) Role of Pain Specialists in Reducing Healthcare Costs for Patients with Chronic Pain

Jennifer Anderson¹, Kathryn Komaki¹, Steven Prakken², Lance Roy¹, Thomas Buchheit², John Hunting¹, **Padma Gulur²**

¹Duke University Medical Center, Durham, North Carolina,

²Duke University School of Medicine, Durham, North Carolina

PME 54 (1405) Skin Overexpression of Neurturin Upregulates TNF- α in CFA Inflammation

Marsha E. Ritter Jones, Kathryn Albers, Brian Davis

University of Pittsburgh, Pittsburgh, Pennsylvania

Group 8: Pediatric Anesthesiology

Moderator: Jeffrey Berman, MD, University of North Carolina, Chapel Hill, North Carolina

PED 60 (548) Perioperative Outcomes and Management in LeFort III Midface Advancement Surgery: A Multicenter Study from the Pediatric Craniofacial Collaborative Group

Chris D. Glover¹, Allison M. Fernandez², Henry Huang¹, Nicholas M. Dalesio³, John Zhong⁴, Wendy Binstok⁵, Paul A. Stricker⁶

¹Baylor College of Medicine, Houston, Texas, ²Johns Hopkins All Children's Hospital, St. Petersburg, Florida,

³The Johns Hopkins University School of Medicine, Baltimore, Maryland, ⁴Children's Medical Center, Dallas, Texas, ⁵The University of Chicago Medicine, Chicago, Illinois, ⁶The Children's Hospital of Philadelphia / Perelman School of Medicine at the University of Pennsylvania, Philadelphia, Pennsylvania

9:30 am – 11:00 am

MODERATED POSTER DISCUSSION SESSION-01, continued

Group 8: Pediatric Anesthesiology, continued

PED 61 (549) Morbidity and Mortality in Infants Operated in a Tertiary Eye Care Hospital: A Ten-year Retrospective Study

Lakshmi P. Srinivasan, Jagadeesh Viswanathan

Sankara Nethralaya Medical Research Foundation, Chennai, Tamil Nadu

PED 62 (945) Pediatric Difficult Airway Diagnoses Mapping to SNOMED CT Terminology

Jorge A. Galvez¹, **Young May Cha**², Patrick J. McCormick³, Jack O. Wasey¹, Lezhou Wu¹, **Jonathan Tan**¹, John E. Fiadjoe¹

¹The Children's Hospital of Philadelphia, Philadelphia, Pennsylvania, ²Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, ³Memorial Sloan Kettering Cancer Center, New York, New York

PED 63 (1115) Trajectories of Brain Lactate Do Not Contribute to Aerobic Glycolysis across Childhood

Sabah Rid¹, Zvi Jacob², Rany Makaryu², Fahmeed Hyder¹, Gerald Diene³, Douglas L. Rothman⁴, Helene Benveniste¹

¹Yale School of Medicine, New Haven, Connecticut, ²Stony Brook University, Stony Brook, New York, ³University of New Mexico, Albuquerque, New Mexico, ⁴Yale School of Engineering and Applied Sciences, New Haven, Connecticut

PED 64 (1398) Intravenous Fluid Administration in Pediatric Patients Undergoing Colectomy: Retrospective Analysis

Ethan L. Sanford, David Zurakowski, Anna Litvinova, Joseph Cravero

Boston Children's Hospital, Boston, Massachusetts

PED 65 (1430) Dosing Variation in Pediatric Regional Blockade: A PRAN Database Study

David M. Polaner¹, Matthew Hoyt², Andreas Taenzer³

¹University of Colorado Denver School of Medicine, Aurora, Colorado, ²Dartmouth Medical School, Lebanon, New Hampshire, ³Dartmouth-Hitchcock Medical Center, Hanover, New Hampshire

9:30 am – 11:00 am

MODERATED POSTER DISCUSSION SESSION-01, continued

Group 9: Technology, Computing and Simulation, Equipment Monitoring

Moderator: Ibtesam Hilmi, MD, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania

TCSEM 69 (627) Activity Tracker-measured Ambulation is an Accurate and Reliable Determinant of Quality of Recovery after Regional Anesthesia Interventions: A Prospective Cohort Validation Study

Faraj Abdallah¹, John Laffey², Duminda N. Wijeyesundera², Colin McCartney¹

¹University of Ottawa, Ottawa, Ontario, Canada, ²University of Toronto, Toronto, Ontario, Canada

TCSEM 70 (1053) Improving Preoperative Risk Assessment: A Pilot Study Comparing Physician Clinical Judgement with Computer Algorithms

Meghan Brennan, Suhil Puri, Tezcan Ozrazgat-Baslanti, Petar Momcilovic, Daisy Z. Wang, Azra Bihorac

University of Florida College of Medicine, Gainesville, Florida

TCSEM 71 (1331) Inter-professional Simulation Based Education in Critical Care Medicine

Meghan Brennan, Isaac Luria, Chris Giordano, Peggy White

University of Florida College of Medicine, Gainesville, Florida

TCSEM 72 (1181) Perioperative Central Volume Status in Healthy Children and in Children with Congenital Heart Disease

David Leopold¹, Kristen Campbell², Laura Pyle², Richard Ing^{1,2}, Jane Mulligan³, Mark Twite^{1,2}, Steven Moulton^{1,2,3}

¹Children's Hospital Colorado, Aurora, Colorado, ²University of Colorado Denver School of Medicine, Aurora, Colorado, ³Flashback Technologies, Inc., Louisville, Colorado

TCSEM 73 (1365) Joint Modeling and the Compensatory Reserve Index: Insight into Hemodynamic Compensation during the Induction of General Anesthesia

David Leopold¹, Kristen Campbell², Laura Pyle², Richard Ing^{1,2}, Jane Mulligan³, Mark Twite^{1,2}, Steven Moulton^{1,2,3}

¹Children's Hospital Colorado, Aurora, Colorado, ²University of Colorado Denver School of Medicine, Aurora, Colorado, ³Flashback Technologies, Inc., Louisville, Colorado

TCSEM 74 (1126) Virtual Reality Use in Adult ICU to Mitigate Anxiety for a Patient on VV ECMO: A Feasibility Trial

Gregory J. Blair, Sheela Pai Cole, Sam Rodriguez

Stanford Hospital, Stanford, California

Saturday, April 28 • Moderated Poster Discussion Sessions

9:30 am – 11:00 am

MODERATED POSTER DISCUSSION SESSION-01, continued

Group 10: Bench Science and Critical Care

Moderator: Edward Bittner, MD, Massachusetts General Hospital, New York, New York

BS 78 (516) Gut Commensal Metabolites Regulate Sterile Lung Inflammation in Mice: A Role for Acetate and Propionate

Arun Prakash, Xiaoli Tian, Judith Hellman

University of California, San Francisco School of Medicine, San Francisco, California

LB CC 79 (1472) Hindlimb Muscle Compromise during the Course of Acute Lung Injury in Mice

Matias Iglesias, Maria N. Marin, Lucia Noboa, Amparo Fernandez, Agustina Vacca, Romina Rodriguez, Fabiana Gámbaro

Universidad de la República School of Medicine, Montevideo, Uruguay

LB CC 80 (1521) Propofol Impacts Neutrophil Extracellular Trap (NET) Production

Angela Meier¹, Laura Hobohm², Jason Chien¹, Victor Nizet¹, Ross Corriden¹

¹University of California, San Diego School of Medicine, San Diego, California, ²University of Hannover, San Diego, California

LB CC 81 (1468) The Benefits of Using Charge Codes in Perioperative and Critical Care Research

Julien L Cobert¹, Sharon L. McCartney¹, Alan Ellis², Nathaniel Greene¹, Mihaela S. Stefan³, **Karthik L. Raghunathan¹**

¹Duke University Medical Center, Durham, North Carolina, ²North Carolina State University, Raleigh, North Carolina, ³Institute for Healthcare Delivery and Population Science, Baystate Springfield, Massachusetts

LB CC 82 (1466) Association of Age and Gender with Postoperative Respiratory Failure

Punit Singh, Ali Seifi

University of Texas Health Science Center at San Antonio, San Antonio, Texas

CC 83 (620) Severe Myxedema Coma: A Diagnostic Dilemma and Management Challenges

Hina Faisal¹, Navneet Grewal², Nasir Tanauli³, Farrakh Khawaja³

¹McGovern Medical School at University of Texas Houston Science Center, Houston, Texas, ²University of Texas, Houston, Houston, Texas, ³U.S. Anesthesia Partners, Houston, Texas

11:15 am – 12:45 pm

MODERATED POSTER DISCUSSION SESSION-02

Group 1: Economics, Education and Policy

Moderator: Edward Nemergut, MD, University of Virginia School of Medicine, Charlottesville, Virginia

EEP 87 (591) Metacognition Principles in a Didactic TEE Education Program

Sheldon Goldstein¹, Dennis Feierman², Ellise Delphin¹, Yuriy Gubenko³, Nikolas Skubas³

¹Montefiore Medical Center/Albert Einstein College of Medicine, Bronx, New York, ²Maimonides Medical Center, Brooklyn, New York, ³Rutgers New Jersey Medical School – Newark, Newark, New Jersey

EEP 88 (810) Building an Academic Anesthesiology Career Using the Medical Academic Grid (MAG®)

Sheldon Goldstein

Montefiore Medical Center / Albert Einstein College of Medicine, Bronx, New York

EEP 89 (700) Perspective on Leadership and Millennial Physicians

Marianne H. Gelter¹, Phillip Boysen²

¹Ochsner Clinic Foundation, New Orleans, Louisiana, ²University of Queensland Ochsner Clinical School, New Orleans, Louisiana

EEP 90 (864) The "Mock OSCE": Preparing Residents for the ABA Objective Structured Clinical Examination

Marianne H. Gelter¹, Phillip Boysen², Leo Nunnink³, Robin Stedman⁴, Kelly Ural⁴, Elaine Pages-Arroyo⁴

¹Ochsner Main Campus, New Orleans, Louisiana, ²Ochsner Clinic Foundation, New Orleans, Louisiana, ³The University of Queensland, New Orleans, Louisiana, ⁴Ochsner Health System, New Orleans, Louisiana

EEP 91 (1403) Airing the Dirty Laundry of Medical Practice on the Comedy Television Show Scrubs: Reality Television Discussing the Real Issues in Medicine

Yvon F. Bryan¹, Phillip Kostelic², Douglas H. McLaughlin³, Ryan Keenan¹

¹Wake Forest University School of Medicine, Winston-Salem, North Carolina, ²West Virginia School of Medicine, Morgantown, West Virginia, ³Wake Forest Baptist Health, Winston-Salem, North Carolina

Saturday, April 28 • Moderated Poster Discussion Sessions

11:15 am – 12:45 pm

MODERATED POSTER DISCUSSION SESSION-02, continued

Group 1: Economics, Education and Policy, continued

EEP 92 (1407) The Depiction of Clinical Research Studies on Grey's Anatomy: Trailers with Few Clinical Trials But Many Errors

Yvon F. Bryan¹, Douglas H. McLaughlin², Ryan Keenan³, Phillip Kostelic⁴, Kathleen Johnson¹

¹Wake Forest University School of Medicine, Winston-Salem, North Carolina, ²Wake Forest Baptist Health, Winston-Salem, North Carolina, ³Wake Forest School of Medicine, Winston-Salem, North Carolina, ⁴West Virginia School of Medicine, Morgantown, West Virginia

Group 2: Economics, Education and Policy and Pain Medicine

Moderator: Debra Pulley, MD, Washington University in St. Louis School of Medicine, St. Louis, Missouri

EEP 96 (899) Effectiveness of a Flipped Classroom Model Compared to a Traditional Format in Anesthesiology Education

Brian Egan¹, Jonathan Hastie¹, Meiko Lin², Danielle Ludwin¹, Maya Hastie¹

¹Columbia University Medical Center, New York, New York,

²Teachers College, New York, New York

EEP 97 (1116) Increasing Anesthesia Research Productivity through a 5-year Strategic Planning Process

Shelly Au¹, Stephen Choi¹, Sinziana Avramescu¹, Asim Q. Alam¹, Fahad Alam¹, Sue Belo¹, Beverley A. Orser²

¹Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada, ²University of Toronto Faculty of Medicine, Toronto, Ontario, Canada

EEP 98 (1122) The Application of Bayes' Theorem to Justify the Use of a Triple-phase Bone Scan (TPBS) in Helping Diagnose Complex Regional Pain Syndrome (CRPS) within Select Patient Populations

Maunak Rana¹, Luis Soliz²

¹The University of Chicago Medicine, Chicago, Illinois,

²Rush University Medical Center, Chicago, Illinois

11:15 am – 12:45 pm

MODERATED POSTER DISCUSSION SESSION-02, continued

Group 2: Economics, Education and Policy and Pain Medicine, continued

PM 99 (1397) The Application of Bayes' Theorem for Diagnosing Herniated Nucleus Pulposus (HNP) Based on Physical Exam Findings

Maunak Rana¹, Luis Soliz²

¹The University of Chicago Medicine, Chicago, Illinois,

²Rush University Medical Center, Chicago, Illinois

EEP 100 (1154) Retraction of Anesthesia Publications: A Systematic Review

Chetra Yean¹, Jennifer Yoo¹, Ricardo Maturana², Singh Nair², Ellise Delphin^{1,2}

¹Albert Einstein College of Medicine, Bronx, New York,

²Montefiore Medical Center, Bronx, New York

LB EEP 101 (1487) Efficacy of Immediate Versus Delayed Feedback Education in Reducing Documentation Errors by Anesthesia Clinicians

Nicole Hitti¹, Colleen DiStefano¹, Paulette Eng², Carrie Bregman², Virginia Tangel¹, Nhan Cho², Patricia Mack¹

¹Weill Cornell Medicine, New York, New York, ²New York Presbyterian Hospital, New York, New York

Group 3: Geriatric Anesthesia

Moderator: Sinziana Avramescu, MD, PhD, FRCPC, University of Toronto, Toronto, Ontario, Canada

GA 105 (502) Dexmedetomidine with Sufentanil in Intravenous Patient-Controlled Analgesia for Relief from Postoperative Pain, Inflammation, and Delirium after Esophageal Cancer Surgery

Chaoliang Tang¹, Juan Li², Weifeng Yao³, Lydia W. Tai⁴, Si Shi¹, Zhongyuan Xia¹

¹Renmin Hospital of Wuhan University, Wuhan, China,

²Anhui Provincial Hospital of Anhui Medical University, Hefei, Anhui, ³The Third Affiliated Hospital of Sun Yat-sen University, Guangzhou, Guangdong, ⁴The University of Hong Kong, Hong Kong, China

Saturday, April 28 • Moderated Poster Discussion Sessions

11:15 am – 12:45 pm

MODERATED POSTER DISCUSSION SESSION-02, continued

Group 3: Geriatric Anesthesia, continued

GA 106 (763) Effect of Intubation Duration on Post-Operative Delirium after Cardiac Surgery

Angela Mickle, Thaddeus Budelier, Jamila Burton, Jordan Oberhaus, Daniel Park, Sherry McKinnon, Michael Avidan

Washington University School of Medicine in St. Louis, St. Louis, Missouri

GA 107 (785) Depth of Sedation as an Interventional Target to Reduce Postoperative Delirium: A Randomized Clinical Trial

Frederick Sieber¹, Karin Neufeld¹, Allan Gottschalk², Esther Oh¹, Jean Pierre Ouanes², George Bigelow¹, Naeyuh Wang¹

¹Johns Hopkins Medical Institutions, Baltimore, Maryland,

²Johns Hopkins Hospital, Baltimore, Maryland

GA 108 (1260) Clock Drawing Performance Declines Significantly for Older Adults after Total Knee Arthroplasty and General Anesthesia

Loren P. Hize¹, Margaret Wiggins¹, Shawna Amini¹, Eric Warner¹, Randall Davis², David Libon³, Patrick J. Tighe¹, Cynthia Garvan¹, Catherine Price¹

¹University of Florida College of Medicine, Gainesville, Florida, ²Massachusetts Institute of Technology, Cambridge, Massachusetts, ³Rowan University, Glassboro, New Jersey

GA 109 (1353) Older Adults' Preoperative Cognition and Gray/White Matter Brain Integrity Predict

Variability During TKA Tourniquet Up to Tourniquet Down

Carlos Hernaiz, Jared J. Tanner, Christoph Seubert, Hari K. Parvataneni, Cynthia Garvan, Catherine Price

University of Florida College of Medicine, Gainesville, Florida

GA 110 (1396) Changes in Cerebrospinal Fluid Leukocyte Levels in Patients before and after Surgery Using an Optimized Polychromatic Flow Cytometry Panel

Jake P. Thomas, Miles Berger, David Murdoch, Mary Cooter, Janet Staats, Cliburn Cha, Kent Weinhold

Duke University Medical Center, Durham, North Carolina

11:15 am – 12:45 pm

MODERATED POSTER DISCUSSION SESSION-02, continued

Group 4: Global Health and Regional Anesthesia

Moderator: Sandra L. Kopp, MD, Mayo Clinic, Rochester, Minnesota

GH 114 (575) Longitudinal Assessment of an Integrated Global Anesthesia Elective during Residency Training

J. Matthew Kynes¹, Jenna H. Sobey¹, Mark Newton²

¹Vanderbilt University Medical Center, Nashville, Tennessee, ²Kijabe AIC Hospital, Kijabe, Kenya

GH 115 (659) Addressing the Global Demand for Educational Material with an Online Open-access, Internet-based Lecture Repository in Pediatric Anesthesia

J. Matthew Kynes¹, Grace Hsu², Faye M. Evans³

¹Vanderbilt University Medical Center, Nashville, Tennessee, ²Children's Hospital of Philadelphia, Philadelphia, Pennsylvania, ³Boston Children's Hospital, Boston, Massachusetts

RA 116 (601) Observed Differential Interest in Types of Peripheral Nerve Blocks Based on Country Income Level

Huseyin Tunceroglu, **Vikas O'Reilly-Shah**

Emory University School of Medicine, Atlanta, Georgia

GH 117 (1127) Using a Mobile App to Collect Data for an International Pediatric Perioperative Outcomes Study: Feasibility Assessment

Vikas O'Reilly-Shah, Young Moo 'Daniel' Yoo

Emory University School of Medicine, Atlanta, Georgia

Group 5: Medically Challenging Cases

Moderator: Daniel Bustamante, MD, University of Tennessee, Knoxville, Tennessee

MCC 123 (550) Lessons Learned from the Anesthetic Management of a Pediatric Patient with Dandy Walker Syndrome after Multiple Anesthetics

Asif Khan, Mihir Parikh, Aditee Ambardekar

University of Texas Southwestern Medical Center, Dallas, Texas

MCC 124 (637) PICC Line Challenge

Pavel Balduyeu, Laurie Davies

University of Florida College of Medicine, Gainesville, Florida

Saturday, April 28 • Moderated Poster Discussion Sessions

11:15 am – 12:45 pm
MODERATED POSTER DISCUSSION SESSION-02,
continued

Group 5: Medically Challenging Cases, continued _____

MCC 125 (1442) When Metal is not Real

Pavel Balduyeu, Heather Reed, Lorrent Duce

University of Florida College of Medicine, Gainesville, Florida

MCC 126 (673) Right Ventricular Assist Device Placement for Acute Right Ventricular Failure after Heart Transplantation: Echocardiographic Guidance throughout the Perioperative Process

Megan Hedlund, Daniel Johnson

University of Nebraska Medical Center, Omaha, Nebraska

MCC 127 (889) Thromboelastography (TEG)-guided Hemodynamic Resuscitation in a Patient with Severe Hemorrhagic Coagulopathy with Acquired Hemophagocytic Lymphohistiocytosis Related to Epstein-Barr Virus

Megan Hedlund, Daniel Johnson

University of Nebraska Medical Center, Omaha, Nebraska

Group 6: Neuroscience in Anesthesiology and Perioperative Medicine _____

Moderator: Robert Craft, MD, University of Tennessee, Knoxville, Tennessee

NR 132 (771) The Association between Angiotensin Converting Enzyme Inhibitors and Angiotensin Receptor Blocker Use and the Incidence of Delirium in Surgical ICU Patients

Christopher Sheerer¹, Jacob Ezell¹, Maged Y. Argalious¹, Wael Ali Sakr Esa¹, Daniel I. Sessler¹, Nicole Zimmerman¹, Ehab Farag^{1,2}

¹Cleveland Clinic Foundation, Cleveland, Ohio,

²Anesthesiology Institute, Cleveland, Ohio

NR 133 (957) Auditory Novelty Detection in Awake and Anesthetized States: An Intracranial Electrophysiology Study

Matthew Banks¹, Kirill V. Nourski², Ariane E. Rhone², Mitchell Steinschneider³, Hiroto Kawasaki², Matthew A. Howard²

¹University of Wisconsin School of Medicine and Public Health, Madison, Wisconsin, ²University of Iowa, Iowa City, Iowa, ³Albert Einstein College of Medicine, New York, New York

11:15 am – 12:45 pm
MODERATED POSTER DISCUSSION SESSION-02,
continued

Group 6: Neuroscience in Anesthesiology and Perioperative Medicine, continued _____

NR 134 (1137) Can EEG Metrics Collected Prior to Laryngoscopy Predict Isolated Forearm Test Responsiveness after Laryngoscopy? A Secondary Analysis of the Conscious Study

Robert Sanders¹, Amy Gaskell², Darren F. Hight³, Vincent Bonhomme⁴, Jamie Sleight²

¹University of Wisconsin-Madison, Madison, Wisconsin,

²Waikato Hospital, Hamilton, New Zealand, ³Waikato Clinical School, Hamilton, New Zealand, ⁴Coma Science Center, Liege, Belgium

NR 135 (1158) Pain after Craniotomy and the Development of Long-term Headache after These Procedures: Can We Improve Outcomes?

Walter S. Jellish, Tewodrose Aseffa

Loyola University Medical Center, Maywood, Illinois

NR 136 (1205) Can National Surgical Quality Improvement Program (NSQIP) Risk Scores Aid in the Prediction of Patients at Risk of Postoperative Delirium? A Preliminary Analysis of the IPOD-B3 Study

Sara Twadell¹, Heidi Lindroth², Jane Kildow¹, Lily Turner¹, Wesley Chang¹, Robert Sanders¹

¹University of Wisconsin Madison, Madison, Wisconsin,

²University of Wisconsin Hospital and Clinics, Madison, Wisconsin

NR 137 (1341) Non-demented Older Adult Brains Show Widespread White Matter Extracellular Free-water 48 Hours after Total Knee Arthroplasty with General Anesthesia

Jared J. Tanner, Cheshire Hardcastle, Manish Amin, Hari K. Parvataneni, Thomas H. Mareci, Catherine Price

University of Florida College of Medicine, Gainesville, Florida

Saturday, April 28 • Moderated Poster Discussion Sessions

11:15 am – 12:45 pm

MODERATED POSTER DISCUSSION SESSION-02, continued

Group 7: Pain Mechanisms

Moderator: Raghuveer Ganta, MD, University
Oklahoma Health Center-Anesthesia, Oklahoma City,
Oklahoma

PME 141 (880) Gain Without Pain: CA8-204 Represents a Novel Analgesic Therapeutic Candidate

Roy C. Levitt¹, Udit Upadhyay¹, Luda Diatchenko², Gerald Z. Zhuang¹, Yuan Kang¹, Eugene Fu¹, Konstantinos D. Sarantopoulos¹

¹University of Miami, Miller School of Medicine, Miami, Florida, ²McGill University, Montreal, Quebec, Canada

PME 142 (994) Muscle Sensory Dysfunction in a Rat Model of Peripheral Arterial Disease: The Role of Microglial Activation in Chronic Limb Pain

Hanjun Wang, Irving H. Zucker, Ting Li, Juan Hong, Andrew J. Patterson, Steven J. Lisco

University of Nebraska Medical Center, Omaha, Nebraska

PME 143 (1051) Individuals with Parkinson's Disease Who Have Primary Executive Impairment are Experience Greater Pain Interference

Sam J. Crowley¹, Catherine Price^{1,2}, Yenisel Cruz-Alemida³, Patrick J. Tighe²

¹Clinical and Health Psychology, University of Florida College of Public Health and Health Professions, Gainesville, Florida, ²College of Anesthesiology, University of Florida College of Medicine, Gainesville, Florida, ³Institute on Aging, University of Florida, Gainesville, Florida

PME 144 (1061) Regulation of Nerve Injury-induced Gene Expression in Neuropathic Pain

Paul Su, Wulin Tan, Jacqueline Leff, Allan Basbaum, Zhonghui Guan

University of California, San Francisco School of Medicine, San Francisco, California

11:15 am – 12:45 pm

MODERATED POSTER DISCUSSION SESSION-02, continued

Group 8: Sleep Medicine

Moderator: Roman Schumann, MD, Tufts University
School of Medicine, Boston, Massachusetts

SM 150 (1219) Is Obstructive Sleep Apnea Associated with Postoperative Delirium and Cognitive Decline?

Michael Devinney¹, Yee Ching Vanessa Cheong², Victoria Wickenheisser², Mary Cooter³, Jennifer Dominguez³, Miles Berger³

¹Duke University Hospital, Durham, North Carolina, ²Duke University School of Medicine, Durham, North Carolina,

³Duke University Medical Center, Durham, North Carolina

SM 151 (676) Neurocognitive Functioning Following CPAP Treatment in Elderly Patients with Obstructive Sleep Apnea: A Meta-analysis of Randomized Controlled Trials

Talha Mubashir¹, Jayadeep Patra², Jean Wong², Clodagh Ryan², David F. Tang-Wai², David Wong², Frances F. Chung²

¹Toronto Western Hospital, Toronto, Ontario, Canada,

²University of Toronto Faculty of Medicine, Toronto, Ontario, Canada

SM 152 (767) Continuous Positive Pressure Therapy Improves Depressive Symptoms in Elderly Individuals with Obstructive Sleep Apnea: A Systematic Review and Meta-analysis

Talha Mubashir¹, Jayadeep Patra², Lusine Abrahamyan², Amelia Maynard², David F. Tang-Wai², Jean Wong², Frances F. Chung³

¹Toronto Western Hospital, Toronto, Ontario, Canada,

²University of Toronto, Toronto, Ontario, Canada,

³University of Toronto Faculty of Medicine, Toronto, Ontario, Canada

SM 153 (684) Association between Difficult Airway and Obstructive Sleep Apnea in Patients Undergoing Surgery: A Systematic Review and Bayesian Meta-Analysis of Prospective and Retrospective Cohort Studies

Mahesh Nagappa¹, David Wong², Crispiana Cozowicz³, Satya Krishna Ramachandran⁴, Stavros G. Memtsoudis³, Frances F. Chung⁵

¹Western University, London, Ontario, Canada, ²University of Toronto, Toronto, Ontario, Canada, ³Hospital for Special Surgery, New York, New York, ⁴Harvard Medical School at Beth Israel Deaconess Medical Center, Boston, Massachusetts, ⁵University of Toronto Faculty of Medicine, Toronto, Ontario, Canada

Saturday, April 28 • Moderated Poster Discussion Sessions

11:15 am – 12:45 pm

MODERATED POSTER DISCUSSION SESSION-02, continued

Group 8: Sleep Medicine, continued

SM 154 (1166) Risk Factors for Obstructive Sleep Apnea during Pregnancy: A Meta-analysis

Mahesh Nagappa¹, Sebastian Borowiec¹, Yamini Subramani¹, Frances F. Chung²

¹Western University, London, Ontario, Canada, ²University of Toronto Faculty of Medicine, Toronto, Ontario, Canada

11:15 am – 12:45 pm

MODERATED POSTER DISCUSSION SESSION-02, continued

Group 9: Perioperative Anesthesia, continued

LB PA 163 (1504) Multidisciplinary ERAS Approach in Esophagectomy Using a Clinical Care Pathway

Amy C. Lu, Brendan Visser, Mark Berry, Rika Ohkuma, Ning Tang, Sam Wald, Norman Rizk

Stanford University School of Medicine, Stanford, California

Group 10: Obstetric Anesthesiology and Pain Medicine

Moderator: Nabil Elkassabany, MD, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania

Group 9: Perioperative Anesthesia

Moderator: Sheila Riaz MD, Toronto Western Hospital; University of Toronto, Toronto, Ontario, Canada

PA 159 (638) Design of a Tool for Resident Education When Planning Anesthetics for Intracranial Neurosurgical Procedures

Robert A. Peterfreund¹, Pamela S. Jones¹, Michele D. Szabo¹, Oluwaseun Johnson-Akeju², Meerim (Cindy) Kim¹

¹Massachusetts General Hospital, Boston, Massachusetts, ²Harvard Medical School, Boston, Massachusetts

PA 160 (680) A Quality Improvement Project to Decrease the Risk of Perioperative Corneal Abrasions

Steven B. Porter, Kathryn S. Boles, Ingrid L. Rodgers, Eduardo S. Rodrigues

Mayo Clinic, Jacksonville, Florida

LB PA 161 (1486) Assessment of Functional Capacity before Major Elective Noncardiac Surgery: An International Multicenter Prospective Cohort Study

Duminda N. Wijeyesundera¹, Rupert Pearse², Mark Shulman³, Tom Abbott², Michael P. Grocott⁴, Paul Myles³, Brian Cuthbertson³

¹University of Toronto, Toronto, Ontario, Canada, ²Queen Mary University of London, London, England, ³Alfred Hospital, Melbourne, Australia, ⁴University of Southampton, Southampton, England

LB PA 162 (1497) Predictors of Clinical Outcomes for Sacrum Tumor Resection with/without Intra-aortic Balloon Occlusion: A Retrospective Cohort Study

Hong Zhao, Yingchao Song, Yi Feng

Peking University People's Hospital, Beijing, China

LB PM 168 (1503) A High Baseline Psycho-Somatic Symptom Profile Predicts Persistent Pain at One Year Following Spine Fusion in Children

Terri Voepel-Lewis, Shobha Malviya, Alan Tait, Michelle S. Caird, Frances A. Farley, G. Y. Li, Afton Hassett

University of Michigan Medicine, Ann Arbor, Michigan

LB PM 169 (1460) Utilization, Storage, and Disposal of Prescription Opioids Following Urologic Surgery: A Case for Procedure-Specific Opioid Prescriptions and Patient Education

Alison F. Brown, Michael Ferrandino, Edmund Ong, Thomas J. Hopkins, Michael Kent, Padma Gulur, **Jennifer Anderson**

Duke University School of Medicine, Durham, North Carolina

LB PM 170 (1469) Development of a Serotype E Botulinum Neurotoxin (EB-001) for Management of Musculoskeletal Pain: A Phase 2 Safety Study in a Mammoplasty Pain Model

Domenico Vitarella¹, Earvin Liang¹, Kevin Ruhge², Alina Beaton², Wajdie Ahmad¹, Fauad Hasan¹, Susan Abushakra¹

¹Bonti, Newport Beach, California, ²Lotus Clinical Research, Pasadena, California

LB PM 171 (1455) Epidural Levobupivacaine Versus a Combination of Levobupivacaine and Dexamethasone in Parturients Receiving Epidural Analgesia for Vaginal Delivery: A Comparative and Safety Evaluation

Amr S. Wahdan

Cairo University, Cairo, Egypt

Saturday, April 28 • Moderated Poster Discussion Sessions

11:15 am – 12:45 pm

MODERATED POSTER DISCUSSION SESSION-02, continued

Group 10: Obstetric Anesthesiology and Pain Medicine, continued _____

LB OB 172 (1456) Epidural Combination of Levobupivacaine and Dexmedetomidine Versus a Levobupivacaine with Fentanyl in Parturients Receiving Epidural Analgesia for Vaginal Delivery: A Comparative and Safety Evaluation

Amr S. Wahdan

Cairo University, Cairo, Egypt

2:00 pm – 3:30 pm

MODERATED POSTER DISCUSSION SESSION-03

Group 1: Airway Management _____

Moderator: Ahmed Attaallah, MD, PhD, Florida Hospital, Tampa, Florida

AM 1 (495) Evaluation of Effective Emergency Airway Management for Accidental Extubation in a Patient with Head Fixed in the Prone Position: A Randomized Crossover Manikin Study

Yukihide Koyama, Tomio Andoh

Mizonokuchi Hospital, Teikyo University School of Medicine, Kawasaki, Japan

AM 2 (498) Lubrication Inhibits the Increase in Cuff Pressure of Endotracheal Tubes during Nitrous Oxide Exposure: A Model Pediatric Trachea Study

Yukihide Koyama, Tomio Andoh

Mizonokuchi Hospital, Teikyo University School of Medicine, Kawasaki, Japan

AM 3 (827) Prevention of Tracheo-esophageal Fistula Formation during Percutaneous Tracheostomy

Yusuke Asakura

Nagoya Kyoritsu Hospital, Nagoya

AM 4 (1004) A Pilot Study of Radiological Variables to Predict Fiberoptic Intubation in Ankylosing Spondylitis with Cervical Spine Involvement

Lu Che¹, Zhu Hua Zhang¹, Li Jian Pei², Yuguang Huang¹

¹Peking Union Medical College Hospital, Beijing, China,

²Peking Union Medical College, Beijing, China

2:00 pm – 3:30 pm

MODERATED POSTER DISCUSSION SESSION-03, continued

Group 1: Airway Management, continued _____

AM 5 (1104) Difficult Tracheal Extubation in Adult Surgical Intensive Care

Tim Ziethen¹, Phillip Boysen², Bobby Nossaman², Michael Townsend², Jacqueline Wilson¹

¹Ochsner Medical Center, New Orleans, Louisiana,

²Ochsner Clinic Foundation, New Orleans, Louisiana

LB AM 6 (1483) Airway Audits and Results: What We Learn from Them?

Raghavendra P. Kulkarni

Kettering General Hospital, Kettering, England

Group 2: Bench Science _____

Moderator: Raquel Bartz, MD, MMCI, Duke University School of Medicine, Durham, North Carolina

BS 7 (748) A Novel $\alpha 2$ Agonist Photolabel Reveals a Binding Site for Dexmedetomidine on the $\alpha 2A$ Adrenergic Receptor

Andrew McKinstry-Wu, Kellie Woll, E. Railey White, Natarajan Bhanu, Benjamin Garcia, William Dailey, Roderic G. Eckenhoff

Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

BS 8 (1293) Ergodic Mice: Implications of Behavioral State Transitions at Constant Anesthetic Concentration

Andrew McKinstry-Wu, Andrej Wasilczuk, Alex Proekt

Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

BS 9 (809) Predictors of Penetrance of RYR1 Mutations Causing Malignant Hyperthermia

Sheila Riazi¹, Shuo Hu², Natalia Kraeva², Frank Schuster³, Stephan Johannsen³, Henrik Rueffert⁴, Werner Klingler⁵, Luc Heytens⁶

¹Toronto Western Hospital, Toronto, Ontario, Canada,

²University of Toronto, Toronto, Ontario, Canada,

³University of Wuerzburg, Wuerzburg, Germany, ⁴University of Leipzig, Leipzig, Germany, ⁵University of Ulm, Ulm, Germany, ⁶University of Antwerp, Antwerp, Belgium

Saturday, April 28 • Moderated Poster Discussion Sessions

2:00 pm – 3:30 pm
MODERATED POSTER DISCUSSION SESSION-03,
continued

Group 2: Bench Science, continued

BS 10 (1050) Therapeutic Targeting of High Mobility Group Box 1 in Rat Models of Pulmonary Hypertension

Benjamin E. Steinberg¹, Yijie Hu², Xudong Hu², Kevin J. Tracey³, Yousef Al-Abed³, Neil Goldenberg¹, Wolfgang M. Kuebler⁴

¹Hospital for Sick Children, Toronto, Ontario, Canada, ²St. Michael's Hospital, Toronto, Ontario, Canada, ³The Feinstein Institute for Medical Research, Manhasset, New York, ⁴Charité – Universitätsmedizin Berlin, Berlin, Germany

BS 11 (1278) Heat Transfer during Leg Warming with Intermittent Pneumatic Compression

Christopher Varga, Abigail Schirmer, Leshawn Richard, Nikolaus Gravenstein

University of Florida College of Medicine, Gainesville, Florida

BS 12 (1301) Stochastic Behavioral Transitions: Contributions to Hysteresis

Alex Proekt, Andrej Wasilczuk, Max B. Kelz, Andrew McKinstry-Wu

Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

Group 3: Critical Care and Patient Safety

Moderator: Alex S. Evers, MD, Washington University School of Medicine in St. Louis, St. Louis, Missouri

PS 15 (1159) Prevalence of Burnout among Anesthesia Trainees in South-East Nigeria

Obinna V. Ajuzieogu

University of Nigeria, Enugu, Nigeria

CC 16 (1447) Catheter-Associated Urinary Tract Infection in a Low Resource Intensive Care Unit

Adaobi Amucheazi, Adaobi Amucheazi, Obinna V. Ajuzieogu

University of Nigeria, Enugu, Nigeria

2:00 pm – 3:30 pm
MODERATED POSTER DISCUSSION SESSION-03,
continued

Group 3: Critical Care and Patient Safety, continued

CC 17 (584) Association between Mean Arterial Pressure and Acute Kidney Injury and a Composite of Myocardial Injury and Mortality in Postoperative Critically Ill Patients

Ashish K. Khanna¹, Kamal Maheshwari², Guangmei Mao², Edward J. Mascha², Praneeta Chodavarapu³, Yehoshua Schacham⁴, Daniel I. Sessler²

¹Cleveland Clinic Lerner College of Medicine, Cleveland, Ohio, ²Cleveland Clinic Foundation, Cleveland, Ohio, ³University of Cincinnati, Cincinnati, Ohio, ⁴Sheba Medical Center, Ramat Gan, Israel

CC 18 (1404) Defining Familial Interactions and Networks (Define): An Exploratory Study on Family Networks and Surrogate Decision Making in the ICU

Meghan Lane-Fall¹, Adam Adenwala²

¹Perelman School of Medicine, University of Pennsylvania; Leonard Davis Institute for Health Economics, University of Pennsylvania, Philadelphia, Pennsylvania, ²University of Pennsylvania, Philadelphia, Pennsylvania

Group 4: Airway Management and Medically Challenging Cases

Moderator: Ibtesam Hilmi, MD, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania

MCC 24 (540) Case Report: The Use of Dexmedetomidine in a Parturient with Multiple Endocrine Neoplasia 2 Undergoing Adrenalectomy and Thyroidectomy

Amanda L. Faulkner, Eric Swanson, Annette Rebel

University of Kentucky, Lexington, Kentucky

MCC 25 (626) Hemorrhage during Hip Fracture Repair of a Patient with a Large Arterio-venous Malformation and Hyperhemolysis Syndrome

Jan-Pablo Kollmar, Julie L. Huffmyer, Katherine Black

University of Virginia School of Medicine, Charlottesville, Virginia

MCC 26 (925) Successful Treatment of Recurrent Chronic Scrotal Pain Secondary to Post Laminectomy Syndrome with Spinal Cord Stimulation

Matthew M. Skoblar, Brian Monroe, Ahmed Shaik

Geisinger Medical Center, Danville, Pennsylvania

Saturday, April 28 • Moderated Poster Discussion Sessions

2:00 pm – 3:30 pm
MODERATED POSTER DISCUSSION SESSION-03,
continued

Group 4: Airway Management and Medically Challenging Cases, continued

MCC 27 (1140) Anesthetic Management of Quaternary C/S in a Patient with Diffuse, Destructive Malignant Metastatic Lesions

Sapan Shah, Laurence Ring

Columbia University Medical Center, New York, New York

AM 28 (1156) Ultra Low-Cost and Minimally Stimulating Method of Relieving Airway Obstruction during MAC

Sapan Shah, H.T. Lee

Columbia University Medical Center, New York, New York

Group 5: Neuroscience in Anesthesiology and Perioperative Medicine

Moderator: Martin Dworschak, MD, MBA, Medical
University of Vienna, Vienna, Austria

NR 33 (840) Sevoflurane Interferes Cell Cycle through Inhibition of Wnt/ β -catenin Signaling Pathway in Mouse Neural Stem Cells

Shiwen Liu

Shanghai Zhongshan Hospital, Shanghai, China

NR 34 (1020) Midazolam Sedation Causes Long-term Learning Deficiency through Affecting Apoptosis and Proliferation

Jing Xu, Reilley P. Mathena, Cyrus D. Mintz

Johns Hopkins School of Medicine, Baltimore, Maryland

NR 35 (1153) The Pro-apoptotic Protein BAX is Necessary for Neuron Death Associated with Exposure to Isoflurane General Anesthesia in a Neonatal Mouse Model

Andrew Slupe¹, Laura E. Villasana¹, Kevin Wright²

¹Oregon Health and Science University, Portland, Oregon,

²Vollum Institute, Portland, Oregon

NR 36 (1325) Discriminative Capacity of EEG Power for the Onset and Severity of Delirium in the Postoperative Period

Ying Jiang, Emma R. Trammel, Ginika Apakama, James W. Spencer, Troy Wildes, Michael Avidan, Ben Palanca

Washington University School of Medicine in St. Louis, St. Louis, Missouri

2:00 pm – 3:30 pm
MODERATED POSTER DISCUSSION SESSION-03,
continued

Group 5: Neuroscience in Anesthesiology and Perioperative Medicine, continued

NR 37 (1400) Sevoflurane and Isoflurane Exposure in Aged Male Mice Leads to Synaptic Alterations in the Hippocampus

Matthew B. Friese, Xinling Xu, Deborah J. Culley, Gregory Crosby

Harvard Medical School/Brigham and Women's Hospital, Boston, Massachusetts

NR 38 (1438) Real-time Treatment of Cerebral Glycopenia after Brain Injury using Cerebral Microdialysis

Jovany Cruz Navarro, Andrew W. Kofke, Ramani Balu

Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

Group 6: Obstetric Anesthesiology

Moderator: Roman Schumann, MD, Tufts University
School of Medicine, Boston, Massachusetts

OB 42 (619) Use of Intrathecal Hydromorphone in Elective Cesarean Deliveries

Katherine Stiles, Matthew Wyatt, Grace Shih, Hilary Sheridan

The University of Kansas, Kansas City

OB 43 (764) Assessment of Maternal Peripheral Immune System by Mass Cytometry to Predict the Onset of Labor

Kazuo Ando, Xiaoyuan Han, Sajjad Ghaemi, Martin Angst, Brendan Carvalho, Nima Aghaeepour, Brice Gaudilliere

Stanford University School of Medicine, Stanford, California

OB 44 (1296) Do Obstetric Anesthesiologists Provide More Guideline-concordant Care for Patients Undergoing Cesarean Delivery?

Benjamin Cobb¹, Meghan Lane-Fall², Richard C. Month¹, Onyi C. Onuoha¹, Sindhu Srinivas¹, Mark D. Neuman¹

¹Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, ²Perelman School of Medicine, University of Pennsylvania; Leonard Davis Institute for Health Economics, University of Pennsylvania, Philadelphia, Pennsylvania

2:00 pm – 3:30 pm

MODERATED POSTER DISCUSSION SESSION-03, continued

Group 6: Obstetric Anesthesiology, continued

OB 45 (1434) Emotional Burden and Psychophysical Predictors of Labor Pain

Grace Lim¹, Lia M. Farrell¹, Andrea Gillman², Robert R. Edwards³, Ajay D. Wasan²

¹University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania, ²University of Pittsburgh, Pittsburgh, Pennsylvania, ³Brigham and Women's Hospital, Boston, Massachusetts

OB 46 (571) Wire Reinforced Epidural Catheters Decrease Complications in Chinese Obstetric Patients

Ning Yang

Beijing Hospital, Beijing, Beijing, China

Group 7: Ambulatory Anesthesia and Patient Safety

Moderator: Jose Humanez, MD, University of Alabama at Birmingham Hospital, Birmingham, Alabama

PS 51 (712) Predictive Factors of the Mechanical Complications of Central Venous Catheterization: A Multivariate Analysis of Case Records over Five Years at a University Hospital

Tomoko Yorozu, Joho Tokumine, Kiyoshi Moriyama, Yoshiaki Shiokawa

Kyorin University, School of Medicine, Mitaka City, Tokyo, Japan

PS 52 (1134) Medication Errors in Patients under General Anesthesia: A Systematic Review

Amir Abrishami¹, Jeff Correa², Lusine Abrahamyan³, Jean Wong³, Karen Nanji⁴, Beverley A. Orser³, Frances F. Chung³

¹McMaster University, Niagara Health, St. Catherine's, Hamilton, Ontario, Canada, ²University Health Network, Toronto, Ontario, Canada, ³University of Toronto, Toronto, Ontario, Canada, ⁴Harvard Medical School, Boston, Massachusetts

PS 53 (989) Laparoscopic Specimen Bag Designs – Impact on Patient Safety

Asha Mohammed

University of Bristol; Bristol Royal Infirmary, Bristol, England

2:00 pm – 3:30 pm

MODERATED POSTER DISCUSSION SESSION-03, continued

Group 7: Ambulatory Anesthesia and Patient Safety, continued

PS 54 (1222) Risk Factors for Opioid Induced Respiratory Depression in Surgical Patients: A Systematic Review and Meta-Analyses of Prospective and Retrospective Studies

Kapil Gupta¹, Mahesh Nagappa², Arun Prasad³, Lusine Abrahamyan⁴, Jean Wong⁴, Toby Weingarten⁵, Frances F. Chung⁶

¹Toronto General Hospital, Toronto, Ontario, Canada, ²Western University, London, Ontario, Canada, ³Toronto Western Hospital, Toronto, Ontario, Canada, ⁴University of Toronto, Toronto, Ontario, Canada, ⁵Mayo Clinic, Rochester, Minnesota, ⁶University of Toronto Faculty of Medicine, Toronto, Ontario, Canada

LB AMB 55 (1482) Development of a Novel Clinical Score to Estimate the Risk of Readmission after Ambulatory Surgery (ROAMS)

Maria D. Patrocinio¹, Bijan Teja², Paul Rostin¹, Sabine Friedrich¹, Timothy Houle¹, Matthias Eikermann²

¹Massachusetts General Hospital, Boston, Massachusetts, ²Beth Israel Deaconess Medical Center, Boston, Massachusetts

Group 8: Trauma

Moderator: Navneet Grewal, MD, McGovern School of Medicine at the University of Texas Health Science Center, Houston, Texas

T 60 (590) Severe Hemorrhagic Shock is Associated with Reduced TEG Maximum Amplitude in Human Traumatic Injury

Michael W. Russell¹, Jennifer Knapp¹, Gregory Schaefer¹, Katherin Sproul¹, Marcus R. Bruce¹, Eugenie Jackson², Michael Regier²

¹West Virginia University School of Medicine, Morgantown, West Virginia, ²West Virginia University School of Public Health, Morgantown, West Virginia

T 61 (812) Effects of Increased Number of Recorded Hypothermic Time Points in Critically Ill Trauma Patients Requiring Urgent Surgery on Mortality and Length of Stay

Kennedy Ning Hao¹, Shelley Au², Jeannie Callum², Dylan Pannell¹, Homer Tien¹, Asim Q. Alam²

¹University of Toronto, Toronto, Ontario, Canada, ²Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada

Saturday, April 28 • Moderated Poster Discussion Sessions

2:00 pm – 3:30 pm
MODERATED POSTER DISCUSSION SESSION-03,
continued

Group 8: Trauma, continued _____

T 62 (913) The Relationship between Seasonal Variation and Incidence of Hypothermia among Critically Ill Trauma Patients Who Require Urgent Operations

Kennedy Ning Hao¹, Shelley Au², Jeannie Callum², Dylan Pannell¹, Homer Tien¹, Asim Q. Alam²

¹University of Toronto, Toronto, Ontario, Canada,

²Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada

T 63 (850) The Optimum Intravenous Catheter for Massive Transfusions in Trauma; a Pragmatic In Vitro Study

Andrew Milne¹, Adam Collins², Andrew Vargas², Justin Teng²

¹Central London School of Anaesthetics, London, England,

²University of California, San Francisco School of Medicine, San Francisco, California

T 64 (937) Cervical Spine Clearance in Patients with Unreliable Clinical Exam: Delays and Complications

Josefine S. Baekgaard¹, Trine G. Eskesen¹, Jacob Steinmetz¹, Lars S. Rasmussen¹, David King², George C. Velmahos²

¹Rigshospitalet, Copenhagen, Denmark, ²Massachusetts General Hospital, Boston, Massachusetts

4:00 pm – 5:30 pm
MODERATED POSTER DISCUSSION SESSION-04

Group 1: Anesthetic Pharmacology _____

Moderator: Ken Solt, MD, Harvard Medical School / Massachusetts General Hospital Boston, Massachusetts

AP 69 (592) Dexamethasone – Efficacy for Prevention of Postoperative Vomiting – An Extensive Meta-analysis Comparing All Available Anti-emetics

Preet Mohinder Singh, Anuradha Borle

All India Institute of Medical Sciences, New Delhi, Delhi

AP 70 (667) Machine Learning as a Tool for Exploring Potential Anti-Emetic Mechanisms of Propofol Administered during Volatile Anesthesia

William C. Van Cleve

University of Washington Medicine, Seattle, Washington

4:00 pm – 5:30 pm
MODERATED POSTER DISCUSSION SESSION-04,
continued

Group 1: Anesthetic Pharmacology, continued _____

AP 72 (1112) Different Effects of Midazolam on Hippocampal and Parietal Cortical EEG Activities in Young and Aged Mice

Zifang Zhao¹, Yiqing Yin²

¹Peking University, Beijing, China, ²China-Japan Friendship Hospital, Beijing, China

AP 73 (1249) Inverse Agonist of $\alpha 5$ GABAA Receptors Had Preventive but Not Therapeutic Effects on Isoflurane-Induced Memory Impairments in Aged Rats

Zifang Zhao¹, Lei Du¹, Yiqing Yin²

¹Peking University, Beijing, China, ²China-Japan Friendship Hospital, Beijing, China

LB AP 74 (1508) Subunit Specificity of Enhancing Actions of the Novel Barbiturate R-mTFD-MPAB, and Etomidate on the Synaptic $\alpha 1\beta 3\gamma 2L$ GABAA Receptors

Rooma Desai, Keith W. Miller

Massachusetts General Hospital, Boston, Massachusetts

Group 2: Blood Management and Medically Challenging Cases _____

Moderator: Kevin Blaine MD, MPH, Keck School of Medicine of University of Southern California, Los Angeles, California

BLD 78 (604) Safety of Four Factor Prothrombin Complex Concentrates (4F-PCC) for the Reversal of Factor Xa Inhibitors

Jing Tao, Elena Bukanova, Shamsuddin Akhtar

Yale University School of Medicine, New Haven, Connecticut

BLD 79 (756) Verification of Provider Indications for Red Blood Cell Transfusion Therapies: A Retrospective Cohort Study

Nathan T. Kor, Todd Kor, Matthew Warner, Daryl J. Kor

Mayo Clinic, Rochester, Minnesota

Saturday, April 28 • Moderated Poster Discussion Sessions

4:00 pm – 5:30 pm

MODERATED POSTER DISCUSSION SESSION-04, continued

Group 2: Blood Management and Medically Challenging Cases, continued

BLD 80 (1042) Impact of Reinforced, Strict Guidelines on the Usage of Packed Red Blood Cells (PRBC)

Theresa Kuhlmann, Katharina-Stefanie Haeusler, Michael Booke

Hospital of Bad Soden, Bad Soden Ts., Germany

BLD 81 (1120) Postoperative Tranexamic Acid Infusion Reduces Postoperative Drain Output after Major Spine Surgery: A Retrospective Case-Controlled Study

Shenghao Fang¹, Sandeep Yerra², Davis G. Taylor, Edward C. Nemergut¹, Marcel Durieux¹, Bhiken Naik¹, Lauren K. Dunn¹

¹University of Virginia School of Medicine, Charlottesville, Virginia, ²University of Kentucky College of Medicine, Lexington, Kentucky

MCC 82 (1157) Compartment Syndrome as a Complication of Invasive Blood Pressure Monitoring in Patients Receiving Catheter Directed Thrombolysis

Syed Z. Ali, Cheryl Richie, Joseph Bobadilla, Annette Rebel

University of Kentucky College of Medicine, Lexington, Kentucky

LB MCC 83 (1501) Tranexamic Acid Inhibits Plasminogen in Adolescent Scoliosis Surgery: Defining Texas Efficacy and Antifibrinolytic Action

Susan Goobie, David Zurakowski, Timothy Hresko

Boston Children's Hospital, Boston, Massachusetts

Group 3: Cardiovascular Anesthesiology

Moderator: Jutta Novalija, MD, PhD, Medical College of Wisconsin, Milwaukee, Wisconsin

CA 87 (924) Fatigue and Dyspnea on Exertion in a Patient with Previous Aortic Valve Surgery

Chris Denny, Charles Baysinger, Randall M. Schell

University of Kentucky College of Medicine, Lexington, Kentucky

4:00 pm – 5:30 pm

MODERATED POSTER DISCUSSION SESSION-04, continued

Group 3: Cardiovascular Anesthesiology, continued

CA 88 (932) Cardiac Output Monitoring: A Comparative Prospective Observational Study of the Conventional Cardiac Output Monitor and the New Smartphone Based Application

Shagun B. Shah¹, Ajay K. Bhargava¹, Uma Hariharan², Gayatri Vishvakarma¹, Chamound R. Jain¹, Anamika Kansal¹

¹Rajiv Gandhi Cancer Institute and Research Centre, Rohini, New Delhi, India, ²Ram Manohar Lohia Hospital and PGMIR, New Delhi, India

CA 89 (987) Pulmonary Thrombo-Endarterectomy (PTE) For Chronic Thromboembolic Pulmonary Hypertension (CTEPH): A Single Center 13-Year Report

Hema Nair¹, Devi Shetty¹, Julius Punnen¹, Varun Shetty¹, Bhairavi N. Bajlekar¹, Kumar Belani²

¹Narayana Health, Bangalore, Karnataka, ²University of Minnesota Masonic Children's Hospital, Minneapolis, Minnesota

CA 90 (1058) Active Intrathoracic Pressure Regulation: A Novel Non-invasive Device to Improve Hemodynamics after Blood Loss in a Porcine Model of Hemorrhage

Anja Metzger¹, Paul Berger², Michael Lick³, Keith Lurie¹

¹University of Minnesota, St. Paul, Minnesota, ²Zoll Medical, St. Paul, Minnesota, ³Minneapolis Medical Research Foundation, Minneapolis, Minnesota

CA 91 (1237) ST Segment Variability in Coronary Allograft Vasculopathy after Pediatric Heart Transplantation

Eric L. Vu, Dean Andropoulos, William Dreyer, R. B. Easley, Kathy K. Kibler, Craig G. Rusin, Ken M. Brady

Baylor College of Medicine / Texas Children's Hospital, Houston, Texas

CA 92 (720) The Impact of Hyperoxia on Outcomes after Cardiac Surgery: A Systematic Review

Jeffrey Heinrichs, Carly Lodewyks, Christine Neilson, Ahmed Abou-Setta, Hilary P. Grocott

University of Manitoba, Winnipeg, Manitoba, Canada

Saturday, April 28 • Moderated Poster Discussion Sessions

4:00 pm – 5:30 pm
MODERATED POSTER DISCUSSION SESSION-04,
continued

Group 4: Critical Care

Moderator: Ezeldeen Abuelkasem MBBCh, MSc,
University of Pittsburgh Medical Center, Pittsburgh,
Pennsylvania

CC 96 (701) The Effect of Daily Fluid Balance on Mechanical Ventilation in Subarachnoid Hemorrhage

Ognjen Katan¹, Stephanie Mehr¹, Yaping Shi², Matthew Shotwell², Avinash Kumar¹

¹Vanderbilt University Medical Center, Nashville, Tennessee,

²Vanderbilt University School of Medicine, Nashville, Tennessee

CC 97 (914) Hydroxocobalamin for Treatment of Bacteria-Induced Vasoplegia: The Magic Bullet for Septic Shock?

Kelsey M. Walters, Mary Schultz, David D. Gutterman, Christy Barrios, Rodney Willoughby, Julie K. Freed

Medical College of Wisconsin, Milwaukee, Wisconsin

CC 98 (1037) Trends in the Use of Extracorporeal Membrane Oxygenation in the United States, 2011-2014: An Examination of State-level Billing Data

Michael Stentz¹, Craig S. Jabaley², Vanessa Moll¹, James Blum²

¹Emory University School of Medicine, Atlanta, Georgia,

²Emory University Hospital, Atlanta, Georgia

CC 99 (1038) Therapeutic Effect of High Molecular Weight Hyaluronic Acid in Polymicrobial Sepsis in Mice

Jaehoon Lee, Airan Liu, Hideya Kato, Qi Hao, Jae Woo Lee

University of California, San Francisco School of Medicine, San Francisco, California

CC 100 (1329) Sepsis Upregulates HIF-1 Independent of Tissue Oxygenation

Robert Thiele, Keita Ikeda, Hari Osuru, Zhiyi E. Zuo

University of Virginia School of Medicine, Charlottesville, Virginia

4:00 pm – 5:30 pm
MODERATED POSTER DISCUSSION SESSION-04,
continued

Group 5: Medically Challenging Cases

Moderator: Daniel Bustamante, MD, University of Tennessee, Knoxville, Tennessee

MCC 105 (1110) VA ECMO for Acute Mitral Regurgitation Leading to Aortic Root Thrombus and Subsequent Management

Aaron Mittel¹, Derek J. Atkinson¹, Andrea N. Miltiades¹, May Hua²

¹Columbia University Medical Center, New York, New York,

²Columbia University, New York, New York

MCC 106 (1148) Severe Hypoxia and Compartment Syndrome in a Patient with Sickle Cell Trait after Re-do Aortic Valve Replacement

Amanda Spiritos, Vanessa Moll, Amanda Spiritos, Milad Sharifpour, Simon C. Lee

Emory University School of Medicine, Atlanta, Georgia

MCC 107 (1191) Eastern Equine Encephalitis: A Dangerous Dark Horse in Organ Transplantation

Matthew Wiepking¹, Joel Zivot²

¹Emory University School of Medicine, Atlanta, Georgia,

²Emory University Hospital, Atlanta, Georgia

MCC 108 (1214) Metastatic Intracardiac Synovial Sarcoma: Case Report

Eunie Yook¹, Michael J. Reardon², Jin Jung¹, Edward Y. Chan², Kamlesh Thaker², Rebecca M. Bauer²

¹Houston Methodist Hospital, Houston, Texas, ²University of Texas at Houston, Houston, Texas

MCC 109 (1383) Perioperative Epidural Analgesia as Part of a Multimodal Regimen for Total Hip Arthroplasty in an Opioid-Dependent Sickle Cell Patient

Akshay Goyal, Abdul K. Tabbara, Eduard Vaynberg

Boston Medical Center, Boston, Massachusetts

MCC 110 (489) Toxic Flowers and Aconite Poisoning: A Case of Critical Illness after Chinese Herbal Tea

Michael J. Jung¹, Ahmed M. Shalabi², Manuel Pardo²

¹University of California, San Francisco Medical Center, San Francisco, California, ²University of California, San Francisco School of Medicine, San Francisco, California

Saturday, April 28 • Moderated Poster Discussion Sessions

4:00 pm – 5:30 pm

MODERATED POSTER DISCUSSION SESSION-04, continued

Group 6: Medically Challenging Cases

Moderator: Eiichi Inada, MD, Juntendo University School of Medicine, Tokyo, Japan

MCC 114 (1254) New Left Ventricular Failure Following Double Lung Transplantation in a Patient with Severe Pulmonary Hypertension

Todd A. Dodick¹, Matthew Bacchetta¹, Marc Dickstein²

¹Columbia New York Presbyterian, New York, New York,

²Columbia University, New York, New York

MCC 115 (1361) New Anterior Mediastinal Mass Discovered Day of Surgery: A Case Report

John Kroger, Lakshmi Gudimella

The University of Texas Medical Branch, Galveston, Texas

MCC 116 (1378) Itching and Amniotic Fluid Embolism with Circulatory Collapse in a Full-term Pregnant Patient

Azfar Niazi¹, Partha J. Saha¹, Paul W. Minko¹, Assad Ali¹, Kavita Elliott¹, Eric Chiang², Jia Liu², Sabry Ayad²

¹Cleveland Clinic, Cleveland, Ohio, ²Cleveland Clinic Fairview Hospital, Cleveland, Ohio

MCC 117 (1420) Ethical Conflicts in Extracorporeal Membrane Oxygenation: A Case Report

Elizabeth McIntyre, Elio Beta, Rachel Kadar

Medical Center of Northwestern University, Chicago, Illinois

MCC 118 (1421) Perioperative Management of a Patient with von Gierke Disease Undergoing Hepatic Surgery

Amar M. Bhatt, Floria Chae, **Brandon Pruett,** Sree V. Satyapriya

Wexner Medical Center at Ohio State University, Columbus, Ohio

MCC 119 (552) Perioperative Management of Orthotopic Liver Transplant for Intrahepatic Cholestasis in Sickle Cell Disease

Sarah Burke, Katherine Nugent

Emory University School of Medicine, Atlanta, Georgia

4:00 pm – 5:30 pm

MODERATED POSTER DISCUSSION SESSION-04, continued

Group 7: Perioperative Anesthesia

Moderator: Kunal Karamchandani, MD, FCCP, Penn State Milton S. Hershey Medical Center, Hershey, Pennsylvania

PA 123 (752) Evaluation of Initial Aprepitant Use as a Rescue Anti-Emetic in PACU

Johanna B. De Haan, Tyler J. Poi, Patrick H. Ruggles, Alen K. Michael, Andrzej P. Kwater, Jessica M. Cooke, Evan G. Pivalizza

University of Texas Health McGovern Medical School, Houston, Texas

PA 124 (709) Perioperative Hyperglycemia in Kidney Transplant Recipients

Srikanth Sridhar, Samantha A. Royalty, Emily E. Dewar, Carlos Artime, Wasim A. Dar, Aleksandra M. De Golovine, Evan G. Pivalizza

University of Texas Health McGovern Medical School, Houston, Texas

PA 125 (849) Retrospective Cohort Analysis of an Enhanced Recovery Protocol for Colorectal Surgery Patients at North Shore University Hospital

Christopher Devlin¹, Judith Aronsohn², Oonagh Dowling³

¹Zucker School of Medicine at Hofstra Northwell, Manhasset, New York, ²Northwell Health System, New Hyde Park, New York, ³Hofstra Northwell School of Medicine, New Hyde Park, New York

PA 126 (996) Observational Study of Delirium in the Post-Anesthesia Care Unit (PACU) as a Predictor of Subsequent Postoperative Delirium

Victoria Cui, Shelly Gupta, Catherine Tedeschi, Vanessa L. Kronzer, Sherry McKinnon, Michael S. Avidan

Washington University School of Medicine in St. Louis, St. Louis, Missouri

PA 127 (1135) Association between Patient Reported Postoperative Complications and Hospital Readmission

Thaddeus Budelier, Daniel Park, Bradley A. Fritz, Alexander Kronzer, Sherry McKinnon, Arbi Ben Abdallah, Michael Avidan

Washington University School of Medicine in St. Louis, St. Louis, Missouri

Saturday, April 28 • Moderated Poster Discussion Sessions

4:00 pm – 5:30 pm

MODERATED POSTER DISCUSSION SESSION-04, continued

Group 8: Perioperative Anesthesia

Moderator: Kunal Karamchandani, MD, FCCP, Penn State Milton S. Hershey Medical Center, Hershey, Pennsylvania

PA 132 (1239) Genetic Predictors of Postoperative Myocardial Injury

Tony Gin, Yuanyuan Tian, Xiaodong Liu, Idy Y. Ho, Lin Zhang, William Wu, Matthew Chan

Chinese University of Hong Kong, Shatin, Hong Kong

PA 133 (837) Comparison of the Effect of Open Radical Hysterectomy and Laparoscopic Radical Hysterectomy on Postoperative Immune Function and the Incidence of Acute Kidney Injury in Patients with Cervical Cancer

Hyun-Jung Kwon¹, Seok-joon Jin², Woo-Jong Choi¹

¹Asan Medical Center, Seoul, South Korea, ²St. Paul's Hospital, Seoul, South Korea

PA 134 (1085) Poor Outcomes in Patients on High Doses of Opioids Prior to Surgery - Time for Perioperative Optimization for Pain

Elena J. Koepke, David G.A. Williams, Arun Ganesh, Kathryn Komaki, John Hunting, Solomon Aronson, Padma Gulur

Duke University School of Medicine, Durham, North Carolina

PA 135 (1133) Changing Trends in Coagulation Profile of 60 Patients Undergoing CRS with HIPEC in the Perioperative Period

Soumi Pathak, Ajay K. Bhargava

Rajiv Gandhi Cancer Institute and Research Centre, New Delhi, India

PA 136 (1308) Association of Early Post-extubation Desaturation and Adverse Discharge after Surgery

Paul Rostin¹, Sabine Friedrich¹, Stephanie Grabitz², Bijan Teja³, Timothy Houle¹, Satya Krishna Ramachandran⁴, Matthias Eikermann⁴

¹Massachusetts General Hospital, Boston, Massachusetts,

²Massachusetts General Hospital; Harvard Medical School, Boston, Massachusetts, ³Beth Israel Deaconess Medical Center, Boston, Massachusetts, ⁴Harvard Medical School at Beth Israel Deacon, Boston, Massachusetts

4:00 pm – 5:30 pm

MODERATED POSTER DISCUSSION SESSION-04, continued

Group 8: Perioperative Anesthesia, continued

PA 137 (1326) Intraoperative Use of Multimodal Monitoring Might Reduce Postoperative Cognitive Dysfunction

Katarina Mencin, Petra Grbec, Marko Zlicar, Vesna Novak-Jankovic, Neva Požar Lukanović, Alenka Spindler Vesel, Matej Jenko

University Medical Centre Ljubljana, Ljubljana, Slovenia

SmartTots Information Booth

Stop by the SmartTots booth! You'll find a plethora of pediatric anesthesia research resources. Grab the latest info, make a donation, win a bottle of SmartTots wine, enjoy some delicious San Francisco chocolate and more! The SmartTots booth is located in the Regency Foyer A, Ballroom Level, in the West Tower.



Cloud Gate is a public sculpture by Indian-born British artist Sir Anish Kapoor, that is the centerpiece of Millennium Park.

Daily Poster Schedule-at-a-Glance

7:30 am – 9:00 am	Moderated Poster Discussion Session-05
9:30 am – 11:00 am	Kosaka Best of Meeting Abstract Awards Session
11:30 am – 1:00 pm	Moderated Poster Discussion Session-06
2:00 pm – 3:30 pm	Moderated Poster Discussion Session-07
4:00 pm – 5:30 pm	Moderated Poster Discussion Session-08

7:30 am – 9:00 am MODERATED POSTER DISCUSSION SESSION-05

Group 1: Ambulatory Anesthesia and Anesthetic Pharmacology

Moderator: Donald Mathews, MD, University of Vermont College of Medicine, Burlington, Vermont

AMB 1 (777) Is There a Threshold Age to Select Patients for Ambulatory Abdominal Surgery?

Eric Rosero, Girish Joshi

University of Texas Southwestern Medical Center, Dallas, Texas

AMB 2 (1256) Finding the Body Mass Index Threshold for Selection of Patients for Ambulatory Open Hernia Repair

Eric Rosero, Girish Joshi

University of Texas Southwestern Medical Center, Dallas, Texas

AMB 3 (1195) Readmission Rate after Two-Level Lumbar Laminectomy: A Propensity-Matched Cohort Study Comparing Inpatient and Outpatient Settings

Ahmad Elsharydah, Katherine L. Duncan, Eric Rosero, Abu Minhajuddin, Girish Joshi

University of Texas Southwestern Medical Center, Dallas, Texas

AMB 4 (1291) Diagnosis of Diabetes Mellitus is a Predictor for Graft Failure: A Single Center Retrospective Study

David Adams¹, Singh Nair², Curtis Choice²

¹Albert Einstein College of Medicine, Bronx, New York,

²Montefiore Medical Center, Bronx, New York

7:30 am – 9:00 am MODERATED POSTER DISCUSSION SESSION-05, continued

Group 1: Ambulatory Anesthesia and Anesthetic Pharmacology, continued

AP 5 (956) Nitrous Oxide as Treatment for Tinnitus: A Randomized Crossover Trial

Peter Nagele, Helena Hong, Omar Karadaghy, Dorina Kallogjeri, Frank Brown, Branden Yee, Jay F. Piccirillo

Washington University School of Medicine in St. Louis, St. Louis, Missouri

AP 6 (1101) The Effects of Dexmedetomidine on Hyperpolarization-Activated Cyclic Nucleotide-Gated (HCN) Channels in Mouse Thalamocortical Neurons

Catharina Westphal, Stefan Schwerin, Claudia Kopp, Gerhard Schneider, Stephan A. Kratzer, Rainer Haseneder

Rechts der Isar Hospital, München, Germany

Group 2: Ambulatory Anesthesia and Anesthetic Pharmacology

Moderators: Yaacov Gozal, MD, Shaare Zedek Medical Center, Jerusalem, Israel; and **Yasuke Asakura, MD, MSc, PhD**, Nagoya Kyoritsu Hospital, Nagoya, Aichi, Japan

AMB 7 (938) Doxapram for Prevention of Propofol-Induced Respiratory Depression in Spontaneously Breathing Patients Undergoing Deep Sedation: A Randomized, Double-Blind Placebo Controlled Study

Max Mazanikov¹, Anna Belozerskikh², Marianne Udd², Leena Kylänpää², Outi Lindström², Reino Pöyhä¹

¹Helsinki University, Helsinki, Finland, ²Meilahti Hospital, Helsinki, Finland

AMB 8 (964) Comparative Effectiveness of Antiemetics for Prophylaxis of Postdischarge Nausea and Vomiting in Ambulatory Surgical Patients: A Network Meta-Analysis

Hyun Kang¹, Geunjoo Choi², Chongwha Baek¹, Yonghun Jung¹, Youngcheol Woo¹

¹Chung-Ang University, Seoul, South Korea ²Chung-Ang University Hospital, Seoul, South Korea

Sunday, April 29 • Moderated Poster Discussion Sessions

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-05, continued

Group 2: Ambulatory Anesthesia and Anesthetic Pharmacology, continued

AMB 9 (1086) Best Practice to Conduct Saddle Block for Perianal Ambulatory Patient in Term of Effective Low Dose of Spinal Local Anesthetic Injection

Carla Todaro¹, Andrew Grant¹, Faraj Abdallah², Richard Brull^{1,3}

¹Toronto Western Hospital, Toronto, Ontario, Canada,

²University of Toronto Faculty of Medicine, Ottawa, Ontario, Canada, ³Women's Health at Women's College Hospital, Toronto, Ontario, Canada

AMB 10 (1200) Supraglottic Airway for Endoscopic Sinus Surgery: Comparison with Endotracheal Tube

Audrice Francois, Mihael Rosenbaum

Loyola University Medical Center, Maywood, Illinois

AP 11 (1410) Identification of a Modulatory Site of Action for the Volatile Anesthetic Isoflurane in TREK1 Tandem Pore Potassium Channels

Paul M. Riegelhaupt¹, Kellie Woll², Thomas T. Joseph², Kiran A. Vaidya¹, Crina M. Nimigean¹, Roderic G. Eckenhoﬀ²

¹Weill Cornell Medicine, New York, New York, ²Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

AP 12 (1429) Coagulation Effect of Sugammadex Using Thromboelastography in a Randomized Controlled Study of Surgical Patients

Hae Wone Chang, Il Ok Lee, Byung Gun Lim

Korea University Guro Hospital, Seoul, South Korea

Group 3: Blood Management and Critical Care

Moderator: Ronald Pearl, MD, PhD, Stanford University School of Medicine, Stanford, California

BLD 15 (707) Stored Platelet Number and Function is not Decreased after Warming and Rapid Infusion

Aaron S. Hess¹, Jagan Ramamoorthy¹, Joseph Connor¹, Thomas Raife¹, John Hess²

¹University of Wisconsin Hospital and Clinics, Madison, Wisconsin, ²University of Washington, Seattle, Washington

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-05, continued

Group 3: Blood Management and Critical Care, continued

BLD 16 (781) Impact of Hemodilutional Autologous Transfusion on Perioperative Allogenic Blood Transfusion in Patients with Gynecological Cancer

Junichi Saito¹, Satoko Noguchi², Masato Kitayama², Kazuyoshi Hirota²

¹Hirosaki University Graduate School of Medicine, Hirosaki, Japan, ²Kokuritsu University Hirosaki University Hospital, Hirosaki, Japan

BLD 17 (838) Contrasting Effects of Stored Allogeneic Red Blood Cells and Their Supernatants on Permeability and Inflammatory Responses by Human Pulmonary Artery Endothelial Cells

Junghyun Kim, Trang Nguyen, Michael A. Mazzeffi, Kenichi Tanaka, Anna Birukova, Konstantin Birukov

University of Maryland School of Medicine, Baltimore, Maryland

BLD 18 (1348) Factor IX from Prothrombin Complex Concentrate Augments Low Tissue Factor-triggered Thrombin Generation – “An Exploratory In Vitro Study”

Ezeldeen Abuelkasem¹, Shaheer Hasan², Brittney Williams², Reney Handerson², Michael A. Mazzeffi², Kenichi Tanaka²

¹University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania, ²University of Maryland School of Medicine, Baltimore, Maryland

CC 19 (884) Noninvasive Venous Waveform Analysis (NIVA) Detects Blood Loss in Human Blood Donors and a Porcine Hemorrhage Model

Bret D. Alvis¹, Reid McCallister², Susan Eagle¹, Franz Baudenbacher², Richard B. Boye¹, Colleen Brophy¹, Kyle M. Hocking¹

¹Vanderbilt University Medical Center, Nashville, Tennessee, ²Massachusetts General Hospital, Boston, Massachusetts

LB CC 20 (1500) Alarming Levels of Carboxyhemoglobin in Banked Blood: An Update Fourteen Years Later

Mercades Meuli, Melissa Ehlers, Michael Swerdloff, Marcela Hanakova

Albany Medical Center, Albany, New York

Sunday, April 29 • Moderated Poster Discussion Sessions

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-05, continued

Group 4: Cardiovascular Anesthesiology, Perioperative Anesthesia, and Trauma

Moderator: Kapil Gupta, MD, Toronto General Hospital, Toronto, Ontario, Canada

CA 24 (1082) Gender Differences in Perioperative Hormonal and Inflammatory Stress Response during Cardiac Surgery: An Exploratory Data Analysis

Luke Doney¹, Sofiane Lazar¹, Kathirvel Subramaniam²

¹University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania, ²University of Pittsburgh, Pittsburgh, Pennsylvania

PA 25 (594) Assessing Risk Factors for Challenging Pain Control in Patients Undergoing Major Abdominal Surgery with Enhanced Recovery after Surgery Program

Luke Doney, **Lieu T. Tran,** Sofiane Lazar, Michael Boisen, Stephen A. Esper, Jennifer Holder-Murray, Kathirvel Subramaniam

University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania

CA 26 (814) Energetic Performance Index Improvement after Glenn and Damus-Kaye-Stansel Procedure Using Vector Flow Mapping Analysis

Atsushi Kainuma¹, Kazuma Hayase¹, Koichi Akiyama², Yoshifumi Naito¹, Masaru Shimizu¹, Keiichi Itatani¹, Teiji Sawa¹

¹Kyoto Prefectural University of Medicine, Kyoto, Japan

²Columbia University, New York, New York

CA 27 (1241) Exploratory Approach to Targeting Plasma Cytokines in Experimental Deep Hypothermic Circulatory Arrest in Rats Using Hemoadsorption

Tomas Drabek¹, Elizabeth Snajdar², Kyle S. Simqu³, Jason P. Stezoski¹, Keri Janesko-Feldman¹, John Kellum¹, Patrick M. Kochanek¹

¹University of Pittsburgh, Pittsburgh, Pennsylvania, ²Ohio University, Dublin, Ohio, ³Kent State University, Kent, Ohio

T 28 (1240) Hemoadsorption Alters Heart and Lung Cytokine Profiles after Cardiac Arrest in Rats

Tomas Drabek¹, Elizabeth Snajdar², Jason P. Stezoski¹, Keri Janesko-Feldman¹, Kyle S. Simqu³, John Kellum¹, Patrick M. Kochanek¹

¹University of Pittsburgh, Pittsburgh, Pennsylvania, ²Ohio University, Dublin, Ohio, ³Kent State University, Kent, Ohio

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-05, continued

Group 5: Blood Management and Critical Care

Moderator: Detlef Obal, MD, PhD, DESA, University of Louisville, Louisville, Kentucky

CC 33 (702) Role of Toll-like Receptor Signaling in Sepsis-induced Coagulopathy in Mice

Brittney Williams, Ping Cui, Olivia Conn, Kenichi Tanaka, Lin Zou, Wei Chao

University of Maryland Baltimore, School of Medicine, Baltimore, Maryland

CC 34 (1002) Making ECMO 'Work': Teamwork. An Observational, Qualitative Study into Teams and Teamwork

Johnny Kenth¹, Ignacio Malagon², Andrew Smith³, Maggie Mort⁴

¹Royal Manchester Children's Hospital, Manchester, England, ²Manchester Foundation Trust, Manchester, England, ³Royal Lancaster Infirmary, Lancaster, Lancashire, England, ⁴Lancaster University, Lancaster, Lancashire, England

CC 35 (1003) Intercorporeal 'Knowing' for Extracorporeal Membrane Oxygenation: Constructing and Enacting a Culture of Safety. A Qualitative, Observational Study

Johnny Kenth¹, Ignacio Malagon², Maggie Mort³, Andrew Smith⁴

¹Royal Manchester Children's Hospital, Manchester, England, ²Manchester Foundation Trust, Manchester, England, ³Lancaster University, Lancaster, Lancashire, England, ⁴Royal Lancaster Infirmary, Lancaster, Lancashire, England

CC 36 (1279) Association of Angiotensin II Dose with All-cause Mortality in Patients with Vasodilatory Shock

Ashish K. Khanna¹, Michael McCurdy², David Boldt³, Kealy R. Ham⁴, Kenneth Krell⁵, Lakhmir S. Chawla⁶, George F. Tidmarsh⁶

¹Center for Critical Care and Department of Outcomes Research, Cleveland Clinic Lerner College of Medicine, Cleveland, Ohio, ²University of Maryland School of Medicine, Baltimore, Maryland ³University of California, Los Angeles David Geffen School of Medicine, Los Angeles, California, ⁴University of Minnesota, St. Paul, Minnesota, ⁵Eastern Idaho Regional Medical Center, Idaho Falls, Idaho, ⁶La Jolla Pharmaceutical, La Jolla, California

Sunday, April 29 • Moderated Poster Discussion Sessions

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-05, continued

Group 5: Blood Management and Critical Care, continued

CC 37 (1285) Association between MAP and Mortality in Vasodilatory Shock at an Academic Medical Center

Ashish K. Khanna¹, Nathan Nielsen², Feng Zeng³, Margaret Gerbas⁴, Gerry Oster⁴, Aaron Grossman⁴, Nathan Shapiro⁵

¹Center for Critical Care and Department of Outcomes Research, Cleveland Clinic Lerner College of Medicine, Cleveland, Ohio, ²Tulane University, New Orleans, Louisiana, ³La Jolla Pharmaceutical Company, La Jolla, California, ⁴Policy Analysis Inc., Brookline, Massachusetts, ⁵Beth Israel Deaconess Medical Center; Harvard Medical School, Boston, Massachusetts

Group 6: Critical Care and Perioperative Anesthesia

Moderator: Kathleen Tyson, MD, Temple University Hospital, Philadelphia, Pennsylvania

CC 42 (485) Preoperative Evaluation Clinic for Day Admission Elective Cardiac Surgical Patients: Benefit to Critical Care Management

Marc Sherwin, Elvera L. Baron, George Silway

Icahn School of Medicine of Mount Sinai, New York, New York

PA 43 (942) Postoperative Nausea and Vomiting Revisited: A Prospective, Observational Cohort Study Assessing Implementation of a Risk-stratified Approach

Kadhiresan R. Murugappan¹, Myles D. Boone¹, Cristina Barboi²

¹Beth Israel Deaconess Medical Center, Boston, Massachusetts, ²Rush University Medical Center, Chicago, Illinois

CC 45 (1012) Dynamic Changes in Plasma Microvesicle Concentrations in *Pseudomonas Aeruginosa* Pneumonia

Hideya Kato, Airan Liu, Jaehoon Lee, Xiwen Zhang, Qi Hao, Jae Woo Lee

University of California, San Francisco School of Medicine, San Francisco, California

CC 46 (1171) Using Mean Systemic Filling Pressure and Heart Efficiency to Assess Hemodynamics during Volume Resuscitation in ovine septic and hemorrhagic shock

Jason Pang, Albert Shih, George Kramer

University of Texas Medical Branch, Galveston, Texas

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-05, continued

Group 7: Economics, Education and Policy

Moderator: Tetsuro Sakai, MD, PhD, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania

EEP 51 (585) Integration of Point-of-Care Ultrasound Training into an Existing Clinical Base Year Rotation: How Much Can Be Done in 4 weeks?

Annette Rebel, Jon Holzberger, Amy DiLorenzo, Vincent Sorrell, Randall M. Schell

University of Kentucky Healthcare, Lexington, Kentucky

EEP 52 (747) Effect of Night Float on Anesthesiology Resident Sleep Patterns: An Observational Study

Lauren K. Dunn, Amanda Kleiman, Katherine Forkin, Mark S. Quigg, Allison J. Bechtel, Julie L. Huffmyer, Edward C. Nemergut

University of Virginia School of Medicine, Charlottesville, Virginia

EEP 53 (874) Design and Analysis of the Before-After Study: Assessing the Impact of a New Practice or Policy

Edward J. Mascha

Cleveland Clinic, Cleveland, Ohio

EEP 54 (984) The Role of Gender and Body Language on Patient Perception of Physicians

Katherine T. Forkin, Lauren K. Dunn, Allison J. Bechtel, Amanda M. Kleiman, Jennifer F. Potter, Julie L. Huffmyer, Edward C. Nemergut

University of Virginia School of Medicine, Charlottesville, Virginia

EEP 55 (1382) The Status of Women in Academic Anesthesiology: A Ten-year Update

Paloma Toledo, Martha Bissing, Elizabeth M. Lange, Cynthia Wong, Robert McCarthy, Wilmer Davila, M. C. Stock

Northwestern University Feinberg School of Medicine, Chicago, Illinois

LB EEP 56 (1462) Barriers Opposing Completion and Documentation of a Structured Intraoperative Handover

Michael H. Ward¹, Carolyn Johnston²

¹St. George's University of London, London, England, ²St. George's Hospital NHS Foundation Trust, London, England

Sunday, April 29 • Moderated Poster Discussion Sessions

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-05, continued

Group 8: Anesthetic Pharmacology and Geriatric Anesthesia

Moderator: Christos Koutentis, MBChB, MS, New York, New York

GA 60 (669) A Perioperative Multimodal Therapy Regimen does not Reduce Postoperative Complications in Elderly Patients with Hip Fracture – A Prospective, Randomized Trial

Sebastian Schmid¹, Manfred Blobner¹, Brigitte Haas¹, Martin Lucke², Markus Neumaier³, Aida Anetsberger¹, Bettina Jungwirth¹

¹Klinikum Rechts der Isar Technical University Munich, Munich, Germany ²Chirurgisches Klinikum Muenchen Sued, Munich, Germany ³Klinikum Freising, Freising, Germany

GA 61 (823) Considerations for Scoring the Clock Drawing Test for Impairment of Geriatric Patients in the Perioperative Setting: A Comparison of Three Common Scoring Criteria

Mitchel Y. Zhang, Bailey Frei, Kristen Woodward, Shawna Amini, Patrick J. Tighe, Chris Giordano, Catherine Price

University of Florida College of Medicine, Gainesville, Florida

GA 62 (1340) Comparison of the CAM and 3D-CAM in High-Risk Surgical Patients

Jordan Oberhaus, Wei Wang, Michael Avidan, Angela Mickle, Catherine Tedeschi, Nan Lin, Jennifer Becker

Washington University in St. Louis, St. Louis, Missouri

GA 63 (1173) Decreased EEG Alpha/Beta Power during Sevoflurane General Anesthesia is Associated with Pre-Existing Cognitive Impairment

Reine Ibala, Eunice Hahm, Susan Maher, Maria Alvarez Nebreda, Esteban Franco Garcia, Ala Nozari, Oluwaseun Akeju

Massachusetts General Hospital; Harvard Medical School, Boston, Massachusetts

LB GA 64 (1463) Development of a Pharmacokinetic-Pharmacodynamic Model to Characterize the Power Shift of Propofol-Induced Frontal Alpha Rhythm in Elderly Patients: Defining a Composite Dose-response Relationship

Carlos M. Fuentes, Juan C. Pedemonte, Andrea Sanchez, Martin Irani, Mohit Rana, Victor Contreras, Ignacio Cortinez
Pontificia Universidad Catolica de Chile, Santiago de Chile, Chile

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-05, continued

Group 9: Medically Challenging Cases

Moderator: Claude Abdallah, MD, MSc, Children's National Health System, Washington, DC

MCC 69 (507) Central Cord Syndrome after Prolonged Fixation In Head Pins: A Case Report

Jonah Abraham, Zulfaqr Alam

University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania

MCC 70 (832) Cervical Myelopathy in a Patient Presenting with Low Back Pain

Brian Bobzien

Emory University School of Medicine; Grady Memorial Hospital, Atlanta, Georgia

MCC 71 (1026) Caudal Anesthesia and Natural Airway for Ambulatory Urologic Surgery in Infant with Epidermolysis Bullosa

Pulsar Li, Omar Al-Qudsi

Loyola University Medical Center, Maywood, Illinois

MCC 72 (1218) Unexpected Airway Obstruction Following Mandibular Tumor Resection – Nerve Injury, Muscle Damage or Anesthetic Complication?

Samuel Landa¹, Seth Landa², Zev Wachtel², Marc Meyer³

¹St. Joseph's University Medical Center, Paterson, New Jersey, ²St. Joseph's Healthcare System; St Joseph's Wayne Hospital; Saint Michael's Medical Center, Paterson, New Jersey, ³Hackensack University Medical Center; St. Joseph's Healthcare System, Paterson, New Jersey

Group 10: Medically Challenging Cases

Moderator: Sherif Afifi, MD, Northwestern University Feinberg School of Medicine, Chicago, Illinois

MCC 78 (1360) Anesthetic Approach and Management of a Patient with Familial Dysautonomia

Nathanael Leo, Neil Patel

New York University School of Medicine, New York, New York

Sunday, April 29 • Moderated Poster Discussion Sessions

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-05, continued

Group 10: Medically Challenging Cases, continued _____

MCC 79 (826) Case Report: A Novel Nasal PAP Mask Maintained Ventilation and Continuous Active Oxygenation in Patient with a Large Mandibular Sarcoma during a Video-Laryngoscopy Guided Fiberoptic Intubation

Mina Morgan, Dennis J. Warfield Jr., Christine H. Fratzola, James Tse

Rutgers Robert Wood Johnson Medical, New Brunswick, New Jersey

MCC 80 (1369) A Case Report of Tapia Syndrome in a Patient Following Oral and Maxillofacial Surgery

Manisha Magar, Sabrina Dhillon

Virginia Commonwealth University, Richmond, Virginia

MCC 81 (1244) Through-the-wound Intubation in a Patient with Near-complete Tracheal Transection

Yuel-Kai Jean¹, Christian Diez²

¹Jackson Memorial Hospital/University of Miami, Florida,

²University of Miami-Miller School of Medicine, Miami, Florida

MCC 82 (1030) Intraoperative Cardiopulmonary Arrest in a 15 Year Old Undergoing Correction of Kyphoscoliosis

Adaora Chima¹, Nam Ward², John Schroeder¹

¹University of Rochester Medical Center, Rochester, New York, ²University of Rochester, Rochester, New York

Group 11: Neuroscience in Anesthesiology and Perioperative Medicine _____

Moderator: Robert Craft, MD, University of Tennessee, Knoxville, Tennessee

NR 87 (621) Neonatal Disruption of PSD-95 PDZ Domain-mediated Protein-protein Interactions Alters Dendritic Spine Morphology, Long-term Potentiation, and Causes Deficits in Learning and Memory in Mice

Michele L. Schaefer, Meina Wang, Patric Perez, Jing Xu, Reilley P. Mathena, Roger A. Johns

Johns Hopkins University School of Medicine, Baltimore, Maryland

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-05, continued

Group 11: Neuroscience in Anesthesiology and Perioperative Medicine, continued _____

NR 88 (695) Non-invasive Optical Quantification of Absolute Cerebral Blood Flow in Adults: Validation against MRI

Andrew W. Kofke¹, Daniel Milej², Mamadou Diop², Ramani Balu¹, John A. Detre¹, **Wesley B. Baker¹**, Arjun G. Yodh¹, Keith St. Lawrence², Lian He¹, Androu Abdalalak¹, Sudipto Dolui¹, Uduanna Anazodo¹, Venkaiah Kavuri¹, William Pavlosky¹, Olivia Amendolia¹, Francis Quattrone¹

¹Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, ²University of Western Ontario, London, Ontario, Canada

NR 89 (940) Preliminary Evidence of Neural Inertia in Human Subjects Undergoing Xenon Anesthesia

Charles W. Carspecken, Andrew McKinstry-Wu, Alexander Proekt, Max B. Kelz

Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

NR 90 (1039) Adolescent Rats Display Long-lasting Abnormalities in REM Sleep Quantity and Structure after Postnatal Anesthesia

Nadia Lunardi, Ryan Sica, Navya Atluri, Zhiyi E. Zuo

University of Virginia School of Medicine, Charlottesville, Virginia

NR 91 (1057) Perioperative Trajectory of Alzheimer's Disease Biomarkers in Surgical Patients and Matched Non-surgical Controls

Yee Ching Vanessa Cheong¹, Mary Cooter², Richard L. Huang³, Heather E. Whitson², Harvey J. Cohen², Joseph P. Mathew², Miles Berger²

¹Duke-National University of Singapore Medical School, Singapore, ²Duke University Medical Center, Durham, North Carolina, ³Duke University, Durham, North Carolina

NR 92 (1413) Cognitive Associates of the Digital Clock Drawing Test in Older Adults: Total Clock Time and Pre-First Hand Latency

Catherine Dion¹, Franchesca Arias¹, Cheshire Hardcastle¹, Shawna Amini¹, Randall Davis², Patrick J. Tighe¹, Catherine Price³

¹University of Florida, College of Medicine, Gainesville, Florida, ²Massachusetts Institute of Technology, Cambridge, Massachusetts, ³Clinical and Health Psychology, University of Florida, Gainesville, Florida

Sunday, April 29 • Moderated Poster Discussion Sessions

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-05, continued

Group 12: Neuroscience in Anesthesiology and Perioperative Medicine

Moderator: Martin Dworschak, MD, MBA, Medical University of Vienna, Vienna, Austria

NR 96 (708) EEG Alpha/Beta Power Suggests a Neurophysiological Basis for Susceptibility to Burst Suppression

Eunice Hahm^{1,4}, George Plummer², Jingzhi An³, Reine Ibalá⁴, Hao Deng⁴, Jacob Gitlin⁴, Jason Z. Qu⁴, Oluwaseun Johnson-Akeju^{1,4}

¹Harvard Medical School, Boston, Massachusetts, ²Tufts University School of Medicine, Boston, Massachusetts, ³Massachusetts Institute of Technology, Cambridge, Massachusetts, ⁴Massachusetts General Hospital, Boston, Massachusetts

NR 97 (928) Midazolam Sedation during the Periodic Experience of Pain Decreases Functional Connectivity both Within and Between Brain Systems for Pain Processing and Memory Encoding

Christopher T. Smith, Keith M. Vogt, James W. Ibinson
University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania

NR 98 (953) Power Spectrum and Frontal Alpha Band Activity Saturation Predicts Loss of Response to Verbal Command in Older Adults during Anesthetic Induction with Propofol: A Diagnostic Test Approach

Carlos M. Fuentes, Juan C. Pedemonte, Andrea Sanchez, Martin Irani, Mohit Rana, Victor Contreras, Ignacio Cortinez
Pontificia Universidad Católica de Chile, Santiago de Chile, Chile

NR 99 (1077) Ketamine's Antidepressant Effect is Blocked by a μ -Opioid Receptor Antagonist in Humans and Mice

Boris D. Heifets, Nolan Williams, Keith Sudheimer, Heather Pankow, Christine Blasey, David Lyons, Alan F. Schatzberg
Stanford University School of Medicine, Stanford, California

NR 100 (1388) Activation of Mouse Orexin Neurons Facilitates Anesthesia Emergence and Increases Pain Tolerance

Wei Zhou, Kevin Cheung, Zhonghui Guan, Philip A. Kurien, Lily Jan, Lynn Wang
University of California, San Francisco School of Medicine, San Francisco, California

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-05, continued

Group 12: Neuroscience in Anesthesiology and Perioperative Medicine, continued

LB NR 101 (1505) Brain Functional Connectivity Changes in Acute Ischemic Stroke Measured with Bedside Diffuse Optical Tomography

Broc A. Burke¹, Karla Bergonzi², Adam T. Eggebrecht¹, Andrew K. Fischell¹, Ben Palanca², Jin-Moo Lee¹, Joseph Culver¹

¹Washington University in St. Louis, St. Louis, Missouri, ²Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

Group 13: Obstetric Anesthesiology and Pain and Addiction Pathways

Moderator: Swapna Chaudhuri, MD, Texas Tech University Health Sciences Center, Lubbock, Texas

OB 105 (572) Anesthetic Agent May Not Influence Post-operative Serum Female Hormone in Patients Undergoing Pelvic Surgery due to Benign Gynecological Diseases

Seung-Yup Ku, Hoon Kim, Hyun Chang Kim
Seoul National University Hospital, Seoul, South Korea

OB 106 (573) Effect of Isoflurane Anesthesia on In Vitro Follicle Growth of Rhesus Monkey

Seung-Yup Ku, Yoon Young Kim, Byeong Cheol Kang
Seoul National University Hospital, Seoul, South Korea

OB 107 (753) Transcutaneous P6 Acupoint Electrical Stimulation Prevents both Nausea and Vomiting during Elective Cesarean Section under Combined Spinal-epidural: A Randomized Control Clinical Trial

Danielle Levin, Shaul Cohen, Scott Mellender, Adil Mohiuddin, Rong Zhao, Geza Kiss, Enrique Pantin
Rutgers Robert Wood Johnson Medical School, New Brunswick, New Jersey

OB 108 (799) Does the Application of Scopolamine Patch with Intra-operative Acupressure Point P6 Stimulation Increase Parturients' Intra-Cesarean Satisfaction? Prospective Randomized Clinical Trial

Danielle Levin, Shaul Cohen, Scott Mellender, Adil Mohiuddin, Ushma Shah, Rong Zhao, Geza Kiss
Rutgers Robert Wood Johnson Medical School, New Brunswick, New Jersey

Sunday, April 29 • Moderated Poster Discussion Sessions

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-05, continued

Group 13: Obstetric Anesthesiology and Pain and Addiction Pathways, continued

OB 109 (634) Comparative Study of Epidural Infusions, Narcotic vs. Non Narcotic in the Management of Labor Pain

Phani K. Paruchuri¹, Surya T. Paruchuri², Laxmi Srinivas Paruchuri³, Venkata K. Paruchuri⁴

¹Anaheim Regional Medical Center, Anaheim, California, ²Medical College Mahbubnagar, Mahbubnagar, India, ³Osmania General Hospital, Hyderabad, India, ⁴University of California, Berkeley, Berkeley, California

PAP 110 (1076) Role of Ketamine Infusion Technique in Addiction Management

Phani K. Paruchuri¹, Venkata K. Paruchuri², Surya T. Paruchuri³, Laxmi Srinivas Paruchuri⁴

¹Anaheim Regional Medical Center, Anaheim, California, ²University of California Berkeley, Berkeley, California, ³Medical College Mahbubnagar, Mahbubnagar, India, ⁴Osmania General Hospital, Hyderabad, India

Group 14: Pain Mechanisms and Pain Medicine

Moderator: Honorio Benzon, MD, Northwestern University Feinberg School of Medicine, Chicago, Illinois

PM 114 (486) A Multimodal Approach to Pain Management for Patients with Chronic Back Pain: Outcome Measures at One Year

Burton Beakley

Tulane Medical Center, New Orleans, Louisiana

PM 115 (651) Systems Change to Improve Utilization of Perioperative Multimodal Analgesia

McKenzie M. Hollon¹, Raphael Gershon², Matthew Hunter², Jacob Gissy¹

¹Emory University School of Medicine, Atlanta, Georgia, ²Grady Memorial Hospital, Atlanta, Georgia

PME 116 (955) GABA Neurons in the Rostromedial Tegmental Nucleus Modulate Analgesia in Mice

Norman E. Taylor¹, Hu Long², JunZhu Pei³, Phanidhar Kukutla¹, Ksenia Y. Vlasov³, Ken Solt⁴, Gary J. Brenner⁴

¹Massachusetts General Hospital, Boston, Massachusetts, ²West China Hospital of Stomatology, Chengdu, China, ³Massachusetts Institute of Technology, Cambridge, Massachusetts, ⁴Harvard Medical School, Boston, Massachusetts

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-05, continued

Group 14: Pain Mechanisms and Pain Medicine, continued

PM 117 (973) Independent Predictor of Post-Thoracotomy Pain Syndrome: Centralized Pain Characteristics

Kashif T. Khan¹, Chad M. Brummett², Jules Lin¹, Stephanie Moser¹, Jennifer Pierce¹, Daniel Clauw¹

¹University of Michigan Medicine, Ann Arbor, Michigan, ²University of Michigan Health System, Ann Arbor, Michigan

PM 118 (1063) High Frequency 10,000-Hertz Spinal Cord Stimulation, a Fifty Patient Chart Review at >18 Months

Ali Aabbagh¹, Todd Lininger^{1,2}

¹Detroit Receiving Hospital, Detroit, Michigan, ²Wayne State University, Detroit, Michigan

Group 15: Pediatric Anesthesiology and Perioperative Anesthesia

Moderator: Jeffrey Berman, MD, University of North Carolina, Chapel Hill, North Carolina

PED 123 (1099) Intraoperative Intravenous Infusion of Lidocaine for Better Postoperative Analgesia in Children Undergoing Laparoscopic Hernia Repair

Ji-Min Lee¹, Jeongrim Lee²

¹Severance Hospital, Yonsei University College of Medicine, Seoul, South Korea, ²Yonsei University College of Medicine, Seoul, South Korea

PA 124 (1174) Cardiac Auscultation through Clothing: The Truth behind the Taboo

Joseph Lagrew, Delaney LaGrew, Juanito Abrigo, Megan Koenig, Terrie Vasileopoulos, Talles Sidronio, Nikolaus Gravenstein

University of Florida College of Medicine, Gainesville, Florida

PED 125 (1358) Comparison of Two Tranexamic Acid Dosage Regimes for Craniosynostosis Surgery. A Multi-center Randomized Controlled Equivalency Trial

Susan Goobie¹, Miriam Tumolo², Steven Staffa³, Nicola Disma⁴

¹Harvard Medical School, Boston, Massachusetts, ²Istituto Giannina Gaslini, Genoa, Italy, ³Children's Hospital Boston, Boston, Massachusetts, ⁴Great Ormond Street Hospital, London, England

Sunday, April 29 • Moderated Poster Discussion Sessions

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-05, continued

Group 15: Pediatric Anesthesiology and Perioperative Anesthesia, continued

PA 126 (1417) General Anesthesia Alters Gut Microbiota Diversity and Composition in Mice

Mara A. Serbanescu¹, Reilley P. Mathena¹, Raul Cano², Tasha Santiago-Rodriguez², Theresa Hartsell¹, Cyrus D. Mintz¹

¹Johns Hopkins School of Medicine, Baltimore, Maryland,

²Institute for Life Science Entrepreneurship, Union, New Jersey

PA 127 (1371) Post-Operative Sepsis: What is the Current Picture?

Amber N. Campbell¹, George W. Williams¹, Navneet Grewal¹, Velvet Patterson¹, Daniel Contreras¹, Robert Wegner¹, Rabail Chaudry²

¹McGovern School of Medicine at the University of Texas Health Science Center, Houston, Texas, ²University of Toronto Faculty of Medicine, Toronto, Ontario, Canada

Group 16: Neuroscience in Anesthesiology and Perioperative Medicine and Technology, Computing and Simulation, Equipment Monitoring

Moderator: Aymen Benkreira, MD, Montreal Heart Institute, Montreal, Quebec, Canada

TCSEM 132 (556) Non-invasive Measurement of Mitochondrial Oxygenation and Respiration in Human Endotoxemia and Sepsis

Mark A. Wefers Bettink¹, Jelle Zwaag², Mathijs Kox², Egbert Mik¹

¹Erasmus Medical Centre, Rotterdam, The Netherlands,

²Department of Intensive Care Medicine, Nijmegen, Netherlands

TCSEM 133 (727) Agreement of a Zero-Heat-Flux Core Temperature System with Measurements Obtained from Nasal and Oral Temperature Probes During General Anesthesia

Nicholas West¹, Erin Cooke¹, Richard N. Merchant¹, Matthias Görges^{1,2}

¹The University of British Columbia, Vancouver, British Columbia, Canada, ²Research Institute, British Columbia Children's Hospital, Vancouver, British Columbia, Canada

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-05, continued

Group 16: Neuroscience in Anesthesiology and Perioperative Medicine and Technology, Computing and Simulation, Equipment Monitoring continued

TCSEM 134 (795) Diagnostic Accuracy of Point-of-care Gastric Ultrasound: A Bayesian Analysis

Luis E. Chaparro¹, Richelle Kruisselbrink¹, Angineh Gharapetian¹, Noam Ami², Dustin Richler², Vincent W. Chan^{1,2}, Anahi Perlas²

¹University of Toronto, Toronto, Ontario, Canada, ²Toronto Western Hospital, University Health Network, Toronto, Ontario, Canada

TCSEM 135 (1215) Monitoring of Spinal Cord Blood Flow During Orthopedic Surgery in an Ovine Model

David R. Busch¹, Wesley B. Baker², Wensheng Guo², Lian He³, Mamadou Diop⁴, Daniel Milej⁴, Venkaiah Kavuri³, Olivia Amendolia³, Ramani Balu³, Keith St. Lawrence⁴, Arjun G. Yodh³, William A. Kofke³

¹University of Texas Southwestern, Dallas, Texas, ²Children's Hospital of Philadelphia, Philadelphia, Pennsylvania,

³Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, ⁴University of Western Ontario, London, Ontario, Canada

NR 136 (1393) Optical Neuromonitoring Detects Brain Hypoxia

David R. Busch¹, Wesley Baker², Wensheng Guo², Ramani Balu², Keith St. Lawrence³, Arjun G. Yodh², William A. Kofke², Lian He², Mamadou Diop³, Daniel Milej³, Venkaiah Kavuri², Olivia Amendolia²

¹University of Texas Southwestern, Dallas, Texas,

²Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, ³University of Western Ontario, London, Ontario, Canada

TCSEM 137 (995) Comparison of Pulse Oximeter Readings from Two Locations during Anesthesia

Sheldon Goldstein¹, Gabriela Samayoa², Jeremy Dennis², Alyson Dennis³, Malka Stohl⁴, Sakina Nayaz⁵

¹Montefiore Medical Center/Albert Einstein College of Medicine, Bronx, New York, ²Montefiore Medical Center, Bronx, New York, ³Barnard College, New York, New York,

⁴New York Psychiatric Institute, New York, New York,

⁵University of Rochester, Rochester, New York

Sunday, April 29 • Moderated Poster Discussion Sessions

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-05, continued

Group 17: Technology, Computing and Simulation, Equipment Monitoring and Trauma

Moderator: Jayanta Mukherji, MD, Loyola University Medical Center, Maywood, Illinois

T 141 (574) The Development and Implementation of Trauma Anesthesiology Guidelines at a Major Academic Center

Nick Schiavoni, Laura Kirk, Lauren McLaughlin, Erik Nelson
University of Colorado Denver School of Medicine, Aurora, Colorado

T 142 (843) Mild Traumatic Brain Injury is not 'Mild' ... Trauma Survivors Tell Their Complicated Stories

Kelsey Sullivan¹, Erin Hall², Samuel Galvagno³, Gordon Smith⁴, Deborah Stein¹, Jennifer Kidd⁴, Maureen McCunn¹

¹University of Maryland School of Medicine, Baltimore, Maryland, ²Georgetown University School of Medicine, Washington, DC, ³West Virginia University, School of Medicine, Charlottesville, West Virginia, ⁴Union Hospital of Cecil County, Elkton, Maryland

T 143 (1141) Histone Subunits Disrupt Lung Vascular Endothelial Cell Barrier in Trauma

Seakwoo Lee, Ramasubramanian Baalachandran, Trang Nguyen, Yunbo Ke, Anna Birukova, Kenichi Tanaka, Konstantin Birukov

University of Maryland School of Medicine, Baltimore, Maryland

T 144 (1330) Pre-Hospital Vital Signs Thresholds for Prediction of Emergency Blood Transfusion in < 55 Year Old Versus Older Trauma Patients

Yao Li, Colin Mackenzie, Catriona Miller, Peter Rock, Shiming Yang, **Peter Hu**

University of Maryland School of Medicine, Baltimore, Maryland

TCSEM 145 (1261) Frequency Analysis-Linked Poincaré Plot-integrated Score (f-PIS) of the Electroencephalogram during General Anesthesia

Teiji Sawa¹, Kazuko Hayashi², Atsushi Kainuma¹, Keita Inoue³, Mao Kinoshita¹

*¹Kyoto Prefectural University of Medicine, Kyoto, Japan
²Chubu Medical Center, Nantan, Kyoto, Japan, ³Japanese Red Cross Kyoto Daiichi Hospital, Kyoto, Japan*

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-05, continued

Group 17: Technology, Computing and Simulation, Equipment Monitoring and Trauma, continued

LB TCSEM 146 (1479) Narcotic Prescribing Practices at Pediatric Trauma Centers in the United States

Shiliang A. Cao¹, Hale Wills²

¹Alpert Medical School, Brown University, Providence, Rhode Island, ²Rhode Island Hospital, Providence, Rhode Island

11:30 am – 1:00 pm

MODERATED POSTER DISCUSSION SESSION-06

Group 1: Medically Challenging Cases, Pain Medicine, and Regional Anesthesia

Moderator: Raghuvender Ganta, MD, University Oklahoma Health Center-Anesthesia, Oklahoma City, Oklahoma

PM 159 (758) The Impact of a Yoga-based Daily Exercise Program on Pain, Sleep, and Stress in Patients with Fibromyalgia

Kristin Schreiber, Asmina Lazaridou, Alexandra Buliteanu, Robert R. Edwards

Brigham and Women's Hospital, Boston, Massachusetts

RA 160 (757) Differential Effect of Paravertebral Block amongst Mastectomy Patients: Phenotyping Using Preoperatively Determined Psychosocial and Psychophysical Characteristics

Kristin Schreiber, Natt Zinboonyahgoon, Robert R. Edwards

Brigham and Women's Hospital, Boston, Massachusetts

PM 161 (769) Primary Care Provider Attitudes toward Opioid Prescribing and Patient Satisfaction-Based Incentives

Jacqueline Carrico, Katharine Mahoney, Kristen Raymond, Peter Smith, Joseph Sakai, Susan Mikulich-Gilbertson, Christian Hopfer, Karsten Bartels

University of Colorado Denver School of Medicine, Aurora, Colorado

Sunday, April 29 • Moderated Poster Discussion Sessions

11:30 am – 1:00 pm

MODERATED POSTER DISCUSSION SESSION-06, continued

Group 1: Medically Challenging Cases, Pain Medicine, and Regional Anesthesia, continued

PM 162 (1054) Is High-frequency Heart Rate Variability Index a Marker for the Balance between Analgesia and Nociception during Laparoscopic Cholecystectomy in Adults under General Anesthesia?

Thomas A. Anderson¹, Timothy Houle², Hao Deng², Chihiro Toda², Abdolnabi S. Sabouri², Aaron S. Rudin², Joshua R. Segaran³

¹Stanford University School of Medicine, Stanford, California, ²Massachusetts General Hospital, Boston, Massachusetts, ³Massachusetts Institute of Technology, Cambridge, Massachusetts

PM 163 (1059) Enhanced Recovery after Procedure (ERAP): A Multimodal, Periprocedural Analgesia Protocol in the Interventional Radiology (IR) Suite

Rafael Vazquez, Joseph McDowell, Vanessa Kurzweil, Dan B. Ellis, Brinda B. Kamdar, Melvin Omodon, Ronald S. Arellano

Massachusetts General Hospital, Boston, Massachusetts

MCC 164 (565) Neuromodulation for Intractable Neuropathic Pain Caused by Neuromyelitis Optica Involving Spine

Melissa Z. Murphy, David A. Edwards

Vanderbilt University Medical Center, Nashville, Tennessee

Group 2: Patient Safety

Moderator: Michael Russell, MD, West Virginia University School of Medicine, Morgantown, West Virginia

PS 168 (729) Safety of Anesthesia for Percutaneous Endoscopic Gastrostomy in Patients with Amyotrophic Lateral Sclerosis

Andrew Moss¹, Eric J. Heyer², Andrea N. Miltiades²

¹Columbia University College of Physicians and Surgeons, New York, New York, ²Columbia University Medical Center, New York, New York

PS 169 (878) Identifying Risky Practices Related to Perioperative Phenylephrine Infusions: An Audit-based Approach to Link Root Cause Analysis (RCA) to Quality Improvement (QI)

Kellie Jaremko, Jeremi Mountjoy, Aalok V. Agarwala, Allison Doney, May C. Pian-Smith

Massachusetts General Hospital, Boston, Massachusetts

11:30 am – 1:00 pm

MODERATED POSTER DISCUSSION SESSION-06, continued

Group 2: Patient Safety, continued

PS 170 (958) Disruptive Intraoperative Behavior: Reporting to Management and Satisfaction with Management's Response

Ian Fast¹, Alexander Villafranca¹, Bernadette Henrichs², Kirby Magid¹, Chris Christodoulou¹, Eric Jacobsohn¹

¹University of Manitoba, Winnipeg, Manitoba, Canada,

²Washington University School of Medicine in St. Louis, St. Louis, Missouri

PS 171 (696) Development and Initial Experience of an Anesthesiology Based Team using Propofol for Gastrointestinal Endoscopies at a Rural Community Hospital: Airway Complications during Colonoscopies

Yvon F. Bryan, Douglas H. McLaughlin, Kathleen Johnson, Elizabeth Hasanaj, Sundararajan Sundararajan

Wake Forest University School of Medicine, Winston-Salem, North Carolina

PS 172 (1268) Airway Complications using Different Anesthetic Techniques in Patients Undergoing Esophagogastroduodenoscopic Procedures in a Rural Community Hospital

Yvon F. Bryan, Douglas H. McLaughlin, Kathleen Johnson, Elizabeth Hasanaj, Sundararajan Sundararajan

Wake Forest University School of Medicine, Winston-Salem, North Carolina

Group 3: Pediatric Anesthesiology

Moderator: James DiNardo, MD, Boston Children's Hospital, Boston, Massachusetts

PED 177 (542) Perioperative Outcomes Comparing High Surgical Volume vs. Low Surgical Volume Centers for Complex Cranial Vault Reconstruction: A Multicenter Study from the Pediatric Craniofacial Collaborative Group

Srijaya K. Reddy¹, Allison M. Fernandez², Heather Gordish-Dressman³, Bridget L. Muldowney⁴, Jose L. Martinez⁵, Franklin Chiao⁶, Paul A. Stricker⁷

¹Monroe Carroll Jr. Children's Hospital; Vanderbilt University Medical Center, Nashville, Tennessee, ²Johns Hopkins All Children's Hospital, St. Petersburg, Florida, ³Children's National Health System; The George Washington School of Medicine and Health Sciences, Washington, DC,

⁴University of Wisconsin School of Medicine and Public Health, Madison, Wisconsin, ⁵CHU Sainte-Justine / University of Montreal, Montreal, Quebec, ⁶Weill Cornell Medical College, New York, New York, ⁷The Children's Hospital of Philadelphia / Perelman School of Medicine at the University of Pennsylvania, Philadelphia, Pennsylvania

Sunday, April 29 • Moderated Poster Discussion Sessions

11:30 am – 1:00 pm

MODERATED POSTER DISCUSSION SESSION-06, continued

Group 3: Pediatric Anesthesiology, continued

PED 178 (608) Retrospective Review of Indications and Diagnostic Yield of Brain MRI with Anesthesia in Children Fewer than 3 Years of Age

Jamie W. Sinton^{1,2}, Dean Andropoulos², Andres Jimenez^{1,2}, Marcia K. Kukreja^{1,2}, Huirong Zhu², Eduardo Medellin^{1,2}

¹Baylor College of Medicine, Houston, Texas, ²Texas Children's Hospital, Houston, Texas

PED 179 (610) PECS 1 Block for Port-a-Cath Insertion or Removal in Children: A Retrospective Review

Farrukh Munshey¹, Radhamangalam J. Ramamurthi¹, Ban Tsui²

¹Lucille Packard Children's Hospital, Stanford, California,

²Stanford University School of Medicine, Stanford, California

PED 180 (1124) Unplanned Postoperative Intubation in Infant and Neonatal Surgical Patients: Predictors and Associated Mortality

Lisa Eisler¹, Minjae Kim¹, Fatemah Mamdani¹, May Hua¹, Guohua Li², Lena Sun¹

¹Columbia University Medical Center, New York, New York,

²Columbia University College of Physicians and Surgeons, Mailman School of Public Health, New York, New York

PED 181 (1125) Reducing Postoperative Opioid Use in Children after Adenotonsillectomy

Amanda Lorinc¹, Maria Grig¹, Thanh Nguyen¹, Shilin Zhao¹, Chelsea Bodystun²

¹Vanderbilt University School of Medicine, Nashville,

Tennessee, ²Weill Cornell Medicine, New York City, New York

PED 182 (1248) Children and Adults with Univentricular Hearts Score Lower on Full Scale Intelligence Testing Compared to Children with Biventricular Congenital Heart Disease: A Meta-analysis

William M. Jackson¹, Nicholas Davis¹, Johanna Calderon², David C. Bellinger², Lena Sun¹

¹Columbia University College of Physicians and Surgeons, New York, New York, ²Boston Children's Hospital, Boston, Massachusetts

PED 183 (613) Isoelectric EEG Events in Young Children under General Anesthesia

Ian Yuan, Alexis A. Topjian, Matthew P. Kirschen, Nicholas S. Abend, Shih-Shan L. Chen, Jimmy W. Huh, Charles D. Kurth

The Children's Hospital of Philadelphia, Philadelphia, Pennsylvania

11:30 am – 1:00 pm

MODERATED POSTER DISCUSSION SESSION-06, continued

Group 4: Perioperative Anesthesia

Moderator: Derek Sakata, MD, University of Utah, Salt Lake City, Utah

PA 186 (740) A Strategy to Decreases Turn-Over-Time by Improving Culture in the Operating Room

Richard J. Banchs¹, Molly Driscoll¹, Hokuto Nishioka²

¹University of Illinois Chicago, Chicago, Illinois, ²University of Illinois Hospital, Chicago, Illinois

PA 187 (869) Effect of Dexamethasone on Postoperative Pain Scores in a Resource – Limited Setting: A Randomized Double Blind Placebo Controlled Clinical Trial

Nodreen C. Ayupo, Emmanuel Ayebale, Fred Bulamba, Arthur Kwizera

Makerere University, Kampala, Uganda

PA 188 (977) Postoperative Hypoxemic Events are Independently Associated with Increased Mortality within One Year from the Date of Surgery

Ana Fernandez-Bustamante, Leslie Jameson, Ken Bullard, Alexander M. Kaizer, Karsten Bartels

University of Colorado School of Medicine, Aurora, Colorado

PA 189 (1015) A Nationwide Study of Dental Injuries in Relation to General Anesthesia

Rasmus E. Christensen, Josefine S. Baekgaard, Lars S. Rasmussen

Rigshospitalet, Copenhagen, Denmark

PA 190 (1408) Echocardiographic Assessment using Subxiphoid-only View (EASy) Compared to Focused Transthoracic Echocardiography (FoTE) in the Perioperative Period: A Multicenter Prospective Study

Kevin Emr¹, Nibras Bughrara¹, Johnathan R. Renew², Jose Diaz-Gomez², Kirti Sahu¹, Kevin Roberts¹

¹Albany Medical Center, Albany, New York, ²Mayo Clinic Florida, Jacksonville, Florida

Sunday, April 29 • Moderated Poster Discussion Sessions

11:30 am – 1:00 pm

MODERATED POSTER DISCUSSION SESSION-06, continued

Group 5: Regional Anesthesia

Moderator: Richa Wardhan, MD, University of Florida College of Medicine, Gainesville, Florida

RA 195 (517) Anterior Quadratus Lumborum Block Provides More Effective Perioperative Pain Relief for Total Hip Replacement

Hironobu Ueshima, Noriko Tanaka, Hiroshi Otake, Yumi Ishida

Showa University Hospital, Tokyo, Japan

RA 196 (656) Intravenous Dexamethasone for Prolongation of Analgesia Following Supraclavicular Brachial Plexus Block for Shoulder Arthroscopy: A Randomized, Controlled, Phase IV Dose-Response Study

Aaron Schweitzer, Meghan A. Kirksey, Stephanie Huang, Carrie R. Guheen, Stephen Haskins, Kanupriya Kumar, Richard Kahn

Hospital for Special Surgery, New York, New York

RA 197 (774) Efficacy of Abdominal Peripheral Nerve Block for Surgical Space Condition during Robot-Assisted Laparoscopic Surgery: A Pilot Study

Atsuko Matsuzaki, Satoko Noguchi, Junichi Saito, Kishiko Nakai, Masato Kitayama, Kazuyoshi Hirota

Hirosaki University Hospital, Hirosaki-shi, Japan

RA 198 (961) Association of Peripheral Nerve Blocks with Postoperative Outcomes in Ambulatory Shoulder Surgery Patients: A Single Center Matched Cohort Study

Gavin M. Hamilton¹, Reva Ramlogan¹, Anne Lui¹, Colin McCartney¹, Faraj Abdallah², Daniel I. Mclsaac²

¹University of Ottawa, Ottawa, Ontario, Canada, ²University of Toronto Faculty of Medicine, Toronto, Ontario, Canada

RA 199 (689) Should Thoracic Paravertebral Blocks be Used to Prevent Chronic Post-surgical Pain Following Breast Cancer Surgery? A Systematic Analysis of Evidence in Light of IMMPACT Recommendations

Ghazaleh Goldar¹, Nasir Hussain², Uma Shastri³, Faraj Abdallah⁴

¹Central Michigan University, College of Medicine, Mt. Pleasant, Michigan, ²Ohio State University, Wexner Medical Center, Columbus, Ohio, ³Vanderbilt University School of Medicine, Nashville, Tennessee, ⁴University of Toronto Faculty of Medicine, Ottawa, Ontario, Canada

11:30 am – 1:00 pm

MODERATED POSTER DISCUSSION SESSION-06, continued

Group 6: Technology, Computing and Simulation, Equipment Monitoring

Moderator: Jesse Ehrenfeld, MD, MPH, Vanderbilt University School of Medicine, Nashville, Tennessee

TCSEM 203 (528) Feasibility of Using a Remote Monitoring Technology to Build a Consultative Critical Care Service for High Risk Non-ICU Surgical Patients

Kyan C. Safavi^{1,2}, William Driscoll², Milcho Nikolov², Kalpan Tolia², Gopi Gogada², Sunil Eappen³, Kevin K. Tremper⁴, Jeanine P. Wiener-Kronish²

¹Harvard Medical School, Boston, Massachusetts,

²Massachusetts General Hospital, Boston, Massachusetts,

³Massachusetts Eye and Ear Infirmary, Boston, Massachusetts, ⁴University of Michigan Medicine, Ann Arbor, Michigan Medicine

TCSEM 204 (697) The Simulation Wars: A Competition to Increase Participation in Emergency Manuals Simulation Training and a Novel Tool for Rating Simulation Competitions

Khoa Nguyen, Jeffrey Huang

University of Central Florida, Orlando, Florida

TCSEM 205 (713) Comparisons of the Endobronchial Segment of Left-Sided Double-Lumen Tubes

Zen'ichiro Wajima¹, Kazuyuki Imanaga², Toshiya Shiga³, Takahisa Nishiyama¹, Hiroyuki Uchino¹

¹Tokyo Medical University, Tate-machi, Tokyo, Japan,

²Shonan Kamakura General Hospital, Kamakura, Kanagawa, Japan, ³International University of Health and Welfare, Ōtawara, Tochigi, Japan

TCSEM 206 (868) Anesthesiology Control Tower: Feasibility Assessment to Support Translation (ACTFAST)

Teresa Murray-Torres¹, Frances Wallace², Mara Bollini¹, Michael Avidan¹, Mary C. Politi¹

¹Washington University School of Medicine in St. Louis, St. Louis, Missouri, ²Brigham and Women's Hospital, Boston, Massachusetts

TCSEM 207 (1139) Automated Feedback Improves Perioperative Treatment of Postoperative Nausea and Vomiting

Calvin L. Gruss¹, Jonathan Wanderer², Brian S. Rothman¹, Teus Kappen¹, Bala Nair³, Elizabeth Hansen³

¹Vanderbilt University Medical Center, Nashville, Tennessee, ²Vanderbilt University School of Medicine, Nashville, Tennessee, ³University of Washington, Seattle, Washington

Sunday, April 29 • Moderated Poster Discussion Sessions

11:30 am – 1:00 pm

MODERATED POSTER DISCUSSION SESSION-06, continued

Group 6: Technology, Computing and Simulation, Equipment Monitoring, continued

TCSEM 208 (1243) Noninvasive Monitoring of Ventricular-Arterial Coupling during Non-Cardiac Surgery

Yurie Sakaguchi¹, Kayo Tsugita¹, Yuka Matsuki¹, Michiko Kitamura¹, Satoshi Matsuoka², Tetsuo Fujibayashi¹, Kenji Shigemitsu¹

¹University of Fukui Hospital, Fukui, Japan, ²University of Fukui, Fukui, Japan

Group 7: Geriatric Anesthesia and Patient Safety

Moderator: Dragos Galusca, MD, FCCP, FASA, Henry Ford Health System, Detroit, Michigan

PS 211 (560) Burnout in Certified Anesthesiologist Assistants

Henry Kroll¹, Michelle T. Jesse¹, Katherine S. Monroe², Nickolas Davies³

¹Henry Ford Health System, Detroit, Michigan, ²Emory University School of Medicine, Atlanta, Georgia, ³Memorial Hospital West, Pembroke Pines, Florida

PS 212 (633) Burnout in Certified Registered Nurse Anesthetists

Henry Kroll, Michelle T. Jesse, Joshua Olson
Henry Ford Health System, Detroit, Michigan

PS 213 (1146) Derivation, Validation, and Sustained Performance of a Hospital-Wide Elective Surgery Delirium Risk Tool (AWOL-S)

Elizabeth L. Whitlock, Anne L. Donovan, Matthias R. Braehler, Jennifer A. Kaplan, Emily Finlayson, Stephanie E. Rogers, Vanja C. Douglas

University of California, San Francisco School of Medicine, San Francisco, California

GA 214 (1386) Cognitive Change after Cardiac Surgery or Cardiac Catheterization: An Epidemiological Study

Elizabeth L. Whitlock, L. G. Diaz-Ramirez, M. M. Glymour, W. J. Boscardin, Kenneth E. Covinsky, Alexander K. Smith

University of California, San Francisco School of Medicine, San Francisco, California

2:00 pm – 3:30 pm

MODERATED POSTER DISCUSSION SESSION-07

Group 1: Critical Care

Moderator: Samrat Worah, MD, State University of New York Downstate Medical Center, Brooklyn, New York

CC 1 (606) Long-Term Outcomes Following Extracorporeal Life Support for Acute Respiratory Failure

Michael D. McDonald¹, Danielle K. Sandsmark¹, Jessica Palakshappa², Mark E. Mikkelsen¹, Brian J. Anderson¹, Jacob Gutsche¹

¹Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, ²Wake Forest School of Medicine, Winston-Salem, North Carolina

CC 2 (1467) Acute Respiratory Failure Managed via Interfacility Transport for Extracorporeal Membrane Oxygenation: A Three-year Experience

Michael D. McDonald, William J. Vernick, Krzysztof Laudanski, Jacob Gutsche

Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

CC 3 (737) Clinical Utility of Hemodynamic Transesophageal Echocardiography (hTEE) in the Management of Unstable Cardiothoracic ICU Patients

Joshua C. Peterson¹, Brigid C. Flynn¹, Maung Hlaing², Nicholas A. Haglund¹, Hiroo Takayama³

¹University of Kansas School of Medicine, Kansas City, Kansas, ²University of Colorado Denver School of Medicine, Aurora, Colorado, ³Columbia University, New York, New York

CC 4 (867) Hyperacute Catheter-Associated Pulmonary Embolus in the Immediate Postoperative Period Following Spinal Surgery

Ergit Papparisto, Daniel Donoho, Michael Kim, Kevin Blaine

Keck School of Medicine of University of Southern California, Los Angeles, California

CC 5 (1033) Therapeutic Effects of Hyaluronic Acid Following Lung Injury Induced by *E.coli* Derived Extracellular Vesicles

Jae-Woo Lee, Airan Liu, Jeonghyun Park, Xiwen Zhang, Hideya Kato, Jaehoon Lee, Qi Hao, Michael Matthay

University of California, San Francisco School of Medicine, San Francisco, California

Sunday, April 29 • Moderated Poster Discussion Sessions

2:00 pm – 3:30 pm

MODERATED POSTER DISCUSSION SESSION-07, continued

Group 2: Global Health

Moderator: Joseph Bavaro MD, Northwestern University
Feinberg School of Medicine, Chicago, Illinois

GH 7 (523) Impact of the Implementation of a Pediatric Anesthesia Curriculum for Non-Physician Anesthesia Providers in Lilongwe, Malawi

Titilopemi Aina, Olutoyin Olutoye, Ann Ng

Texas Children's Hospital/Baylor College of Medicine, Houston, Texas

GH 8 (1010) Implementation of a Perioperative Handoff Checklist in a Guatemala City Teaching Hospital

Jennifer Yuan¹, Christopher R. King¹, Ricardo Echeverría², Justin Knittel¹

¹Washington University School of Medicine in St. Louis, St. Louis, Missouri, ²Roosevelt Hospital, Guatemala City, Guatemala

GH 10 (663) The Impact of Access and Resource Deficiencies on Trauma Care in Kenya

J. Matthew Kynes¹, Mark Newton², Jonathan A. Niconchuk¹, Susan Nabulindo³, Zipporah Ngumi³, Matthew D. McEvoy¹, Bantayehu Sileshi¹

¹Vanderbilt University Medical Center, Nashville, Tennessee, ²Kijabe AIC Hospital, Kijabe, Kenya, ³University of Nairobi, Nairobi, Kenya

GH 11 (755) Establishing a Database for Quality Assessment of Pediatric Surgical Missions

J. Matthew Kynes, Caleb Hayes, Laura Zeigler, Kelly McQueen

Vanderbilt University Medical Center, Nashville, Tennessee

Group 3: Medically Challenging Cases, Pediatric Anesthesiology, and Perioperative Anesthesia

Moderator: Hiroshi Otake, MD, Showa University
Hospital, Tokyo, Japan

MCC 15 (519) Postoperative Migration of Functioning Epidural Catheter to Intrathecal Space Following Fetoscopic Myelomeningocele Repair: A Case Report

Caitlin D. Sutton, Titilopemi Aina

Baylor College of Medicine, Houston, Texas

2:00 pm – 3:30 pm

MODERATED POSTER DISCUSSION SESSION-07, continued

Group 3: Medically Challenging Cases, Pediatric Anesthesiology, and Perioperative Anesthesia, continued

MCC 16 (1036) Loss of Secure Airway after Difficult Intubation in a Patient with Osteogenesis Imperfecta Undergoing Cesarean Delivery

Caitlin D. Sutton¹, Allison McDonald², Brendan Carvalho³

¹Baylor College of Medicine, Houston, Texas, ²Kaiser Permanente, San Jose, California, ³Stanford University School of Medicine, Stanford, California

MCC 17 (892) Case Report: Pre and Perioperative Considerations in a Patient with Cold Temperature Induced Anaphylaxis and Recently Diagnosed Hereditary Angioedema

Allen Saks¹, Michelle Kars²

¹Donald and Barbara Zucker School of Medicine at Hofstra, Lake Success, New York, ²Northwell Health System, New Hyde Park, New York

PED 18 (1113) Laryngo-tracheo-esophageal Clefts: Should We be Changing our Management?

Allen Saks¹, Michelle Kars², **Jonathan Leiderman²**

¹Donald and Barbara Zucker School of Medicine at Hofstra, Lake Success, New York, ²Cohen Children's Medical Center/ LIJ Medical Center, New Hyde Park, New York

PA 19 (1416) Quality Improvement Project: Does Pre-procedural General Cognition and Neurocognitive Diagnoses Affect Colonoscopy Preparation in Older Adults?

Francesca Arias, Michael Riverso, Shellie-Anne Levy, Cynthia Garvan, Patrick J. Tighe, David S. Estores, Catherine Price

University of Florida College of Medicine, Gainesville, Florida

MCC 20 (1422) Current Cognitive Impairment in a Patient with a History of Delirium: A Preoperative Dilemma

Francesca Arias, Alberto Bursian, Joshua Sappenfield, Catherine Price

University of Florida College of Medicine, Gainesville, Florida

Sunday, April 29 • Moderated Poster Discussion Sessions

2:00 pm – 3:30 pm

MODERATED POSTER DISCUSSION SESSION-07, continued

Group 4: Medically Challenging Cases

Moderator: Masataka Yokoyama, MD, Kochi University School of Medicine, Kochi, Japan

MCC 24 (505) Intraoperative Placement of Prone Femoral Central Venous Catheter in a Patient with Hemorrhagic Cerebral Arteriovenous Malformation

Zuhair Siddiqui¹, Julia B. Sobol², Yefim Vilnits¹

¹Columbia University, New York, New York, ²Columbia University/New York-Presbyterian Hospital, New York, New York

MCC 25 (630) Complications Following Lumbar Drain Placement for Thoracic/Thoracoabdominal Aortic Aneurysm Repair: Two Case Reports and Literature Review

Matthew G. Broyles, Weifeng Song, Benjamin Tuck, Michelle Downing, Thomas Moore, David Miller

University of Alabama at Birmingham, Birmingham, Alabama

MCC 26 (648) Management of Hypoxia during Centrally Cannulated VA ECMO

Brent Kidd, Michael Stentz

Emory University School of Medicine, Atlanta, Georgia

MCC 27 (682) The Use of High Flow Nasal Oxygenation in the Anesthetic Management of Tracheal Stent Deployment: A Case Report

Tracey Straker¹, Valerie Armstead²

¹Montefiore Medical Center, Bronx, New York, ²Jefferson Memorial, Philadelphia, Pennsylvania

MCC 28 (1109) Management of an Infant with Artemis Severe Combined Immunodeficiency

Claude Abdallah

Children's National Health System, Washington, DC

Group 5: Patient Safety

Moderator: Tom Krejcie, MD, Northwestern University Feinberg School of Medicine, Chicago, Illinois

PS 33 (1007) Predicting Bilingual Patients' Need for Language Translation during Emergence from Anesthesia

Nicholas Lyon, **Christopher Awounou,** Christopher Seiboldt, Mark Berkowitz, Nicole Kliestik, Shreya Dhar, David Glick

The University of Chicago Medicine, Chicago, Illinois

2:00 pm – 3:30 pm

MODERATED POSTER DISCUSSION SESSION-07, continued

Group 5: Patient Safety, continued

PS 34 (1060) Noninvasive Ventilatory Monitoring in Children Following Posterior Spinal Fusion Surgery

Constance Monitto¹, Nikki Kerns², Aaron Hsu¹, Jordan Duval-Arnould², Luke Zsido², Myron Yaster³, Allan Gottschalk²

¹Johns Hopkins University, Baltimore, Maryland, ²Johns Hopkins Medical Institutions, Baltimore, Maryland,

³Children's Hospital Colorado, Aurora, Colorado

PS 35 (1245) Postoperative Reintubations: The Possible Role of Residual Neuromuscular Blockade

Benjamin Matelich, Michael Todd, Tae Kim

University of Minnesota Medical School, Minneapolis, Minnesota

PS 36 (1288) Comparison of TOF Ratios with Non-Invasive Minute Ventilation Measurements in Monitoring Residual Neuromuscular Block in the PACU

Jaideep H. Mehta¹, Matthew Delcambre¹, James Pierre¹, Tariq Syed¹, Jasmin Imsirovic², David Amaro-Driedger¹

¹University of Texas Health Science Center, Houston, Texas,

²Respiratory Motion Inc., Waltham, Massachusetts

PS 37 (1384) In-house After-hours Coverage Improves Responsiveness of an Inpatient Pain Specialist Service

Christopher Wahal¹, Edmund Ong², Whitney Molasky², Jessica Carter², Brian Ginsberg², Padma Gulur²

¹Duke University Medical Center, Durham, North Carolina,

²Duke University School of Medicine, Durham, North Carolina

PS 38 (1431) Microbial Contamination of Today's Operating Room Environments

Sundara Reddy¹, Valerie Renkor¹, Randy Loftus²

¹University of Iowa Hospitals & Clinics, Iowa City, Iowa,

²RDB Bio-informatics, Omaha, Nebraska

Sunday, April 29 • Moderated Poster Discussion Sessions

2:00 pm – 3:30 pm

MODERATED POSTER DISCUSSION SESSION-07, continued

Group 6: Pediatric Anesthesiology

Moderator: Caleb Ing, MD, MS, Columbia University College of Physicians and Surgeons, New York, New York

PED 42 (655) Academic Achievement After Multiple Exposures to Early Childhood Surgery and Anesthesia

Robert Williams¹, Max Breidenstein¹, Alexander F. Friend¹, Emmett E. Whitaker², Andreas Taenzer³

¹University of Vermont, Burlington, Vermont, ²Nationwide Children's, Columbus, Ohio, ³Dartmouth-Hitchcock Medical Center, Hanover, New Hampshire

PED 43 (1056) Relationship of Multiple Single Service Anesthesia Exposures and Rate of Quality Events

Richard J. Berens, George M. Hoffman

Medical College of Wisconsin, Milwaukee, Wisconsin

PED 44 (1189) Relative Efficacy of TIVA and Adjuvant Intraoperative Dexmedetomidine in Reducing Emergence Delirium in Children: A Network Meta-analysis

Maria A. Petre¹, Marina Englesakis², Jason Maynes¹, Petros Pechlivanoglou¹, Kazuyoshi Aoyama¹

¹The Hospital for Sick Children, Toronto, Ontario, Canada, ²University Health Network, Toronto, Ontario, Canada

PED 45 (1263) Airway Management in Patients with Mucopolysaccharidoses: When Does it Become Difficult?

Lauren Madoff, Anna Litvinova, Joseph Cravero

Boston Children's Hospital, Boston, Massachusetts

PED 46 (1266) Enhanced Recovery Pathway for Pediatric Colorectal Surgery: A View on Pain Management

Erin L. Springer¹, Emily Boss¹, Ira Leeds¹, Eric B. Jelin¹, Jessica A. George²

¹Johns Hopkins Hospital, Baltimore, Maryland, ²Johns Hopkins University School of Medicine, Baltimore, Maryland

2:00 pm – 3:30 pm

MODERATED POSTER DISCUSSION SESSION-07, continued

Group 7: Patient Safety and Pediatric Anesthesiology

Moderator: J. Lance Lichtor, MD, Yale University School of Medicine, New Haven, Connecticut

LB PED 51 (1524) Prediction of Difficult Laryngoscopy in Paediatric Population: Role of Ratio of Patient's Height to Thyromental Distance

Devika Mishra, Kirti N. Saxena

Maulana Azad Medical College and Lok Nayak Hospital, New Delhi, India

LB PED 52 (1522) Major Non-cardiac Surgeries in Children with Uncorrected Double Outlet Right Ventricle

Indu M. Sen, Venkata Ganesh, Karan Singla, Sandhya Yaddanapudi, Nitin J. Peters, Prema Menon

Pgimer, Chandigarh, Chandigarh, India

LB PED 53 (1518) Spinal Anesthesia in High-risk and Premature Infants Presenting for Infraumbilical and Lower Extremity Surgeries can Reduce Postoperative Apnea and Improve Operating Room Efficiency: A Case Series

Chang Amber Liu

Massachusetts General Hospital, Boston, Massachusetts

LB PS 54 (1480) Anaesthesia for MRI: Reflexions for Safety, Hazards, Equipment and Monitoring: A Critical Review of the Literature

Johnny Kenth, Russell Perkins, Robert Walker

Royal Manchester Children's Hospital, Manchester, England

PED 55 (779) Differences in Anesthetic Management and Postoperative Narcotic Consumption after a Novel, Fusion-less Adolescent Scoliosis Surgery Compared to Traditional Posterior Spinal Fusion

Hedwig Schroeck, **Erdong Chen**, Lisa A. Rubenberg, Grant Meador, Brian D. Sites

Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire

Sunday, April 29 • Moderated Poster Discussion Sessions

4:00 pm – 5:30 pm

MODERATED POSTER DISCUSSION SESSION-08

Group 1: Pediatric Anesthesiology

Moderator: Narasimhan Jagannathan, MD,
Ann & Robert H. Lurie Children's Hospital of Chicago;
Northwestern University Feinberg School of Medicine,
Chicago, Illinois

PED 60 (543) Dexmedetomidine as a Non-opiate Adjunct to Multimodal Perioperative Pain Control in Pediatric Patients Undergoing Craniofacial Reconstructive Surgery: A Retrospective Study

Jacob Jones¹, Heather Gordish-Dressman², Sophie Pestieau², Sriyaya K. Reddy²

¹The George Washington University Hospital, Washington, DC, ²Children's National Health System, Washington, DC

PED 61 (654) High Dosing of Aminocaproic Acid Associated with Less Blood Loss and Lower D-Dimer Levels in Children Undergoing Major Cranial Vault Reconstruction

Thanh Nguyen¹, Thomas M. Austin², Humphrey Lam², Jonathan Schoenecker¹

¹Vanderbilt University Medical Center, Nashville, Tennessee, ²Emory University School of Medicine, Atlanta, Georgia

PED 62 (1111) Elective Extracorporeal Membrane Oxygenation Support for High-risk Pediatric Cardiac Catheterization

Katherine L. Zaleski, Rebecca Schol, Ravi Thiagarajan, James DiNardo, Viviane Nasr

Boston Children's Hospital, Boston, Massachusetts

PED 63 (1211) The Effects of Dexmedetomidine on Myocardial Repolarization in Children Undergoing General Anesthesia: A Randomized Controlled Trial

Andrew Poznikoff¹, Elizabeth D. Sherwin², Matthias Görges¹, **Simon D. Whyte¹**

¹The University of British Columbia, Vancouver, British Columbia, Canada, ²Children's National Heart Institute, Washington, DC

4:00 pm – 5:30 pm

MODERATED POSTER DISCUSSION SESSION-08, continued

Group 2: Pediatric Anesthesiology

Moderator: Caleb Ing, MD, MS, Columbia University
College of Physicians and Surgeons, New York, New York

PED 69 (561) Neonatal Abstinence Syndrome: Kentucky Children's Hospital's Experience with Outcome Measures and Disposition

Alison Robles¹, Robert Weaver², Bradley Withers¹, Ranjan Ragulojan¹, Doug Dauer¹, Amy DiLorenzo¹, Arundathi Reddy¹

¹University of Kentucky Health Care, Lexington, Kentucky,

²University of Cincinnati College of Medicine, Cincinnati, Ohio

PED 70 (602) A Comparison of the Incidence of Agitation Scores and Length of PACU Stay in Pediatric Patients with and without Midazolam Premedication for Ear Tube Placement

Sarah Tariq¹, Jesus Apuya²

¹University of Texas, Texas Medical Center Houston, Houston, Texas, ²Arkansas Children's Hospital, Little Rock, Arkansas

PED 71 (780) Pharmacokinetics and Effects of Intranasal Dexmedetomidine in Children under 11 Years

Panu Uusalo¹, Samuel Guillaume², Saija Siren¹, Tuula Manner², Sanna Vilo¹, Mika Scheinin¹, Teijo Saari¹

¹Turku University Hospital, Turku, Finland, ²Institute of Medicine, University of Turku, Finland

PED 72 (1098) Follow-up on the EGAIN Study: A Prospective Cohort Study on Impact of Exposure to General Anaesthesia during Infancy on Neurocognitive Development

Choon L. Bong¹, Josephine S. Tan¹, John Allen², Anne Rifkin-Graboi³, Michael Meaney³, Yew N. Siow¹

¹KK Women's and Children's Hospital Singapore, Singapore, Singapore, ²Duke-NUS Graduate Medical School, Singapore, ³Singapore Institute for Clinical Sciences, Singapore

Sunday, April 29 • Moderated Poster Discussion Sessions

4:00 pm – 5:30 pm

MODERATED POSTER DISCUSSION SESSION-08, continued

Group 3: Perioperative Anesthesia

Moderator: Makoto Ozaki, MD, PhD, Tokyo Women's Medical University, Tokyo, Japan

PA 78 (766) Effect of Lidocaine on Src Kinase Activity in Circulating Tumor Cells Isolated from KPC Mice with Pancreatic Cancer

Effrossyni G. Votta-Velis¹, Sandeep Kumar², Alain Borgeat², Ajay Rana¹

¹University of Illinois at Chicago, Chicago, Illinois, ²Balgrist University Hospital, Zürich, Switzerland

PA 79 (1310) The Triple Variable Index Reveals Shared Patterns of Physiology that Broaden the Utility of Common Intraoperative Monitoring Systems to Capture Risk Information not Identified by Established Models

Michael P. Schnetz¹, David Danks², Douglas Landsittel¹, Keith M. Vogt¹, James W. Ibinson¹, Steven Whitehurst³, Ata M. Kaynar¹

¹University of Pittsburgh, Pittsburgh, Pennsylvania, ²Carnegie Mellon University, Pittsburgh, Pennsylvania, ³University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania

PA 80 (1363) The Risk of Severe Aortic Stenosis in Elective Non-Cardiac Surgery

Jay S. Han¹, W. Scott Beattie²

¹University Health Network, Toronto, Ontario, Canada, ²University of Toronto Faculty of Medicine, Toronto, Ontario, Canada

PA 81 (1370) Impact of ICU Admission on the Perioperative Trajectory of Elderly Surgical Patients

Romain Jouffroy¹, Yannick Le Manach², Pakeezah Saadat²

¹Necker-Enfants Malades Hospital, Hamilton, Ontario, Canada, ²McMaster University, Hamilton, Ontario, Canada

PA 82 (1444) Stroke Volume Assessment by Invasive Arterial Blood Pressure Tracing, SpO₂ and Bioreactance: A Comparative Study

Jasper Wylleman¹, Tina Maes¹, Roxane Cool², Michel Vervoort¹, Jan Poelaert²

¹UZ Brussel, Brussels, Belgium, ²Vrije Universiteit Brussel (VUB), Brussels, Belgium

4:00 pm – 5:30 pm

MODERATED POSTER DISCUSSION SESSION-08, continued

Group 4: Medically Challenging Cases

Moderator: Tomoko Yorozu, MD, PhD, Kyorin University, School of Medicine, Tokyo, Japan

MCC 87 (687) Cardiac Tamponade Following Orthotopic Liver Transplantation: Two Case Reports

Caroline R. Gross, Peter Downey, Julia Sobol

Columbia University, New York-Presbyterian Hospital, New York, New York

MCC 88 (797) Utilization of Veno-Arterial Extracorporeal Membrane Oxygenation in Acute Massive Pulmonary Embolism: A Case Report

Jonathan Tang, S. V Satyapriya, Amar M. Bhatt

Ohio State University Wexner Medical Center, Columbus, Ohio

MCC 89 (948) An Unexpected Infection: A Case of Neurobrucellosis

Benjamin T. Kor¹, Daniel Ermann¹, Rouhin Sen¹, Renuga Vivekanandan²

¹Creighton University School of Medicine, Omaha, Nebraska, ²Creighton University Bergan Mercy, Omaha, Nebraska

LB NR 90 (1458) Use of Tranexamic Acid to Reduce Intraoperative Bleeding in Craniotomy for Meningioma Patients

Ahsan K. Siddiqui, Haeder Abbas

King George Medical University, Lucknow, India

LB NR 91 (1488) Alpha Power Decreases with Age During Isoflurane Anesthesia

Darren Hight, Monika Stucki, Vladimir Krejci, Friedrich Lersch, Volker Hartwich, Christian Rummel, Heiko Kaiser
University Hospital Bern, Bern, Switzerland

LB NR 92 (1516) Acute Effects of Total Knee Arthroplasty with General Anesthesia on Functional Brain Networks in Patients with Mild Cognitive Impairment

Cheshire Hardcastle, Hua Huang, Jared J. Tanner, Hari K. Parvataneni, Mingzhou Ding, Catherine Price

University of Florida College of Medicine, Gainesville, Florida

Sunday, April 29 • Moderated Poster Discussion Sessions

4:00 pm – 5:30 pm

MODERATED POSTER DISCUSSION SESSION-08, continued

Group 5: Medically Challenging Cases

Moderator: George Frendl, MD, PhD, FCCM, Brigham and Women's Hospital; Harvard Medical School, Boston, Massachusetts

MCC 87 (949) Management of Scimitar Syndrome in Two Pregnant Patients

Laura Lombardi-Karl, Suzanne Mankowitz

Columbia University Medical Center, New York, New York

MCC 88 (985) Should We Pre-emptively Treat Pericarditis Following Penetrating Chest Trauma?

Heather Barkin, Miguel Cobas, Alexander C. Fort

University of Miami Miller School of Medicine, Miami, Florida

MCC 89 (1022) Perioperative Pain Management Emphasizing Peripheral Nerve Blockade in a Homozygous Sickle Cell Disease Patient Undergoing Total Hip Arthroplasty

Francisco Perese¹, Jinlei Li², Lee Rubin², Daniel Carlyle¹

¹Yale New Haven Hospital, New Haven, Connecticut, ²Yale University School of Medicine, New Haven, Connecticut

MCC 90 (1068) Consider Cardiovascular Anomalies in Differential for an Abnormal Capnogram

Alex Knight, Alberto Bursian, Daniel Hernandez

University of Florida College of Medicine, Gainesville, Florida

MCC 91 (1087) Emergency Exploratory Laparotomy in a Patient with Known Active ST Elevation Myocardial Infarction

Alexander Maglunog, Anoosh Javaherian, Stephanie Biglarian, Sachin Jha

Keck School of Medicine of University of Southern California, Los Angeles, California

MCC 92 (1092) Erector Spinae Plane Block for Minimally Invasive Pectus Excavatum Repair: A Case Series

Eugene Chung^{1,2}, Caitlin D. Sutton¹, Craig Belon^{1,2}, Adam C. Adler², Nihar V. Patel¹

¹Baylor College of Medicine, Houston, Texas, ²Texas Children's Hospital, Houston, Texas

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Daily Poster Schedule-at-a-Glance

7:30 am – 9:00 am	Moderated Poster Discussion Session-09
9:45 am – 11:15 am	Moderated Poster Discussion Session-10
11:30 am – 1:00 pm	Moderated Poster Discussion Session-11
2:00 pm – 3:30 pm	Moderated Poster Discussion Session-12
4:00 pm – 5:30 pm	Moderated Poster Discussion Session-13

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-09

Group1: Bench Science

Moderator: Hiroyuki Kinoshita, MD, PhD, IMS Fujimi General Hospital; Tokushima University Graduate School, Tokushima, Japan

BS 1 (544) Evidence of a Discrete and Targetable Mitochondrial Defect in the Developing Fragile X Syndrome Brain

Richard J. Levy¹, Keren K. Griffiths¹, Aili Wang¹, Lifei Wang¹, Matthew Tracey¹, Catarin Quinzii¹, Elizabeth A. Jonas²

¹Columbia University, New York, New York, ²Yale School of Medicine, New Haven, Connecticut

BS 2 (784) Signaling in Vascular Endothelium by Varying Degrees of Mechanical Stretch

Yunbo Ke, Chenou Zhang, Yue Li, Trang Nguyen, Pratap Karki, Konstantin Birukov, Anna Birukova

University of Maryland School of Medicine, Baltimore, Maryland

BS 3 (943) Creating a Model of Anesthetic Sensitivity using Zebrafish

Victoria Bedell, Micheal A. Pack, Max B. Kelz, Roderic G. Eckenhof

Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

BS 4 (1251) Identification of Abundant and Evolutionarily Conserved Opioid Receptor Circular RNAs, and Their Modulation in the Mouse Nervous System by Chronic Morphine

Takeshi Irie, Rebecca Shum, Ioanna Deni, Roger Wilson, Gregory Fischer, Ying-Xian Pan, Gavril Pasternak

Memorial Sloan Kettering Cancer Center, New York, New York

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-09, continued

Group 1: Bench Science, continued

BS 5 (1295) Altered Fatty Acid Metabolism in Myocardium in a Swine Model of Metabolic Syndrome

Ruby Feng¹, Faraz Mahmood¹, **John D. Mitchell²**, Eitezaz Mahmood¹, Jeffrey Bortman¹, Valeria Hunter², Robina Matyal¹

¹Beth Israel Deaconess Medical Center, Boston, Massachusetts ²Harvard Medical School, Boston, Massachusetts

Group 2: Critical Care

Moderator: Hiroshi Morimatsu, MD, PhD,

Okayama University Hospital, Okayama, Japan, and **Samrat Worah, MD**, State University of New York Downstate Medical Center, Brooklyn, New York

CC 7 (564) Low Initial Tissue Oximetry Vascular Occlusion Test Reperfusion Slope is Associated with Mortality in Critically Ill Patients

John M. Murkin¹, Tina Mele², Satoru Fujii¹, Franklin Daukins-Arce², Mark Daley³, Angel Fangzhu³, Tracey Bentall²

¹University of Western Ontario, Canada, London, Ontario, Canada, ²University Hospital, London, Ontario, Canada

CC 8 (668) Risks Associated With β -Blocker Discontinuation After Cardiac Surgery

Emily Chanan, Mark E. Nunnally, Germaine Cuff, Samir Kendale, Aubrey Galloway

New York University Langone Health, New York, New York

CC 9 (965) Is all Chlorhexidine Bathing Equal? A Comparison of Skin Chlorhexidine Concentration and Bacterial Colonization after Different, Commonly Used, Methods of Chlorhexidine Bathing

Louisa Palmer¹, George Frendl^{1,2}

¹Brigham and Women's Hospital, Boston, Massachusetts,

²Harvard Medical School, Boston, Massachusetts

Monday, April 30 • Moderated Poster Discussion Sessions

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-09, continued

Group 2: Critical Care, continued

CC 10 (1206) Boarding of ICU Patients Does Not Impact Mortality in an Academic Health System

Robert F. Groff¹, Michael Stentz¹, Craig S. Jabaley², **James Blum²**, Milad Sharifpour²

¹Emory University School of Medicine, Atlanta, Georgia,

²Emory University Hospital, Atlanta, Georgia

CC 11 (1313) Hypothermic Machine Perfusion Utilization and Outcomes for Deceased-Donor Kidneys

Vijay Krishnamoorthy¹, Kevin O'Connor², Scott Wunsch², Michael Souter³

¹Duke University School of Medicine, Durham, North Carolina,

²Life Center Northwest, Bellevue, Washington,

³University of Washington, Seattle, Washington

GH 12 (1119) Pilot Study of Online Train the Trainer for Ebola

Catherine D. Tobin, John Schaefer, Kathy Lehman-Huskamp, Brandy Pockrus, Fletcher Brian, Dulaney A. Wilson, Lacey Menkin Smith, J.G. Reves

Medical University of South Carolina, Charleston, South Carolina

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-09, continued

Group 3: Medically Challenging Cases and Perioperative Anesthesia, continued

MCC 17 (1080) Management of Severe Fire-related Inhalation Injury with Venovenous Extracorporeal Membrane Oxygenation: A Case Report

Grant J. Heydinger, Aalok K. Kacha, Vijal Patel

The University of Chicago Medicine, Chicago, Illinois

MCC 18 (1220) Transesophageal Echocardiography in the Intraoperative Management of Renal Cell Carcinoma with Inferior Vena Cava Thrombus: A Case Report

Deric B. Diep, Malcolm Lucy, Ashraf Fayad

University of Ottawa, Ottawa, Ontario, Canada

PA 19 (555) Association of Preoperative Anticholinergic Medication Exposure with Postoperative Healthcare Resource Use and Outcomes: A Population-Based Cohort Study

Deric B. Diep¹, Coralie Wong², Carl van Walraven³, Daniel I. McIsaac³

¹University of Ottawa, Ottawa, Ontario, Canada, ²The Ottawa Hospital Research Institute, Ottawa, Ontario, Canada, ³University of Ottawa Faculty of Medicine, Ottawa, Ontario, Canada

MCC 20 (1203) Unilateral Horner Syndrome Following Lumbar Epidural Anesthesia in a Parturient

Jaspinder Sra

University of Vermont Medical Center, Burlington, Vermont

Group 3: Medically Challenging Cases and Perioperative Anesthesia

Moderator: Eiichi Inada, MD, Juntendo University School of Medicine, Tokyo, Japan

MCC 15 (825) Cesarean Section and Subsequent Ventriculostomy in a Parturient with Pre-Eclampsia and Obstructive Hydrocephalus – A True Anesthetic Challenge

Daniel Garcia, Liang Huang, Jeffrey Bernstein, David Adams, Sergey Pisklakov

Albert Einstein College of Medicine, Bronx, New York

MCC 16 (908) Perioperative Management of an Adult with Severe Aortic Coarctation Presenting for TEVAR

Katie Barnett, Nadine Odo, Vaibhav Bora

Augusta University, Augusta, Georgia

Group 4: Neuroscience in Anesthesiology and Perioperative Medicine

Moderator: Kristin Engelhard, MD, Johannes Gutenberg University Mainz, Mainz, Germany

NR 24 (589) Electroencephalographic Findings and Clinical Behavior during Induction of Anesthesia with Sevoflurane in Infants

Jerry Y. Chao, Shlomo Shinnar, Alan Legatt, Elissa Yozawitz, Ellise Delphin

Albert Einstein College of Medicine, Bronx, New York

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-09, continued

Group 4: Neuroscience in Anesthesiology and Perioperative Medicine, continued

NR 25 (834) 3D Imaging of Optically Cleared Brain Tissue in a Mouse Model of Perioperative Neurocognitive Disorders

Chao Xiong¹, Saraswathi Subramaniyan¹, Zhiquan Zhang¹, Anshi Wu³, **Niccolo Terrando**²

¹Duke University School of Medicine, Durham, North Carolina, ²Duke University Medical Center, Durham, North Carolina ³Beijing Chaoyang Hospital, Beijing, China

NR 26 (1190) Differential Methylation of Hippocampal DNA Three Weeks after Exposure to Surgery and Anesthesia in Aging Mice

Katie J. Schenning, Brett Davis, Lucia Carbone, Daniel Hong, Joseph Quinn, Nabil Alkayed

Oregon Health & Sciences University, Portland, Oregon

NR 27 (1269) Decreasing Frontal EEG Alpha Power over Three Surgeries within Seven Months: Accelerated Brain Aging through Progressive Frailty?

Heiko Kaiser, Darren F. Hight, Christian Rummel, Monika Stucki, Vladimir Krejci, Friedrich Lersch, Volker Hartwich

Inselspital, Bern, Switzerland

NR 28 (1380) Effect of Intraoperative Intravenous Lidocaine Administration on 6-month Neurological Outcome after Supratentorial Craniotomy for Tumour Resection under Total Intravenous Anesthesia

Laura Regina Rodríguez-Arias¹, Eduardo Hernández-Bernal², Carmen Ojeda-López³, Joaquín Salazar-Olguín¹

¹Civil Hospital of Guadalajara, Guadalajara, Mexico, ²National Institute of Neurology and Neurosurgery, Mexico City, Mexico, ³Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada

NR 29 (1389) The Association of Cooling during Cardiopulmonary Bypass with Indices of Cerebral Autoregulation

Brian P. Bush, Charles Brown

The Johns Hopkins University School of Medicine, Baltimore, Maryland

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-09, continued

Group 5: Pediatric Anesthesiology

Moderator: James DiNardo, MD, Boston Children's Hospital, Boston, Massachusetts

PED 33 (845) Comparison of Endotracheal Intubation vs. Natural Airway during Endoscopic Foreign Body Removal

Jacquelin Peck, Aditi Dey, Sorany Son, Sharon Ghazarian, Michael Wilsey, Mohamed Rehman

Johns Hopkins All Children's Hospital, St. Petersburg, Florida

PED 34 (847) Comparison of Endotracheal Intubation vs. Natural Airway during Initial Percutaneous Endoscopic Gastrostomy Insertion

Jacquelin Peck, Aditi Dey, Sorany Son, Ernest Amankwah, Anthony H. Nguyen, Michael Wilsey, Mohamed Rehman

Johns Hopkins All Children's Hospital, St. Petersburg, Florida

PED 35 (920) A Retrospective Cohort Study of Children with Spinal Muscular Atrophy Type 2 Receiving Anesthesia for Intrathecal Administration of Nusinersen

Alan R. Bielsky¹, Myron Yaster², Peter G. Fuhr¹, Julie A. Parsons¹

¹University of Colorado Denver School of Medicine, Aurora, Colorado, ²The Johns Hopkins University School of Medicine, Baltimore, Maryland

PED 36 (1223) Can Neuraxial Opioids Facilitate Fast-Tracking in Pediatric Cardiac Surgery? A Single-Center Audit in a Children's Hospital

Michael A. Evans, Ann Monahan, John Hajduk, John Wieser, Santhanam Suresh

Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, Illinois

PED 37 (1368) Estimated Blood Loss and Packed Blood Cell Administration during Different Surgical Phases in Pediatric Liver Transplants

Thomas M. Austin, Humphrey Lam, **Jatandra Morton-Howard**

Emory University School of Medicine, Atlanta, Georgia

Monday, April 30 • Moderated Poster Discussion Sessions

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-09, continued

Group 5: Pediatric Anesthesiology, continued

PED 38 (1376) The Effects of Dexmedetomidine on Blood Glucose and Serum Potassium Levels in Children Undergoing General Anesthesia: A Randomized Controlled Trial

Matthias Görges, Andrew Poznikoff, **Simon D. Whyte**

The University of British Columbia, Vancouver, British Columbia, Canada

7:30 am – 9:00 am

MODERATED POSTER DISCUSSION SESSION-09, continued

Group 6: Regional Anesthesia, continued

RA 45 (907) Early Experience with 2-Chloroprocaine for Spinal Anesthesia: A Retrospective Analysis at One Institution

David Kim, Richard Kahn, Andrew Lee, Sarah Ortolan, Jacques YaDeau, Phuong Dinh Mac, **Nicole Brunetti**

Hospital for Special Surgery, New York, New York

RA 47 (1009) Successful Management of 73 Patients for Total Knee Arthroplasty Using a Combination of Ultrasound-Guided Nerve Block and Targeted Sedation

Man-Ling Wang, Yu-Jiun Fan, Chia-Jung Tsai, Pei-Jiuan Yu, Ying-Lu Lee, Ching-Chuan Jiang, Ya-Jung Cheng

National Taiwan University Hospital, Taipei, Taiwan

9:45 am – 11:15 am

MODERATED POSTER DISCUSSION SESSION-10

Group 1: Economics, Education and Policy

Moderator: Brenda Fahy, MD, MCCM, University of Florida College of Medicine, Gainesville, Florida

EEP 1 (1049) Optimizing the Clinical Anesthesia Year 0 Experience: a Program Director Survey of the Clinical Base Year in Anesthesiology Residency Programs

Barbara S. Orlando¹, Bryan Mahoney¹, Agathe Streiff²

¹Mount Sinai West, New York, New York, ²Boston Children's Hospital, Boston, Massachusetts

EEP 2 (979) Anesthesiology Staff Burnout, Two-Year Study: Causes and Prevention

Ilya Grinberg¹, Melinda Aquino², David Adams¹, Sergey Pisklakov¹

¹Albert Einstein College of Medicine, Bronx, New York, ²Montefiore Medical Center, Bronx, New York

Group 6: Regional Anesthesia

Moderator: Samantha Yeap, MD, Indiana University, Indianapolis, Indiana

RA 42 (645) Suprascapular and Interscalene Nerve Block for Shoulder Surgery: A Systematic Review and Meta-analysis of Analgesic Efficacy and Safety

Ghazaleh Goldar¹, Nasir Hussain², Neli Ragina¹, Laura Banfield³, John Laffey⁴, Faraj Abdallah⁴

¹Central Michigan University, College of Medicine, Mt. Pleasant, Michigan, ²Ohio State University, Wexner Medical Center, Columbus, Ohio, ³McMaster University, Hamilton, Ontario, Canada, ⁴University of Toronto, Toronto, Ontario, Canada

RA 43 (688) Is Local Anesthetic-induced Myotoxicity a Real Complication of Regional Anesthesia? A Systematic Review of the Evidence and Empirical Analysis of the Implications

Ghazaleh Goldar¹, Nasir Hussain², Colin McCartney³, Joseph M. Neal⁴, Jessica Chippor¹, Laura Banfield¹, Faraj Abdallah¹

¹Central Michigan University, College of Medicine, Mt. Pleasant, Michigan, ²Ohio State University, Wexner Medical Center, Columbus, Ohio, ³University of Ottawa, Ottawa, Ontario, Canada, ⁴Virginia Mason Medical Center, Seattle, Washington

RA 44 (742) The Addition of ACB and IPACK to PAI Enhances Postoperative Pain Control in TKA: A Randomized Controlled Trial

David Kim, Jonathan Beathe, Yi Lin, Enrique Goytizolo, Christopher Garnett, Jacques T. YaDeau, Stavros G. Memtsoudis

Hospital for Special Surgery, New York, New York

Monday, April 30 • Moderated Poster Discussion Sessions

9:45 am – 11:15 am

MODERATED POSTER DISCUSSION SESSION-10, continued

**Group 1: Economics, Education and Policy,
continued**

EEP 3 (1316) A Quantitative Analysis of Learner-Initiated Versus Educator-Driven Feedback

Amy Robertson¹, Leslie Fowler¹, Amy Miller Juve²

¹Vanderbilt University Medical Center, Nashville, Tennessee, ²Oregon Health & Science University, Portland, Oregon

EEP 4 (1428) Conflict Management Styles in Anesthesiology Residents

Terrie Vasilopoulos, Chris Giordano, Jack Hagan, Brenda Fahy

University of Florida College of Medicine, Gainesville, Florida

EEP 5 (1152) Novel Recycling Practices in Anesthesiology

Laura Pasternack¹, Seema Ghandi²

¹Drexel College of Medicine, Philadelphia, Pennsylvania, ²University of California, San Francisco School of Medicine, San Francisco, California

LB EEP 6 (1499) Creation of Cognitive Aids for Malignant Hyperthermia Protocol Using Simulation

Angela M. Builes, Ramiro Arellano, Ray Zhou, Suzanne Flier

Western University, London, Ontario, Canada

Group 2: Blood Management and Technology, Computing and Simulation, Equipment Monitoring

Moderator: Tom Krejcie, MD, Northwestern University
Feinberg School of Medicine, Chicago, Illinois

TCSEM 7 (510) PVP Variability during Leg Raise Test to Predict Hypovolemia during Lower Body Negative Pressure

Jose G. Chavez Duarte, Nadeem Elbetbsi, Sophisa Sophonphattana, Khaled Jamoor, Aymen Alian, Kirk Shelley
Yale School of Medicine, New Haven, Connecticut

9:45 am – 11:15 am

MODERATED POSTER DISCUSSION SESSION-10, continued

**Group 2: Blood Management and Technology,
Computing and Simulation, Equipment Monitoring,
continued**

TCSEM 8 (743) Efficacy of Bispectral Index in Reducing Intraoperative Awareness: A Meta-analysis of Randomized Controlled Studies

Thomas Cheriyan, Kevin Bai, Anterpreet Dua, Vikas Kumar

Augusta University Medical Center, Augusta, Georgia

BLD 9 (1199) Efficacy of Intraoperative Cell Salvage in Spine Surgery: A Meta-analysis

Thomas Cheriyan¹, Thomas Errico², Anterpreet Dua¹, Vikas Kumar¹

¹Augusta University Medical Center, Augusta, Georgia,

²New York University, Hospital for Joint Diseases, New York, New York

TCSEM 10 (1013) Positive End-expiratory Pressure- Induced Change in External Jugular Venous Pressure Predicts Fluid Responsiveness in Laparoscopic Prostatectomy

Won Ho Kim, Jaeyeon Chung, Won Ho Kim, Min Hur, Sun-Kyung Park, Jae-Hyon Bahk

Seoul National University Hospital, Seoul, South Korea

TCSEM 11 (1065) A Novel Approach to Evaluating Simulation Scenarios

Myrtede Alfred, John Schaefer, Ken Catchpole, J.G. Reves

Medical University of South Carolina, Charleston, South Carolina

LB TCSEM 12 (1492) Blood Pressure Artifact Identification in Intraoperative Data from Anesthesia Information Management Systems

Samir Kendale, **Nathan Swallow**

New York University School of Medicine, New York, New York

Monday, April 30 • Moderated Poster Discussion Sessions

9:45 am – 11:15 am

MODERATED POSTER DISCUSSION SESSION-10, continued

Group 3: Medically Challenging Cases

Moderator: Michael O'Connor, MD, The University of Chicago Medicine, Chicago, Illinois

MCC 15 (615) Anesthetic Management of a Patient with Charcot-Marie-Tooth Disease and Previous History of Prolonged Diffuse Muscular Weakness Related to General Anesthesia

Maksim Ptushko, Faraz Chaudhry, Molly Amin

Rutgers New Jersey Medical School, Newark, New Jersey

MCC 16 (798) Case Report: Erector Spinae Plane Block as a Novel Approach to Acute Post-Op Pain Control Following Shoulder Arthroscopy and Repair

Urooj Siddiqui¹, Ki Jinn Chin², Mauricio Forero³

¹University of Saskatchewan, Saskatoon, Saskatchewan, Canada, ²University of Toronto, Toronto, Ontario, Canada, ³McMaster University, Hamilton, Ontario, Canada

MCC 17 (813) Death by ECT: An Unfortunate Case of Stress Cardiomyopathy

Israel Pena, Peter E. Amato

University of Virginia School of Medicine, Charlottesville, Virginia

MCC 18 (887) One Lung Anesthesia for Video-assisted Thoracoscopic Surgery (VATS) in a Patient with Heartmate-2 Left Ventricular Assist Device (LVAD)

Mitsuru Nakatsuka, **Jonathan Halem**

Virginia Commonwealth University Health System, Richmond, Virginia

MCC 19 (959) An Unusual Cause of Extrinsic Airway Compression: Tracheal "Mass" Found Incidentally during Awake Fiberoptic Intubation

Adam Setren¹, Tara Kennedy², Nicole L. Renaldi², Richard E. Sharpe³, Sameena S. Khan⁴

¹Thomas Jefferson University Hospital, Philadelphia, Pennsylvania, ²Sidney Kimmel Medical College, Philadelphia, Pennsylvania, ³Kaiser Permanente Colorado, Denver, Colorado, ⁴University College Dublin, Dublin, Ireland

9:45 am – 11:15 am

MODERATED POSTER DISCUSSION SESSION-10, continued

Group 4: Medically Challenging Cases

Moderator: Sheela Pai Cole, MD, Stanford University School of Medicine, Stanford, California

MCC 24 (581) Dural Venous Sinus Thrombosis as a Result of Inadvertent Dural Puncture

Sarah Rahman, Alisha Bhatia

Rush University Medical Center, Chicago, Illinois

MCC 25 (817) Familial Dysautonomia and Postural Orthostatic Tachycardia Syndrome – Uncommon Disease and Anesthetic Challenge

Daniel A. Gross, David Adams, Liang Huang, Sergey Pisklakov

Albert Einstein College of Medicine, Bronx, New York

MCC 26 (872) Epidural Hematoma in a Pediatric Patient – Perioperative Anesthesiologists Can Make all the Difference: A Case Report

Sergio B. Navarrete, Eric F. Worrall, Laura Lahaye, **Michael Scott**

Virginia Commonwealth University Health System, Richmond, Virginia

MCC 27 (891) Perioperative Management of a Jehovah's Witness Burn Patient with Alzheimer's Dementia: A Clinically and Ethically Challenging Case

Alexa K. Ron, Andrew Shaw

Vanderbilt University Medical Center, Nashville, Tennessee

MCC 28 (997) Succinylcholine-Induced Rhabdomyolysis in a Healthy Muscular Male

Ahmed F. Attaallah¹, Manuel C. Vallejo²

¹Florida Hospital, Tampa, Florida, ²West Virginia University School of Medicine, Morgantown, West Virginia

9:45 am – 11:15 am

MODERATED POSTER DISCUSSION SESSION-10, continued

Group 5: Neuroscience in Anesthesiology and Perioperative Medicine

Moderator: Makoto Ozaki, MD, PhD, Tokyo Women's Medical University, Tokyo, Japan

NR 33 (931) Behavioral Testing of Neural Inertia in Humans Using Xenon

Woo Yul Byun, Charles W. Carspecken, Alex Proekt, Andrew McKinstry-Wu, Max B. Kelz

Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

NR 34 (1281) Choice of Anesthesia Does Not Increase Seizure Risk from Motor Evoked Potential Stimulation

Mark A. Burbridge¹, Richard Jaffe², Viet Nguyen¹, Leslie Lee¹, Charles Cho¹, Jaime Lopez¹, Jung Gi Min¹

¹Stanford University School of Medicine, Stanford, California, ²Stanford Hospital, Stanford, California

NR 35 (1292) Atrial Fibrillation Patients Have Unique Regional Leukoaraiaosis and Cognitive Profiles Relative to Non-Atrial Fibrillation Peers

Margaret Wiggins, Jacob Jones, Jared Tanner, Ilona Schmalfuss, Seyed Hossein Aalaei-Andabili, Thomas Beaver, Catherine Price

University of Florida College of Medicine, Gainesville, Florida

NR 36 (1436) Resting-State Functional Connectivity as a Marker of Delirium in Postoperative Cardiac Patients

Emma R. Trammel, Jacob Bolzenius, James W. Spencer, Michael Avidan, Ben Palanca

Washington University School of Medicine in St. Louis, St. Louis, Missouri

NR 37 (1437) Brain Imaging Markers Linking Inflammation and Delirium Following Cardiac Surgery

Jacob Bolzenius, Qing Wang, Emma R. Trammel, Tammie Benzinger, Michael Avidan, Ben Palanca

Washington University School of Medicine in St. Louis, St. Louis, Missouri

LB NR 38 (1498) Imaging the Neural Mechanisms of Consciousness and Anesthesia

Levin Kuhlmann¹, Andria Pelentritou¹, Philippa Karoly², Dean Freestone², John Cormack³, Steven Mcguigan³, David T. Liley¹

¹Swinburne University of Technology, Melbourne, Australia,

²University of Melbourne, Melbourne, Australia, ³St.

Vincent's Hospital Melbourne, Melbourne, Australia

9:45 am – 11:15 am

MODERATED POSTER DISCUSSION SESSION-10, continued

Group 6: Perioperative Anesthesia

Moderator: Mark C. Phillips, MD, University of Alabama at Birmingham, Birmingham, Alabama

PA 42 (1062) Evaluation of Mobility Assessment Tools for Preoperative Assessment

Brendan M. Grant¹, Sara Nelson¹, Cody R. Sain¹, **Jesse Ehrenfeld²**, Jonathan Wanderer²

¹Vanderbilt University Medical Center, Nashville, Tennessee, ²Vanderbilt University School of Medicine, Nashville, Tennessee

PA 43 (1419) Can Attending Anesthesiologists Be Effectively Compared Using Patient Satisfaction Ratings?

Brendan M. Grant¹, Sara Nelson², **Jesse Ehrenfeld¹**, Jonathan Wanderer¹

¹Vanderbilt University Medical Center, Nashville, Tennessee, ²Vanderbilt University School of Medicine, Nashville, Tennessee

PA 44 (1160) Echocardiographic Assessment Using Subxiphoid-only View (EASy) Compared to Focused Transthoracic Echocardiography (FoTE): A Multicenter Prospective Study

Kevin Emr¹, Nibras Bughrara¹, Kevin Emr¹, Johnathan R. Renew², Jose Diaz-Gomez², Kirti Sahu¹, Kevin Roberts¹

¹Albany Medical Center, Albany, New York, ²Mayo Clinic Florida, Jacksonville, Florida

PA 45 (1229) Addition of Focused Transthoracic Echocardiography (FoTE) Learning into Existing Anesthesiology Residency Training Programs: A Prospective Multicenter Study of Blended Learning

Mercades Meuli¹, Nibras Bughrara¹, Mercades Meuli¹, Tanya Richvalsky¹, Mark Hamlin², Kirti Sahu¹, Kevin Roberts¹

¹Albany Medical Center, Albany, New York, ²University of Vermont Medical Center, Burlington, Vermont

PA 46 (1328) Association of Implementation of Preoperative Cardiac Guidelines and Postoperative Complications in Cadaveric Kidney Transplantation Patients: A Single Center Retrospective Study

Singh Nair¹, Marina Moguilevitch¹, Michael Rufino¹, Ariel Lewis²

¹Montefiore Medical Center, Bronx, New York, ²Albert Einstein College of Medicine, Bronx, New York

Monday, April 30 • Moderated Poster Discussion Sessions

9:45 am – 11:15 am

MODERATED POSTER DISCUSSION SESSION-10, continued

Group 6: Perioperative Anesthesia, continued

PA 47 (1364) Association of Diabetes Mellitus in Postoperative Complications after Hip Surgeries: A Single Center Retrospective Chart Review Study

Singh Nair¹, Kevin Min¹, David Adams², Celina Joco¹

¹Montefiore Medical Center, Bronx, New York, ²Albert Einstein College of Medicine, Bronx, New York

Group 7: Obstetric Anesthesiology

Moderator: Elizabeth Lange, MD, Northwestern University Feinberg School of Medicine, Chicago, Illinois

OB 51 (1230) National Trends in Post-Dural Puncture Headache and Epidural Blood Patch Placement Following Neuraxial Labor Analgesia/Anesthesia

Carlos Delgado, Laurent Bollag, William C. Van Cleve
University of Washington Medicine, Seattle, Washington

OB 52 (988) Efficacy of Patient Choice of Different Postoperative Analgesic Protocols after Cesarean Delivery: A Randomized Prospective Clinical Trial

John J. Kowalczyk¹, Caitlin D. Sutton², Pamela Flood³, Brendan Carvalho³

¹Beth Israel Deaconess Medical Center, Boston, Massachusetts, ²Baylor College of Medicine, Houston, Texas, ³Stanford University School of Medicine, Stanford, California

OB 53 (754) Effect of Intrathecal Bupivacaine Baricity on Parturient Undergoing Cesarean Section. A Randomized Study

Panop Limratana, Sirilak Suksompong, Taniga Kiatchai, Pavita Prapakon, Pawit Somnuke
Siriraj Hospital, Mahidol University, Bangkok Noi, Bangkok

OB 54 (1357) Post-Cesarean Delivery Pain Management in the Setting of Scheduled Multimodal Analgesia Strategies: Comparison of 0.2 mg versus 0.1 mg Intrathecal Morphine

Anne Wanaselja, Kathryn Bridges, Latha Hebbar
Medical University of South Carolina, Charleston, South Carolina

11:30 am – 1:00 pm

MODERATED POSTER DISCUSSION SESSION-11

Group 1: Airway Management

Moderator: Raquel Bartz, MD, MMCI, Duke University School of Medicine, Durham, North Carolina

AM 69 (848) Naso-Pharyngeal Ventilation as an Alternative to Mask Ventilation during Pre-Oxygenation

Jerrad Businger, Detlef Obal, Ozan Akca, Rainer Lenhardt
University of Louisville School of Medicine, Louisville, Kentucky

AM 70 (1196) A Preinduction Checklist for the Pediatric Difficult Airway

Julia Parzych, Annery Garcia-Marcinkiewicz, Harshad Gurnaney, John E. Fiadjoe
Children's Hospital of Philadelphia, Philadelphia, Pennsylvania

AM 71 (993) Prediction of Prognosis Following Perioperative Dental Injury – Comparison of Anesthesiologists and Dentists

Noboru Saeki, Yoshitaka Shimizu, Mitsuhiro Yoshida, Keita Yoshida, Nanako Moriwaki, Masashi Kawamoto, Masahiro Irifune
Hiroshima University Hospital, Hiroshima, Japan

AM 72 (875) Successful Airway Management of Patients with Morquio Syndrome: Are There Useful Predictors?

Kevin Turezyn, Mary C. Theroux, Lauren W. Averill, Sabina Dicindio, Michael B. Bober, Tetsu (Butch) Uejima, William G. Mackenzie
Nemours Alfred I. duPont Hospital for Children, Wilmington, Delaware

AM 73 (1257) Non-Invasive Ventilation in Perioperative Surgical Patients

Brooke LeBlanc, Phillip Boysen, Bobby Nossaman, Michael Townsend, Jacqueline Wilson
Ochsner Medical Center, New Orleans, Louisiana

LB AM 74 (1494) A Novel Modified Nasal PAP Mask Assembly Provided Pressure-Controlled Ventilation/Oxygenation in an Obese Patient with OSA and Difficult Airway while Teaching a Medical Student to Perform VL ETI

James Tse, Steve Kwon, Esther Ogunyemi, Adriana Essilfie, Sharon Morgan, Sylviana Barsoum
Rutgers Robert Wood Johnson Medical School, New Brunswick, New Jersey

Monday, April 30 • Moderated Poster Discussion Sessions

11:30 am – 1:00 pm

MODERATED POSTER DISCUSSION SESSION-11, continued

Group 2: Cardiovascular Anesthesiology

Moderator: Taylor Johnston, MD, Columbia University, New York, New York

CA 78 (1302) The Effects of an IV-Fluid Bolus on the Assessment of Diastolic Function

Neal Fleming, Sebastian Ayala, Robert Haughton, David Li, Orde Badakhsh, Richard L. Applegate

University of California, Davis School of Medicine, Sacramento, California

CA 79 (1271) Repetitive Surgical Procedures in Vascular Patients are Associated with Perioperative Cardiac Events

Henrike Janssen¹, Larissa Felgner¹, Laura Kummer¹, Hans-Joerg Gillmann², Claudia Schrimpf², Saad Rustum², Lichtinghagen Ralf², Omke Teebken³, Gregor Theilmeier⁴, Jan Larmann¹

¹University Hospital Heidelberg, Heidelberg, Germany, ²Hannover Medical School, Hannover, Germany, ³Peine Medical Center, Peine, Germany, ⁴University of Oldenburg, Oldenburg, Germany

CA 80 (1242) Impact of Methylprednisolone on the Incidence of Postoperative Complications in Cardiac Surgery Patients

Felix Balzer, Ralf F. Trauzeddel, Martin Ertmer, Torsten Geyer, Herko Grubitzsch, Sascha Treskatsch

Charite – Universitätsmedizin Berlin, Berlin, Germany

LB CA 81 (1470) Postoperative Delirium and Hepatic Venous Congestion: A Prospective Study

Aymen Benkreira¹, William Beaubien-Souligny², Andre Denault², Tanya Mailhot¹

¹Montreal Heart Institute, Montreal, Quebec, Canada,

²University of Montreal, Montreal, Quebec, Canada

11:30 am – 1:00 pm

MODERATED POSTER DISCUSSION SESSION-11, continued

Group 3: Critical Care

Moderator: Irina Gasanova, MD, University of Texas Southwestern Medical Center, Dallas, Texas

CC 87 (975) Dexmedetomidine versus Propofol in Traumatic Brain Injury: Evaluation of Hemodynamic and Intracranial Pressure Changes

Ahmed M. Thabet, Mahmoud A. Ali, Essam S. Sharkawy, Sherif S. Abdel-Rehim, Mohammed A. Khallaf, **Mostafa S. Abbas**

Faculty of Medicine, Anesthesia and ICU, Assiut, Egypt

CC 88 (744) Non-Inferiority of the Integrated Pulmonary Index (IPI) to Address Alarm Fatigue in Low-Acuity Inpatients

Jeremy P. Walco¹, Robert E. Freundlich¹, Dorothee Mueller², Adam Kingeter², Marcos G. Lopez¹, Liza M. Weavind¹

¹Vanderbilt University Medical Center, Nashville, Tennessee, ²Vanderbilt University School of Medicine, Nashville, Tennessee

CC 89 (871) Educational Tool to Improve Qualitative Assessment of Left Ventricular Systolic Function by Focused Cardiac Ultrasound

Daniel Walsh, Kadhiresan R. Murugappan, Achi Oren-Grinberg

Beth Israel Deaconess Medical Center, Boston, Massachusetts

CC 90 (1074) Predicting Volume Responsiveness by the End-Expiratory Occlusion Test during Phenylephrine Infusion in a Rabbit Model of Hemorrhage

Juan P. Bouchacourt, Juan C. Grignola

Hospital de Clínicas, Montevideo, Uruguay

Group 4: Economics, Education and Policy

Moderator: Edward Nemergut, MD, University of Virginia School of Medicine, Charlottesville, Virginia

EEP 96 (856) The Strategy to Improve Compliance with the Joint Commission Standards

Iana Bilga, Gennadiy Voronov, Ned Nasr, Afia Ohemeng
John H. Stroger Jr. Hospital of Cook County, Chicago, Illinois

Monday, April 30 • Moderated Poster Discussion Sessions

11:30 am – 1:00 pm

MODERATED POSTER DISCUSSION SESSION-11, continued

Group 4: Economics, Education and Policy, continued

EEP 97 (1390) Puzzle-Based Ultrasound Education for First-Year Medical Students

Lydia Chen¹, Mada Helou², Lauren M. Maloney³, Peggy Seidman⁴, Luna Chaaban⁴

¹Case Western Reserve University School of Medicine, Cleveland, Ohio, ²University Hospitals at Case Medical Center, Cleveland, Ohio, ³Stony Brook University, Stony Brook, New York, ⁴University Hospitals Cleveland Medical Center, Cleveland, Ohio

EEP 98 (1327) An Anesthetic Attempt to be "Green." How Do You Waste your CO2 Absorbers?

Pandora Chua¹, John Brock-Utne², Mark A. Burbridge¹, Ronald Pearl¹, Diane Alejandro-Harper¹, Erika Kimball¹, Chris Gilsenan¹, **Marshall Lawler**¹

¹Stanford University School of Medicine, Stanford, California, ²Stanford Hospital, Stanford, California

EEP 99 (1362) Pilot Survey of Female Anesthesiologists' Childbearing and Parental Leave Experiences

Amy C. Pearson¹, **Sarah E. Dodd**², Molly B. Kraus³, Kristin Ondecko-Ligda⁴, Linda B. Hertzberg⁵, Perene V. Patel³, Rekha K. Chandrabose⁶

¹University of Iowa, Iowa City, Iowa, ²Mayo Clinic Rochester, Rochester, Minnesota, ³Mayo Clinic Arizona, Scottsdale, Arizona, ⁴University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania, ⁵Stanford University School of Medicine, Stanford, California, ⁶University of California, San Diego School of Medicine, San Diego, California

EEP 100 (1073) Delay Associated with Day of Surgery Urine Pregnancy Testing

Katherine Evans, Elie Sarraf, Katherine Evans, S. Patrick Bender

University of Vermont Medical Center, Burlington, Vermont

LB EEP 101 (1526) Consumptions of Opioid Analgesics in China-Problems and Recommendations

Jing Sun

Chinese Academy of Medical Sciences & Peking Union Medical College, Beijing, China

11:30 am – 1:00 pm

MODERATED POSTER DISCUSSION SESSION-11, continued

Group 5: Medically Challenging Cases

Moderator: Jutta Novalija, MD, PhD, Medical College of Wisconsin, Milwaukee, Wisconsin

MCC 105 (554) Severe Refractory Hyperkalemia Secondary to Intestinal Ischemia in a Postsurgical Cardiac Transplant Patient

Carolyn Witman, Edward K. McGough

University of Florida College of Medicine, Gainesville, Florida

MCC 106 (1187) Intraoperative Pulmonary Thromboembolism Observed Shortly after Thrombin Procoagulant Irrigation during Uncomplicated Minimally Invasive Micro-discectomy

Ray Zhang, Matthew Pennington

University of Washington Medicine, Seattle, Washington

MCC 107 (535) Anesthetic Implications of an Ectopic Pancreas

Linh Nguyen, Catherine Vu, Piotr Kwater, Neil Bailard, Thomas McHugh, Elizabeth Rebello

University of Texas MD Anderson Cancer Center, Houston, Texas

MCC 108 (1207) Epidural Analgesia for Percutaneous Kyphoplasty in a Patient with Multiple Medical Comorbidities

Waseem Alfahel, Mark E. Thompson

University at Buffalo, Buffalo, New York

MCC 109 (1290) A Case Report of Perioperative Type-B Lactic Acidosis

Jerri Chen, Amy E. Mesa-Jonassen

Columbia University Medical Center, New York, New York

Group 6: Neuroscience in Anesthesiology and Perioperative Medicine

Moderator: John Sear, MD, University of Oxford, London, England

NR 114 (1373) A Lower Ratio of Alpha and Delta Frequency in the Electroencephalographic Activity during a Surgery under General Anesthesia is Associated with Low Preoperative Cognitive Performance in Older Patients

Rodrigo Gutiérrez, Fernando Reyes, Ivan Saez, Constanza Briceño, Jose Ignacio Egaña, Antonello Penna

University of Chile, Santiago, Chile

Monday, April 30 • Moderated Poster Discussion Sessions

11:30 am – 1:00 pm

MODERATED POSTER DISCUSSION SESSION-11, continued

Group 6: Neuroscience in Anesthesiology and Perioperative Medicine, continued

NR 115 (1078) Signaling Network between the Dysregulated Expression of miRNAs and mRNAs in Propofol-induced Developmental Neurotoxicity in Mice

Xiaowen Bai, Congshan Jiang, Sarah Logan, Yasheng Yan, Zeljko Bosnjak, Thiago Arzua

Medical College of Wisconsin, Milwaukee, Wisconsin

NR 116 (1095) Effects of Metabotropic Glutamate Receptor Blockers on Behavioral Outcome of Ketamine Induced Neonatal Brain Injury in a Rat Model

Tinatín Chabrashvili¹, Jesus Azocar¹, Roman Schumann¹, Ruben J. Azocar²

¹Tufts Medical Center, Boston, Massachusetts, ²Tufts University School of Medicine, Boston, Massachusetts

NR 117 (503) Ketamine Prevents Excessive GABAA Receptor Activity in Hippocampal Neurons after General Anesthesia

Agnes Crnic¹, Kirusanthi Kaneshwaran², Shahin Khodaei², Winston Li², Dian-Shi Wang², Beverley A. Orser²

¹University of Ottawa, Ottawa, Ontario, Canada, ²University of Toronto, Toronto, Ontario, Canada

NR 118 (1392) Ketamine Regulates Cell Cycle in Rat Fetal Neural Stem Progenitor Cells Mediated by the p27/cyclin E-CDK2 Pathway

Chaoxuan Dong, Mengmeng Huang, Jun Li, Qingquan Lian

The 2nd Affiliated Hospital and Yuying Children's Hospital of Wenzhou Medical University, Wenzhou, Zhejiang

LB NR 119 (1507) 24 Hour Post-treatment with the Noble Gas Argon Provides Robust Neuroprotection and Improvement in Neurologic Outcome after Focal Cerebral Ischemia in Rats

Shuang Ma, Dongmei Chu, Litao Li, Huaxin Sheng, David S. Warner, Ulrike Hoffmann

Duke University School of Medicine, Durham, North Carolina

11:30 am – 1:00 pm

MODERATED POSTER DISCUSSION SESSION-11, continued

Group 7: Pain Mechanisms and Pain Medicine

Moderator: Samantha Yeap, MD, Indiana University, Indianapolis, Indiana

PM 123 (546) Postoperative Intravenous Lidocaine Infusion for Treatment of Pain in Cardiac Surgery Patients

Karen Singh, Osman Alam, Kenneth Mullen, Sandeep Yerra, Marcel Durieux

University of Virginia School of Medicine, Charlottesville, Virginia

PME 124 (1170) Temporal Control of Microglial Reactivity Reveals Sex-independent Functional Contribution of Microglia to Long-lasting Pain

Yoshinori Takemura¹, Vivianne Tawfik², David Clark², Thomas Forman², Elena Haight²

¹University of Toyama, Toyama, Japan, ²Stanford University School of Medicine, Stanford, California

PM 125 (859) U.S. Pain Clinic Ethical and Legal Misadventures 2017

Michael L. Whitworth

Algos, Palm Harbor, Florida

PM 126 (1142) Evaluation of Sleep Health in Interventional Clinical Trials for Patients with Chronic Neuropathic Pain: A Systematic Review

Aidan Leonard McParland, Anuj Bhatia, Alexandra Davidson, Aditya Trivedi, **Mandeep Singh**

University of Toronto, Toronto, Ontario, Canada

PM 127 (1375) The Association between Postsurgical Complications and Persistent Postsurgical Pain

Mark Willingham¹, Goivind Rangrass², Caitlin Curcuro³, Sherry McKinnon¹, Alexander Kronzer¹, Michael Avidan¹, Simon Haroutounian¹

¹Washington University School of Medicine in St. Louis, St. Louis, Missouri, ²University of California, Los Angeles David Geffen School of Medicine, Los Angeles, California, ³University of Missouri, Kansas City, Kansas City, Missouri

Monday, April 30 • Moderated Poster Discussion Sessions

2:00 pm – 3:30 pm

MODERATED POSTER DISCUSSION SESSION-12

Group 1: Airway Management, Respiration, and Sleep Medicine

Moderator: Irina Gasanova, MD, University of Texas Southwestern Medical Center, Dallas, Texas

RES 2 (881) A Lung Protective Ventilation Strategy Is Not Associated with Reduced Risk of Post-Operative Respiratory Complications in Thoracic Surgical Patients: From the Multicenter Perioperative Outcomes Group

Douglas Colquhoun, Michael R. Mathis, Marcel Durieux, Bhiken Naik, Aleda Thompson, Sachin Kheterpal, Randal Blank

University of Michigan Medicine, Ann Arbor, Michigan

RES 3 (1213) Association between Intraoperative Fentanyl Dose and Postoperative Respiratory Complications: A Prespecified Analysis

Sabine Friedrich^{1,2}, Tharusan Thevathasan^{1,2}, Timothy Houle², Matthias Eikermann^{2,3}

¹Harvard Medical School, Boston, Massachusetts,

²Massachusetts General Hospital, Boston, Massachusetts,

³Beth Israel Deaconess Medical Center, Boston, Massachusetts

SM 4 (1448) STOPBANG Scoring Linked to Respiratory Monitoring: A Preliminary Review of 155,000 Patients

Kathryn K. Lauer¹, Laura Iding², Nicole Prospeck¹, Sheila Blogg¹

¹Medical College of Wisconsin, Milwaukee, Wisconsin,

²Froedtert Memorial Lutheran Hospital, Milwaukee, Wisconsin

Group 2: Cardiovascular Anesthesiology and Medically Challenging Cases

Moderator: Peter Von Homeyer, MD, FASE, University of Washington Medicine, Seattle, Washington

CA 7 (567) Ultrasound Guided Technique for Internal Jugular Central Venous Catheterization in Pediatric Cardiac Surgical Patients: A Prospective Observational Study

Aidan Leonard McParland, **Santosh S. Parajul**

Shahid Gangalaal National Heart Centre, Kathmandu, Nepal

2:00 pm – 3:30 pm

MODERATED POSTER DISCUSSION SESSION-12, continued

Group 2: Cardiovascular Anesthesiology and Medically Challenging Cases, continued

CA 8 (721) Cerebral and Renal Regional Oxygen Saturation as a Predictor for Acute Kidney Injury and Poor Outcomes in Pediatric Patients after Cardiac Surgery with Cardiopulmonary Bypass

Daiki Takekawa¹, Junichi Saito¹, Jun Kawaguchi¹, Satoko Noguchi¹, Takaharu Tokita², Eiji Hashiba¹, Kazuyoshi Hirota¹

¹Hirosaki University Hospital, Hirosaki, Japan, ²Aomori Prefectural Hospital, Hirosaki, Japan

CA 9 (947) Cerebral Oximetry and PaCO₂ Correlation in Cardiac Patients Study

Qi Ott, Derek Lodico, Senthil Packiasabapathy, Ariel Mueller, Balachundhar Subramaniam, Daniel S. Talmor

Beth Israel Deaconess Medical Center, Boston, Massachusetts

CA 10 (1162) Milrinone Attenuates the Cardiomyocyte Apoptosis Induced by Hypoxia

June Rim¹, Jose V. Montoya-Gacharna¹, Claire Ryu², Cyrus D. Mintz³

¹New York University Medical Center, New York, New York,

²Columbia University, New York, New York, ³Johns Hopkins School of Medicine, Baltimore, Maryland

MCC 11 (970) Profound Hypertension on Cardiopulmonary Bypass in a Neonate: A New Consideration for the Differential

Sarina Khan¹, Bishr Haydar²

¹University of Michigan Health System, Ann Arbor, Michigan, ²University of Michigan Medicine, Ann Arbor, Michigan

Group 3: Economics, Education and Policy

Moderator: Chanannait Paisansathan, MD, University of Illinois at Chicago, Chicago, Illinois

EEP 15 (482) The Impact of Email Communication on Anesthesia Providers' Volume of Pharmaceutical Administration When Notified of Pharmaceutical Cost Change

Merrick M. Meese, Cynthia Holcombe, Dale Parks, Joshua Hagood

The University of Alabama at Birmingham, Birmingham, Alabama

Monday, April 30 • Moderated Poster Discussion Sessions

2:00 pm – 3:30 pm

MODERATED POSTER DISCUSSION SESSION-12, continued

Group 3: Economics, Education and Policy, continued

EEP 16 (815) Assessment of the Preoperative Health Status Based on ASA PS Versus ABCK: A Descriptive Study

Medard B. Isokuma, Patricia Kabuni

University of Kinshasa, Kinshasa, The Democratic Republic of the Congo

EEP 17 (865) Applying Pareto Efficiencies to Different Anesthesia Environments

Tsai Mitchell¹, Timothy Wong², **Brandon King¹**, Max Breidenstein¹, Carlos E. Marroquin², Richard Urman³

¹University of Vermont Medical Center, Burlington, Vermont, ²University of Vermont Larner College of Medicine, Burlington, Vermont, ³Brigham and Women's Hospital; Harvard Medical School, Boston, Massachusetts

EEP 18 (1079) Differentiating Anesthesiologist Efficiency via Analysis of Non-Operative Time

Tessa E. Newman¹, Kasia Rubin², Peggy Seidman²

¹Case Western University Hospitals, Cleveland, Ohio,

²University Hospitals Cleveland Medical Center, Cleveland, Ohio

EEP 19 (1144) Effects on Operation Theatre Efficiency Consequent to Patient Transportation Delays – Causes and Remedial Measures

Rudrashish Haldar, Hemchandra Pandey

Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow, Uttar Pradesh

GH 20 (1123) Improving Patient Safety in Low-income Countries; the Role of the World Health Organisation Checklists

Isabella Epiu

University of California Global Health Institute, Nairobi, Kenya

2:00 pm – 3:30 pm

MODERATED POSTER DISCUSSION SESSION-12, continued

Group 4: Medically Challenging Cases

Moderators: Sherif Afifi, MD, Northwestern University Feinberg School of Medicine, Chicago, Illinois, and **Lauren Berkow, MD**, University of Florida College of Medicine, Gainesville, Florida

MCC 24 (811) Dexmedetomidine-induced Intraoperative Polyuria

Aliaksandr Daroshka, Lev Deriy, Niels N. Chapman

University of New Mexico, Albuquerque, New Mexico

MCC 25 (836) A Case of Difficult Fiberoptic Intubation in a Pediatric Patient with Occipito-Cervical Spine Fusion

Keren K. Griffiths, Andrew Greenwald, Neeta Saraiya

Columbia University Medical Center, New York, New York, New York

MCC 26 (1071) Unusual intra-operative Dual Capnography Waveform Pattern in a Patient with Critical Unilateral Pulmonary Artery Stenosis

Surendrasingh Chhabada

Cleveland Clinic Foundation, Cleveland, Ohio

MCC 27 (1183) Approach to Management of a Patient Presenting with an Aortobronchial Fistula: A Case Report

Michael Goettelman, Tichaendepi Mundangepfupfu, Keith Franklin

University of Rochester, Rochester, New York

MCC 28 (1411) Management of a Critical Increase in ICP during an Elective Craniotomy for Aneurysm Clipping: Acute and Occult Subdural Hematoma

Sarada Eleswarpu, Letitia J. Easdown

Vanderbilt University Medical Center, Nashville, Tennessee

Group 5: Medically Challenging Cases

Moderator: Kevin Thornton, MD, University of California, San Francisco School of Medicine, San Francisco, California

MCC 33 (614) Perioperative Medical Management of Hypertrophic Cardiomyopathy

Ankur Srivastava, Nathaniel J. Brown

Dartmouth Hitchcock Medical Center, Lebanon, New Hampshire

Monday, April 30 • Moderated Poster Discussion Sessions

2:00 pm – 3:30 pm
MODERATED POSTER DISCUSSION SESSION-12,
continued

Group 5: Medically Challenging Cases, continued _____

MCC 34 (636) Double Delivery: Anesthetic Management of Thoracopagus Conjoined Twins Using Spinal and Thoracic Epidural Anesthesia

Alexander Coons, Jeffrey D. White, Adam Wendling
University of Florida College of Medicine, Gainesville, Florida

MCC 35 (935) Wide-eyed at New Wide Complex Tachycardia: Fast Track from Elective Outpatient to Inpatient Telemetry Unit

Alexander Coons, Jeffrey D. White
University of Florida College of Medicine, Gainesville, Florida

MCC 36 (912) Hypertrophic Cardiomyopathy, Severe Pre-eclampsia, and Difficult Airway in the Parturient

Marjahna Segers, Joanna Schindler
Emory University School of Medicine, Atlanta, Georgia

MCC 37 (1366) Respiratory Rate-based Anesthetic Pain Control Provided Sufficient Analgesia on Lower Extremity Surgery under Peripheral Nerve Blocks: A Case Report

Suguru Yamamoto¹, Keisuke Nakazawa², Makoto Ozaki²
¹Tokyo Women's University Hospital, Tokyo, Japan, ²Tokyo Women's Medical University, Tokyo, Japan

Group 6: Neuroscience in Anesthesiology and Perioperative Medicine _____

Moderators: Shelly Au, PhD, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada, and **Aymen Benkreira, MD**, Montreal Heart Institute, Montreal, Quebec, Canada

NR 42 (1107) Epigenetic Mechanisms Mediate Multigenerational Effects of Early Life Exposure to Sevoflurane in Rats

Anatoly Martynyuk¹, Ling-Sha Ju¹, Jiao-jiao Yang¹, Timothy Morey¹, Nikolaus Gravenstein¹, Christoph Seubert¹, Jia-Qiang Zhang²

¹University of Florida College of Medicine, Gainesville, Florida, ²Zhengzhou University, Zhengzhou, China

2:00 pm – 3:30 pm
MODERATED POSTER DISCUSSION SESSION-12,
continued

Group 6: Neuroscience in Anesthesiology and Perioperative Medicine, continued _____

NR 43 (1138) Anesthetic Activation of GABAA Receptors in Astrocytes Causes Persistent GABAA Receptor Hyperactivity in Neurons in Mice

Arsène Pinguelo¹, Sean C Haffey¹, Irene Lecker¹, Yu-feng Xie¹, Dian-Shi Wang¹, Beverley A. Orser^{1,2}

¹University of Toronto, Toronto, Ontario, Canada,

²Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada

NR 44 (1147) The Volatile Anesthetic Sevoflurane Enhances GABAA Receptor-mediated Phasic and Tonic Inhibition of Mouse Thalamocortical Relay Neurons

Stefan Schwerin¹, Stephan A. Kratzer¹, Paul S. Garcia², Matthias Kreuzer², Gerhard Schneider¹, Rainer Haseneder¹

¹Klinikum Rechts der Isar Technical University Munich, Munich, Germany, ²Emory University School of Medicine, Atlanta, Georgia

NR 45 (1332) Prolonged Exposure to Sub-anesthetic Doses of Sevoflurane and Dexmedetomidine Induces Very Modest Brain Cell Apoptosis in Neonatal Rats

Jose F. Perez-Zoghbi¹, Wenbin Zhu², Marjorie Grafe², Ansgar Brambrink¹

¹New York-Presbyterian; Columbia University Medical Center, New York, New York, ²Oregon Health & Science University, Portland, Oregon

NR 46 (1414) Exposure to Ketamine Anesthesia Affects Rat Impulsive Behavior

Antonio Melo, Hugo Leite-Almeida, Nuno Sousa, José M. Pêgo

Life and Health Sciences Research Institute (ICVS), Braga, Portugal

LB NR 47 (1510) Recovery of the Posterior Dominant Rhythm in Young Healthy Volunteers Following Isoflurane General Anesthesia

James W. Spencer¹, Emma R. Trammel¹, Mathias Basner², Max B. Kelz², George Mashour³, Michael Avidan¹, Ben Palanca¹

¹Washington University School of Medicine in St. Louis, St. Louis, Missouri, ²Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, ³University of Michigan Medicine, Ann Arbor, Michigan

Monday, April 30 • Moderated Poster Discussion Sessions

2:00 pm – 3:30 pm

MODERATED POSTER DISCUSSION SESSION-12, continued

Group 7: Perioperative Anesthesia and Technology, Computing and Simulation, Equipment Monitoring

Moderator: Derek Sakata, MD, University of Utah Health Care, Salt Lake City, Utah

PA 51 (593) Intraoperative Albumin Use for Renal Transplant Recipients Offers No Clinical Advantage – Meta-analysis of Randomized Controlled Trials

Anuradha Borle, Preet Mohinder Singh

All India Institute of Medical Sciences, New Delhi, India

PA 52 (918) Gradual Withdrawal of Remifentanyl TCI Delays First Post-operative Analgesic Demand after Thyroid Surgery: A Double-blinded, Randomized Controlled Trial

Sarah Saxena¹, Kimberly Gonsette², Willy Terram³, Isabelle Huybrechts³, Matteo Cappello³, Luc Barvais³, Edgard Engelman³

¹Universite Libre de Bruxelles, Brussels, Belgium, ²Erasmehospital, Brussels, Belgium, ³Erasmehospital, Brussels, Belgium

TCSEM 53 (736) Monitoring of Pulse Pressure Variation using a New Smartphone Application: A Clinical Decision-making Study in Patients Undergoing Major Abdominal Surgery Using Invasively Assessed Stroke Volume as the Reference

Sarah Saxena¹, Alexandre Joosten¹, Bernd Saugel², Jean-Louis Vincent¹, Luc Van Obbergh¹, Joseph Rinehart³, Olivier Desebbe⁴

¹Universite Libre de Bruxelles, Brussels, Belgium,

²University Medical Center Hamburg-Eppendorf, Hamburg, Germany, ³University of California, Irvine, Irvine, California,

⁴Clinique de le Sauvegarde, Lyon, France

PA 54 (870) Intraoperative Lidocaine Infusion Reduces Postoperative Pain and Opioid Requirements in Total Pancreatectomy

Elird Bojaxhi, Ilana Logvinov, Karina Hex, Sorin Brull, Lisa Arasi, John Stauffer, Horacio Asbun

Mayo Clinic Florida, Jacksonville, Florida

PA 55 (1323) Challenges and Promise of a Preoperative Frailty – Cognitive Vital Sign Protocol

Shawna Amini, Sam J. Crowley, Franchesca Arias, Cynthia Garvan, Chris Giordano, Patrick J. Tighe, Catherine Price

University of Florida College of Medicine, Gainesville, Florida

2:00 pm – 3:30 pm

MODERATED POSTER DISCUSSION SESSION-12, continued

Group 7: Perioperative Anesthesia and Technology, Computing and Simulation, Equipment Monitoring, continued

PA 56 (1415) The Effect of Epidural Medication on Blood Loss during Radical Cystectomy

Brandon Alford¹, Karim Hussein¹, David Boulware², Jae Lee², Michael Poch², Sephalie Patel²

¹University of South Florida Morsani College of Medicine, Tampa, Florida, ²H. Lee Moffitt Cancer Center, Tampa, Florida

Group 8: Liver and Perioperative Anesthesia

Moderator: Kapil Gupta, MD, Toronto General Hospital, Toronto, Ontario, Canada

PA 60 (746) Sudden Cardiac Death Due to Arrhythmia is the Most Frequent Cause of Death in End Stage Renal Disease (ESRD) Undergoing Kidney Transplantation (No animals used)

Nirvik Pal, Le Kang, Pranav Shah, John F. Butterworth

Virginia Commonwealth University, Richmond, Virginia

L 61 (657) Terlipressin Infusion during Hepatobiliary Surgery Could Improve Systemic and Splanchnic Hemodynamics and Renal Function: A Double-blind Randomized Clinical Trial

Mostafa S. Abbas, Osama A. Ibraheim, Gehan A. Ahmed, Magdy Mahdy

University, Faculty of Medicine, Asyut Governorate, Egypt

PA 62 (808) Recent Hemodialysis Prior to Kidney Transplantation is not Associated with Improved Perioperative Survival (No animals used)

Nirvik Pal, Le Kang, Pranav Shah, John F. Butterworth

Virginia Commonwealth University, Richmond, Virginia

PA 63 (796) Epidural Analgesia in Whipple Patients

Derrick Wu, Samantha Yeap

Indiana University School of Medicine, Indianapolis, Indiana

Monday, April 30 • Moderated Poster Discussion Sessions

2:00 pm – 3:30 pm

MODERATED POSTER DISCUSSION SESSION-12, continued

Group 8: Liver and Perioperative Anesthesia, continued

PA 64 (1169) A Systematic Review and Meta-Analysis Examining the Impact of Sleep Disturbance on Post-Operative Delirium

Ayotunde B. Fadayomi¹, Reine Ibalá², Hao Deng², Michael B. Westover², Oluwaseun Johnson-Akeju^{2,3}

¹Brigham and Women's Hospital, Boston, Massachusetts,

²Massachusetts General Hospital, Boston, Massachusetts,

³Harvard Medical School, Boston, Massachusetts

4:00 pm – 5:30 pm

MODERATED POSTER DISCUSSION SESSION-13

Group 1: Anesthetic Pharmacology

Moderator: Hiroyuki Kinoshita, MD, PhD, Tokushima University Graduate School, Tokushima, Japan

AP 69 (514) Characteristics of Breakthrough Surgical Site Infections (SSIs) in Colorectal Surgery Following the Adherence to the Guideline for SSI

Takuya Nakayama, Yusuke Asakura, Midori Shiozaki

Nagoya Kyoritsu Hospital, Nagoya, Japan

AP 70 (873) Frequency of Anesthetic Overdose at High Altitude with MAC-Guided Anesthesia

Juan Giraldo, Claudia Acosta, Manuel Giraldo-Grueso

Fundación Cardioinfantil-Instituto de Cardiología, Bogota, Colombia

AP 71 (1226) An In Vitro Model for Studying the Cardiotoxicity of New Anesthetics

Edward J. Bertaccini, Alex C. Chang, Andrew C. Chang, Gerhard J. Weber, Luka Nicin, Frances Davies, Helen Blau

Stanford University School of Medicine, Stanford, California

AP 73 (1435) Modulation of Arterial Chemoreflex Control by Dopamine and Droperidol during Severe Arterial Hypoxia in the Rabbit

David Cottee, Anthony Quail, Janice Johnstone

University of Newcastle, Callaghan, New South Wales, Australia

4:00 pm – 5:30 pm

MODERATED POSTER DISCUSSION SESSION-13, continued

Group 2: Critical Care

Moderator: Detlef Obal, MD, PhD, DESA, University of Louisville, Louisville, Kentucky

CC 78 (714) The Modified Early Warning System in Unplanned SICU Admission: An Analysis in 263 Consecutive Patients

Annandita Kumar¹, Hussam Ghabra¹, Fiona Winterbottom¹, Michael Townsend², Phillip Boysen², Bobby Nossaman²

¹Ochsner Health Systems, New Orleans, Louisiana,

²Ochsner Clinic Foundation, New Orleans, Louisiana

CC 79 (722) Decrease in Histidine-Rich Glycoprotein as a Novel Prognostic Biomarker for Sepsis: Multicenter Prospective Observational Study

Kosuke Kuroda¹, Hiroshi Morimatsu¹, Naoya Kawanoue¹, Hidenori Wake¹, Shuji Mori², Masahiro Nishibori¹

¹Okayama University Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama, Japan,

²Shujitsu University, Okayama, Japan

CC 80 (819) The Relation between Electrical Activity of the Diaphragm Following Extubation and Mechanical Ventilation Time in Patients after Pediatric Cardiac Surgery

Naohiro Shioji, Tomoyuki Kanazawa, Yasutoshi Kuroe, Kazuyoshi Shimizu, Tatsuo Iwasaki, Hiroshi Morimatsu

Okayama University Hospital, Okayama, Japan

CC 81 (1406) Histidine-rich Glycoprotein as a Novel Biomarker for Sepsis: Subgroup Analysis of the Time-Dependent Change

Naoya Kawanoue¹, Hiroshi Morimatsu¹, Kosuke Kuroda¹, Hidenori Wake¹, Shuji Mori², Masahiro Nishibori¹

¹Okayama University Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama, Japan,

²Shujitsu University, Okayama, Japan

CC 82 (1394) Utility of DIBI, a Novel Iron Chelator, as Therapeutic Modality for Murine Peritonitis-induced Sepsis

Maral Aali¹, Taylor Thorburn¹, Juan Zhou¹, Kayle Dickson¹, Noura Motabbakani¹, Bruce Holbein², Christian Lehmann¹

¹Dalhousie University, Halifax, Nova Scotia, Canada,

²Chelation Partners, Halifax, Nova Scotia, Canada

Monday, April 30 • Moderated Poster Discussion Sessions

4:00 pm – 5:30 pm

MODERATED POSTER DISCUSSION SESSION-13, continued

Group 3: Medically Challenging Cases

Moderator: Michael Wall, MD, FCCM, University of Minnesota Medical School, Minneapolis, Minnesota

MCC 87 (833) Acute Allograft Rejection Following Orthotopic Heart Transplantation in a Patient with Peripartum Cardiomyopathy

Eric Pedone¹, Jayanta Mukherji²

¹Loyola University Health System, Chicago, Illinois, ²Loyola University Medical Center, Maywood, Illinois

MCC 88 (1011) Post-operative Myocardial Infarction

Amir Jafari, Lily Valad, Satoshi Yamamoto

University of Texas Medical Branch, Galveston, Texas

MCC 89 (1084) A Case of Bleeding while Clotting in a Neonate with Finnish-type Nephrotic Syndrome

Chang Amber Liu, Matthieu Newton

Massachusetts General Hospital, Boston, Massachusetts

MCC 90 (1202) Sticky Situation: A Case Report

Keleigh McLaughlin, Alison Brainard, Jillian Vitter

University of Colorado Denver School of Medicine, Aurora, Colorado

MCC 91 (1345) A Rare Case of Intracardiac 'Miscommunication:' Diagnosis and Perioperative Management of a Patient with Gerbode's Defect

Sonia John¹, Noah Roller¹, Stephanie Ibekwe¹, Brian P. Bush², Anne Marie Walters¹, Mary Beth Brady², Jake Abernathy¹

¹Johns Hopkins Hospital, Baltimore, Maryland, ²Johns Hopkins University School of Medicine, Baltimore, Maryland

4:00 pm – 5:30 pm

MODERATED POSTER DISCUSSION SESSION-13, continued

Group 4: Neuroscience in Anesthesiology and Perioperative Medicine, Pain Medicine, and Trauma

Moderator: Chanannait Paisansathan, MD, University of Illinois at Chicago, Chicago, Illinois

NR 96 (991) Neuroprotective Effects of Edaravone in a Rapid Stretch Injury Model of In Vitro Traumatic Brain Injury

Satoshi Yamamoto, Yaping Zeng, Bridget Hawkins, Douglas DeWitt, Donald Prough

University of Texas Medical Branch, Galveston, Texas

NR 97 (803) Preoperative Thromboelastographic Alterations in Patients with Central Nervous System Neoplasms

Guillermo Madrid, Enrique Arango, Cesar A. Ceballos, Juan I. Caicedo, Juan C. Díaz

Fundación Santa Fe de Bogotá, Bogotá, Colombia

PM 98 (802) Intravenous Lidocaine for Pain Control after Robotic Prostatectomy

Guillermo Madrid, Enrique Arango, Cesar A. Ceballos, Juan I. Caicedo, Juan C. Díaz

Fundación Santa Fe de Bogotá, Bogotá, Colombia

NR 99 (886) Pre-existing Inflammation Markedly Exacerbates Cognitive Dysfunction after Anesthesia in Mice

Shahin Khodaei, Yu-feng Xie, Dian-Shi Wang, Beverley A. Orser

University of Toronto, Toronto, Ontario, Canada

T 100 (1255) Inhibiting α 5GABAA Receptors Restores Synaptic Plasticity in the Hippocampus after Traumatic Brain Injury in Mice

Shahin Khodaei¹, Sinziana Avramescu², Irene Lecker¹, Paul Whissell¹, Dian-Shi Wang¹, Andrew J. Baker³, Beverley A. Orser¹

¹University of Toronto, Toronto, Ontario, Canada,

²Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada, ³St. Michael's Hospital, Toronto, Ontario, Canada

Monday, April 30 • Moderated Poster Discussion Sessions

4:00 pm – 5:30 pm

MODERATED POSTER DISCUSSION SESSION-13, continued

Group 5: Airway Management and Pediatric Anesthesiology

Moderator: Narasimhan Jagannathan, MD, Ann & Robert H. Lurie Children's Hospital of Chicago; Northwestern University Feinberg School of Medicine, Chicago, Illinois

PED 105 (750) Retrospective Review of Neonatal Abstinence Syndrome (NAS) Incidences and Drug Classes of Intrauterine Exposures in NICU Admission at Kentucky Children's Hospital: A Comparison between 2011 and 2016

Bradley Withers, Robert Weaver, Alison Robles, Arundathi Reddy, Amy DiLorenzo, Ranjan Ragulojan, Doug Dauer
University of Kentucky Healthcare, Lexington, Kentucky

PED 106 (852) A Retrospective Cohort Study of Predictors and Interventions that Influence Cooperation with Pediatric Anesthesia Mask Induction

Thomas Caruso, Chloe O'Connell, Ellen Wang, Sam Rodriguez, Curtis Darling, Joseph Caruso, Ban Tsui
Stanford University School of Medicine, Stanford, California

PED 107 (1231) The Incidence of Desaturation during Microlaryngoscopy and Bronchoscopy: A Quality Control Review

Thomas Caruso, Ban Tsui, Ellen Wang, Curtis Darling, Douglas Sidell
Stanford University School of Medicine, Stanford, California

PED 108 (902) Predicting Hypothermia in Pediatric Patients Undergoing MRI under General Anesthesia

Ashley Hamilton¹, Ashley LeFevre¹, Humphrey Lam², Thomas M. Austin²
¹Children's Healthcare of Atlanta, Atlanta, Georgia, ²Emory University School of Medicine, Atlanta, Georgia

PED 109 (1402) Identification and Description of the Cephalic Vein in Infants Using Ultrasound: A Pilot Study

Ashley Hamilton¹, Humphrey Lam², Thomas M. Austin², Soumya Nyshadham², John Edney²
¹Children's Healthcare of Atlanta, Atlanta, Georgia, ²Emory University School of Medicine, Atlanta, Georgia

4:00 pm – 5:30 pm

MODERATED POSTER DISCUSSION SESSION-13, continued

Group 6: Perioperative Anesthesia

Moderator: Michael Russell, MD, West Virginia University School of Medicine, Morgantown, West Virginia

PA 114 (541) The Effects of Intraoperative Hypothermia on Surgical Site Infections in Thoracic Surgical Patients

Minh H. Tran, Swapnil Khoche, Rodney A. Gabriel, Ulrich Schmidt, Albert P. Nguyen
University of California, San Diego School of Medicine, San Diego, California

PA 115 (641) The Added Value of Different Biomarkers to the Revised Cardiac Risk Index to Predict Major Cardiac Events and Overall Mortality after Noncardiac Surgery: A Systematic Review

Lisette Vernooij, Wilton van Klei, Karel Moons, Linda Peelen
University Medical Center Utrecht, Utrecht, The Netherlands

PA 116 (658) Perioperative Opioid Consumption and Hemodynamic Variability – Predictors of Postoperative Delirium in Orthopedic Patients

Nicoleta Stoicea¹, Ana C. Mavarez-Martinez¹, Saher-Zahra Khan², Marilly Palettas², Wiebke Ackermann¹, Barbara Rogers¹, Sergio Bergese¹
¹The Ohio State University Wexner Medical Center, Columbus, Ohio, ²The Ohio State University College of Medicine, Columbus, Ohio

PA 117 (738) Ultrasonic Evaluation of Gastric Volume after Fasting for 6 and 8 Hours in Diabetic and Non Diabetic Patients Scheduled for Elective Surgery

Anjan Trikha, Tarun Sahu, Vimi Rewari, Preet Mohinder Singh, Rashmi Ramachandran, Deep Narayan Srivastava, Madhusudhan KS
All India Institute of Medical Sciences, Delhi, India

PA 118 (759) Severe Tracheal Abnormality Complicating Anesthetic Management in Morquio Patients (MPS IVA) is a Common Finding

Mary C. Theroux¹, Sabina Dicindio¹, Lauren W. Averill¹, Christian Pizarro¹, Tetsu (Butch) Uejima², William G. Mackenzie¹, Shunji Tomatsu¹
¹A.I Dupont Hospital for Children, Wilmington, Delaware, ²Children's Health System, Wilmington, Delaware

Monday, April 30 • Moderated Poster Discussion Sessions

4:00 pm – 5:30 pm
**MODERATED POSTER DISCUSSION SESSION-13,
continued**

Group 6: Perioperative Anesthesia, continued

PA 119 (1337) Obstructive Sleep Apnea as an Independent Predictor of Postoperative Delirium and Pain: An Observational Study of a Surgical Cohort

Patricia Strutz, Amrita Aranake-Chrisinger, Mark Willingham, Vanessa L. Kronzer, Arbi Ben Abdallah, Simon Haroutounian, Michael Avidan

Washington University School of Medicine, in St. Louis, St. Louis, Missouri

Group 7: Obstetric Anesthesiology and Sleep Medicine

Moderator: Roman Schumann, MD, Tufts University School of Medicine, Boston, Massachusetts

SM 123 (794) Cost-utility Analysis of Pre-operative Screening Strategies for Obstructive Sleep Apnea (OSA) Among Patients Undergoing Major Elective Non-cardiac Surgery

Ashwin Sankar, Peter R. Dixon, Lavarnan Sivanathan, John De Almeida, Mandeep Singh

University of Toronto, Toronto, Ontario, Canada

SM 124 (982) Sleep Study Parameters for Predicting Perioperative Complications in Patients with Obstructive Sleep Apnea: A Review

Colin Suen, Lusine Abrahamyan, Jean Wong, Frances F. Chung

University of Toronto Faculty of Medicine, Toronto, Ontario, Canada

SM 125 (1298) Sleep Disturbance in Surgical Patients: Contributing Factors, Prevention and Management

Elena Sadeghian¹, Lusine Abrahamyan², Frances F. Chung³, Jean Wong³

¹Toronto Western Hospital, University Health Network, Toronto, Ontario, Canada, ²University of Toronto, Toronto General Hospital, University Health Network, Toronto, Ontario, Canada, ³University of Toronto Faculty of Medicine, Toronto Western Hospital, Toronto, Ontario, Canada

4:00 pm – 5:30 pm
**MODERATED POSTER DISCUSSION SESSION-13,
continued**

Group 7: Obstetric Anesthesiology and Sleep Medicine, continued

SM 126 (1265) Surface Ultrasound as a Screening Tool for Obstructive Sleep Apnea (OSA): A Systemic Review of Literature

Mandeep Singh¹, David Wong¹, Arvind Tuteja², Akash Goel¹, Aditya Trivedi³, Vincent Chan¹

¹University of Toronto, Toronto, Ontario, Canada,

²University Health Network, Toronto, Ontario, Canada,

³McMaster University, Hamilton, Ontario, Canada

OB 127 (1282) The Pattern and Distribution of Body Fluid during Pregnancy: A Systematic Review

Mandeep Singh¹, Julia Pasquale¹, Mrinalini Balki², Sally Hu¹

¹University of Toronto, Toronto, Ontario, Canada, ²Mount Sinai Hospital, Toronto, Ontario, Canada

Group 8: Economics, Education and Policy and Technology, Computing and Simulation, Equipment Monitoring

Moderator: Jesse Ehrenfeld, MD, MPH, Vanderbilt University School of Medicine, Nashville, Tennessee

TCSEM 132 (588) Sedation Using Immersive Virtual Reality during Urologic Surgery under Spinal Anesthesia: A Randomized Controlled Trial

Won Ho Kim, Sang-Hwan Ji, Jee Youn Moon, Jung-Yoon Choi

Seoul National University Hospital, Seoul, South Korea

TCSEM 133 (1097) Smart Trach-one – A Disposable Ready to Use SmartPhone Video Laryngoscope

Ashish K. Kannaujia, Kanti Singh

Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, Uttar Pradesh, India

TCSEM 134 (1118) Quantification of Flow-volume Loops Using a Non-invasive Respiratory Volume Monitor

Wael Saasouh¹, Brian Harvey²

¹Detroit Medical Center, Detroit, Michigan, ²Respiratory Motion, Inc., Waltham, Massachusetts

Monday, April 30 • Moderated Poster Discussion Sessions

4:00 pm – 5:30 pm

**MODERATED POSTER DISCUSSION SESSION-13,
continued**

**Group 8: Economics, Education and Policy
and Technology, Computing and Simulation, Equipment
Monitoring, continued**

**TCSEM 135 (1155) Comparative Investigation of
Acceleromyography-based IntelliVue NMT and
Electromyography-based TetraGraph Quantitative
Neuromuscular Monitors: A Pilot Study**

Johnathan R. Renew, Ilana Logvinov, Reka Nemes
Mayo Clinic Florida, Jacksonville, Florida

**EEP 136 (1372) An Analysis of the Utilization of
Anesthesia Quality Measures using the Anesthesia
Quality Institute's National Anesthesia Clinical Outcomes
Registry**

Matthew A. Zapf¹, Matthew D. McEvoy¹, Brendan M.
Grant², Jonathan Wanderer²

¹Vanderbilt University Medical Center, Nashville,
Tennessee, ²Vanderbilt University School of Medicine,
Nashville, Tennessee

**TCSEM 137 (1377) Patients Able to Complete an Online
Pre-operative Screening Tool are Younger, but Have
Similar Comorbid Status and Health Literacy**

Matthew A. Zapf¹, Matthew D. McEvoy¹, Miriam Brumley¹,
Julie Hamm¹, Jonathan Wanderer²

¹Vanderbilt University Medical Center, Nashville,
Tennessee, ²Vanderbilt University School of Medicine,
Nashville, Tennessee

OpenAnesthesia SelfStudyPlus Information Booth

The first adaptive learning app for anesthesiologists and residents, OpenAnesthesia SelfStudyPLUS personalizes learning using novel and patented algorithms that assess and adapt to individual needs. This easy to use app provides access to over 1,700 questions curated by teaching physicians at top hospitals, while fitting into the most demanding schedules. Physicians can use SelfStudyPLUS to conveniently earn CME. OpenAnesthesia is proudly sponsored by IARS.

Visit the booth in the Regency Foyer A, Ballroom Level, in the West Tower.

IARS 2018 Annual Meeting Abstract Presenters Index

Maral Aali, PhD (present), BSc, Dalhousie University, Halifax, Nova Scotia, Canada

MPDS-13 • CC 82 (1394)

Utility of DIBI, a Novel Iron Chelator, as Therapeutic Modality for Murine Peritonitis-Induced Sepsis

Mostafa S. Abbas, MD, Assiut University, Assiut, Egypt

MPDS-12 • L 61 (657)

Terlipressin Infusion during Hepatobiliary Surgery Could Improve Systemic and Splanchnic Hemodynamics and Renal Function: A Double-Blind Randomized Clinical Trial

MPDS-11 • CC 87 (975)

Dexmedetomidine versus Propofol in Traumatic Brain Injury: Evaluation of Hemodynamic and Intracranial Pressure Changes

Mahmoud Abdalla, MD, Qatar Heart Hospital, Doha, Qatar

MPDS-01 • CA 1 (484)

Timing of Recombinant Activated Factor Seven Administration in Severe Bleeding Cardiac Surgery Patients Does it Make Difference?

MPDS-01 • CA 2 (490)

Timing of Recombinant Activated Factor Seven Administration in Severe Bleeding Cardiac Surgery Patients Does it Make Difference?

Claude Abdallah, MD, MSc, Children's National Health System, Washington, DC

MPDS-07 • MCC 28 (1109)

Management of an Infant with Artemis Severe Combined Immunodeficiency

Faraj Abdallah, MD, MSc, University of Toronto Faculty of Medicine, Toronto, Ontario, Canada

MPDS-01 • TCSEM 69 (627)

Activity Tracker-Measured Ambulation is an Accurate and Reliable Determinant of Quality of Recovery after Regional Anesthesia Interventions: A Prospective Cohort Validation Study

Jonah Abraham, MD, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania

MPDS-05 • MCC 69 (507)

Central Cord Syndrome after Prolonged Fixation in Head Pins: A Case Report

Amir Abrishami, MD, FRCPC, McMaster University, Niagara Health, St. Catherine's, Hamilton, Ontario, Canada

MPDS-03 • PS 52 (1134)

Medication Errors in Patients under General Anesthesia: A Systematic Review

Ezeldeen Abuelkasem, MBBCh, MSc, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania

MPDS-05 • BLD 18 (1348)

Factor IX from Prothrombin Complex Concentrate Augments Low Tissue Factor-triggered Thrombin Generation – "An Exploratory In Vitro Study"

David Adams, MD, Albert Einstein College of Medicine, Bronx, New York

MPDS-05 • AMB 4 (1291)

Diagnosis of Diabetes Mellitus is a Predictor for Graft Failure: A Single Center Retrospective Study

Richa Aggarwal, MD, DNB, FNB, All India Institutes of Medical Sciences, New Delhi, India

MPDS-01 • CC 8 (723)

Does Real Time Ultrasonography during Bronchoscopy Guided Percutaneous Tracheostomy Confer Any Benefit: A Preliminary, Randomised Controlled Trial

Titilopemi Aina, MD, MPH, Texas Children's Hospital/Baylor College of Medicine, Houston, Texas

MPDS-07 • GH 7 (523)

Impact of the Implementation of a Pediatric Anesthesia Curriculum for Non-Physician Anesthesia Providers in Lilongwe, Malawi

Obinna V. Ajuzieogu, BMEDSc, MBBS, DA, FWACS, University of Nigeria, Enugu, Nigeria

MPDS-03 • PS 15 (1159)

Prevalence of Burnout among Anesthesia Trainees in South-East Nigeria

Koichi Akiyama, MD, PhD, Columbia University College of Physicians and Surgeons, New York, New York

MPDS-01 • CA 3 (531)

The Effect of Aortic Regurgitant Jet Directionality on Energy Loss

Waseem Alfahel, MD, University at Buffalo, Buffalo, New York

MPDS-11 • MCC 108 (1207)

Epidural Analgesia for Percutaneous Kyphoplasty in a Patient with Multiple Medical Comorbidities

Brandon Alford, BS, University of South Florida Morsani College of Medicine, Tampa, Florida

MPDS-12 • PA 56 (1415)

The Effect of Epidural Medication on Blood Loss during Radical Cystectomy

Myrtede Alfred, PhD, Medical University of South Carolina, Charleston, South Carolina

MPDS-10 • TCSEM 11 (1065)

A Novel Approach to Evaluating Simulation Scenarios

Syed Z. Ali, MD, University of Kentucky College of Medicine, Lexington, Kentucky

MPDS-04 • MCC 82 (1157)

Compartment Syndrome as a Complication of Invasive Blood Pressure Monitoring in Patients Receiving Catheter Directed Thrombolysis

Bret D. Alvis, MD, Vanderbilt University Medical Center, Nashville, Tennessee

MPDS-05 • CC 19 (884)

Noninvasive Venous Waveform Analysis (NIVA) Detects Blood Loss in Human Blood Donors and a Porcine Hemorrhage Model

Shawna Amini, BS, University of Florida College of Medicine, Gainesville, Florida

MPDS-12 • PA 55 (1323)

Challenges and Promise of a Preoperative Frailty - Cognitive Vital Sign Protocol

Adaobi Amucheazi, MBBS, FWACS, University of Nigeria, Enugu, Nigeria

MPDS-03 • CC 16 (1447)

Catheter-Associated Urinary Tract Infection in a Low Resource Intensive Care Unit

Thomas A. Anderson, PhD, MD, Stanford University School of Medicine, Stanford, California

MPDS-06 • PM 162 (1054)

Is High-Frequency Heart Rate Variability Index a Marker for the Balance between Analgesia and Nociception during Laparoscopic Cholecystectomy in Adults under General Anesthesia?

Jennifer Anderson, MD, JD, Duke University School of Medicine, Durham, North Carolina

MPDS-02 • LB PM 169 (1460)

Utilization, Storage, and Disposal of Prescription Opioids Following Urologic Surgery: A Case for Procedure-Specific Opioid Prescriptions and Patient Education

Kazuo Ando, MD, PhD, Stanford University School of Medicine, Stanford, California

MPDS-03 • OB 43 (764)

Assessment of Maternal Peripheral Immune System By Mass Cytometry to Predict the Onset of Labor

Francesca Arias, PhD, University of Florida College of Medicine, Gainesville, Florida

MPDS-07 • MCC 20 (1422)

Current Cognitive Impairment in a Patient with a History of Delirium: A Preoperative Dilemma

MPDS-07 • PA 19 (1416)

Quality Improvement Project: Does Pre-procedural General Cognition and Neurocognitive Diagnoses Affect Colonoscopy Preparation in Older Adults?

Miguel Á. Armengol de la Hoz, MD, Beth Israel Deaconess Medical Center; Harvard Medical School, Boston, Massachusetts

MPDS-01 • CA 4 (841)

Phenotyping Anesthesiology Providers for Hypotension Episodes during Coronary Artery Bypass Surgery

MPDS-01 • CA 5 (1192)

Intraoperative Blood Pressure Thresholds and Major Adverse Events Following Cardiac Surgery: An Exploratory Analysis

Yusuke Asakura, MD, MSc, PhD, Nagoya Kyoritsu Hospital, Nagoya, Japan

MPDS-03 • AM 3 (827)

Prevention of Tracheo-Esophageal Fistula Formation during Percutaneous Tracheostomy

IARS 2018 Annual Meeting Abstract Presenters Index, continued

Ahmed F. Attaallah, MD, PhD, Florida Hospital, Tampa, Florida

MPDS-10 • MCC 28 (997)

Succinylcholine-Induced Rhabdomyolysis in a Healthy Muscular Male

Shelly Au, PhD, PMP, CCRP, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada

MPDS-02 • EEP 97 (1116)

Increasing Anesthesia Research Productivity through a 5-year Strategic Planning Process

Christopher Awounou, BA, The University of Chicago Medicine, Chicago, Illinois

MPDS-07 • PS 33 (1007)

Predicting Bilingual Patients' Need for Language Translation during Emergence From Anesthesia

Nodreen C. Ayupo, MS, Makerere University, Cleveland, Ohio

MPDS-06 • PA 187 (869)

Effect of Dexamethasone on Postoperative Pain Scores in A Resource-Limited Setting: A Randomized Double Blind Placebo Controlled Clinical Trial

Josefine S. Baekgaard, MD, Rigshospitalet, Copenhagen, Denmark

MPDS-03 • T 64 (937)

Cervical Spine Clearance in Patients with Unreliable Clinical Exam: Delays and Complications

Xiaowen Bai, PhD, Medical College of Wisconsin, Milwaukee, Wisconsin

MPDS-11 • NR 115 (1078)

Signaling Network between the Dysregulated Expression of MicroRNAs and mRNAs in Propofol-Induced Developmental Neurotoxicity in Mice

Wesley B. Baker, PhD, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

MPDS-01 • CC 12 (1385)

Non-invasive Optical Cerebral Blood Flow and Oxygenation Monitoring in Critically Brain-injured Patients

MPDS-05 • NR 88 (695)

Non-invasive Optical Quantification of Absolute Cerebral Blood Flow in Adults: Validation against MRI

Pavel Baldyuev, MD, University of Florida College of Medicine, Gainesville, Florida

MPDS-02 • MCC 124 (637)

PICC Line Challenge

MPDS-02 • MCC 125 (1442)

When Metal is Not Real

Felix Balzer, MD, PhD, MSc, Charité – Universitätsmedizin Berlin, Berlin, Germany

MPDS-11 • CA 80 (1242)

Impact of Methylprednisolone on the Incidence of Postoperative Complications in Cardiac Surgery Patients

Richard J. Banchs, MD, University of Illinois Chicago, Chicago, Illinois

MPDS-06 • PA 186 (740)

The iShuddle: A Strategy to Decrease Turn-Over-Time by Improving Culture in the Operating Room

Matthew Banks, PhD, University of Wisconsin School of Medicine and Public Health, Madison, Wisconsin

MPDS-02 • NR 133 (957)

Auditory Novelty Detection in Awake and Anesthetized States: An Intracranial Electrophysiology Study

Heather Barkin, MD, University of Miami Miller School of Medicine, Miami, Florida

MPDS-08 • MCC 88 (985)

Should We Pre-emptively Treat Pericarditis Following Penetrating Chest Trauma?

Katie Barnett, MD, Augusta University, Augusta, Georgia

MPDS-09 • MCC 16 (908)

Perioperative Management of an Adult with Severe Aortic Coarctation Presenting for TEVAR

Burton Beakley, MD, Tulane Medical Center, New Orleans, Louisiana

MPDS-05 • PM 114 (486)

A Multimodal Approach to Pain Management for Patients with Chronic Back Pain: Outcome Measures at One Year

Victoria Bedell, MD, PhD, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

MPDS-09 • BS 3 (943)

Creating a Model of Anesthetic Sensitivity Using Zebrafish

Kumar Belani, MD, University of Minnesota, Minneapolis, Minnesota

MPDS-04 • CA 89 (987)

Pulmonary Thrombo-Endarterectomy (PTE) for Chronic Thromboembolic Pulmonary Hypertension (CTEPH): A Single Center 13-Year Report

Aymen Benkreira, MD, Montreal Heart Institute, Montreal, Quebec, Canada

MPDS-11 • LB CA 81 (1470)

Postoperative Delirium and Hepatic Venous Congestion: A Prospective Study

Richard J. Berens, MD, Medical College of Wisconsin, Milwaukee, Wisconsin

MPDS-07 • PED 43 (1056)

Relationship of Multiple Single Service Anesthesia Exposures and Rate of Quality Events

Edward J. Bertaccini, MD, Stanford University School of Medicine, Stanford, California

MPDS-13 • AP 71 (1226)

An In vitro Model for Studying the Cardiotoxicity of New Anesthetics

Alan R. Bielsky, MD, University of Colorado Denver School of Medicine, Aurora, Colorado

MPDS-09 • PED 35 (920)

A Retrospective Cohort Study of Children with Spinal Muscular Atrophy Type 2 Receiving Anesthesia for Intrathecal Administration of Nusinersen

Iana Bilga, MD, John H. Stroger Jr. Hospital of Cook County, Chicago, Illinois

MPDS-11 • EEP 96 (856)

The Strategy to Improve Compliance with the Joint Commission Standards

Beliz Bilgili, MD, Marmara University, School of Medicine, Istanbul, Turkey

MPDS-01 • CC 11 (941)

The Prognostic Value of Cardiac Power Output in Septic Patients

Gregory J. Blair, MD, Stanford University School of Medicine, Stanford, California

MPDS-01 • TCSEM 74 (1126)

Virtual Reality Use in Adult ICU to Mitigate Anxiety for a Patient on VV ECMO: A Feasibility Trial

James Blum, MD, Emory University School of Medicine, Atlanta, Georgia

MPDS-09 • CC 10 (1206)

Boarding of ICU Patients Does Not Impact Mortality in an Academic Health System

Brian Bobzien, MD, Emory University School of Medicine, Atlanta, Georgia

MPDS-05 • MCC 70 (832)

Cervical Myelopathy in a Patient Presenting with Low Back Pain

Elird Bojaxhi, MD, Mayo Clinic College of Medicine and Science, Jacksonville, Florida

MPDS-12 • PA 54 (870)

Intraoperative Lidocaine Infusion Reduces Postoperative Pain and Opioid Requirements in Total Pancreatectomy

Jacob Bolzenius, PhD, Washington University School of Medicine in St. Louis, St. Louis, Missouri

MPDS-10 • NR 37 (1437)

Brain Imaging Markers Linking Inflammation and Delirium Following Cardiac Surgery

Choon L. Bong, MBChB, FRCA, KK Women's and Children's Hospital Singapore, Singapore, Singapore

MPDS-08 • PED 72 (1098)

Follow-up on the EGAIN Study: A Prospective Cohort Study on Impact of Exposure to General Anaesthesia during Infancy on Neurocognitive Development

IARS 2018 Annual Meeting Abstract Presenters Index, continued

Anuradha Borle, MD, All India Institute of Medical Sciences, New Delhi, India

MPDS-12 • PA 51 (593)

Intraoperative Albumin Use for Renal Transplant Recipients Offers No Clinical Advantage: A Meta-Analysis of Randomized Controlled Trials

Juan P. Bouchacourt, PhD, Universidad de la República, Montevideo, Uruguay

MPDS-11 • CC 90 (1074)

Predicting Volume Responsiveness by the End-Expiratory Occlusion Test during Phenylephrine Infusion in a Rabbit Model of Hemorrhage

Meghan Brennan, MD, University of Florida College of Medicine, Gainesville, Florida

MPDS-01 • TCSEM 70 (1053)

Improving Preoperative Risk Assessment: A Pilot Study Comparing Physician Clinical Judgement with Computer Algorithms

MPDS-01 • TCSEM 71 (1331)

Inter-professional Simulation-based Education in Critical Care Medicine

Matthew G. Broyles, MD, University of Alabama at Birmingham, Birmingham, Alabama

MPDS-07 • MCC 25 (630)

Complications Following Lumbar Drain Placement for Thoracic/Thoracoabdominal Aortic Aneurysm Repair: Two Case Reports and Literature Review

Yvon Bryan, MD, Wake Forest University School of Medicine, Winston-Salem, North Carolina

MPDS-02 • EEP 91 (1403)

Airing the Dirty Laundry of Medical Practice on the Comedy Television Show *Scrubs*: Reality Television Discussing the Real Issues in Medicine

MPDS-02 • EEP 92 (1407)

The Depiction of Clinical Research Studies on *Grey's Anatomy*: Trailers with Few Clinical Trials but Many Errors

MPDS-06 • PS 171 (696)

Development and Initial Experience of an Anesthesiology Based Team Using Propofol for Gastrointestinal Endoscopies at a Rural Community Hospital: Airway Complications during Colonoscopies

MPDS-06 • PS 172 (1268)

Airway Complications Using Different Anesthetic Techniques in Patients undergoing Esophagogastroduodenoscopic Procedures in a Rural Community Hospital

Thaddeus Budelier, MD, Washington University School of Medicine in St. Louis, St. Louis, Missouri

MPDS-04 • PA 127 (1135)

Association between Patient Reported Postoperative Complications and Hospital Readmission

Angela M. Builes, MD, Western University, London, Ontario, Canada

MPDS-10 • LB EEP 6 (1499)

Creation of Cognitive Aids for Malignant Hyperthermia Protocol Using Simulation

Mark A. Burbridge, MD, Stanford University School of Medicine, Stanford, California

MPDS-10 • NR 34 (1281)

Choice of Anesthesia Does Not Increase Seizure Risk From Motor Evoked Potential Stimulation

Broc A. Burke, MD, PhD, Washington University School of Medicine in St. Louis, St. Louis, Missouri

MPDS-05 • LB NR 101 (1505)

Brain Functional Connectivity Changes in Acute Ischemic Stroke Measured with Bedside Diffuse Optical Tomography

Sarah Burke, MD, Emory University School of Medicine, Atlanta, Georgia

MPDS-04 • MCC 119 (552)

Perioperative Management of Orthotopic Liver Transplant for Intrahepatic Cholestasis in Sickle Cell Disease

David Busch, PhD, University of Texas Southwestern, Dallas, Texas

MPDS-05 • NR 136 (1393)

Optical Neuromonitoring Detects Brain Hypoxia

MPDS-05 • TCSEM 135 (1215)

Monitoring of Spinal Cord Blood Flow during Orthopedic Surgery in an Ovine Model

Brian P. Bush, MD, Johns Hopkins University School of Medicine, Baltimore, Maryland

MPDS-09 • NR 29 (1389)

The Association of Cooling during Cardiopulmonary Bypass with Indices of Cerebral Autoregulation

Jerrad R. Businger, DO, University of Louisville, Louisville, Kentucky

MPDS-11 • AM 69 (848)

Naso-Pharyngeal Ventilation as an Alternative to Mask Ventilation during Pre-Oxygenation

Woo Yul Byun, BSE, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

MPDS-10 • NR 33 (931)

Behavioral Testing of Neural Inertia in Humans Using Xenon

Amber N. Campbell, MD, University of Texas Houston; McGovern Medical School, Houston, Texas

MPDS-05 • PA 127 (1371)

Post-Operative Sepsis: What is the Current Picture?

Jacqueline Carrico, BS, University of Colorado Denver School of Medicine, Aurora, Colorado

MPDS-06 • PM 161 (769)

Primary Care Provider Attitudes Toward Opioid Prescribing and Patient Satisfaction-Based Incentives

Charles W. Carspecken, MD, MSc, MBA, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

MPDS-05 • NR 89 (940)

Preliminary Evidence of Neural Inertia in Human Subjects undergoing Xenon Anesthesia

Thomas Caruso, MD, Med, Stanford University School of Medicine, Stanford, California

MPDS-13 • PED 106 (852)

A Retrospective Cohort Study of Predictors and Interventions that Influence Cooperation with Pediatric Anesthesia Mask Induction

MPDS-13 • PED 107 (1231)

The Incidence of Desaturation during Microlaryngoscopy and Bronchoscopy: A Quality Control Review

Young M. Cha, MD, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

MPDS-01 • PED 62 (945)

Pediatric Difficult Airway Diagnoses Mapping to SNOMED CT Terminology

Tinatin Chabrashvili, MD, PhD, Tufts Medical Center, Boston, Massachusetts

MPDS-11 • NR 116 (1095)

Effects of Metabotropic Glutamate Receptor Blockers on Behavioral Outcome of Ketamine Induced Neonatal Brain Injury in a Rat Model

Emily Chanan, MD, New York University Langone Health, New York, New York

MPDS-09 • CC 8 (668)

Risks Associated with β -Blocker Discontinuation after Cardiac Surgery

Hae Wone Chang, MD, Korea University Guro Hospital, Seoul, South Korea

MPDS-05 • AP 12 (1429)

Coagulation Effect of Sugammadex Using Thromboelastography in a Randomized Controlled Study of Surgical Patients

Jerry Y. Chao, MD, MSc, Montefiore Medical Center; Albert Einstein College of Medicine, Bronx, New York

MPDS-09 • NR 24 (589)

Electroencephalographic Findings and Clinical Behavior during Induction of Anesthesia with Sevoflurane in Infants

Luis E. Chaparro, MD, University of Toronto, Toronto, Ontario, Canada

MPDS-05 • TCSEM 134 (795)

Diagnostic Accuracy of Point-of-Care Gastric Ultrasound: A Bayesian Analysis

Yen K. Chau, MD, University of Alabama at Birmingham, Birmingham, Alabama

MPDS-01 • MCC 25 (855)

Penetrating Atherosclerotic Ulcer of the Ascending Aorta: A Case Report

IARS 2018 Annual Meeting Abstract Presenters Index, continued

Jose G. Chavez Duarte, MD, Yale School of Medicine, New Haven, Connecticut

MPDS-10 • TCSEM 7 (510)

PVP Variability during Leg Raise Test to Predict Hypovolemia during Lower Body Negative Pressure

Lu Che, MD, Peking Union Medical College Hospital, Beijing, China

MPDS-03 • AM 4 (1004)

A Pilot Study of Radiological Variables to Predict Fiberoptic Intubation in Ankylosing Spondylitis with Cervical Spine Involvement

Erdong Chen, MD, Dartmouth-Hitchcock Medical Center, West Lebanon, New Hampshire

MPDS-07 • PED 55 (779)

Differences in Anesthetic Management and Postoperative Narcotic Consumption after a Novel, Fusion-less Adolescent Scoliosis Surgery Compared to Traditional Posterior Spinal Fusion

Jerri Chen, MD, PhD, Columbia University Medical Center, New York, New York

MPDS-11 • MCC 109 (1290)

A Case Report of Perioperative Type B Lactic Acidosis

Lydia Chen, BA, Case Western Reserve University School of Medicine, Cleveland, Ohio

MPDS-11 • EEP 97 (1390)

Puzzle-Based Ultrasound Education for First-Year Medical Students

Yee Ching Vanessa Cheong, MPharm, Duke University School of Medicine, Durham, North Carolina

MPDS-05 • NR 91 (1057)

Perioperative Trajectory of Alzheimer's Disease Biomarkers in Surgical Patients and Matched Non-surgical Controls

Thomas Cheriyan, MD, Augusta University Medical Center, Augusta, Georgia

MPDS-10 • BLD 9 (1199)

Efficacy of Intraoperative Cell Salvage in Spine Surgery: A Meta-analysis

MPDS-10 • TCSEM 8 (743)

Efficacy of Bispectral Index in Reducing Intraoperative Awareness: A Meta-analysis of Randomized Controlled Studies

Surendrasingh Chhabada, MD, Cleveland Clinic Foundation, Cleveland, Ohio

MPDS-12 • MCC 26 (1071)

Unusual Intra-Operative Dual Capnography Waveform Pattern in a Patient with Critical Unilateral Pulmonary Artery Stenosis

Adaora Chima, MBBS, MPH, University of Rochester Medical Center, Rochester, New York

MPDS-05 • MCC 82 (1030)

Intraoperative Cardiopulmonary Arrest in a 15-year-old undergoing Correction of Kyphoscoliosis

Rasmus E. Christensen, BA, Rigshospitalet, Copenhagen, Denmark

MPDS-06 • PA 189 (1015)

A Nationwide Study of Dental Injuries in Relation to General Anesthesia

Eugene Chung, DO, Baylor College of Medicine; Texas Children's Hospital, Houston, Texas

MPDS-08 • MCC 92 (1092)

Erector Spinae Plane Block for Minimally Invasive Pectus Excavatum Repair: A Case Series

Benjamin T. Cobb, MD, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

MPDS-03 • OB 44 (1296)

Do Obstetric Anesthesiologists Provide More Guideline-concordant Care for Patients undergoing Cesarean Delivery?

Douglas Colquhoun, MBChB, MSc, MPH, University of Michigan Medicine, Ann Arbor, Michigan

MPDS-12 • RES 2 (881)

A Lung Protective Ventilation Strategy is Not Associated with Reduced Risk of Post-Operative Respiratory Complications in Thoracic Surgical Patients: From the Multicenter Perioperative Outcomes Group

Alexander Coons, MD, University of Florida College of Medicine, Gainesville, Florida

MPDS-12 • MCC 34 (636)

Double Delivery: Anesthetic Management of Thoracopagus Conjoined Twins Using Spinal and Thoracic Epidural Anesthesia

MPDS-12 • MCC 35 (935)

Wide-Eyed at New Wide Complex Tachycardia: Fast Track from Elective Outpatient to Inpatient Telemetry Unit

David Cottey, MBBS, PhD, University of Newcastle, Callaghan, New South Wales, Australia

MPDS-13 • AP 73 (1435)

Modulation of Arterial Chemoreflex Control by Dopamine and Droperidol during Severe Arterial Hypoxia in the Rabbit

Agnes Crnic, HBSc, MSc, University of Ottawa, Ottawa, Ontario, Canada

MPDS-11 • NR 117 (503)

Ketamine Prevents Excessive GABAA Receptor Activity in Hippocampal Neurons after General Anesthesia

Sam J. Crowley, MS, University of Florida College of Medicine, Gainesville, Florida

MPDS-02 • PME 143 (1051)

Individuals with Parkinson's Disease Who Have Primary Executive Impairment Experience Greater Pain Interference

Jovany Cruz Navarro, MD, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

MPDS-03 • NR 38 (1438)

Real-Time Treatment of Cerebral Glycopenia after Brain Injury Using Cerebral Microdialysis

Victoria Cui, BA, Washington University School of Medicine in St. Louis, St. Louis, Missouri

MPDS-04 • PA 126 (996)

Observational Study of Delirium in the Post-Anesthesia Care Unit (PACU) as a Predictor of Subsequent Postoperative Delirium

Aliaksandr Daroshka, MD, University of New Mexico, Albuquerque, New Mexico

MPDS-12 • MCC 24 (811)

Dexmedetomidine-induced Intraoperative Polyuria

Johanna B. De Haan, MD, University of Texas Health McGovern Medical School, Houston, Texas

MPDS-04 • PA 123 (752)

Evaluation of Initial Aprepitant Use as a Rescue Anti-Emetic in PACU

Carlos Delgado, MD, University of Washington Medicine, Seattle, Washington

MPDS-10 • OB 51 (1230)

National Trends In Post-Dural Puncture Headache and Epidural Blood Patch Placement Following Neuraxial Labor Analgesia/Anesthesia

Chris Denny, MD, University of Kentucky College of Medicine, Lexington, Kentucky

MPDS-04 • CA 87 (924)

Fatigue and Dyspnea on Exertion in a Patient with Previous Aortic Valve Surgery

Rooma Desai, PhD, Massachusetts General Hospital, Boston, Massachusetts

MPDS-04 • LB AP 74 (1508)

Subunit Specificity of Enhancing Actions of the Novel Barbiturate R-mTFD-MPAB, and Etomidate on the Synaptic $\alpha 1\beta 3\gamma 2L$ GABAA Receptors

Michael Devinney, MD, PhD, Duke University Medical Center, Durham, North Carolina

MPDS-02 • SM 150 (1219)

Is Obstructive Sleep Apnea Associated with Postoperative Delirium and Cognitive Decline?

Christopher Devlin, MD, Zucker School of Medicine at Hofstra Northwell, East Garden City, New York

MPDS-04 • PA 125 (849)

Retrospective Cohort Analysis of an Enhanced Recovery Protocol for Colorectal Surgery Patients at North Shore University Hospital

IARS 2018 Annual Meeting Abstract Presenters Index, continued

Deric Diep, MD, University of Ottawa, Ottawa, Ontario, Canada

MPDS-01 • MCC 46 (999)

The Anesthetic Management of an Adolescent with Autism Spectrum Disorder and Super-Super Obesity: A Case Report

MPDS-01 • MCC 47 (1217)

Anesthetic Challenges of Emergency Gynecological Surgery in a Jehovah's Witness with Fontan Circulation: A Case Report

MPDS-09 • MCC 18 (1220)

Transesophageal Echocardiography in the Intraoperative Management of Renal Cell Carcinoma with Inferior Vena Cava Thrombus: A Case Report

MPDS-09 • PA 19 (555)

Association of Preoperative Anticholinergic Medication Exposure with Postoperative Healthcare Resource Use and Outcomes: A Population-Based Cohort Study

Catherine Dion, BA, University of Florida College of Medicine, Gainesville, Florida

MPDS-05 • NR 92 (1413)

Cognitive Associates of the Digital Clock Drawing Test in Older Adults: Total Clock Time and Pre-First Hand Latency

Konstantin Dirscherl, MD, University Hospital Zurich, Zurich, Switzerland

MPDS-01 • L 17 (1149)

The Prolyl Hydroxylase Inhibitor DMOG Inhibits Hepatocyte Proliferation, but Induces Growth of Non-parenchymal Cells in a Rat Model In Vivo and In Vitro

Sarah E. Dodd, MD, Mayo Clinic Rochester, Rochester, Minnesota

MPDS-11 • EEP 99 (1362)

Pilot Survey of Female Anesthesiologists' Childbearing and Parental Leave Experiences

Todd A. Dodick, MD, MPH, Columbia New York Presbyterian, New York, New York

MPDS-04 • MCC 114 (1254)

New Left Ventricular Failure Following Double Lung Transplantation in a Patient with Severe Pulmonary Hypertension

Luke Doney, DO, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania

MPDS-05 • CA 24 (1082)

Gender Differences in Perioperative Hormonal and Inflammatory Stress Response during Cardiac Surgery: An Exploratory Data Analysis

Chaoxuan Dong, MD, PhD, The 2nd Affiliated Hospital and Yuying Children's Hospital of Wenzhou Medical University, Wenzhou, China

MPDS-11 • NR 118 (1392)

Ketamine Regulates Cell Cycle in Rat Fetal Neural Stem Progenitor Cells Mediated by the p27/cyclin E-CDK2 Pathway

Tomas Drabek, MD, PhD, University of Pittsburgh, Pittsburgh, Pennsylvania

MPDS-05 • CA 27 (1241)

Exploratory Approach to Targeting Plasma Cytokines in Experimental Deep Hypothermic Circulatory Arrest in Rats Using Hemoadsorption

MPDS-05 • T 28 (1240)

Hemoadsorption Alters Heart and Lung Cytokine Profiles after Cardiac Arrest in Rats

Lauren K. Dunn, MD, PhD, University of Virginia School of Medicine, Charlottesville, Virginia

MPDS-05 • EEP 52 (747)

Effect of Night Float on Anesthesiology Resident Sleep Patterns: An Observational Study

Martin Dworschak, MD, MBA, Medical University of Vienna, Vienna, Austria

MPDS-01 • CC 7 (716)

Non-Convulsive Status Epilepticus after Coronary Artery Bypass Graft Surgery with and without Concomitant Valve Replacement on Cardiopulmonary Bypass

Brian Egan, MD, Columbia University Medical Center, New York, New York

MPDS-02 • EEP 96 (899)

Effectiveness of a Flipped Classroom Model Compared to a Traditional Format in Anesthesiology Education

Jesse Ehrenfeld, MD, MPH, Vanderbilt University School of Medicine, Nashville, Tennessee

MPDS-10 • PA 42 (1062)

Evaluation of Mobility Assessment Tools for Preoperative Assessment

MPDS-10 • PA 43 (1419)

Can Attending Anesthesiologists Be Effectively Compared Using Patient Satisfaction Ratings?

Lisa Eisler, MD, Columbia University Medical Center, New York, New York

MPDS-01 • PED 180 (1124)

Unplanned Postoperative Intubation in Infant and Neonatal Surgical Patients: Predictors and Associated Mortality

Sarada Eleswarpu, MD, Vanderbilt University Medical Center, Nashville, Tennessee

MPDS-12 • MCC 28 (1411)

Management of a Critical Increase in ICP during an Elective Craniotomy for Aneurysm Clipping: Acute and Occult Subdural Hematoma

Ahmad Elsharydah, MD, University of Texas Southwestern Medical Center, Dallas, Texas

MPDS-05 • AMB 3 (1195)

Readmission Rate after Two-Level Lumbar Laminectomy: A Propensity-Matched Cohort Study Comparing Inpatient and Outpatient Settings

Kevin Emr, MD, Albany Medical Center, Albany, New York

MPDS-06 • PA 190 (1408)

Echocardiographic Assessment Using Subxiphoid-Only View (EASy) Compared to Focused Transthoracic Echocardiography (FoTE) in the Perioperative Period: A Multicenter Prospective Study

Isabella Epiu, MBChB, Mmed, University of California Global Health Institute, Nairobi, Kenya

MPDS-12 • GH 20 (1123)

Improving Patient Safety in Low-Income Countries: The Role of the World Health Organisation Checklists

Michael A. Evans, MD, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, Illinois

MPDS-09 • PED 36 (1223)

Can Neuraxial Opioids Facilitate Fast-Tracking In Pediatric Cardiac Surgery? A Single-Center Audit in a Children's Hospital

Katherine Evans, MD, University of Vermont Medical Center, Burlington, Vermont

MPDS-11 • EEP 100 (1073)

Delay Associated with Day of Surgery Urine Pregnancy Testing

Ayotunde B. Fadayomi, MBBS, MPH, Brigham and Women's Hospital, Boston, Massachusetts

MPDS-12 • PA 64 (1169)

A Systematic Review and Meta-Analysis Examining the Impact of Sleep Disturbance on Post-Operative Delirium

Hina Faisal, MD, McGovern Medical School at University of Texas Houston Science Center, Houston, Texas

MPDS-01 • CC 83 (620)

Severe Myxedema Coma – A Diagnostic Dilemma and Management Challenges

Shenghao Fang, MSc, University of Virginia School of Medicine, Charlottesville, Virginia

MPDS-04 • BLD 81 (1120)

Postoperative Tranexamic Acid Infusion Reduces Postoperative Drain Output after Major Spine Surgery: A Retrospective Case-Controlled Study

Ian Fast, BSc, University of Manitoba, Manitoba, Winnipeg, Canada

MPDS-06 • PS 170 (958)

Disruptive Intraoperative Behavior: Reporting to Management and Satisfaction with Management's Response

Amanda L. Faulkner, MD, University of Kentucky College of Medicine, Lexington, Kentucky

MPDS-03 • MCC 24 (540)

Case Report: The Use of Dexmedetomidine in a Parturient with Multiple Endocrine Neoplasia 2 undergoing Adrenalectomy and Thyroidectomy

IARS 2018 Annual Meeting Abstract Presenters Index, continued

Ana Fernandez-Bustamante, MD, PhD, University of Colorado School of Medicine, Aurora, Colorado

MPDS-06 • PA 188 (977)

Postoperative Hypoxemic Events are Independently Associated with Increased Mortality within One Year from the Date of Surgery

Neal Fleming, MD, PhD, University of California, Davis School of Medicine, Sacramento, California

MPDS-11 • CA 78 (1302)

The Effects of an IV-Fluid Bolus on the Assessment of Diastolic Function

Katherine Forkin, MD, University of Virginia School of Medicine, Charlottesville, Virginia

MPDS-05 • EEP 54 (984)

The Role of Gender and Body Language on Patient Perception of Physicians

Audrice Francois, MD, Loyola University Medical Center, Maywood, Illinois

MPDS-05 • AMB 10 (1200)

Supraglottic Airway for Endoscopic Sinus Surgery: Comparison with Endotracheal Tube

Sabine Friedrich, MD, Massachusetts General Hospital, Boston, Massachusetts

MPDS-12 • RES 3 (1213)

Association between Intraoperative Fentanyl Dose and Postoperative Respiratory Complications: A Prespecified Analysis

Matthew B. Friese, MD, PhD, Harvard Medical School, Boston, Massachusetts

MPDS-03 • NR 37 (1400)

Sevoflurane and Isoflurane Exposure in Aged Male Mice Leads to Synaptic Alterations in the Hippocampus

Eugene Fu, MD, University of Miami Miller School of Medicine, Miami, Florida

MPDS-01 • PAP 52 (992)

Car8 Analgesia Assessed in Morphine Equivalence Using Mechanical Antinociception: Implications for Allometric Dosing and Translation from Mice to Humans

Carlos Fuentes, MD, Pontificia Universidad Católica de Chile, Santiago de Chile, Chile

MPDS-05 • LB GA 64 (1463)

Development of a Pharmacokinetic-Pharmacodynamic Model to Characterize the Power Shift of Propofol-Induced Frontal Alpha Rhythm in Elderly Patients: Defining a Composite Dose-Response Relationship

MPDS-05 • NR 98 (953)

Power Spectrum and Frontal Alpha Band Activity Saturation Predicts Loss of Response to Verbal Command in Older Adults during Anesthetic Induction with Propofol: A Diagnostic Test Approach

Daniel Garcia, MD, PhD, Albert Einstein College of Medicine, Bronx, New York

MPDS-09 • MCC 15 (825)

Cesarean Section and Subsequent Ventriculostomy in a Parturient with Pre-Eclampsia and Obstructive Hydrocephalus: A True Anesthetic Challenge

Marianne Gelter, DO, Ochsner Health Systems, New Orleans, Louisiana

MPDS-02 • EEP 89 (700)

Perspective on Leadership and Millennial Physicians

MPDS-02 • EEP 90 (864)

The "Mock OSCE": Preparing Residents for the ABA Objective Structured Clinical Examination

Tony Gin, MD, Chinese University of Hong Kong, Shatin, Hong Kong

MPDS-04 • PA 132 (1239)

Genetic Predictors of Postoperative Myocardial Injury

Juan Giraldo, MD, Fundacion Cardioinfantil Instituto de Cardiología, Bogotá, Colombia

MPDS-13 • AP 70 (873)

Frequency of Anesthetic Overdose at High Altitude with MAC-Guided Anesthesia

Chris D. Glover, MD, MBA, Baylor College of Medicine, Houston, Texas

MPDS-01 • PED 60 (548)

Perioperative Outcomes and Management in LeFort III Midface Advancement Surgery: A Multicenter Study from the Pediatric Craniofacial Collaborative Group

Michael Goettelman, MD, University of Rochester, Rochester, New York

MPDS-12 • MCC 27 (1183)

Approach to Management of a Patient Presenting with an Aortobronchial Fistula: A Case Report

Ghazaleh Goldar, MD Candidate, Central Michigan University, College of Medicine, Mt. Pleasant, Michigan

MPDS-06 • RA 199 (689)

Should Thoracic Paravertebral Blocks be Used to Prevent Chronic Post-surgical Pain Following Breast Cancer Surgery? A Systematic Analysis of Evidence in Light of IMMPACT Recommendations

MPDS-09 • RA 42 (645)

Suprascapular and Interscalene Nerve Block for Shoulder Surgery: A Systematic Review and Meta-Analysis of Analgesic Efficacy and Safety

MPDS-09 • RA 43 (688)

Is Local Anesthetic-Induced Myotoxicity a Real Complication of Regional Anesthesia? A Systematic Review of the Evidence and Empirical Analysis of the Implications

Sheldon Goldstein, MD, Montefiore Medical Center; Albert Einstein College of Medicine, Bronx, New York

MPDS-02 • EEP 87 (591)

Metacognition Principles in a Didactic TEE Education Program

MPDS-02 • EEP 88 (810)

Building an Academic Anesthesiology Career

MPDS-05 • TCSEM 137 (995)

Comparison of Pulse Oximeter Readings from Two Locations during Anesthesia

Susan Goobie, MD, Harvard Medical School, Boston, Massachusetts

MPDS-04 • LB MCC 83 (1501)

Tranexamic Acid Inhibits Plasminogen in Adolescent Scoliosis Surgery: Defining TXA Efficacy and Antifibrinolytic Action

MPDS-05 • PED 125 (1358)

Comparison of Two Tranexamic Acid Dosage Regimes for Craniosynostosis Surgery: A Multi-center Randomized Controlled Equivalency Trial

Akshay Goyal, MD, Boston Medical Center, Boston, Massachusetts

MPDS-04 • MCC 109 (1383)

Perioperative Epidural Analgesia as Part of a Multimodal Regimen for Total Hip Arthroplasty in an Opioid-Dependent Sickle Cell Patient

Ryan Graham, BS, Indiana University School of Medicine, Indianapolis, Indiana

MPDS-01 • LB L 19 (1502)

Post-liver Transplant Respiratory Failure: Predictors and Clinical Outcomes

Keren K. Griffiths, MD, PhD, Columbia University Medical Center, New York, New York

MPDS-12 • MCC 25 (836)

A Case of Difficult Fiberoptic Intubation in a Pediatric Patient with Occipito-Cervical Spine Fusion

Ilya Grinberg, MD, Albert Einstein College of Medicine, Bronx, New York

MPDS-10 • EEP 2 (979)

Anesthesiology Staff Burnout, Two-Year Study – Causes and Prevention

Caroline R. Gross, MD, Columbia University Medical Center, New York, New York

MPDS-08 • MCC 87 (687)

Cardiac Tamponade Following Orthotopic Liver Transplantation: Two Case Reports

Daniel A. Gross, MD, Albert Einstein College of Medicine, Bronx, New York

MPDS-10 • MCC 25 (817)

Familial Dysautonomia and Postural Orthostatic Tachycardia Syndrome – Uncommon Disease and Anesthetic Challenge

Calvin L. Gruss, MD, Vanderbilt University Medical Center, Nashville, Tennessee

MPDS-06 • TCSEM 207 (1139)

Automated Feedback Improves Perioperative Treatment of Postoperative Nausea and Vomiting

Padma Gulur, MD, Duke University Health System, Durham, North Carolina

MPDS-01 • PM 53 (1235)

Role of Pain Specialists in Reducing Healthcare Costs for Patients with Chronic Pain

IARS 2018 Annual Meeting Abstract Presenters Index, continued

Kapil Gupta, MBBS, DA, DNB, Toronto General Hospital, Toronto, Ontario, Canada

MPDS-03 • PS 54 (1222)

Risk Factors for Opioid Induced Respiratory Depression in Surgical Patients: A Systematic Review and Meta-Analyses of Prospective and Retrospective Studies

Rodrigo Gutierrez, MD, University of Chile, Santiago, Chile

MPDS-11 • NR 114 (1373)

A Lower Ratio of Alpha and Delta Frequency in the Electroencephalographic Activity during a Surgery under General Anesthesia is Associated with Low Preoperative Cognitive Performance in Older Patients

Eunice Hahm, MD, Massachusetts General Hospital; Harvard Medical School, Boston, Massachusetts

MPDS-05 • NR 96 (708)

EEG Alpha/Beta Power Suggests a Neurophysiological Basis for Susceptibility to Burst Suppression

Rudrashish Halder, MBBS, MD, Sanjay Gandhi Post Graduate Institute of Medical Sciences Lucknow, Lucknow, India

MPDS-12 • EEP 19 (1144)

Effects on Operation Theatre Efficiency Consequent to Patient Transportation Delays: Causes and Remedial Measures

Jonathan Halem, DO, Virginia Commonwealth University, Richmond, Virginia

MPDS-10 • MCC 18 (887)

One Lung Anesthesia for Video-Assisted Thoracoscopic Surgery (VATS) in a Patient with Heartmate-2 Left Ventricular Assist Device (LVAD)

Ashley Hamilton, MD, Children's Healthcare of Atlanta, Atlanta, Georgia

MPDS-13 • PED 108 (902)

Predicting Hypothermia in Pediatric Patients undergoing MRI under General Anesthesia

MPDS-13 • PED 109 (1402)

Identification and Description of the Cephalic Vein in Infants Using Ultrasound: A Pilot Study

Gavin M. Hamilton, MD, MSc, University of Ottawa, Ottawa, Ontario, Canada

MPDS-06 • RA 198 (961)

Association of Peripheral Nerve Blocks with Postoperative Outcomes in Ambulatory Shoulder Surgery Patients: A Single Center Matched Cohort Study

Jay S. Han, MD, MSc, University Health Network, Toronto, Ontario, Canada

MPDS-08 • PA 80 (1363)

The Risk of Severe Aortic Stenosis in Elective Non-Cardiac Surgery

Kennedy Ning Hao, MD Candidate, University of Toronto, Toronto, Ontario, Canada

MPDS-03 • T 61 (812)

Effects of Increased Number of Recorded Hypothermic Time Points in Critically Ill Trauma Patients Requiring Urgent Surgery on Mortality and Length of Stay

MPDS-03 • T 62 (913)

The Relationship between Seasonal Variation and Incidence of Hypothermia Among Critically Ill Trauma Patients Who Require Urgent Operations

Cheshire Hardcastle, MS, University of Florida College of Medicine, Gainesville, Florida

MPDS-08 • LB NR 92 (1516)

Acute Effects of Total Knee Arthroplasty with General Anesthesia on Functional Brain Networks in Patients with Mild Cognitive Impairment

Alexander Hawson, MD, University of California, San Francisco School of Medicine, San Francisco, California

MPDS-01 • MCC 29 (1246)

Case Report: Novel Use of Thromboelastography to Diagnose Hypercoagulability and Enoxaparin Failure Despite Therapeutic anti-FXa activity in a Patient with Bladder Cancer

Megan Hedlund, MD, University of Nebraska Medical Center, Omaha, Nebraska

MPDS-02 • MCC 126 (673)

Right Ventricular Assist Device Placement for Acute Right Ventricular Failure after Heart Transplantation: Echocardiographic Guidance Throughout the Perioperative Process

MPDS-02 • MCC 127 (889)

Thromboelastography (TEG)-guided Hemodynamic Resuscitation in a Patient with Severe Hemorrhagic Coagulopathy with Acquired Hemophagocytic Lymphohistiocytosis Related to Epstein-Barr Virus

Boris D. Heifets, MD, PhD, Stanford University School of Medicine, Stanford, California

MPDS-05 • NR 99 (1077)

Ketamine's Antidepressant Effect is Blocked by a μ -Opioid Receptor Antagonist in Humans and Mice

Jeffrey Heinrichs, MD, University of Manitoba, Winnipeg, Manitoba, Canada

MPDS-04 • CA 92 (720)

The Impact of Hyperoxia on Outcomes after Cardiac Surgery: A Systematic Review

Carlos Hernaiz, BS, University of Florida College of Medicine, Gainesville, Florida

MPDS-02 • GA 109 (1353)

Older Adults' Preoperative Cognition and Gray/White Matter Brain Integrity Predict Variability during TKA Tourniquet Up to Tourniquet Down

Susan L. Herrick, MD, Albany Medical Center, Albany, New York

MPDS-01 • CC 10 (1258)

Focused Transthoracic Echocardiography and In-Hospital Cardiac Arrest: A Case Series of 10 Resident-obtained Echocardiograms in the Peri-Resuscitative Period

Aaron S. Hess, MD, PhD, University of Wisconsin Hospital and Clinics, Madison, Wisconsin

MPDS-05 • BLD 15 (707)

Stored Platelet Number and Function is Not Decreased after Warming and Rapid Infusion

Grant J. Heydinger, MD, The University of Chicago Medicine, Chicago, Illinois

MPDS-09 • MCC 17 (1080)

Management of Severe Fire-related Inhalation Injury with Venovenous Extracorporeal Membrane Oxygenation: A Case Report

Darren Hight, PhD, University Hospital Bern, Bern, Switzerland

MPDS-08 • LB NR 91 (1488)

Alpha Power Decreases with Age during Isoflurane Anesthesia

Nicole Hitti, BSN, MSN, Weill Cornell Medicine, New York, New York

MPDS-02 • LB EEP 101 (1487)

Efficacy of Immediate Versus Delayed Feedback Education in Reducing Documentation Errors by Anesthesia Clinicians

Loren P. Hizek, MS, University of Florida College of Medicine, Gainesville, Florida

MPDS-02 • GA 108 (1260)

Clock Drawing Performance Declines Significantly for Older Adults after Total Knee Arthroplasty and General Anesthesia

McKenzie M. Hollon, MD, Emory University School of Medicine, Atlanta, Georgia

MPDS-05 • PM 115 (651)

Systems Change to Improve Utilization of Perioperative Multimodal Analgesia

Reine Ibala, BS, Massachusetts General Hospital, Boston, Massachusetts

MPDS-05 • GA 63 (1173)

Decreased EEG Alpha/Beta Power during Sevoflurane General Anesthesia is Associated with Pre-Existing Cognitive Impairment

Matias Iglesias, MD, Universidad de la República, Montevideo, Uruguay

MPDS-01 • LB CC 79 (1472)

Hindlimb Muscle Compromise during the Course of Acute Lung Injury in Mice

IARS 2018 Annual Meeting Abstract Presenters Index, continued

Takeshi Irie, MD, PhD, Memorial Sloan Kettering Cancer Center, New York, New York

MPDS-09 • BS 4 (1251)

Identification of Abundant and Evolutionarily Conserved Opioid Receptor Circular RNAs, and their Modulation in the Mouse Nervous System by Chronic Morphine

Medard B. Isokuma, MD, University of Kinshasa, Kinshasa, The Democratic Republic of the Congo

MPDS-12 • EEP 16 (815)

Assessment of the Preoperative Health Status Based on ASA PS Versus ABCK: A Descriptive Study

William M. Jackson, MD, Columbia University College of Physicians and Surgeons, New York, New York

MPDS-06 • PED 182 (1248)

Children and Adults with Univentricular Hearts Score Lower on Full Scale Intelligence Testing Compared to Children with Biventricular Congenital Heart Disease: A Meta-analysis

Amir Jafari, DO, University of Texas Medical Branch, Galveston, Texas

MPDS-13 • MCC 88 (1011)

Post-operative Myocardial Infarction

Henrike Janssen, MD, University Hospital Heidelberg, Heidelberg, Germany

MPDS-11 • CA 79 (1271)

Repetitive Surgical Procedures in Vascular Patients are Associated with Perioperative Cardiac Events

Kellie Jaremko, MD, PhD, Massachusetts General Hospital, Boston, Massachusetts

MPDS-06 • PS 169 (878)

Identifying Risky Practices Related to Perioperative Phenylephrine Infusions: An Audit-based Approach to Link Root Cause Analysis (RCA) to Quality Improvement (QI)

Yuel-Kai Jean, DO, Jackson Memorial Hospital; University of Miami, Miami, Florida

MPDS-01 • MCC 27 (1083)

Anesthetic Management of an Adult Patient with Kenny-Caffey Syndrome Type-2

MPDS-01 • MCC 28 (1234)

Anesthetic Considerations for Cesarean Delivery in a Primigravida with Supraventricular Tachycardia without Re-Entrant Features and History of Wolff-Parkinson-White Syndrome with Incomplete Ablation

MPDS-05 • MCC 81 (1244)

Through-the-wound Intubation in a Patient with Near-Complete Tracheal Transection

Walter S. Jellish, MD, PhD, Loyola University Medical Center, Maywood, Illinois

MPDS-02 • NR 135 (1158)

Pain after Craniotomy and the Development of Long-term Headache after These Procedures: Can We Improve Outcomes?

Ying Jiang, MS, Washington University School of Medicine in St. Louis, St. Louis, Missouri

MPDS-03 • NR 36 (1325)

Discriminative Capacity of EEG Power for the Onset and Severity of Delirium in the Postoperative Period

Sonia John, MD, Johns Hopkins Hospital, Baltimore, Maryland

MPDS-13 • MCC 91 (1345)

A Rare Case of Intracardiac 'Miscommunication': Diagnosis and Perioperative Management of a Patient with Gerbode's Defect

Jacob Jones, MD, The George Washington University Hospital, Washington, DC

MPDS-08 • PED 60 (543)

Dexmedetomidine as a Non-Opiate Adjunct to Multimodal Perioperative Pain Control in Pediatric Patients undergoing Craniofacial Reconstructive Surgery: A Retrospective Study

Romain Jouffroy, MD, Necker-Enfants Malades Hospital, Hamilton, Ontario, Canada

MPDS-08 • PA 81 (1370)

Impact of ICU Admission on the Perioperative Trajectory of Elderly Surgical Patients

Michael J. Jung, MD, MBA, University of California, San Francisco Medical Center, San Francisco, California

MPDS-04 • MCC 110 (489)

Toxic Flowers and Aconite Poisoning: A Case of Critical Illness after Chinese Herbal Tea

Atsushi Kainuma, MD, Kyoto Prefectural University of Medicine, Kyoto, Japan

MPDS-05 • CA 26 (814)

Energetic Performance Index Improvement after Glenn and Damus-Kaye-Stansel Procedure Using Vector Flow Mapping Analysis

Heiko Kaiser, MD, Inselspital, Bern, Switzerland

MPDS-09 • NR 27 (1269)

Decreasing frontal EEG Alpha Power over Three Surgeries within Seven Months: Accelerated Brain Aging through Progressive Frailty?

Hyun Kang, MD, PhD, MPH, Chung-Ang University, Seoul, South Korea

MPDS-05 • AMB 8 (964)

Comparative Effectiveness of Antiemetics for Prophylaxis of Postdischarge Nausea and Vomiting in Ambulatory Surgical Patients: A Network Meta-Analysis

Ashish K. Kannaujia, MD, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, India

MPDS-13 • TCSEM 133 (1097)

Smart Trach-one – a Disposable Ready to Use Smart Phone Video Laryngoscope

Ognjen Katan, MD, Vanderbilt University Medical Center, Nashville, Tennessee

MPDS-04 • CC 96 (701)

The Effect of Daily Fluid Balance on Mechanical Ventilation in Subarachnoid Hemorrhage

Hideya Kato, MD, University of California, San Francisco School of Medicine, San Francisco, California

MPDS-05 • CC 45 (1012)

Dynamic Changes in Plasma Microvesicle Concentrations in *Pseudomonas Aeruginosa* Pneumonia

Naoya Kawanoue, MD, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan

MPDS-13 • CC 81 (1406)

Histidine-rich Glycoprotein as a Novel Biomarker for Sepsis: Subgroup Analysis of the Time-Dependent Change

Yunbo Ke, PhD, University of Maryland School of Medicine, Baltimore, Maryland

MPDS-09 • BS 2 (784)

Signaling in Vascular Endothelium by Varying Degrees of Mechanical Stretch

Johnny Kenth, BSc, MSc, MBBS, FRCA, Royal Manchester Children's Hospital, Manchester, England

MPDS-05 • CC 34 (1002)

Making ECMO 'Work': Teamwork. An Observational, Qualitative Study into Teams and Teamwork

MPDS-05 • CC 35 (1003)

Intercorporeal 'Knowing' for Extracorporeal Membrane Oxygenation: Constructing and Enacting a Culture of Safety: A Qualitative, Observational Study

MPDS-07 • LB PS 54 (1480)

Anaesthesia For MRI: Reflexions for Safety, Hazards, Equipment and Monitoring: A Critical Review of the Literature

Asif Khan, MD, University of Texas Southwestern, Dallas, Texas

MPDS-02 • MCC 123 (550)

Lessons Learned from the Anesthetic Management of a Pediatric Patient with Dandy Walker Syndrome after Multiple Anesthetics

Kashif T. Khan, MD, SM, University of Michigan Medicine, Ann Arbor, Michigan

MPDS-05 • PM 117 (973)

Independent Predictor of Post-Thoracotomy Pain Syndrome: Centralized Pain Characteristics

Sarina Khan, DO, University of Michigan Health System, Ann Arbor, Michigan

MPDS-12 • MCC 11 (970)

Profound Hypertension on Cardiopulmonary Bypass in a Neonate: A New Consideration for the Differential

IARS 2018 Annual Meeting Abstract Presenters Index, continued

Ashish Khanna, MD, FCCP, FCCM, Cleveland Clinic Foundation, Cleveland, Ohio

MPDS-03 • CC 17 (584)

Association between Mean Arterial Pressure and Acute Kidney Injury and a Composite of Myocardial Injury and Mortality in Postoperative Critically Ill Patients

MPDS-05 • CC 36 (1279)

Association of Angiotensin II Dose with All-cause Mortality in Patients with Vasodilatory Shock

MPDS-05 • CC 37 (1285)

Association between MAP and Mortality in Vasodilatory Shock at an Academic Medical Center

Shahin Khodaei, HBSc, University of Toronto, Toronto, Ontario, Canada

MPDS-13 • NR 99 (886)

Pre-existing Inflammation Markedly Exacerbates Cognitive Dysfunction after Anesthesia in Mice

MPDS-13 • T 100 (1255)

Inhibiting α 5GABAA Receptors Restores Synaptic Plasticity in the Hippocampus after Traumatic Brain Injury in Mice

Brent Kidd, MD, Emory University School of Medicine, Atlanta, Georgia

MPDS-07 • MCC 26 (648)

Management of Hypoxia during Centrally Cannulated VA ECMO

Junghyun Kim, MD, University of Maryland School of Medicine, Baltimore, Maryland

MPDS-05 • BLD 17 (838)

Contrasting Effects of Stored Allogeneic Red Blood Cells and Their Supernatants on Permeability and Inflammatory Responses by Human Pulmonary Artery Endothelial Cells

David Kim, MD, Hospital for Special Surgery, New York, New York

MPDS-09 • RA 44 (742)

The Addition of ACB and IPACK to PAI Enhances Postoperative Pain Control in TKA: A Randomized Controlled Trial

MPDS-09 • RA 45 (907)

Early Experience with 2-Chloroprocaine for Spinal Anesthesia: A Retrospective Analysis at One Institution

Won Ho Kim, MD, PhD, Seoul National University Hospital, Seoul, Korea

MPDS-10 • TCSEM 10 (1013)

Positive End-expiratory Pressure-induced Change in External Jugular Venous Pressure Predicts Fluid Responsiveness in Laparoscopic Prostatectomy

MPDS-13 • TCSEM 132 (588)

Sedation Using Immersive Virtual Reality during Urologic Surgery under Spinal Anesthesia: A Randomized Controlled Trial

Brandon King, MD, University of Vermont Medical Center, Burlington, Vermont

MPDS-12 • EEP 17 (865)

Applying Pareto Efficiencies to Different Anesthesia Environments

Alex Knight, DO, University of Florida College of Medicine, Gainesville, Florida

MPDS-08 • MCC 90 (1068)

Consider Cardiovascular Anomalies in Differential for an Abnormal Capnogram

Elena Koepke, MD, MBA, Duke University Medical Center, Durham, North Carolina

MPDS-04 • PA 134 (1085)

Poor Outcomes in Patients on High Doses of Opioids Prior to Surgery – Time for Perioperative Optimization for Pain

Jan-Pablo Kollmar, MD, University of Virginia School of Medicine, Charlottesville, Virginia

MPDS-03 • MCC 25 (626)

Hemorrhage during Hip Fracture Repair of a Patient with a Large Arterio-Venous Malformation and Hyperhemolysis Syndrome

Benjamin T. Kor, BA, Creighton University School of Medicine, Omaha, Nebraska

MPDS-08 • MCC 89 (948)

An Unexpected Infection: A Case of Neurobrucellosis
John J. Kowalczyk, MD, Beth Israel Deaconess Medical Center, Boston, Massachusetts

MPDS-10 • OB 52 (988)

Efficacy of Patient Choice of Different Postoperative Analgesic Protocols after Cesarean Delivery: A Randomized Prospective Clinical Trial

Nathan T. Kor, BA, Mayo Clinic Rochester, Rochester, Minnesota

MPDS-04 • BLD 79 (756)

Verification of Provider Indications for Red Blood Cell Transfusion Therapies: A Retrospective Cohort Study

John Kowalczyk, MD, Beth Israel Deaconess Medical Center, Boston, Massachusetts

MPDS-10 • OB 52 (988)

Efficacy of Patient Choice of Different Postoperative Analgesic Protocols after Cesarean Delivery: A Randomized Prospective Clinical Trial

Yukihide Koyama, MD, PhD, Teikyo University School of Medicine, Kawasaki, Kanagawa, Japan

MPDS-03 • AM 1 (495)

Evaluation of Effective Emergency Airway Management for Accidental Extubation in a Patient with Head Fixed in the Prone Position: A Randomized Crossover Manikin Study

MPDS-03 • AM 2 (498)

Lubrication Inhibits the Increase in Cuff Pressure of Endotracheal Tubes during Nitrous Oxide Exposure: A Model Pediatric Trachea Study

Vijay Krishnamoorthy, MD, PhD, Duke University School of Medicine, Durham, North Carolina

MPDS-09 • CC 11 (1313)

Hypothermic Machine Perfusion Utilization and Outcomes for Deceased-Donor Kidneys

John Kroger, MD, The University of Texas Medical Branch, Galveston, Texas

MPDS-04 • MCC 115 (1361)

New Anterior Mediastinal Mass Discovered Day of Surgery: A Case Report

Henry Kroll, MD, Henry Ford Health System, Oak Park, Michigan

MPDS-06 • PS 211 (560)

Burnout in Certified Anesthesiologist Assistants

MPDS-06 • PS 212 (633)

Burnout in Certified Registered Nurse Anesthetists

Seung-Yup Ku, MD, PhD, SNUH, Seoul National University College of Medicine, Seoul, South Korea

MPDS-05 • OB 105 (572)

Anesthetic Agent May Not Influence Post-Operative Serum Female Hormone in Patients undergoing Pelvic Surgery Due to Benign Gynecological Diseases

MPDS-05 • OB 106 (573)

Effect of Isoflurane Anesthesia on In Vitro Follicle Growth of Rhesus Monkey

Levin Kuhlmann, PhD, Swinburne University of Technology, Melbourne, Australia

MPDS-10 • LB NR 38 (1498)

Imaging the Neural Mechanisms of Consciousness and Anesthesia

Theresa Kuhlmann, MD, Hospital of Bad Soden, Bad Soden, Germany

MPDS-04 • BLD 80 (1042)

Impact of Reinforced, Strict Guidelines on the Usage of Packed Red Blood Cells (PRBC)

Raghavendra P. Kulkarni, MBBS, DA, FRCA, FCARCSI, FFICM, Kettering General Hospital, Kettering, England

MPDS-03 • LB AM 6 (1483)

Airway Audits and Results? What We Learn from Them?

Annandita Kumar, BA, Ochsner Health Systems, New Orleans, Louisiana

MPDS-13 • CC 78 (714)

The Modified Early Warning System in Unplanned SICU Admission: An Analysis in 263 Consecutive Patients

Kosuke Kuroda, MD, Okayama University Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama, Japan

MPDS-13 • CC 79 (722)

Decrease in Histidine-Rich Glycoprotein as a Novel Prognostic Biomarker for Sepsis: Multicenter Prospective Observational Study

IARS 2018 Annual Meeting Abstract Presenters Index, continued

Hyun-Jung Kwon, MD, Asan Medical Center, Seoul, South Korea

MPDS-04 • PA 133 (837)

Comparison of the Effect of Open Radical Hysterectomy and Laparoscopic Radical Hysterectomy on Postoperative Immune Function and the Incidence of Acute Kidney Injury in Patients with Cervical Cancer

J. Matthew Kynes, MD, Vanderbilt University Medical Center, Nashville, Tennessee

MPDS-02 • GH 114 (575)

Longitudinal Assessment of an Integrated Global Anesthesia Elective during Residency Training

MPDS-02 • GH 115 (659)

Addressing the Global Demand for Educational Material with an Online Open-Access, Internet-Based Lecture Repository in Pediatric Anesthesia

MPDS-07 • GH 10 (663)

The Impact of Access and Resource Deficiencies on Trauma Care in Kenya

MPDS-07 • GH 11 (755)

Establishing a Database for Quality Assessment of Pediatric Surgical Missions

Anton Laffin, MD, New York Health, New York, New York

MPDS-01 • O 42 (851)

Severity and Duration of Hypoxemia during Outpatient Endoscopy in Obese Patients

Joseph Lagrew, MD, University of Florida, Gainesville, Florida

MPDS-05 • PA 124 (1174)

Cardiac Auscultation through Clothing: The Truth Behind the Taboo

Samuel Landa, DO, St. Joseph's University Medical Center, Springfield, New Jersey

MPDS-05 • MCC 72 (1218)

Unexpected Airway Obstruction Following Mandibular Tumor Resection- Nerve Injury, Muscle Damage or Anesthetic Complication?

Meghan Lane-Fall, MD, MSHP, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

MPDS-03 • CC 18 (1404)

Defining Familial Interactions and Networks (Define): An Exploratory Study on Family Networks and Surrogate Decision Making in the ICU

Kathryn K. Lauer, MD, Medical College of Wisconsin, Milwaukee, Wisconsin

MPDS-12 • SM 4 (1448)

STOPBANG Scoring Linked to Respiratory Monitoring: A Preliminary Review of 155,000 Patients

Marshall Lawler, MD, Stanford University School of Medicine, Stanford, California

MPDS-11 • EEP 98 (1327)

An Anesthetic Attempt to be "Green": How Do You Waste Your CO₂ Absorbers?

Brooke LeBlanc, MD, Ochsner Medical Center, New Orleans, Louisiana

MPDS-09 • AM 73 (1257)

Non-Invasive Ventilation in Perioperative Surgical Patients

Jae Woo Lee, MD, University of California, San Francisco, San Francisco, California

MPDS-07 • CC 5 (1033)

Therapeutic Effects of Hyaluronic Acid Following Lung Injury Induced by E.coli Derived Extracellular Vesicles

Jaehoon Lee, MD, University of California, San Francisco School of Medicine, San Francisco, California

MPDS-04 • CC 99 (1038)

Therapeutic Effect of High Molecular Weight Hyaluronic Acid in Polymicrobial Sepsis in Mice

Ji-Min Lee, MD, Severance Hospital, Yonsei University College of Medicine, Seoul, South Korea

MPDS-05 • PED 123 (1099)

Intraoperative Intravenous Infusion of Lidocaine for Better Postoperative Analgesia in Children undergoing Laparoscopic Hernia Repair

Seakwoo Lee, PhD, University of Maryland School of Medicine, Baltimore, Maryland

MPDS-05 • T 143 (1141)

Histone Subunits Disrupt Lung Vascular Endothelial Cell Barrier in Trauma

Jonathan Leiderman, MD, Cohen Children's Medical Center/ LIJ Medical Center, New Hyde Park, New York

MPDS-07 • PED 18 (1113)

Laryngo-tracheo-esophageal Clefts: Should We Be Changing Our Management?

Nathanael Leo, MD, New York University School of Medicine, New York, New York

MPDS-05 • MCC 78 (1360)

Anesthetic Approach and Management of a Patient with Familial Dysautonomia

David Leopold, MD, Children's Hospital Colorado, Aurora, Colorado

MPDS-01 • TCSEM 72 (1181)

Perioperative Central Volume Status in Healthy Children and in Children with Congenital Heart Disease

MPDS-01 • TCSEM 73 (1365)

Joint Modeling and the Compensatory Reserve Index: Insight into Hemodynamic Compensation during the Induction of General Anesthesia

Danielle Levin, BA, Rutgers Robert Wood Johnson Medical School, New Brunswick, New Jersey

MPDS-01 • MCC 37 (839)

Successful Anesthetic Management of a Patient with Multiple Trauma and Severe Hypothermia: A Case Report

MPDS-01 • O 36 (835)

Paternal BMI Affects Neonatal Weight: A Retrospective Study

MPDS-05 • OB 107 (753)

Transcutaneous P6 Acupoint Electrical Stimulation Prevents Both Nausea and Vomiting during Elective Cesarean Section under Combined Spinal-Epidural: A Randomized Control Clinical Trial

MPDS-05 • OB 108 (799)

Does the Application of Scopolamine Patch with Intra-operative Acupressure Point P6 Stimulation Increase Parturients' Intra-Cesarean Satisfaction? A Prospective Randomized Clinical Trial

Roy C. Levitt, MD, University of Miami Miller School of Medicine, Miami, Florida

MPDS-02 • PME 141 (880)

Gain without Pain: CA8-204 Represents A Novel Analgesic Therapeutic Candidate

Richard J. Levy, MD, FAAP, Columbia University College of Physicians and Surgeons, New York, New York

MPDS-09 • BS 1 (544)

Evidence of a Discrete and Targetable Mitochondrial Defect in the Developing Fragile X Syndrome Brain

Pulsar Li, DO, Loyola University Medical Center, Maywood, Illinois

MPDS-05 • MCC 71 (1026)

Caudal Anesthesia and Natural Airway for Ambulatory Urologic Surgery in Infant with Epidermolysis Bullosa

Grace Lim, MD, MS, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania

MPDS-03 • OB 45 (1434)

Emotional Burden and Psychophysical Predictors of Labor Pain

Panop Limratana, MD, Mahidol University, Bangkok, Thailand

MPDS-10 • OB 53 (754)

Effect of Intrathecal Bupivacaine Baricity on Parturient undergoing Cesarean Section: A Randomized Study:

Shiwen Liu, MD, Shanghai Zhongshan Hospital, Shanghai, China

MPDS-03 • NR 33 (840)

Sevoflurane Interferes Cell Cycle through Inhibition of Wnt/ β -catenin Signaling Pathway in Mouse Neural Stem Cells

IARS 2018 Annual Meeting Abstract Presenters Index, continued

Chang Amber Liu, MD, MSc, FAAP, Massachusetts General Hospital, Boston, Massachusetts

MPDS-07 • LB PED 53 (1518)

Spinal Anesthesia in High-risk and Premature Infants Presenting for Infraumbilical and Lower Extremity Surgeries Can Reduce Postoperative Apnea and Improve Operating Room Efficiency: A Case Series

MPDS-13 • MCC 89 (1084)

A Case of Bleeding while Clotting in a Neonate with Finnish-type Nephrotic Syndrome

Laura Lombardi-Karl, MD, Columbia University Medical Center, New York, New York

MPDS-08 • MCC 87 (949)

Management of Scimitar Syndrome in Two Pregnant Patients

Amanda Lorinc, MD, Vanderbilt University Medical Center, Nashville, Tennessee

MPDS-06 • PED 181 (1125)

Reducing Postoperative Opioid Use in Children after Adenotonsillectomy

Amy C. Lu, MD, MPH, Stanford University School of Medicine, Stanford, California

MPDS-02 • LB PA 163 (1504)

Multidisciplinary ERAS Approach in Esophagectomy Using a Clinical Care Pathway

Nadia Lunardi, MD, PhD, University of Virginia, Charlottesville, Virginia

MPDS-05 • NR 90 (1039)

Adolescent Rats Display Long-lasting Abnormalities in REM Sleep Quantity and Structure after Postnatal Anesthesia

Shuang Ma, MD, Duke University School of Medicine, Durham, North Carolina

MPDS-11 • LB NR 119 (1507)

24 Hour Post-Treatment with the Noble Gas Argon Provides Robust Neuroprotection and Improvement in Neurologic Outcome after Focal Cerebral Ischemia in Rats

Lauren Madoff, MD, Children's Hospital Boston, Boston, Massachusetts

MPDS-07 • PED 45 (1263)

Airway Management in Patients with Mucopolysaccharidoses: When Does it Become Difficult?

Guillermo Madrid, MD, Fundación Santa Fe de Bogotá, Bogotá, Colombia

MPDS-13 • PM 98 (802)

Intravenous Lidocaine for Pain Control after Robotic Prostatectomy

MPDS-13 • NR 97 (803)

Preoperative Thromboelastographic Alterations in Patients with Central Nervous System Neoplasms

Manisha Magar, MD, Virginia Commonwealth University, Richmond, Virginia

MPDS-05 • MCC 80 (1369)

A Case Report of Tapia Syndrome in a Patient Following Oral and Maxillofacial Surgery

Alexander Maglunog, MD, Keck School of Medicine of University of Southern California, Los Angeles, California

MPDS-08 • MCC 91 (1087)

Emergency Exploratory Laparotomy in a Patient with Known Active ST Elevation Myocardial Infarction

Hemanckur Makker, MD, Emory University School of Medicine, Atlanta, Georgia

MPDS-01 • CC 9 (1385)

Implementation of a Simulation-Based Training Program for ECMO Complications

Anatoly Martynyuk, PhD, University of Florida, Gainesville, Florida

MPDS-12 • NR 42 (1107)

Epigenetic Mechanisms Mediate Multigenerational Effects of Early Life Exposure to Sevoflurane In Rats

Edward J. Mascha, PhD, Cleveland Clinic, Cleveland, Ohio

MPDS-05 • EEP 53 (874)

Design and Analysis of the Before-after Study: Assessing the Impact of a New Practice or Policy

Benjamin Matelich, MD, University of Minnesota, Minneapolis, Minnesota

MPDS-07 • PS 35 (1245)

Postoperative Reintubations – The Possible Role of Residual Neuromuscular Blockade

Atsuko Matsuzaki, MD, Hirosaki University Hospital, Hirosaki, Japan

MPDS-06 • RA 197 (774)

Efficacy of Abdominal Peripheral Nerve Block for Surgical Space Condition during Robot-Assisted Laparoscopic Surgery: A Pilot Study

Max Mazanikov, MD, PhD, Helsinki University, Helsinki, Finland

MPDS-05 • AMB 7 (938)

Doxapram for Prevention of Propofol-Induced Respiratory Depression in Spontaneously Breathing Patients undergoing Deep Sedation – A Randomized Double-Blind Placebo Controlled Study

Michael D. McDonald, BA, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

MPDS-07 • CC 1 (606)

Long-Term Outcomes Following Extracorporeal Life Support for Acute Respiratory Failure

MPDS-07 • CC 2 (1467)

Acute Respiratory Failure Managed via Interfacility Transport for Extracorporeal Membrane Oxygenation: A Three-year Experience

Elizabeth McIntyre, MD, McGaw Medical Center of Northwestern University, Chicago, Illinois

MPDS-04 • MCC 117 (1420)

Ethical Conflicts in Extracorporeal Membrane Oxygenation: A Case Report

Andrew McKinstry-Wu, MD, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

MPDS-03 • BS 7 (748)

A Novel $\alpha 2$ Agonist Photolabel Reveals a Binding Site for Dexmedetomidine on the $\alpha 2A$ Adrenergic Receptor

MPDS-03 • BS 8 (1293)

Ergodic Mice: Implications of Behavioral State Transitions at Constant Anesthetic Concentration

Keleigh McLaughlin, MD, University of Colorado Denver School of Medicine, Aurora, Colorado

MPDS-13 • MCC 90 (1202)

Sticky Situation: A Case Report

Merrick M. Meese, MD, MSHA, MSHI, UAB, University of Alabama at Birmingham School of Medicine, Birmingham, Alabama

MPDS-12 • EEP 15 (482)

The Impact of Email Communication on Anesthesia Providers' Volume of Pharmaceutical Administration When Notified of Pharmaceutical Cost Change

Jaideep H. Mehta, MD, MBA, University of Texas Health Science Center, Houston, Texas

MPDS-07 • PS 36 (1288)

Comparison of TOF Ratios with Non-Invasive Minute Ventilation Measurements in Monitoring Residual Neuromuscular Block in the PACU

Vrajesh Mehta, MD, Rutgers Robert Wood Johnson Medical School, New Brunswick, New Jersey

MPDS-01 • O 34 (775)

A Novel Modified Nasal PAP Mask Assembly Maintained Spontaneous Ventilation and Oxygenation in a Morbidly Obese Patient with Severe OSA and Asthma during Hysteroscopy and D&C under Spinal Anesthesia

Angela Meier, MD, PhD, University of California, San Diego School of Medicine, San Diego, California

MPDS-01 • LB CC 80 (1521)

Propofol Impacts Neutrophil Extracellular Trap (NET) Production

Antonio Melo, MD, Health and Life Sciences Research Institute, Braga, Portugal

MPDS-12 • NR 46 (1414)

Exposure to Ketamine Anesthesia Affects Rat Impulsive Behavior

Katarina Mencin, MD, University Medical Centre Ljubljana, Ljubljana, Slovenia

MPDS-04 • PA 137 (1326)

Intraoperative Use of Multimodal Monitoring Might Reduce Postoperative Cognitive Dysfunction

IARS 2018 Annual Meeting Abstract Presenters Index, continued

Anja Metzger, PhD, University of Minnesota, Minneapolis, Minnesota

MPDS-04 • CA 90 (1058)

Active Intrathoracic Pressure Regulation: A Novel Non-invasive Device to Improve Hemodynamics after Blood Loss in a Porcine Model of Hemorrhage

Mercades Meuli, DO, Albany Medical Center, Albany, New York

MPDS-05 • LB CC 20 (1500)

Alarming Levels of Carboxyhemoglobin in Banked Blood: An Update Fourteen Years Later

MPDS-10 • PA 45 (1229)

Addition of Focused Transthoracic Echocardiography (FoTE) Learning into Existing Anesthesiology Residency Training Programs: A Prospective Multicenter Study of Blended Learning

Angela Mickle, MS, Washington University School of Medicine in St. Louis, St. Louis, Missouri

MPDS-02 • GA 106 (763)

Effect of Intubation Duration on Post-Operative Delirium after Cardiac Surgery

Andrew Milne, MBChB, FRCA, DMCC, Central London School of Anaesthetics, London, England

MPDS-03 • T 63 (850)

The Optimum Intravenous Catheter for Massive Transfusions in Trauma: A Pragmatic In Vitro Study

Devika Mishra, MD, Maulana Azad Medical College and Lok Nayak Hospital, Delhi, India

MPDS-07 • LB PED 51 (1524)

Prediction of Difficult Laryngoscopy in Paediatric Population: Role of Ratio of Patient's Height to Thyromental Distance

John D. Mitchell, MD, Beth Israel Deaconess Medical Center, Boston, Massachusetts

MPDS-09 • BS 5 (1295)

Altered Fatty Acid Metabolism in Myocardium in a Swine Model of Metabolic Syndrome

Aaron Mittel, MD, Columbia University Medical Center, New York, New York

MPDS-04 • MCC 105 (1110)

VA ECMO for Acute Mitral Regurgitation Leading to Aortic Root Thrombus and Subsequent Management

Asha Mohammed, MD Candidate, University of Bristol, Bristol, England

MPDS-03 • PS 53 (989)

Laparoscopic Specimen Bag Designs – Impact On Patient Safety

Constance Monitto, MD, Johns Hopkins University School of Medicine, Baltimore, Maryland

MPDS-07 • PS 34 (1060)

Non-invasive Ventilatory Monitoring in Children Following Posterior Spinal Fusion Surgery

Mina Morgan, DO, Rutgers Robert Wood Johnson Hospital, New Brunswick, New Jersey

MPDS-05 • MCC 79 (826)

Case Report: A Novel Nasal PAP Mask Maintained Ventilation and Continuous Active Oxygenation in Patient with a Large Mandibular Sarcoma during a Video-Laryngoscopy Guided Fiberoptic Intubation

Jatandra Morton-Howard, MD, Emory University School of Medicine, Atlanta, Georgia

MPDS-09 • PED 37 (1368)

Estimated Blood Loss and Packed Blood Cell Administration during Different Surgical Phases in Pediatric Liver Transplants

Andrew Moss, BS, Columbia University College of Physicians and Surgeons, New York, New York

MPDS-06 • PS 168 (729)

Safety of Anesthesia for Percutaneous Endoscopic Gastrostomy in Patients with Amyotrophic Lateral Sclerosis

Talha Mubashir, MD, Toronto Western Hospital, Toronto, Ontario, Canada

MPDS-02 • SM 151 (676)

Neurocognitive Functioning Following CPAP Treatment in Elderly Patients with Obstructive Sleep Apnea: A Meta-analysis of Randomized Controlled Trials

MPDS-02 • SM 152 (767)

Continuous Positive Pressure Therapy Improves Depressive Symptoms in Elderly Individuals with Obstructive Sleep Apnea: A Systematic Review and Meta-analysis

Farrukh Munshey, MD, FRCPC, Lucille Packard Children's Hospital Stanford, Stanford, California

MPDS-06 • PED 179 (610)

PECS 1 block for Port-a-Cath Insertion or Removal in Children: A Retrospective Review

John M. Murkin, MD, FRCPC, University of Western Ontario, Canada, London, Ontario, Canada

MPDS-09 • CC 7 (564)

Low Initial Tissue Oximetry Vascular Occlusion Test Reperfusion Slope is Associated with Mortality in Critically Ill Patients

Melissa Z. Murphy, MD, Vanderbilt University Medical Center, Nashville, Tennessee

MPDS-06 • MCC 164 (565)

Neuromodulation for Intractable Neuropathic Pain Caused by Neuromyelitis Optica Involving Spine

Teresa Murray-Torres, MD, Washington University School of Medicine in St. Louis, St. Louis, Missouri

MPDS-06 • TCSEM 206 (868)

Anesthesiology Control Tower: Feasibility Assessment to Support Translation (ACTFAST)

Kadhiresan R. Murugappan, MD, Beth Israel Deaconess Medical Center, Boston, Massachusetts

MPDS-05 • PA 43 (942)

Postoperative Nausea and Vomiting Revisited: A Prospective, Observational Cohort Study Assessing Implementation of a Risk-Stratified Approach

Mahesh Nagappa, MD, Western University, London, Ontario, Canada

MPDS-02 • SM 153 (684)

Association between Difficult Airway and Obstructive Sleep Apnea in Patients undergoing Surgery: A Systematic Review and Bayesian Meta-Analysis of Prospective and Retrospective Cohort Studies

MPDS-02 • SM 154 (1166)

Risk Factors for Obstructive Sleep Apnea during Pregnancy: A Meta-analysis

Peter Nagele, MD, MSc, The University of Chicago Medicine, Chicago, Illinois

MPDS-05 • AP 5 (956)

Nitrous Oxide as Treatment for Tinnitus: A Randomized Crossover Trial

Singh Nair, PhD, Montefiore Medical Center, Bronx, New York

MPDS-01 • O 45 (1347)

The Evaluation of NSAIDs in the Perioperative Period: A Retrospective Analysis of Bariatric Surgery Patients

MPDS-10 • PA 46 (1328)

Association of Implementation of Preoperative Cardiac Guidelines and Postoperative Complications in Cadaveric Kidney Transplantation Patients: A Single Center Retrospective Study

MPDS-10 • PA 47 (1364)

Association of Diabetes Mellitus in Postoperative Complications after Hip Surgeries: A Single Center Retrospective Chart Review Study

Takuya Nakayama, MD, PhD, Nagoya Kyoritsu Hospital, Nagoya, Japan

MPDS-13 • AP 69 (514)

Characteristics of Breakthrough Surgical Site Infections (SSIs) in Colorectal Surgery Following the Adherence to the Guideline for SSI

Khodadad Namiranian, MD, PhD, VA Maryland Health Care System, Baltimore, Maryland

MPDS-01 • PAP 51 (793)

Are the Patients with Opioid Use Disorder Prone to Relapse to Opioids in the Postoperative Period?

Tessa E. Newman, DO, Case Western University Hospitals, Cleveland, Ohio

MPDS-12 • EEP 18 (1079)

Differentiating Anesthesiologist Efficiency via Analysis of Non-Operative Time

IARS 2018 Annual Meeting Abstract Presenters Index, continued

Dung D. Nguyen, MD, University of Kentucky College of Medicine, Lexington, Kentucky

MPDS-01 • MCC 24 (551)

Bronchus Transection after Blunt Trauma

Khoa Nguyen, BS, University of Central Florida, Orlando, Florida

MPDS-06 • TCSEM 204 (697)

The Simulation Wars: A Competition to Increase Participation in Emergency Manuals Simulation Training and a Novel Tool for Rating Simulation Competitions

Linh Nguyen, MD, University of Texas, Houston, Texas

MPDS-11 • MCC 107 (535)

Anesthetic Implications of an Ectopic Pancreas

Thanh Nguyen, MD, Vanderbilt University Medical Center, Nashville, Tennessee

MPDS-08 • PED 61 (654)

High Dosing of Aminocaproic Acid Associated with Less Blood Loss and Lower D-Dimer Levels in Children undergoing Major Cranial Vault Reconstruction

Azfar Niazi, MD, Cleveland Clinic Fairview Hospital, Cleveland, Ohio

MPDS-04 • MCC 116 (1378)

Itching and Amniotic Fluid Embolism with Circulatory Collapse in a Full-Term Pregnant Patient

Dolores Njoku, MD, Johns Hopkins University School of Medicine, Baltimore, Maryland

MPDS-01 • L 18 (1179)

Novel Insights into a Mitochondrial Immuno-Metabolism Connection Detected by RNA-Seq Analysis of Experimental Drug-Induced Hepatitis in BALB/c Mice

Nwamaka Nnamani, MD, University of Texas Southwestern, Dallas, Texas

MPDS-01 • O 33 (583)

Apneic Oxygenation with a Nasal Cannula in the Morbidly Obese Patient: A Randomized, Double-Blinded, Placebo-Controlled Trial

Jordan Oberhaus, BS, Washington University in Saint Louis, St. Louis, Missouri

MPDS-05 • GA 62 (1340)

Comparison of the CAM and 3D-CAM in High-Risk Surgical Patients

Vikas O'Reilly-Shah, MD, PhD, Emory University School of Medicine, Atlanta, Georgia

MPDS-02 • GH 117 (1127)

Using a Mobile App to Collect Data for an International Pediatric Perioperative Outcomes Study: Feasibility Assessment

Barbara S. Orlando, MD, Mount Sinai Health System, New York, New York

MPDS-10 • EEP 1 (1049)

Optimizing the Clinical Anesthesia Year 0 Experience: A Program Director Survey of the Clinical Base Year in Anesthesiology Residency Programs

Qi Ott, MD, Beth Israel Deaconess Medical Center, Boston, Massachusetts

MPDS-12 • CA 9 (947)

Cerebral Oximetry and PaCO₂ Correlation in Cardiac Patients Study

Nirvik Pal, MBBS, MD, Virginia Commonwealth University, Richmond, Virginia

MPDS-12 • PA 60 (746)

Sudden Cardiac Death Due to Arrhythmia is the Most Frequent Cause of Death in End Stage Renal Disease (ESRD) undergoing Kidney Transplantation

MPDS-12 • PA 62 (808)

Recent Hemodialysis Prior to Kidney Transplantation is Not Associated with Improved Perioperative Survival

Louisa Palmer, MBBS, Brigham and Women's Hospital, Boston, Massachusetts

MPDS-09 • CC 9 (965)

Is All Chlorhexidine Bathing Equal? A Comparison of Skin Chlorhexidine Concentration and Bacterial Colonization after Different, Commonly Used, Methods of Chlorhexidine Bathing

Jason Pang, BS, University of Texas Medical Branch, Galveston, Texas

MPDS-05 • CC 46 (1171)

Using Mean Systemic Filling Pressure and Heart Efficiency to Assess Hemodynamics during Volume Resuscitation in Ovine Septic and Hemorrhagic Shock

Ergit Paparisto, MD, Keck School of Medicine of the University of Southern California, Los Angeles, California

MPDS-07 • CC 4 (867)

Hyperacute Catheter-Associated Pulmonary Embolus in the Immediate Postoperative Period Following Spinal Surgery

Santosh S. Parajuli, MD, Shahid Gangalaal National Heart Centre, Kathmandu, Nepal

MPDS-12 • CA 7 (567)

Ultrasound Guided Technique for Internal Jugular Central Venous Catheterization in Pediatric Cardiac Surgical Patients: A Prospective Observational Study

Phani K. Paruchuri, MD, Anaheim Regional Medical Center, Anaheim, California

MPDS-05 • OB 109 (634)

Comparative Study of Epidural Infusions, Narcotic vs. Non Narcotic in the Management of Labor Pain

MPDS-05 • PAP 110 (1076)

Role of Ketamine Infusion Technique in Addiction Management

Julia Parzych, MD, Children's Hospital of Philadelphia, Philadelphia, Pennsylvania

MPDS-11 • AM 70 (1196)

A Preinduction Checklist for the Pediatric Difficult Airway

Laura Pasternack, MSc, Drexel College of Medicine, Philadelphia, Pennsylvania

MPDS-10 • EEP 5 (1152)

Novel Recycling Practices in Anesthesiology

Soumi Pathak, MD, Rajiv Gandhi Cancer Institute and Research Centre, Delhi, India

MPDS-04 • PA 135 (1133)

Changing Trends in Coagulation Profile of 60 Patients undergoing CRS with HIPEC in the Perioperative Period

Maria D. Patrocinio, MD, Massachusetts General Hospital, Boston, Massachusetts

MPDS-03 • LB AMB 55 (1482)

Development of a Novel Clinical Score to Estimate the Risk of Readmission after Ambulatory Surgery (ROAMS)

Jacquelin Peck, MD, Johns Hopkins All Children's Hospital, St. Petersburg, Florida

MPDS-09 • PED 33 (845)

Comparison of Endotracheal Intubation vs. Natural Airway during Endoscopic Foreign Body Removal

MPDS-09 • PED 34 (847)

Comparison of Endotracheal Intubation vs. Natural Airway during Initial Percutaneous Endoscopic Gastrostomy Insertion

Eric Pedone, MD, Loyola University Health System, Chicago, Illinois

MPDS-13 • MCC 87 (833)

Acute Allograft Rejection Following Orthotopic Heart Transplantation in a Patient with Peripartum Cardiomyopathy

Israel Pena, MD, University of Virginia School of Medicine, Charlottesville, Virginia

MPDS-10 • MCC 17 (813)

Death by ECT: An Unfortunate Case of Stress Cardiomyopathy

Francisco Perese, MD, Yale New Haven Hospital, New Haven, Connecticut

MPDS-08 • MCC 89 (1022)

Perioperative Pain Management Emphasizing Peripheral Nerve Blockade in a Homozygous Sickle Cell Disease Patient undergoing Total Hip Arthroplasty

Jose F. Perez-Zoghbi, PhD, Columbia University Medical Center, New York, New York

MPDS-12 • NR 45 (1332)

Prolonged Exposure to Sub-Anesthetic Doses of Sevoflurane and Dexmedetomidine Induces Very Modest Brain Cell Apoptosis in Neonatal Rats

Robert A. Peterfreund, MD, PhD, Massachusetts General Hospital, Boston, Massachusetts

MPDS-02 • PA 159 (638)

Design of a Tool for Resident Education when Planning Anesthetics for Intracranial Neurosurgical Procedures

IARS 2018 Annual Meeting Abstract Presenters Index, continued

Joshua C. Peterson, MD, University of Kansas, Kansas City, Kansas

MPDS-07 • CC 3 (737)

Clinical Utility of Hemodynamic Transesophageal Echocardiography (hTEE) in the Management of Unstable Cardiothoracic ICU Patients

Maria A. Petre, MD, SickKids Hospital, Toronto, Ontario, Canada

MPDS-07 • PED 44 (1189)

Relative Efficacy of TIVA and Adjuvant Intraoperative Dexmedetomidine in Reducing Emergence Delirium in Children: A Network Meta-Analysis

Arsene Pinguelo, MSc, University of Toronto, Toronto, Ontario, Canada

MPDS-12 • NR 43 (1138)

Anesthetic Activation of GABAA Receptors in Astrocytes Causes Persistent GABAA Receptor Hyperactivity in Neurons in Mice

David M. Polaner, MD, University of Colorado Denver School of Medicine, Aurora, Colorado

MPDS-01 • PED 65 (1430)

Dosing Variation in Pediatric Regional Blockade: A PRAN Database Study

Steven Porter, MD, Mayo Clinic College of Medicine and Science, Jacksonville, Florida

MPDS-02 • PA 160 (680)

A Quality Improvement Project to Decrease the Risk of Perioperative Corneal Abrasions

Arun Prakash, MD, PhD, University of California, San Francisco School of Medicine, San Francisco, California

MPDS-01 • BS 78 (516)

Gut Commensal Metabolites Regulate Sterile Lung Inflammation in Mice: A Role for Acetate and Propionate

Alex Proekt, MD, PhD, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

MPDS-03 • BS 12 (1301)

Stochastic Behavioral Transitions: Contributions to Hysteresis

Brandon Pruett, MD, Wexner Medical Center at the Ohio State University, Columbus, Ohio

MPDS-04 • MCC 118 (1421)

Perioperative Management of a Patient with von Gierke Disease undergoing Hepatic Surgery

Maksim Ptushko, MD, Rutgers Robert Wood Johnson Medical School, Newark, New Jersey

MPDS-10 • MCC 15 (615)

Anesthetic Management of a Patient with Charcot-Marie-Tooth Disease and Previous History of Prolonged Diffuse Muscular Weakness Related to General Anesthesia

Karthik L. Raghunathan, MD, MPH, Duke University Medical Center, Durham, North Carolina

MPDS-01 • LB CC 81 (1468)

The Benefits of Using Charge Codes in Perioperative and Critical Care Research

Sarah Rahman, MD, Rush University Medical Center, Chicago, Illinois

MPDS-10 • MCC 24 (581)

Dural Venous Sinus Thrombosis as a Result of Inadvertent Dural Puncture

Maunak Rana, MD, The University of Chicago Medicine, Chicago, Illinois

MPDS-02 • EEP 98 (1122)

The Application of Bayes' Theorem to Justify the Use of a Triple-phase Bone Scan (TPBS) in Helping Diagnose Complex Regional Pain Syndrome (CRPS) within Select Patient Populations

MPDS-02 • PM 99 (1397)

The Application of Bayes' Theorem For Diagnosing Herniated Nucleus Pulposus (HNP) Based on Physical Exam Findings

Annette Rebel, MD, University of Kentucky College of Medicine, Lexington, Kentucky

MPDS-05 • EEP 51 (585)

Integration of Point-of-Care Ultrasound Training into an Existing Clinical Base Year Rotation: How Much Can be Done in 4 weeks?

Srijaya K. Reddy, MD, MBA, Monroe Carell Jr. Children's Hospital at Vanderbilt University, Nashville, Tennessee

MPDS-06 • PED 177 (542)

Perioperative Outcomes Comparing High Surgical Volume vs. Low Surgical Volume Centers for Complex Cranial Vault Reconstruction: A Multicenter Study from the Pediatric Craniofacial Collaborative Group

Johnathan R. Renew, MD, Mayo Clinic College of Medicine and Science, Jacksonville, Florida

MPDS-13 • TCSEM 135 (1155)

Comparative Investigation of Acceleromyography-based IntelliVue NMT and Electromyography-based TetraGraph Quantitative Neuromuscular Monitors: A Pilot Study

Valerie Renkor, University of Iowa Hospitals & Clinics, Iowa City, Iowa

MPDS-07 • PS 38 (1431)

Microbial Contamination of Today's Operating Room Environments

Sheila Riazi, MD, Toronto Western Hospital; University of Toronto, Toronto, Ontario, Canada

MPDS-03 • BS 9 (809)

Predictors of Penetrance of RYR1 Mutations Causing Malignant Hyperthermia

Sabah Rid, MD, Yale School of Medicine, New Haven, Connecticut

MPDS-01 • PED 63 (1115)

Trajectories of Brain Lactate Do Not Contribute to Aerobic Glycolysis Across Childhood

Paul M. Riegelhaupt, MD, PhD, Weill Cornell Medicine, New York, New York

MPDS-05 • AP 11 (1410)

Identification of a Modulatory Site of Action for the Volatile Anesthetic Isoflurane in TREK1 Tandem Pore Potassium Channels

June Rim, MD, New York University Medical Center, New York, New York

MPDS-12 • CA 10 (1162)

Milrinone Attenuates the Cardiomyocyte Apoptosis Induced by Hypoxia

Marsha E. Ritter Jones, MD, PhD, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania

MPDS-01 • PME 54 (1405)

Skin Overexpression of Neurturin Upregulates TNF- α in CFA Inflammation

Amy Robertson, MD, Vanderbilt University Medical Center, Nashville, Tennessee

MPDS-10 • EEP 3 (1316)

A Quantitative Analysis of Learner-Initiated vs. Educator-Driven Feedback

Alison Robles, MD, University of Kentucky College of Medicine, Lexington, Kentucky

MPDS-08 • PED 69 (561)

Neonatal Abstinence Syndrome: Kentucky Children's Hospital's Experience with Outcome Measures and Disposition

Laura R. Rodríguez-Arias, MD, Civil Hospital of Guadalajara, Guadalajara, Mexico

MPDS-09 • NR 28 (1380)

Effect of Intraoperative Intravenous Lidocaine Administration on 6-Month Neurological Outcome after Supratentorial Craniotomy for Tumour Resection under Total Intravenous Anesthesia

Alexa K. Ron, MD, Vanderbilt University Medical Center, Nashville, Tennessee

MPDS-10 • MCC 27 (891)

Perioperative Management of a Jehovah's Witness Burn Patient with Alzheimer's Dementia: A Clinically and Ethically Challenging Case

Eric Rosero, MD, MSc, University of Texas Southwestern Medical Center, Dallas, Texas

MPDS-05 • AMB 1 (777)

Is there a Threshold Age to Select Patients for Ambulatory Abdominal Surgery?

MPDS-05 • AMB 2 (1256)

Finding the Body Mass Index Threshold for Selection of Patients for Ambulatory Open Hernia Repair

IARS 2018 Annual Meeting Abstract Presenters Index, continued

Paul Rostin, MD Candidate, Massachusetts General Hospital, Boston, Massachusetts

MPDS-04 • PA 136 (1308)

Association of Early Post-extubation Desaturation and Adverse Discharge after Surgery

Michael W. Russell, MD, West Virginia University School of Medicine, Morgantown, West Virginia

MPDS-03 • T 60 (590)

Severe Hemorrhagic Shock is Associated with Reduced TEG Maximum Amplitude in Human Traumatic Injury

Wael Saasouh, MD, Detroit Medical Center, Detroit, Michigan

MPDS-13 • TCSEM 134 (1118)

Quantification of Flow-volume Loops Using a Non-invasive Respiratory Volume Monitor

Ali Sabbagh, MD, Detroit Medical Center, Dearborn Heights, Michigan

MPDS-05 • PM 118 (1063)

High Frequency 10,000-Hertz Spinal Cord Stimulation, A Fifty Patient Chart Review At >18 Months

Elena Sadeghian, MD, LMCC, Toronto Western Hospital; University of Toronto, Toronto, Ontario, Canada

MPDS-13 • SM 125 (1298)

Sleep Disturbance in Surgical Patients: Contributing Factors, Prevention and Management

Noboru Saeki, MD, PhD, University Hospital, Hiroshima, Japan

MPDS-11 • AM 71 (993)

Prediction of Prognosis Following Perioperative Dental Injury – Comparison of Anesthesiologists and Dentists

Kyan C. Safavi, MD, MBA, Massachusetts General Hospital; Harvard Medical School, Boston, Massachusetts

MPDS-06 • TCSEM 203 (528)

Feasibility of Using a Remote Monitoring Technology to Build a Consultative Critical Care Service for High Risk Non-ICU Surgical Patients

Junichi Saito, MD, Hirosaki University Hospital, Hirosaki, Japan

MPDS-05 • BLD 16 (781)

Impact of Hemodilutional Autologous Transfusion on Perioperative Allogenic Blood Transfusion in Patients with Gynecological Cancer

Yurie Sakaguchi, MD, University of Fukui Hospital, Fukui, Japan

MPDS-06 • TCSEM 208 (1243)

Noninvasive Monitoring of Ventricular-Arterial Coupling during Non-Cardiac Surgery

Allen Saks, MD, Donald and Barbara Zucker School of Medicine at Hofstra, Lake Success, New York

MPDS-07 • MCC 17 (892)

Case Report: Pre and Perioperative Considerations in a Patient with Cold Temperature-induced Anaphylaxis and Recently Diagnosed Hereditary Angioedema

Robert Sanders, MBBS, PhD, FRCA, University of Wisconsin-Madison, Madison, Wisconsin

MPDS-02 • NR 134 (1137)

Can EEG Metrics Collected Prior to Laryngoscopy Predict Isolated Forearm Test Responsiveness after Laryngoscopy? A Secondary Analysis of the Conscious Study

Ethan L. Sanford, MD, Boston Children's Hospital, Boston, Massachusetts

MPDS-01 • PED 64 (1398)

Intravenous Fluid Administration in Pediatric Patients undergoing Colectomy: Retrospective Analysis

Ashwin Sankar, MD, University of Toronto, Toronto, Ontario, Canada

MPDS-13 • SM 123 (794)

Cost-utility Analysis of Pre-Operative Screening Strategies for Obstructive Sleep Apnea (OSA) Among Patients undergoing Major Elective Non-cardiac Surgery

Teiji Sawa, MD, PhD, Kyoto Prefectural University of Medicine, Kyoto, Japan

MPDS-05 • TCSEM 145 (1261)

Frequency Analysis-linked Poincaré Plot-integrated Score (f-PIS) of the Electroencephalogram during General Anesthesia

Sarah Saxena, MD, Universite Libre de Bruxelles, Brussels, Belgium

MPDS-12 • PA 52 (918)

Gradual Withdrawal of Remifentanyl TCI Delays First Post-operative Analgesic Demand after Thyroid Surgery. A Double-blinded, Randomized Controlled Trial

MPDS-12 • TCSEM 53 (736)

Monitoring of Pulse Pressure Variation Using a New Smartphone Application: A Clinical Decision-Making Study in Patients undergoing Major Abdominal Surgery: Using Invasively Assessed Stroke Volume as the Reference

Michele L. Schaefer, PhD, Johns Hopkins University School of Medicine, Baltimore, Maryland

MPDS-05 • NR 87 (621)

Neonatal Disruption of PSD-95 PDZ Domain-mediated Protein-protein Interactions Alters Dendritic Spine Morphology, Long-term Potentiation, and Causes Deficits in Learning and Memory in Mice

Katie J. Schenning, MD, MPH, Oregon Health & Sciences University, Portland, Oregon

MPDS-09 • NR 26 (1190)

Differential Methylation of Hippocampal DNA three Weeks after Exposure to Surgery and Anesthesia in Aging Mice

Nick Schiavoni, MD, University of Colorado Denver School of Medicine, Aurora, Colorado

MPDS-05 • T 141 (574)

The Development and Implementation of Trauma Anesthesiology Guidelines at a Major Academic Center

Sebastian Schmid, MD, Rechts der Isar Hospital, Munich, Germany

MPDS-05 • GA 60 (669)

A Perioperative Multimodal Therapy Regimen Does Not Reduce Postoperative Complications in Elderly Patients with Hip Fracture: A Prospective, Randomized Trial

Michael P. Schnetz, MD, PhD, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania

MPDS-08 • PA 79 (1310)

The Triple Variable Index Reveals Shared Patterns of Physiology that Broaden the Utility of Common Intraoperative Monitoring Systems to Capture Risk Information Not Identified by Established Models

Kristin Schreiber, MD, PhD, Brigham and Women's Hospital, Boston, Massachusetts

MPDS-06 • PM 159 (758)

The Impact of a Yoga-based Daily Exercise Program on Pain, Sleep, and Stress in Patients with Fibromyalgia

MPDS-06 • RA 160 (757)

Differential Effect of Paravertebral Block Amongst Mastectomy Patients: Phenotyping Using Preoperatively Determined Psychosocial and Psychophysical Characteristics

Aaron Schweitzer, BA, Hospital for Special Surgery, New York, New York

MPDS-06 • RA 196 (656)

Intravenous Dexamethasone for Prolongation of Analgesia Following Suprascapular Brachial Plexus Block for Shoulder Arthroscopy: A Randomized, Controlled, Phase IV Dose-Response Study

Stefan Schwerin, MS, Rechts der Isar Hospital, Munich, Germany

MPDS-12 • NR 44 (1147)

The Volatile Anesthetic Sevoflurane Enhances GABAA Receptor-Mediated Phasic and Tonic Inhibition of Mouse Thalamocortical Relay Neurons

Michael Scott, MD, Virginia Commonwealth University, Richmond, Virginia

MPDS-10 • MCC 26 (872)

Epidural Hematoma in a Pediatric Patient - Perioperative Anesthesiologists Can Make All the Difference: A Case Report

Marjahna Segers, MD, Emory University School of Medicine, Atlanta, Georgia

MPDS-12 • MCC 36 (912)

Hypertrophic Cardiomyopathy, Severe Pre-eclampsia, and Difficult Airway in the Parturient

IARS 2018 Annual Meeting Abstract Presenters Index, continued

Indu M. Sen, MD, Postgraduate Institute of Medical Education and Research, Chandigarh, India

MPDS-07 • LB PED 52 (1522)

Major Non-cardiac Surgeries in Children with Uncorrected Double Outlet Right Ventricle

Mara A. Serbanescu, MD, Johns Hopkins University School of Medicine, Baltimore, Maryland

MPDS-05 • PA 126 (1417)

General Anesthesia Alters Gut Microbiota Diversity and Composition in Mice

Vera A. Sergeeva, MD, Seattle Children's Hospital, Seattle, Washington

MPDS-01 • O 44 (1333)

Effect of Pediatric Obesity Pre-anesthesia Evaluation Guidelines in Anesthetic Complications: A Multidisciplinary Effort

Adam Setren, MD, Thomas Jefferson University Hospital, Philadelphia, Pennsylvania

MPDS-10 • MCC 19 (959)

An Unusual Cause of Extrinsic Airway Compression: Tracheal "Mass" Found Incidentally during Awake Fiberoptic Intubation

Sapan Shah, MD, Columbia University Medical Center, New York, New York

MPDS-03 • AM 28 (1156)

Ultra Low-cost and Minimally Stimulating Method of Relieving Airway Obstruction during MAC

MPDS-03 • MCC 27 (1140)

Anesthetic Management of Quaternary C/S in a Patient with Diffuse, Destructive Malignant Metastatic Lesions

Shagun B. Shah, MBBS, DA, DNB, Rajiv Gandhi Cancer Institute and Research Centre, Delhi, India

MPDS-04 • CA 88 (932)

Cardiac Output Monitoring: A Comparative Prospective Observational Study of the Conventional Cardiac Output Monitor and a New Smartphone-based Application

Christopher Sheerer, DO, Cleveland Clinic Foundation, Cleveland, Ohio

MPDS-02 • NR 132 (771)

The Association between Angiotensin Converting Enzyme Inhibitors and Angiotensin Receptor Blocker Use and the Incidence of Delirium in Surgical ICU Patients

Marc Sherwin, MD, Mount Sinai School of Medicine, New York, New York

MPDS-05 • CC 42 (485)

Preoperative Evaluation Clinic for Day Admission Elective Cardiac Surgical Patients: Benefit to Critical Care Management

Naohiro Shioji, MD, Okayama University Hospital, Okayama, Japan

MPDS-13 • CC 80 (819)

The Relation between Electrical Activity of the Diaphragm Following Extubation and Mechanical Ventilation Time in Patients after Pediatric Cardiac Surgery

Zuhair Siddiqui, MD, MPH, Columbia University College of Physicians and Surgeons, New York, New York

MPDS-07 • MCC 24 (505)

Intraoperative Placement of Prone Femoral Central Venous Catheter in a Patient with Hemorrhagic Cerebral Arteriovenous Malformation

Ahsan K. Siddiqui, MD, King George's Medical University, Lucknow, India

MPDS-08 • LB NR 90 (1458)

Use of Tranexamic Acid to Reduce Intraoperative Bleeding in Craniotomy for Meningioma Patients

Urooj Siddiqui, BMSc, MD, University of Saskatchewan, Saskatoon, Saskatchewan, Canada

MPDS-10 • MCC 16 (798)

Case Report: Erector Spinae Plane Block as a Novel Approach to Acute Post-operative Pain Control Following Shoulder Arthroscopy and Repair

Frederick Sieber, MD, Johns Hopkins Hospital, Baltimore, Maryland

MPDS-02 • GA 107 (785)

Depth of Sedation as an Interventional Target to Reduce Postoperative Delirium: A Randomized Clinical Trial

Karen Singh, MD, University of Virginia School of Medicine, Charlottesville, Virginia

MPDS-11 • PM 123 (546)

Postoperative Intravenous Lidocaine Infusion for Treatment of Pain in Cardiac Surgery Patients

Mandeep Singh, MBBS, MD, MSc, University of Toronto, Toronto, Ontario, Canada

MPDS-11 • PM 126 (1142)

Evaluation of Sleep Health in Interventional Clinical Trials for Patients with Chronic Neuropathic Pain: A Systematic review

MPDS-13 • OB 127 (1282)

The Pattern and Distribution of Body Fluid during Pregnancy: A Systematic Review

MPDS-13 • SM 126 (1265)

Surface Ultrasound as a Screening Tool for Obstructive Sleep Apnea (OSA): A Systemic Review of Literature

Preet Mohinder Singh, MD, All India Institute of Medical Sciences, New Delhi, India

MPDS-04 • AP 69 (592)

Dexamethasone – Efficacy for Prevention of Postoperative Vomiting: An Extensive Meta-analysis Comparing All Available Anti-emetics

Punit Singh, MD, University of Texas Health Science Center at San Antonio, San Antonio, Texas

MPDS-01 • LB CC 82 (1466)

Association of Age and Gender with Postoperative Respiratory Failure

Jamie W. Sinton, MD, Baylor College of Medicine, Houston, Texas

MPDS-06 • PED 178 (608)

Retrospective Review of Indications and Diagnostic Yield of Brain MRI with Anesthesia in Children Fewer Than 3 Years of Age

Matthew M. Skoblar, DO, Geisinger Medical Center, Danville, Pennsylvania

MPDS-03 • MCC 26 (925)

Successful Treatment of Recurrent Chronic Scrotal Pain Secondary to Post Laminectomy Syndrome with Spinal Cord Stimulation

Andrew Slupe, MD, PhD, Oregon Health and Science University, Portland, Oregon

MPDS-03 • NR 35 (1153)

The Pro-apoptotic Protein BAX is Necessary for Neuron Death Associated with Exposure to Isoflurane General Anesthesia in a Neonatal Mouse Model

Christopher T. Smith, MD, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania

MPDS-05 • NR 97 (928)

Midazolam Sedation during the Periodic Experience of Pain Decreases Functional Connectivity Both within and between Brain Systems for Pain Processing and Memory Encoding

James W. Spencer, BS, Washington University School of Medicine in St. Louis, St. Louis, Missouri

MPDS-12 • LB NR 47 (1510)

Recovery of the Posterior Dominant Rhythm in Young Healthy Volunteers Following Isoflurane General Anesthesia

Amanda Spiritos, PA-C, Emory University School of Medicine, Atlanta, Georgia

MPDS-04 • MCC 106 (1148)

Severe Hypoxia and Compartment Syndrome in a Patient with Sickle Cell Trait after Re-do Aortic Valve Replacement

Erin L. Springer, MD, The Johns Hopkins Hospital, Baltimore, Maryland

MPDS-07 • PED 46 (1266)

Enhanced Recovery Pathway for Pediatric Colorectal Surgery: A View on Pain Management

Jaspinder Sra, MD, University of Vermont Medical Center, Burlington, Vermont

MPDS-09 • MCC 20 (1203)

Unilateral Horner Syndrome Following Lumbar Epidural Anesthesia in a Parturient

Srikanth Sridhar, MD, University of Texas Health McGovern Medical School, Houston, Texas

MPDS-04 • PA 124 (709)

Perioperative Hyperglycemia in Kidney Transplant Recipients

IARS 2018 Annual Meeting Abstract Presenters Index, continued

Lakshmi P. Srinivasan, MBBS, DA, Sankara Nethralaya Medical Research Foundation, Chennai, India

MPDS-01 • PED 61 (549)

Morbidity and Mortality in Infants Operated in a Tertiary Eye Care Hospital: A Ten Year Retrospective Study

Ankur Srivastava, MD, Dartmouth Hitchcock Medical Center, Lebanon, New Hampshire

MPDS-12 • MCC 33 (614)

Perioperative Medical Management of Hypertrophic Cardiomyopathy

Benjamin E. Steinberg, MD, PhD, FRCPC, Hospital for Sick Children, Toronto, Ontario, Canada

MPDS-03 • BS 10 (1050)

Therapeutic Targeting of High Mobility Group Box 1 in Rat Models of Pulmonary Hypertension

Michael Stentz, MD, Emory University School of Medicine, Atlanta, Georgia

MPDS-04 • CC 98 (1037)

Trends in the Use of Extracorporeal Membrane Oxygenation in the United States, 2011-2014: An Examination of State-level Billing Data

Jia Liu Stevens, MA(Cantab), MBBS, FRCA, University College London, London, England

MPDS-01 • MPC 35 (786)

The Effects of Major Hepatobiliary Surgery and General Anesthesia on Skeletal Muscle Mitochondrial Respiration: A Pilot Study

Katherine Stiles, MD, The University of Kansas, Kansas City, Kansas

MPDS-03 • OB 42 (619)

Use of Intrathecal Hydromorphone in Elective Cesarean Deliveries

Nicoleta Stoicesa, MD, PhD, The Ohio State University Wexner Medical Center, Columbus, Ohio

MPDS-13 • PA 116 (658)

Perioperative Opioid Consumption and Hemodynamic Variability – Predictors of Postoperative Delirium in Orthopedic Patients

Tracey Straker, MD, MS, MPH, FASA, Montefiore Medical Center, Bronx, New York

MPDS-07 • MCC 27 (682)

The Use of High Flow Nasal Oxygenation in the Anesthetic Management of Tracheal Stent Deployment- A Case Report

Patricia Strutz, MS, Washington University School of Medicine in St. Louis, St. Louis, Missouri

MPDS-13 • PA 119 (1337)

Obstructive Sleep Apnea as an Independent Predictor of Postoperative Delirium and Pain: An Observational Study of a Surgical Cohort

Paul Su, MD, University of California, San Francisco School of Medicine, San Francisco, California

MPDS-02 • PME 144 (1061)

Regulation of Nerve Injury-induced Gene Expression in Neuropathic Pain

Colin Suen, MD, PhD, University of Toronto, Toronto, Ontario, Canada

MPDS-13 • SM 124 (982)

Sleep Study Parameters for Predicting Perioperative Complications in Patients with Obstructive Sleep Apnea: A Review

Kelsey Sullivan, MS, University of Maryland School of Medicine, Baltimore, Maryland

MPDS-05 • T 142 (843)

Mild Traumatic Brain Injury is Not 'Mild' ... Trauma Survivors Tell Their Complicated Stories

Jing Sun, PhD, Chinese Academy of Medical Sciences & Peking Union Medical College, Beijing, China

MPDS-11 • LB EEP 101 (1526)

Consumptions of Opioid Analgesics in China-Problems and Recommendations

Caitlin D. Sutton, MD, Baylor College of Medicine, Houston, Texas

MPDS-07 • MCC 15 (519)

Postoperative Migration of Functioning Epidural Catheter to Intrathecal Space Following Fetoscopic Myelomeningocele Repair: A Case Report

MPDS-07 • MCC 16 (1036)

Loss of Secure Airway after Difficult Intubation in a Patient with Osteogenesis Imperfecta undergoing Cesarean Delivery

Nathan Swallow, MD, New York University School of Medicine, New York, New York

MPDS-10 • LB TCSEM 12 (1492)

Blood Pressure Artifact Identification in Intraoperative Data from Anesthesia Information Management Systems

Daiki Takekawa, MD, Hirosaki University Hospital, Hirosaki, Japan

MPDS-12 • CA 8 (721)

Cerebral and Renal Regional Oxygen Saturation as a Predictor for Acute Kidney Injury and Poor Outcomes in Pediatric Patients after Cardiac Surgery with Cardiopulmonary Bypass

Yoshinori Takemura, MD, PhD, University of Toyama, Toyama, Japan

MPDS-11 • PME 124 (1170)

Temporal Control of Microglial Reactivity Reveals Sex-Independent Functional Contribution of Microglia To Long-Lasting Pain

Jonathan Tan, MD, MPH, The Children's Hospital of Philadelphia, Philadelphia, Pennsylvania

MPDS-01 • PED 62 (945)

Pediatric Difficult Airway Diagnoses Mapping to SNOMED CT Terminology

Chaoliang Tang, MD, Renmin Hospital of Wuhan University, Wuhan, China

MPDS-02 • GA 105 (502)

Dexmedetomidine with Sufentanil in Intravenous Patient-Controlled Analgesia for Relief from Postoperative Pain, Inflammation, and Delirium after Esophageal Cancer Surgery

Jonathan Tang, MD, Ohio State University Wexner Medical Center, Columbus, Ohio

MPDS-08 • MCC 88 (797)

Utilization of Veno-Arterial Extracorporeal Membrane Oxygenation In Acute Massive Pulmonary Embolism: A Case Report

Jared J. Tanner, PhD, University of Florida College of Medicine, Gainesville, Florida

MPDS-02 • NR 137 (1341)

Non-demented Older Adult Brains Show Widespread White Matter Extracellular Free-Water 48 Hours after Total Knee Arthroplasty with General Anesthesia

Jing Tao, MD, Yale New Haven Hospital, New Haven, Connecticut

MPDS-04 • BLD 78 (604)

Safety of Four Factor Prothrombin Complex Concentrates (4F-PCC) for the Reversal of Factor Xa Inhibitors

Sarah Tariq, MD, University of Texas, Texas Medical Center, Houston, Houston, Texas

MPDS-08 • PED 70 (602)

A Comparison of the Incidence of Agitation Scores and Length of PACU Stay in Pediatric Patients with and without Midazolam Premedication for Ear Tube Placement

Norman E. Taylor, MD, PhD, Massachusetts General Hospital, Boston, Massachusetts

MPDS-05 • PME 116 (955)

GABA Neurons in the Rostromedial Tegmental Nucleus Modulate Analgesia in Mice

Niccolo Terrando, PhD, Duke University Medical Center, Durham, North Carolina

MPDS-09 • NR 25 (834)

3D Imaging of Optically Cleared Brain Tissue in a Mouse Model of Perioperative Neurocognitive Disorders

Ahmed M. Thabet, MD, Assiut University, Assiut, Egypt

MPDS-11 • CC 87 (975)

Dexmedetomidine Versus Propofol in Traumatic Brain Injury: Evaluation of Hemodynamic and Intracranial Pressure Changes

Mary C. Theroux, MD, Nemours Alfred I. duPont Hospital for Children, Newark, Delaware

MPDS-13 • PA 118 (759)

Severe tracheal Abnormality Complicating Anesthetic Management in Morquio Patients (MPS IVA) is a Common Finding

IARS 2018 Annual Meeting Abstract Presenters Index, continued

Robert Thiele, MD, University of Virginia School of Medicine, Charlottesville, Virginia

MPDS-04 • CC 100 (1329)

Sepsis Upregulates HIF-1 Independent of Tissue Oxygenation

Jake P. Thomas, MD, Duke University Medical Center, Durham, North Carolina

MPDS-02 • GA 110 (1396)

Changes in Cerebrospinal Fluid Leukocyte Levels in Patients before and after Surgery Using an Optimized Polychromatic Flow Cytometry Panel

Catherine D. Tobin, MD, Medical University of South Carolina, Charleston, South Carolina

MPDS-09 • GH 12 (1119)

Pilot Study of Online Train the Trainer for Ebola

Carla Todaro, MD, Toronto Western Hospital, Toronto, Ontario, Canada

MPDS-05 • AMB 9 (1086)

Best Practice to Conduct Saddle Block for Perianal Ambulatory Patient in Term of Effective Low Dose of Spinal Local Anesthetic Injection

Paloma Toledo, MD, MPH, Northwestern University Feinberg School of Medicine, Chicago, Illinois

MPDS-05 • EEP 55 (1382)

The Status of Women in Academic Anesthesiology: A Ten-year Update

Emma R. Trammel, BS, Washington University School of Medicine in St. Louis, St. Louis, Missouri

MPDS-10 • NR 36 (1436)

Resting-State Functional Connectivity as a Marker of Delirium in Postoperative Cardiac Patients

Lieu T. Tran, MD, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania

MPDS-05 • PA 25 (594)

Assessing Risk Factors for Challenging Pain Control in Patients undergoing Major Abdominal Surgery with Enhanced Recovery after Surgery Program

Minh H. Tran, MBBS, FANZCA, University of San Diego California School of Medicine, San Diego, California

MPDS-13 • PA 114 (541)

The Effects of Intraoperative Hypothermia on Surgical Site Infections in Thoracic Surgical Patients

James Tse, PhD, MD, Rutgers Robert Wood Johnson Medical School, New Brunswick, New Jersey

MPDS-11 • LB AM 74 (1494)

A Novel Modified Nasal PAP Mask Assembly Provided Pressure-Controlled Ventilation/Oxygenation in an Obese Patient with OSA and Difficult Airway while Teaching a Medical Student to Perform VL ETI

Huseyin Tunceroglu, MD, Emory University School of Medicine, Atlanta, Georgia

MPDS-02 • RA 116 (601)

Observed Differential Interest in Types of Peripheral Nerve Blocks Based on Country Income Level

Kevin Turezyn, MD, Nemours Alfred I. duPont Hospital for Children, Newark, Delaware

MPDS-11 • AM 72 (875)

Successful Airway Management of Patients with Morquio Syndrome: Are There Useful Predictors?

Sara Twadell, BA, University of Wisconsin-Madison, Madison, Wisconsin

MPDS-02 • NR 136 (1205)

Can National Surgical Quality Improvement Program (NSQIP) Risk Scores Aid in the Prediction of Patients at Risk of Postoperative Delirium? A Preliminary Analysis of the IPOD-B3 Study

Hironobu Ueshima, MD, Showa University Hospital, Tokyo, Japan

MPDS-06 • RA 195 (517)

Anterior Quadratus Lumborum Block Provides More Effective Perioperative Pain Relief for Total Hip Replacement

Panu Uusalo, MD, PhD Candidate, Turku University Hospital, Turku, Finland

MPDS-08 • PED 71 (780)

Pharmacokinetics and Effects of Intranasal Dexmedetomidine in Children under 11 years

William C. Van Cleve, MD, MPH, University of Washington, Seattle, Washington

MPDS-04 • AP 70 (667)

Machine Learning as a Tool for Exploring Potential Anti-Emetic Mechanisms of Propofol Administered during Volatile Anesthesia

Christopher Varga, PhD, University of Florida College of Medicine, Gainesville, Florida

MPDS-03 • BS 11 (1278)

Heat Transfer during Leg Warming with Intermittent Pneumatic Compression

Angelica A. Vargas, MD, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, Illinois

MPDS-01 • L 16 (628)

Predicting Poor Outcomes Following Pediatric Hepatectomy

Terrie Vasilopoulos, PhD, University of Florida, Gainesville, Florida

MPDS-10 • EEP 4 (1428)

Conflict Management Styles in Anesthesiology Residents

Rafael Vazquez, MD, Massachusetts General Hospital, Boston, Massachusetts

MPDS-06 • PM 163 (1059)

Enhanced Recovery after Procedure (ERAP): A Multimodal, Perioperative Analgesia Protocol in the Interventional Radiology (IR) Suite

Lisette Vernooij, Msc, University Medical Center Utrecht, Utrecht, The Netherlands

MPDS-13 • PA 115 (641)

The Added Value of Different Biomarkers to the Revised Cardiac Risk Index to Predict Major Cardiac Events and Overall Mortality after Noncardiac Surgery: A Systematic Review

Domenico Vitarella, PhD, Bonti, Newport Beach, California

MPDS-02 • LB PM 170 (1469)

Development of a Serotype E Botulinum Neurotoxin (EB-001) for Management of Musculoskeletal Pain: A Phase 2 Safety Study in a Mammoplasty Pain Model

Terri Voepel-Lewis, PhD, University of Michigan Medicine, Ann Arbor, Michigan

MPDS-02 • LB PM 168 (1503)

A High Baseline Psycho-Somatic Symptom Profile Predicts Persistent Pain at One Year following Spine Fusion in Children

Effrossyni G. Votta-Velis, MD, PhD, University of Illinois at Chicago, Chicago, Illinois

MPDS-08 • PA 78 (766)

Effect of Lidocaine on Src Kinase Activity in Circulating Tumor Cells Isolated from KPC Mice with Pancreatic Cancer

Eric L. Vu, MD, Baylor College of Medicine; Texas Children's Hospital, Houston, Texas

MPDS-04 • CA 91 (1237)

ST Segment Variability in Coronary Allograft Vasculopathy after Pediatric Heart Transplantation

Gebhard Wagener, MD, Columbia University College of Physicians and Surgeons, New York, New York

MPDS-01 • L 15 (562)

Predicting Postoperative Liver Dysfunction Using Indocyanine Green Clearance after Cardiac Surgery

Christopher Wahal, MD, Duke University Medical Center, Durham, North Carolina

MPDS-07 • PS 37 (1384)

In-house after-hours Coverage Improves Responsiveness of an Inpatient Pain Specialist Service

Amr S. Wahdan, MD, DESA, Cairo University, Cairo, Egypt

MPDS-02 • LB OB 172 (1456)

Epidural Combination of Levobupivacaine and Dexmedetomidine Versus a Levobupivacaine with Fentanyl in Parturients Receiving Epidural Analgesia for Vaginal Delivery: A Comparative and Safety Evaluation

MPDS-02 • LB PM 171 (1455)

Epidural Levobupivacaine Versus a Combination of Levobupivacaine and Dexamethasone in Parturients Receiving Epidural Analgesia for Vaginal Delivery: A Comparative and Safety Evaluation

IARS 2018 Annual Meeting Abstract Presenters Index, continued

Zen' ichiro Wajima, MD, PhD, Tokyo Medical University, Tokyo, Japan

MPDS-06 • TCSEM 205 (713)

Comparisons of the Endobronchial Segment of Left-Sided Double-Lumen Tubes

Jeremy P. Walco, MD, Vanderbilt University Medical Center, Nashville, Tennessee

MPDS-11 • CC 88 (744)

Non-Inferiority of the Integrated Pulmonary Index (IPI) to Address Alarm Fatigue in Low-Acuity Inpatients

Daniel Walsh, MD, Beth Israel Deaconess Medical Center, Boston, Massachusetts

MPDS-11 • CC 89 (871)

Educational Tool to Improve Qualitative Assessment of Left Ventricular Systolic Function by Focused Cardiac Ultrasound

Kelsey M. Walters, BS, Medical College of Wisconsin, Milwaukee, Wisconsin

MPDS-04 • CC 97 (914)

Hydroxocobalamin for Treatment of Bacteria-Induced Vasoplegia: The Magic Bullet for Septic Shock?

Anne Wanaselja, MD, Medical University of South Carolina, Charleston, South Carolina

MPDS-10 • OB 54 (1357)

Post Cesarean Delivery Pain Management in the Setting of Scheduled Multimodal Analgesia Strategies: Comparison of 0.2 mg versus 0.1 mg Intrathecal Morphine

Hanjun Wang, MD, University of Nebraska Medical Center, Omaha, Nebraska

MPDS-02 • PME 142 (994)

Muscle Sensory Dysfunction in a Rat Model of Peripheral Arterial Disease: The Role of Microglial Activation in Chronic Limb Pain

Man-Ling Wang, MD, National Taiwan University Hospital, Taipei, Taiwan

MPDS-09 • RA 47 (1009)

Successful Management of 73 Patients for Total Knee Arthroplasty Using a Combination of Ultrasound-Guided Nerve Block and Targeted Sedation

Michael H. Ward, BS Candidate, St. George's University of London, London, England

MPDS-05 • LB EEP 56 (1462)

Barriers Opposing Completion and Documentation of a Structured Intraoperative Handover

Mark A. Wefers Bettink, MD, Erasmus University Medical Center, Rotterdam, The Netherlands

MPDS-05 • TCSEM 132 (556)

Non-invasive Measurement of Mitochondrial Oxygenation and Respiration in Human Endotoxemia and Sepsis

Nicholas West, MSc, The University of British Columbia, Vancouver, British Columbia, Canada

MPDS-05 • TCSEM 133 (727)

Agreement of a Zero-Heat-Flux Core Temperature System with Measurements Obtained from Nasal and Oral Temperature Probes during General Anesthesia

Catharina Westphal, MS, Rechts der Isar Hospital, Munich, Germany

MPDS-05 • AP 6 (1101)

The Effects of Dexmedetomidine on Hyperpolarization-Activated Cyclic Nucleotide-gated (HCN) Channels in Mouse Thalamocortical Neurons

Elizabeth L. Whitlock, MD, MSc, University of California, San Francisco School of Medicine, San Francisco, California

MPDS-06 • PS 213 (1146)

Derivation, Validation, and Sustained Performance of a Hospital-Wide Elective Surgery Delirium Risk Tool (AWOL-S)

MPDS-06 • GA 214 (1386)

Cognitive Change after Cardiac Surgery or Cardiac Catheterization: An Epidemiological Study

Michael L. Whitworth, MD, West Florida Pain Management PA, Saint Petersburg, Florida

MPDS-11 • PM 125 (859)

US Pain Clinic Ethical and Legal Misadventures 2017

Simon D. Whyte, MBBS, FRCA, FRCPC, The University of British Columbia, Vancouver, British Columbia, Canada

MPDS-08 • PED 63 (1211)

The Effects of Dexmedetomidine on Myocardial Repolarization in Children undergoing General Anesthesia: A Randomized Controlled Trial

Matthew Wiekping, MB BMedSc BAO BCH (Hons), Emory University School of Medicine, Atlanta, Georgia

MPDS-04 • MCC 107 (1191)

Eastern Equine Encephalitis: A Dangerous Dark Horse in Organ Transplantation

Margaret Wiggins, BS, University of Florida College of Medicine, Gainesville, Florida

MPDS-10 • NR 35 (1292)

Atrial Fibrillation Patients have Unique Regional Leukoaraiaosis and Cognitive Profiles Relative to Non-Atrial Fibrillation Peers

Duminda N. Wijesundera, MD, PhD, FRCPC, University of Toronto Faculty of Medicine, Toronto, Ontario, Canada

MPDS-02 • LB PA 161 (1486)

Assessment of Functional Capacity before Major Elective Noncardiac Surgery: An International Multicenter Prospective Cohort Study

Brittney Williams, MD, University of Maryland School of Medicine, Baltimore, Maryland

MPDS-05 • CC 33 (702)

Role of Toll-like Receptor Signaling in Sepsis-induced Coagulopathy in Mice

Robert Williams, MD, University of Vermont, Burlington, Vermont

MPDS-07 • PED 42 (655)

Academic Achievement after Multiple Exposures to Early Childhood Surgery and Anesthesia

Mark Willingham, MD, MSCI, Washington University School of Medicine in St. Louis, St. Louis, Missouri

MPDS-11 • PM 127 (1375)

The Association between Postsurgical Complications and Persistent Postsurgical Pain

Bradley Withers, MD, University of Kentucky College of Medicine, Lexington, Kentucky

MPDS-13 • PED 105 (750)

Retrospective Review of Neonatal Abstinence Syndrome (NAS) Incidences and Drug Classes of Intrauterine Exposures in NICU Admission at Kentucky Children's Hospital: A Comparison between 2011 and 2016

Carolyn Witman, MD, University of Florida College of Medicine, Gainesville, Florida

MPDS-11 • MCC 105 (554)

Severe Refractory Hyperkalemia Secondary to Intestinal Ischemia in a Postsurgical Cardiac Transplant Patient

Derrick Wu, MA, Indiana University School of Medicine, Indianapolis, Indiana

MPDS-12 • PA 63 (796)

Epidural Analgesia in Whipple Patients

Jasper Wylleman, MD, Universitair Ziekenhuis Brussel, Brussel, Belgium

MPDS-08 • PA 82 (1444)

Stroke Volume Assessment by Invasive Arterial Blood Pressure Tracing, SpO2 and Bioreactance: A Comparative Study

Jing Xu, MD, Johns Hopkins University School of Medicine, Baltimore, Maryland

MPDS-03 • NR 34 (1020)

Midazolam Sedation Causes Long-Term Learning Deficiency through Affecting Apoptosis and Proliferation

Satoshi Yamamoto, MD, University of Texas Medical Branch, Galveston, Texas

MPDS-13 • NR 96 (991)

Neuroprotective Effects of Edaravone in a Rapid Stretch Injury Model of In Vitro Traumatic Brain Injury

Suguru Yamamoto, MD, Tokyo Women's University Hospital, Tokyo, Japan

MPDS-12 • MCC 37 (1366)

Respiratory Rate Based Anesthetic Pain Control Provided Sufficient Analgesia on Lower Extremity Surgery under Peripheral Nerve Blocks: A Case Report

IARS 2018 Annual Meeting Abstract Presenters Index, continued

Ning Yang, MD, PhD, Beijing Hospital, Beijing, China
MPDS-03 • OB 46 (571)
Wire Reinforced Epidural Catheters Decrease Complications in Chinese Obstetric Patients

Chetra Yean, MD Candidate, Albert Einstein College of Medicine, Bronx, New York
MPDS-02 • EEP 100 (1154)
Retraction of Anesthesia Publications: A Systematic Review

Unie Yook, DO, University of Texas at Houston, Houston, Texas
MPDS-04 • MCC 108 (1214)
Metastatic Intracardiac Synovial Sarcoma: A Case Report

Tomoko Yorozu, MD, PhD, Kyorin University, School of Medicine, Tokyo, Japan
MPDS-03 • PS 51 (712)
Predictive Factors of the Mechanical Complications of Central Venous Catheterization: A Multivariate Analysis of Case Records over Five Years at a University Hospital

Ian Yuan, MD, The Children's Hospital of Philadelphia, Philadelphia, Pennsylvania
MPDS-06 • PED 183 (613)
Isoelectric EEG Events in Young Children under General Anesthesia

Jennifer Yuan, MD, MBA, Washington University School of Medicine in St. Louis, St. Louis, Missouri
MPDS-07 • GH 8 (1010)
Implementation of a Perioperative Handoff Checklist in a Guatemala City Teaching Hospital

Katherine L. Zaleski, MD, Boston Children's Hospital, Boston, Massachusetts
MPDS-08 • PED 62 (1111)
Elective Extracorporeal Membrane Oxygenation Support for High-risk Pediatric Cardiac Catheterization

Matthew A. Zapf, MD, Vanderbilt University Medical Center, Nashville, Tennessee
MPDS-13 • EEP 136 (1372)
An Analysis of the Utilization of Anesthesia Quality Measures using the Anesthesia Quality Institute's National Anesthesia Clinical Outcomes Registry
MPDS-13 • TCSEM 137 (1377)
Patients Able to Complete an Online Pre-operative Screening Tool are Younger, but have Similar Comorbid Status and Health Literacy

Carine Zeeni, MD, American University of Beirut Medical Center, Beirut, Lebanon
MPDS-01 • O 43 (894)
Dexmedetomidine Versus Morphine for Postoperative Analgesia after Laparoscopic Bariatric Surgery

Yosaf Zeyed, MD, University of Miami/Jackson Memorial Hospital, Miami, Florida
MPDS-01 • MCC 26 (1184)
Arterial Blood Gas from Misplaced Central Venous Catheter: What Do You Do?

Mitchel Y. Zhang, BS, University of Florida College of Medicine, Gainesville, Florida
MPDS-05 • GA 61 (823)
Considerations for Scoring the Clock Drawing Test for Impairment of Geriatric Patients in the Perioperative Setting: A Comparison of Three Common Scoring Criteria

Ray Zhang, MD, University of Washington Medicine, Seattle, Washington
MPDS-11 • MCC 106 (1187)
Intraoperative Pulmonary Thromboembolism Observed Shortly after Thrombin Procoagulant Irrigation during Uncomplicated Minimally Invasive Micro-dissection

Hong Zhao, MD, Peking University People's Hospital, Beijing, China
MPDS-02 • LB PA 162 (1497)
Predictors of Clinical Outcomes for Sacrum Tumor Resection With/Without Intra-aortic Balloon Occlusion: A Retrospective Cohort Study

Zifang Zhao, MS, Peking University, Beijing, China
MPDS-04 • AP 72 (1112)
Different Effects of Midazolam on Hippocampal and Parietal Cortical EEG Activities in Young and Aged Mice
MPDS-04 • AP 73 (1249)
Inverse Agonist of $\alpha 5$ GABAA Receptors Had Preventive But Not Therapeutic Effects on Isoflurane-Induced Memory Impairments in Aged Rats

Wei Zhou, MD, PhD, University of California, San Francisco School of Medicine, San Francisco, California
MPDS-05 • NR 100 (1388)
Activation of Mouse Orexin Neurons Facilitates Anesthesia Emergence and Increases Pain Tolerance

Tim Ziethen, MD, Ochsner Medical Center, New Orleans, Louisiana
MPDS-03 • AM 5 (1104)
Difficult Tracheal Extubation in Adult Surgical Intensive Care

IARS 2018 Annual Meeting Abstract Categories Index

AIRWAY MANAGEMENT	AMBULATORY ANESTHESIA, continued	AMBULATORY ANESTHESIA, continued
Evaluation of Effective Emergency Airway Management for Accidental Extubation in a Patient with Head Fixed in the Prone Position: A Randomized Crossover Manikin Study MPDS-03 • AM 1 (495)	Finding the Body Mass Index Threshold for Selection of Patients for Ambulatory Open Hernia Repair MPDS-05 • AMB 2 (1256)	The Effects of Dexmedetomidine on Hyperpolarization-Activated Cyclic Nucleotide-Gated (HCN) Channels In Mouse Thalamocortical Neurons MPDS-05 • AP 6 (1101)
Lubrication Inhibits the Increase in Cuff Pressure of Endotracheal Tubes during Nitrous Oxide Exposure: A Model Pediatric Trachea Study MPDS-03 • AM 2 (498)	Readmission Rate after Two-Level Lumbar Laminectomy: A Propensity-Matched Cohort Study Comparing Inpatient and Outpatient Settings MPDS-05 • AMB 3 (1195)	Identification of a Modulatory Site of Action for the Volatile Anesthetic Isoflurane in TREK1 Tandem Pore Potassium Channels MPDS-05 • AP 11 (1410)
Prevention of Tracheo-Esophageal Fistula Formation during Percutaneous Tracheostomy MPDS-03 • AM 3 (827)	Diagnosis of Diabetes Mellitus is a Predictor for Graft Failure: A Single Center Retrospective Study MPDS-05 • AMB 4 (1291)	Coagulation Effect of Sugammadex Using Thromboelastography in a Randomized Controlled Study of Surgical Patients MPDS-05 • AP 12 (1429)
A Pilot Study of Radiological Variables to Predict Fiberoptic Intubation in Ankylosing Spondylitis with Cervical Spine Involvement MPDS-03 • AM 4 (1004)	Doxapram for Prevention of Propofol-induced Respiratory Depression in Spontaneously Breathing Patients Undergoing Deep Sedation: A Randomized Double-Blind Placebo Controlled Study MPDS-05 • AMB 7 (938)	Development of a Pharmacokinetic-Pharmacodynamic Model to Characterize the Power Shift of Propofol-Induced Frontal Alpha Rhythm in Elderly Patients: Defining a Composite Dose-response Relationship MPDS-05 • LB AP 64 (1463)
Difficult Tracheal Extubation in Adult Surgical Intensive Care MPDS-03 • AM 5 (1104)	Comparative Effectiveness Of Antiemetics for Prophylaxis of Postdischarge Nausea and Vomiting in Ambulatory Surgical Patients: A Network Meta-analysis MPDS-05 • AMB 8 (964)	Characteristics of Breakthrough Surgical Site Infections (SSIs) in Colorectal Surgery Following the Adherence to the Guideline for SSI MPDS-13 • AP 69 (514)
Airway Audits and Results: What Do We Learn from Them? MPDS-03 • LB AM 6 (1483)	Best Practice to conduct Saddle Block for Perianal Ambulatory Patient in Term of Effective Low Dose of spinal Local Anesthetic Injection MPDS-05 • AMB 9 (1086)	Frequency of Anesthetic Overdose at High Altitude with MAC-Guided Anesthesia MPDS-13 • AP 70 (873)
Ultra Low Cost and Minimally Stimulating Method of Relieving Airway Obstruction during MAC MPDS-03 • AM 28 (1156)	Supraglottic Airway for Endoscopic Sinus Surgery: Comparison with Endotracheal Tube MPDS-05 • AMB 10 (1200)	An in vitro Model for Studying the Cardiotoxicity of New Anesthetics MPDS-13 • AP 71 (1226)
Non-Invasive Ventilation in Perioperative Surgical Patients MPDS-09 • AM 73 (1257)	Anesthetic Pharmacology Dexamethasone – Efficacy for Prevention of Postoperative Vomiting – An extensive Meta-analysis Comparing All Available Anti-emetics MPDS-04 • AP 69 (592)	Variable Length Modifiers in Cysteine Substituted GABAA Receptors as Molecular Rulers for Mapping Anesthetic Binding Sites MPDS-13 • AP 72 (1253)
Naso-Pharyngeal Ventilation as an Alternative to Mask Ventilation during Pre-Oxygenation MPDS-11 • AM 69 (848)	Machine Learning as a Tool for Exploring Potential Anti-Emetic Mechanisms of Propofol Administered during Volatile Anesthesia MPDS-04 • AP 70 (667)	Modulation of Arterial Chemoreflex Control by Dopamine and Droperidol during Severe Arterial Hypoxia in the Rabbit MPDS-13 • AP 73 (1435)
A Preinduction Checklist for the Pediatric Difficult Airway MPDS-11 • AM 70 (1196)	Different Effects of Midazolam on Hippocampal and Parietal Cortical EEG Activities in Young and Aged Mice MPDS-04 • AP 72 (1112)	BENCH SCIENCE
Prediction of Prognosis Following Perioperative Dental Injury: Comparison of Anesthesiologists and Dentists MPDS-11 • AM 71 (993)	Inverse Agonist of $\alpha 5$ GABAA Receptors Had Preventive But Not Therapeutic Effects on Isoflurane- Induced Memory Impairments in Aged Rats MPDS-04 • AP 73 (1249)	Gut Commensal Metabolites Regulate Sterile Lung Inflammation in Mice: A Role for Acetate and Propionate MPDS-01 • BS 78 (516)
Successful Airway Management of Patients with Morquio Syndrome: Are There Useful Predictors? MPDS-11 • AM 72 (875)	Subunit Specificity of Enhancing Actions of the Novel Barbiturate R-mTFD-MPAB, and Etomidate on the Synaptic $\alpha 1\beta 3\gamma 2\text{L}$ GABAA Receptors MPDS-04 • LB AP 74 (1508)	A Novel $\alpha 2$ Agonist Photolabel Reveals a Binding Site for Dexmedetomidine on the $\alpha 2\text{A}$ Adrenergic Receptor MPDS-03 • BS 7 (748)
AMBULATORY ANESTHESIA	Nitrous Oxide As Treatment For Tinnitus: A Randomized Crossover Trial MPDS-05 • AP 5 (956)	Ergodic Mice: Implications of Behavioral State Transitions at Constant Anesthetic Concentration MPDS-03 • BS 8 (1293)
Development of a Novel Clinical Score to Estimate the Risk of Readmission after Ambulatory Surgery (ROAMS) MPDS-03 • LB AMB 55 (1482)		Predictors of Penetrance of RYR1 Mutations Causing Malignant Hyperthermia MPDS-03 • BS 9 (809)
Is There a Threshold Age to Select Patients for Ambulatory Abdominal Surgery? MPDS-05 • AMB 1 (777)		

IARS 2018 Annual Meeting Abstract Categories Index, continued

BENCH SCIENCE, continued

Therapeutic Targeting of High Mobility Group Box 1 in Rat Models of Pulmonary Hypertension
MPDS-03 • BS 10 (1050)

Heat Transfer during Leg Warming with Intermittent Pneumatic Compression
MPDS-03 • BS 11 (1278)

Stochastic Behavioral Transitions: Contributions to Hysteresis
MPDS-03 • BS 12 (1301)

Evidence of a Discrete and Targetable Mitochondrial Defect in the Developing Fragile X Syndrome Brain
MPDS-09 • BS 1 (544)

Signaling in Vascular Endothelium by Varying Degrees of Mechanical Stretch
MPDS-09 • BS 2 (784)

Creating a Model of Anesthetic Sensitivity Using Zebrafish
MPDS-09 • BS 3 (943)

Identification of Abundant and Evolutionarily Conserved Opioid Receptor Circular RNAs, and Their Modulation in the Mouse Nervous System by Chronic Morphine
MPDS-09 • BS 4 (1251)

Altered Fatty Acid Metabolism in Myocardium in A Swine Model of Metabolic Syndrome
MPDS-09 • BS 5 (1295)

BLOOD MANAGEMENT

Safety of Four Factor Prothrombin Complex Concentrates (4F-PCC) for the Reversal of Factor Xa Inhibitors
MPDS-04 • BLD 78 (604)

Verification of Provider Indications for Red Blood Cell Transfusion Therapies: A Retrospective Cohort Study
MPDS-04 • BLD 79 (756)

Impact of Reinforced, Strict Guidelines on the Usage of Packed Red Blood Cells (PRBC)
MPDS-04 • BLD 80 (1042)

Postoperative Tranexamic Acid Infusion Reduces Postoperative Drain Output after Major Spine Surgery: A Retrospective Case-Controlled Study
MPDS-04 • BLD 81 (1120)

Tranexamic Acid Inhibits Plasminogen in Adolescent Scoliosis Surgery: Defining TXA Efficacy and Antifibrinolytic Action
MPDS-04 • LB BLD 83 (1501)

Stored Platelet Number and Function is Not Decreased after Warming and Rapid Infusion
MPDS-05 • BLD 15 (707)

Impact of Hemodilutional Autologous Transfusion on Perioperative Allogenic Blood Transfusion in Patients with Gynecological Cancer
MPDS-05 • BLD 16 (781)

BLOOD MANAGEMENT, continued

Contrasting Effects of Stored Allogeneic Red Blood Cells and Their Supernatants on Permeability and Inflammatory Responses by Human Pulmonary Artery Endothelial Cells
MPDS-05 • BLD 17 (838)

Factor IX from Prothrombin Complex Concentrate Augments Low Tissue Factor-triggered Thrombin Generation – “An Exploratory In Vitro Study”
MPDS-05 • BLD 18 (1348)

Alarming Levels of Carboxyhemoglobin in Banked Blood: An Update Fourteen Years Later
MPDS-05 • LB BLD 20 (1500)

Efficacy of Intraoperative Cell Salvage in Spine Surgery: A Meta-analysis
MPDS-10 • BLD 9 (1199)

CARDIOVASCULAR ANESTHESIOLOGY

Timing of Recombinant Activated Factor Seven Administration in Severe Bleeding Cardiac Surgery Patients Does it Make Difference?
MPDS-01 • CA 1 (484)

The Effect of Aortic Regurgitant Jet Directionality on Energy Loss
MPDS-01 • CA 3 (531)

Phenotyping Anesthesiology Providers for Hypotension Episodes during Coronary Artery Bypass Surgery
MPDS-01 • CA 4 (841)

Intraoperative Blood Pressure Thresholds and Major Adverse Events Following Cardiac Surgery: An Exploratory Analysis
MPDS-01 • CA 5 (1192)

Fatigue and Dyspnea on Exertion in a Patient with Previous Aortic Valve Surgery
MPDS-04 • CA 87 (924)

Cardiac Output Monitoring: A Comparative Prospective Observational Study of the Conventional Cardiac Output Monitor and a New Smartphone Based Application
MPDS-04 • CA 88 (932)

Pulmonary Thrombo-Endarterectomy (PTE) for Chronic Thromboembolic Pulmonary Hypertension (CTEPH): A Single Center 13-Year Report
MPDS-04 • CA 89 (987)

Active Intrathoracic Pressure Regulation: A Novel Non-invasive Device to Improve Hemodynamics after Blood Loss in a Porcine Model of Hemorrhage
MPDS-04 • CA 90 (1058)

ST Segment Variability in Coronary Allograft Vasculopathy after Pediatric Heart Transplantation
MPDS-04 • CA 91 (1237)

CARDIOVASCULAR ANESTHESIOLOGY, continued

The Impact of Hyperoxia on Outcomes after Cardiac Surgery: A Systematic Review
MPDS-04 • CA 92 (720)

Gender Differences in Perioperative Hormonal and Inflammatory Stress Response during Cardiac Surgery: An Exploratory Data Analysis
MPDS-05 • CA 24 (1082)

Energetic Performance Index Improvement after Glenn and Damus-Kaye-Stansel Procedure Using Vector Flow Mapping Analysis
MPDS-05 • CA 26 (814)

Exploratory Approach to Targeting Plasma Cytokines in Experimental Deep Hypothermic Circulatory Arrest in Rats Using Hemoadsorption
MPDS-05 • CA 27 (1241)

The Effects of an IV-Fluid Bolus on the Assessment of Diastolic Function
MPDS-11 • CA 78 (1302)

Repetitive Surgical Procedures in Vascular Patients are Associated with Perioperative Cardiac Events
MPDS-11 • CA 79 (1271)

Impact of Methylprednisolone on the Incidence of Postoperative Complications in Cardiac Surgery Patients
MPDS-11 • CA 80 (1242)

Postoperative Delirium and Hepatic Venous Congestion: A Prospective Study
MPDS-11 • LB CA 81 (1470)

Ultrasound Guided Technique for Internal Jugular Central Venous Catheterization in Pediatric Cardiac Surgical Patients: A Prospective Observational Study
MPDS-12 • CA 7 (567)

Cerebral and Renal Regional Oxygen Saturation as a Predictor for Acute Kidney Injury and Poor Outcomes in Pediatric Patients after Cardiac Surgery with Cardiopulmonary Bypass
MPDS-12 • CA 8 (721)

Cerebral Oximetry and PaCO₂ Correlation in Cardiac Patients Study
MPDS-12 • CA 9 (947)

Milrinone Attenuates the Cardiomyocyte Apoptosis Induced by Hypoxia
MPDS-12 • CA 10 (1162)

CRITICAL CARE

Non-convulsive Status Epilepticus after Coronary Artery Bypass Graft Surgery with and without Concomitant Valve Replacement on Cardiopulmonary Bypass
MPDS-01 • CC 7 (716)

Does Real Time Ultrasonography during Bronchoscopy Guided Percutaneous Tracheostomy Confer any Benefit: A Preliminary, Randomised Controlled Trial
MPDS-01 • CC 8 (723)

IARS 2018 Annual Meeting Abstract Categories Index, continued

CRITICAL CARE, continued

Implementation of a Simulation-Based Training Program for ECMO Complications
MPDS-01 • CC 9 (1385)

Focused Transthoracic Echocardiography and In-hospital Cardiac Arrest: A Case Series of 10 Resident-obtained Echocardiograms in the Peri-Resuscitative Period
MPDS-01 • CC 10 (1258)

The Prognostic Value of Cardiac Power Output in Septic Patients
MPDS-01 • CC 11 (941)

Non-invasive Optical Cerebral Blood Flow and Oxygenation Monitoring in Critically Brain-injured Patients
MPDS-01 • CC 12 (1385)

Hindlimb Muscle Compromise during the Course of Acute Lung Injury in Mice
MPDS-01 • LB CC 79 (1472)

Propofol Impacts Neutrophil Extracellular Trap (NET) Production
MPDS-01 • LB CC 80 (1521)

The Benefits of Using Charge Codes in Perioperative and Critical Care Research
MPDS-01 • LB CC 81 (1468)

Association of Age and Gender with Postoperative Respiratory Failure
MPDS-01 • LB CC 82 (1466)

Severe Myxedema Coma — A Diagnostic Dilemma and Management Challenges
MPDS-01 • CC 83 (620)

Catheter-Associated Urinary Tract Infection in a Low Resource Intensive Care Unit
MPDS-03 • CC 16 (1447)

Association between Mean Arterial Pressure and Acute Kidney Injury and a Composite of Myocardial Injury and Mortality in Postoperative Critically Ill Patients
MPDS-03 • CC 17 (584)

Defining Familial Interactions and Networks (Define): An Exploratory Study on Family Networks and Surrogate Decision Making in the ICU
MPDS-03 • CC 18 (1404)

The Effect of Daily Fluid Balance on Mechanical Ventilation in Subarachnoid Hemorrhage
MPDS-04 • CC 96 (701)

Hydroxocobalamin for Treatment of Bacteria-Induced Vasoplegia: The Magic Bullet for Septic Shock?
MPDS-04 • CC 97 (914)

Trends in the Use of Extracorporeal Membrane Oxygenation in the United States, 2011-2014: An Examination of State-level Billing Data
MPDS-04 • CC 98 (1037)

CRITICAL CARE, continued

Therapeutic Effect of High Molecular Weight Hyaluronic Acid in Polymicrobial Sepsis in Mice
MPDS-04 • CC 99 (1038)

Sepsis Upregulates HIF-1 Independent of Tissue Oxygenation
MPDS-04 • CC 100 (1329)

Noninvasive Venous Waveform Analysis (NIVA) Detects Blood Loss in Human Blood Donors and a Porcine Hemorrhage Model
MPDS-05 • CC 19 (884)

Role of Toll-like Receptor Signaling in Sepsis-induced Coagulopathy in Mice
MPDS-05 • CC 33 (702)

Making ECMO 'Work': Teamwork. An Observational, Qualitative Study into Teams and Teamwork
MPDS-05 • CC 34 (1002)

Intercorporeal 'Knowing' for Extracorporeal Membrane Oxygenation: Constructing and Enacting a Culture of Safety: A Qualitative, Observational Study
MPDS-05 • CC 35 (1003)

Association of Angiotensin II Dose with All-cause Mortality in Patients with Vasodilatory Shock
MPDS-05 • CC 36 (1279)

Association between MAP and Mortality in Vasodilatory Shock at an Academic Medical Center
MPDS-05 • CC 37 (1285)

Preoperative Evaluation Clinic for Day Admission Elective Cardiac Surgical Patients: Benefit to Critical Care Management
MPDS-05 • CC 42 (485)

Dynamic Changes in Plasma Microvesicle Concentrations in *Pseudomonas Aeruginosa* Pneumonia
MPDS-05 • CC 45 (1012)

Using Mean Systemic Filling Pressure and Heart Efficiency to Assess Hemodynamics during Volume Resuscitation in Ovine Septic and Hemorrhagic Shock
MPDS-05 • CC 46 (1171)

Long-Term Outcomes Following Extracorporeal Life Support for Acute Respiratory Failure
MPDS-07 • CC 1 (606)

Acute Respiratory Failure Managed via Interfacility Transport for Extracorporeal Membrane Oxygenation: A Three-year Experience
MPDS-07 • CC 2 (1467)

Clinical Utility of Hemodynamic Transesophageal Echocardiography (hTEE) in the Management of Unstable Cardiothoracic ICU Patients
MPDS-07 • CC 3 (737)

CRITICAL CARE, continued

Hyperacute Catheter-Associated Pulmonary Embolus in the Immediate Postoperative Period Following Spinal Surgery
MPDS-07 • CC 4 (867)

Therapeutic Effects of Hyaluronic Acid Following Lung Injury Induced by *E. coli* Derived Extracellular Vesicles
MPDS-07 • CC 5 (1033)

Low Initial Tissue Oximetry Vascular Occlusion Test Reperfusion Slope is Associated With Mortality in Critically Ill Patients
MPDS-09 • CC 7 (564)

Risks Associated with β -Blocker Discontinuation after Cardiac Surgery
MPDS-09 • CC 8 (668)

Is All Chlorhexidine Bathing Equal? A Comparison of Skin Chlorhexidine Concentration and Bacterial Colonization after Different, Commonly Used, Methods of Chlorhexidine Bathing
MPDS-09 • CC 9 (965)

Boarding of ICU Patients Does Not Impact Mortality in an Academic Health System
MPDS-09 • CC 10 (1206)

Hypothermic Machine Perfusion Utilization and Outcomes for Deceased-Donor Kidneys
MPDS-09 • CC 11 (1313)

Dexmedetomidine vs. Propofol in Traumatic Brain Injury: Evaluation of Hemodynamic and Intracranial Pressure Changes
MPDS-11 • CC 87 (975)

Non-Inferiority of the Integrated Pulmonary Index (IPI) to Address Alarm Fatigue in Low-Acuity Inpatients
MPDS-11 • CC 88 (744)

Educational Tool to Improve Qualitative Assessment of Left Ventricular Systolic Function by Focused Cardiac Ultrasound
MPDS-11 • CC 89 (871)

Predicting Volume Responsiveness by the End-Expiratory Occlusion Test during Phenylephrine Infusion in a Rabbit Model of Hemorrhage
MPDS-11 • CC 90 (1074)

The Modified Early Warning System in Unplanned SICU Admission: An Analysis in 263 Consecutive Patients
MPDS-13 • CC 78 (714)

Decrease in Histidine-Rich Glycoprotein as a Novel Prognostic Biomarker for Sepsis: Multicenter Prospective Observational Study
MPDS-13 • CC 79 (722)

IARS 2018 Annual Meeting Abstract Categories Index, continued

CRITICAL CARE, continued

The Relation between Electrical Activity of the Diaphragm Following Extubation and Mechanical Ventilation Time in Patients after Pediatric Cardiac Surgery
MPDS-13 • CC 80 (819)

Histidine-Rich Glycoprotein as a Novel Biomarker for Sepsis: Subgroup Analysis of the Time-Dependent Change
MPDS-13 • CC 81 (1406)

Utility of DIBI, a Novel Iron Chelator, as Therapeutic Modality for Murine Peritonitis-induced Sepsis
MPDS-13 • CC 82 (1394)

ECONOMICS, EDUCATION AND POLICY

Metacognition Principles in a Didactic TEE Education Program
MPDS-02 • EEP 87 (591)

Building an Academic Anesthesiology Career
MPDS-02 • EEP 88 (810)

Perspective on Leadership and Millennial Physicians
MPDS-02 • EEP 89 (700)

The "Mock OSCE": Preparing Residents for the ABA Objective Structured Clinical Examination
MPDS-02 • EEP 90 (864)

Airing the Dirty Laundry of Medical Practice on the Comedy Television Show *Scrubs*: Reality Television Discussing the Real Issues in Medicine
MPDS-02 • EEP 91 (1403)

The Depiction of Clinical Research Studies on *Grey's Anatomy*: Trailers with Few Clinical Trials but Many Errors
MPDS-02 • EEP 92 (1407)

Effectiveness of a Flipped Classroom Model Compared to a Traditional Format in Anesthesiology Education
MPDS-02 • EEP 96 (899)

Increasing Anesthesia Research Productivity through a 5-year Strategic Planning Process
MPDS-02 • EEP 97 (1116)

The Application of Bayes' Theorem to Justify the Use of a Triple-Phase Bone Scan (TPBS) in Helping Diagnose Complex Regional Pain Syndrome (CRPS) within Select Patient Populations
MPDS-02 • EEP 98 (1122)

Retraction of Anesthesia Publications: A Systematic Review
MPDS-02 • EEP 100 (1154)

Efficacy of Immediate vs. Delayed Feedback Education in Reducing Documentation Errors by Anesthesia Clinicians
MPDS-02 • LB EEP 101 (1487)

Integration of Point-of-Care Ultrasound Training into an Existing Clinical Base Year Rotation: How Much Can Be Done in 4 Weeks?
MPDS-05 • EEP 51 (585)

ECONOMICS, EDUCATION AND POLICY, continued

Effect of Night Float on Anesthesiology Resident Sleep Patterns: An Observational Study
MPDS-05 • EEP 52 (747)

Design and Analysis of the Before-after Study: Assessing the Impact of a New Practice or Policy
MPDS-05 • EEP 53 (874)

The Role of Gender and Body Language on Patient Perception of Physicians
MPDS-05 • EEP 54 (984)

The Status of Women In Academic Anesthesiology: A Ten-Year Update
MPDS-05 • EEP 55 (1382)

Barriers Opposing Completion and Documentation of a Structured Intraoperative Handover
MPDS-05 • LB EEP 56 (1462)

Optimizing the Clinical Anesthesia Year 0 Experience: A Program Director Survey of the Clinical Base Year in Anesthesiology Residency Programs
MPDS-10 • EEP 1 (1049)

Anesthesiology Staff Burnout, Two-Year Study: Causes and Prevention
MPDS-10 • EEP 2 (979)

A Quantitative Analysis of Learner-Initiated vs. Educator-Driven Feedback
MPDS-10 • EEP 3 (1316)

Conflict Management Styles in Anesthesiology Residents
MPDS-10 • EEP 4 (1428)

Novel Recycling Practices in Anesthesiology
MPDS-10 • EEP 5 (1152)

Creation of Cognitive Aids for Malignant Hyperthermia Protocol using Simulation
MPDS-10 • LB EEP 6 (1499)

The Strategy to Improve Compliance with the Joint Commission Standards
MPDS-11 • EEP 96 (856)

Puzzle-Based Ultrasound Education for First-Year Medical Students
MPDS-11 • EEP 97 (1390)

An Anesthetic Attempt to be "Green." How Do You Waste Your CO₂ Absorbers?
MPDS-11 • EEP 98 (1327)

Pilot Survey of Female Anesthesiologists' Childbearing and Parental Leave Experiences
MPDS-11 • EEP 99 (1362)

Delay Associated with Day of Surgery Urine Pregnancy Testing
MPDS-11 • EEP 100 (1073)

ECONOMICS, EDUCATION AND POLICY, continued

Consumptions of Opioid Analgesics in China-Problems and Recommendations
MPDS-11 • LB EEP 101 (1526)

The Impact of Email Communication on Anesthesia Providers' Volume of Pharmaceutical Administration when Notified of Pharmaceutical Cost Change
MPDS-12 • EEP 15 (482)

Assessment of the Preoperative Health Status Based on ASA PS vs. ABCK: A Descriptive Study
MPDS-12 • EEP 16 (815)

Applying Pareto Efficiencies to Different Anesthesia Environments
MPDS-12 • EEP 17 (865)

Differentiating Anesthesiologist Efficiency via Analysis of Non-Operative Time
MPDS-12 • EEP 18 (1079)

Effects on Operation Theatre Efficiency Consequent to Patient Transportation Delays: Causes and Remedial Measures
MPDS-12 • EEP 19 (1144)

An Analysis of the Utilization of Anesthesia Quality Measures using the Anesthesia Quality Institute's National Anesthesia Clinical Outcomes Registry
MPDS-13 • EEP 136 (1372)

GERIATRIC ANESTHESIA

Dexmedetomidine with Sufentanil in Intravenous Patient-Controlled Analgesia for Relief from Postoperative Pain, Inflammation, and Delirium after Esophageal Cancer Surgery
MPDS-02 • GA 105 (502)

Effect of Intubation Duration on Post-Operative Delirium after Cardiac Surgery
MPDS-02 • GA 106 (763)

Depth of Sedation as an Interventional Target to Reduce Postoperative Delirium: A Randomized Clinical Trial
MPDS-02 • GA 107 (785)

Clock Drawing Performance Declines Significantly for Older Adults after Total Knee Arthroplasty and General Anesthesia
MPDS-02 • GA 108 (1260)

Older Adults' Preoperative Cognition and Gray/White Matter Brain Integrity Predict Bispectral Variability during TKA Tourniquet Up to Tourniquet Down
MPDS-02 • GA 109 (1353)

Changes in Cerebrospinal Fluid Leukocyte Levels in Patients before and after Surgery Using an Optimized Polychromatic Flow Cytometry Panel
MPDS-02 • GA 110 (1396)

IARS 2018 Annual Meeting Abstract Categories Index, continued

GERIATRIC ANESTHESIA, continued

A Perioperative Multimodal Therapy Regimen Does Not Reduce Postoperative Complications in Elderly Patients with Hip Fracture: A Prospective, Randomized Trial
MPDS-05 • GA 60 (669)

Considerations for Scoring the Clock Drawing Test for Impairment of Geriatric Patients in the Perioperative Setting: A Comparison of Three Common Scoring Criteria
MPDS-05 • GA 61 (823)

Comparison of the CAM and 3D-CAM in High-risk Surgical Patients
MPDS-05 • GA 62 (1340)

Decreased EEG Alpha/Beta Power during Sevoflurane General Anesthesia Is Associated with Pre-Existing Cognitive Impairment
MPDS-05 • GA 63 (1173)

Cognitive Change after Cardiac Surgery or Cardiac Catheterization: An Epidemiological Study
MPDS-06 • GA 214 (1386)

GLOBAL HEALTH

Longitudinal Assessment of an Integrated Global Anesthesia Elective during Residency Training
MPDS-02 • GH 114 (575)

Addressing the Global Demand for Educational Material with an Online Open-Access, Internet-Based Lecture Repository in Pediatric Anesthesia
MPDS-02 • GH 115 (659)

Using a Mobile App to Collect Data for an International Pediatric Perioperative Outcomes Study: Feasibility Assessment
MPDS-02 • GH 117 (1127)

Impact of the Implementation of a Pediatric Anesthesia Curriculum for Non-Physician Anesthesia Providers in Lilongwe, Malawi
MPDS-07 • GH 7 (523)

Implementation of a Perioperative Handoff Checklist in a Guatemala City Teaching Hospital
MPDS-07 • GH 8 (1010)

The Impact of Access and Resource Deficiencies on Trauma Care in Kenya
MPDS-07 • GH 10 (663)

Establishing a Database for Quality Assessment of Pediatric Surgical Missions
MPDS-07 • GH 11 (755)

Pilot Study of Online Train the Trainer For Ebola
MPDS-09 • GH 12 (1119)

Improving Patient Safety in Low-Income Countries: The Role of the World Health Organisation Checklists
MPDS-12 • GH 20 (1123)

LIVER

Predicting Postoperative Liver Dysfunction Using Indocyanine Green Clearance after Cardiac Surgery
MPDS-01 • L 15 (562)

Predicting Poor Outcomes Following Pediatric Hepatectomy
MPDS-01 • L 16 (628)

The Prolyl Hydroxylase Inhibitor DMOG Inhibits Hepatocyte Proliferation, but Induces Growth Of Non-Parenchymal Cells in a Rat Model In Vivo and In Vitro
MPDS-01 • L 17 (1149)

Novel Insights into a Mitochondrial Immuno-Metabolism Connection Detected by RNA-Sequence Analysis of Experimental Drug-Induced Hepatitis in BALB/c Mice
MPDS-01 • L 18 (1179)

Post Liver Transplant Respiratory Failure: Predictors and Clinical Outcomes
MPDS-01 • LB L 19 (1502)

Terlipressin Infusion during Hepatobiliary Surgery Could Improve Systemic and Splanchnic Hemodynamics and Renal Function: A Double-Blind Randomized Clinical Trial
MPDS-12 • L 61 (657)

MEDICALLY CHALLENGING CASES

Bronchus Transection after Blunt Trauma
MPDS-01 • MCC 24 (551)

Penetrating Atherosclerotic Ulcer of the Ascending Aorta: A Case Report
MPDS-01 • MCC 25 (855)

Arterial Blood Gas from Misplaced Central Venous Catheter: What Do You Do?
MPDS-01 • MCC 26 (1184)

Anesthetic Management of an Adult Patient with Kenny-Caffey Syndrome Type 2
MPDS-01 • MCC 27 (1083)

Anesthetic Considerations for Cesarean Delivery in a Primigravida with Supraventricular Tachycardia without Re-Entrant Features and History of Wolff-Parkinson-White Syndrome with Incomplete Ablation
MPDS-01 • MCC 28 (1234)

Case Report: Novel Use of Thromboelastography to Diagnose Hypercoagulability and Enoxaparin Failure Despite Therapeutic anti-FXa activity in a Patient with Bladder Cancer
MPDS-01 • MCC 29 (1246)

Successful Anesthetic Management of a Patient with Multiple Trauma and Severe Hypothermia: A Case Report
MPDS-01 • MCC 37 (839)

The Anesthetic Management of an Adolescent with Autism Spectrum Disorder and Super-Super Obesity: A Case Report
MPDS-01 • MCC 46 (999)

MEDICALLY CHALLENGING CASES, continued

Anesthetic Challenges of Emergency Gynecological Surgery in a Jehovah's Witness with Fontan Circulation: A Case Report
MPDS-01 • MCC 47 (1217)

Lessons Learned from the Anesthetic Management of a Pediatric Patient with Dandy Walker Syndrome after Multiple Anesthetics
MPDS-02 • MCC 123 (550)

PICC Line Challenge
MPDS-02 • MCC 124 (637)

When Metal is Not Real
MPDS-02 • MCC 125 (1442)

Right Ventricular Assist Device Placement for Acute Right Ventricular Failure after Heart Transplantation: Echocardiographic Guidance throughout the Perioperative Process
MPDS-02 • MCC 126 (673)

Thromboelastography (TEG)-guided Hemodynamic Resuscitation in a Patient with Severe Hemorrhagic Coagulopathy with Acquired Hemophagocytic Lymphohistiocytosis Related to Epstein-Barr Virus
MPDS-02 • MCC 127 (889)

Case Report: The Use of Dexmedetomidine in a Parturient with Multiple Endocrine Neoplasia 2 Undergoing Adrenalectomy and Thyroidectomy
MPDS-03 • MCC 24 (540)

Hemorrhage during Hip Fracture Repair of a Patient with a Large Arterio-Venous Malformation and Hyperhemolysis Syndrome
MPDS-03 • MCC 25 (626)

Successful Treatment of Recurrent Chronic Scrotal Pain Secondary to Post Laminectomy Syndrome with Spinal Cord Stimulation
MPDS-03 • MCC 26 (925)

Anesthetic Management of Quaternary C/S in a Patient with Diffuse, Destructive Malignant Metastatic Lesions
MPDS-03 • MCC 27 (1140)

Compartment Syndrome as a Complication of Invasive Blood Pressure Monitoring in Patients Receiving Catheter Directed Thrombolysis
MPDS-04 • MCC 82 (1157)

VA ECMO FOR Acute Mitral Regurgitation Leading to Aortic Root Thrombus and Subsequent Management
MPDS-04 • MCC 105 (1110)

Severe Hypoxia and Compartment Syndrome in a Patient with Sick Cell Trait after Re-Do Aortic Valve Replacement
MPDS-04 • MCC 106 (1148)

Eastern Equine Encephalitis: A Dangerous Dark Horse in Organ Transplantation
MPDS-04 • MCC 107 (1191)

IARS 2018 Annual Meeting Abstract Categories Index, continued

MEDICALLY CHALLENGING CASES, continued	MEDICALLY CHALLENGING CASES, continued	MEDICALLY CHALLENGING CASES, continued
Metastatic Intracardiac Synovial Sarcoma: A Case Report MPDS-04 • MCC 108 (1214)	A Case Report of Tapia Syndrome in a Patient Following Oral and Maxillofacial Surgery MPDS-05 • MCC 80 (1369)	Utilization of Veno-Arterial Extracorporeal Membrane Oxygenation In Acute Massive Pulmonary Embolism: A Case Report MPDS-08 • MCC 88 (797)
Perioperative Epidural Analgesia as Part of a Multimodal Regimen for Total Hip Arthroplasty in an Opioid-Dependent Sickle Cell Patient MPDS-04 • MCC 109 (1383)	Through-the-wound Intubation in a Patient with Near-Complete Tracheal Transection MPDS-05 • MCC 81 (1244)	An Unexpected Infection: A Case of Neurobrucellosis MPDS-08 • MCC 89 (948)
Toxic Flowers and Aconite Poisoning: A Case of Critical Illness after Chinese Herbal Tea MPDS-04 • MCC 110 (489)	Intraoperative Cardiopulmonary Arrest in a 15-year-old Undergoing Correction of Kyphoscoliosis MPDS-05 • MCC 82 (1030)	Management of Scimitar Syndrome in Two Pregnant Patients MPDS-08 • MCC 87 (949)
New Left Ventricular Failure Following Double Lung Transplantation in a Patient with Severe Pulmonary Hypertension MPDS-04 • MCC 114 (1254)	Neuromodulation for Intractable Neuropathic Pain Caused by Neuromyelitis Optica Involving Spine MPDS-06 • MCC 164 (565)	Should We Pre-emptively Treat Pericarditis Following Penetrating Chest Trauma? MPDS-08 • MCC 88 (985)
New Anterior Mediastinal Mass Discovered Day of Surgery: A Case Report MPDS-04 • MCC 115 (1361)	Postoperative Migration of Functioning Epidural Catheter to Intrathecal Space Following Fetoscopic Myelomeningocele Repair: A Case Report MPDS-07 • MCC 15 (519)	Perioperative Pain Management Emphasizing Peripheral Nerve Blockade in a Homozygous Sickle Cell Disease Patient Undergoing Total Hip Arthroplasty MPDS-08 • MCC 89 (1022)
Itching and Amniotic Fluid Embolism with Circulatory Collapse in a Full Term Pregnant Patient MPDS-04 • MCC 116 (1378)	Loss of Secure Airway after Difficult Intubation in a Patient with Osteogenesis Imperfecta Undergoing Cesarean Delivery MPDS-07 • MCC 16 (1036)	Consider Cardiovascular Anomalies in Differential for an Abnormal Capnogram MPDS-08 • MCC 90 (1068)
Ethical Conflicts in Extracorporeal Membrane Oxygenation: A Case Report MPDS-04 • MCC 117 (1420)	Case Report: Pre- and Peri-operative Considerations in a Patient with Cold temperature Induced Anaphylaxis and Recently Diagnosed Hereditary Angioedema MPDS-07 • MCC 17 (892)	Emergency Exploratory Laparotomy in a Patient with Known Active ST Elevation Myocardial Infarction MPDS-08 • MCC 91 (1087)
Perioperative Management of a Patient with von Gierke Disease Undergoing Hepatic Surgery MPDS-04 • MCC 118 (1421)	Current Cognitive Impairment in a Patient with a History of Delirium: A Preoperative Dilemma MPDS-07 • MCC 20 (1422)	Erector Spinae Plane Block for Minimally Invasive Pectus Excavatum Repair: A Case Series MPDS-08 • MCC 92 (1092)
Perioperative Management of Orthotopic Liver Transplant for Intrahepatic Cholestasis in Sickle Cell Disease MPDS-04 • MCC 119 (552)	Intraoperative Placement of Prone Femoral Central Venous Catheter in a Patient with Hemorrhagic Cerebral Arteriovenous Malformation MPDS-07 • MCC 24 (505)	Cesarean Section and Subsequent Ventriculostomy in a Parturient with Pre-Eclampsia and Obstructive Hydrocephalus: A True Anesthetic Challenge MPDS-09 • MCC 15 (825)
Central Cord Syndrome after Prolonged Fixation in Head Pins: A Case Report MPDS-05 • MCC 69 (507)	Complications Following Lumbar Drain Placement for Thoracic/Thoracoabdominal Aortic Aneurysm Repair: Two Case Reports and Literature Review MPDS-07 • MCC 25 (630)	Perioperative Management of an Adult with Severe Aortic Coarctation Presenting for TEVAR MPDS-09 • MCC 16 (908)
Cervical Myelopathy in a Patient Presenting with Low Back Pain MPDS-05 • MCC 70 (832)	Management of Hypoxia during Centrally Cannulated VA ECMO MPDS-07 • MCC 26 (648)	Management of Severe Fire-related Inhalation Injury with Venovenous Extracorporeal Membrane Oxygenation: A Case Report MPDS-09 • MCC 17 (1080)
Caudal Anesthesia and Natural Airway for Ambulatory Urologic Surgery in Infant with Epidermolysis Bullosa MPDS-05 • MCC 71 (1026)	The Use of High Flow Nasal Oxygenation in the Anesthetic Management of Tracheal Stent Deployment: A Case Report MPDS-07 • MCC 27 (682)	Transesophageal Echocardiography in the Intraoperative Management of Renal Cell Carcinoma with Inferior Vena Cava Thrombus: A Case Report MPDS-09 • MCC 18 (1220)
Unexpected Airway Obstruction Following Mandibular Tumor Resection: Nerve Injury, Muscle Damage or Anesthetic Complication? MPDS-05 • MCC 72 (1218)	Management of an Infant with Artemis Severe Combined Immunodeficiency MPDS-07 • MCC 28 (1109)	Unilateral Horner Syndrome Following Lumbar Epidural Anesthesia in a Parturient MPDS-09 • MCC 20 (1203)
Anesthetic Approach and Management of a Patient with Familial Dysautonomia MPDS-05 • MCC 78 (1360)	Cardiac Tamponade Following Orthotopic Liver Transplantation: Two Case Reports MPDS-08 • MCC 87 (687)	Anesthetic Management of a Patient with Charcot-Marie-Tooth Disease and Previous History of Prolonged Diffuse Muscular Weakness Related to General Anesthesia MPDS-10 • MCC 15 (615)
Case Report: A Novel Nasal PAP Mask Maintained Ventilation and Continuous Active Oxygenation in Patient with a Large Mandibular Sarcoma during a Video-Laryngoscopy Guided Fiberoptic Intubation MPDS-05 • MCC 79 (826)		Case Report: Erector Spinae Plane Block as a Novel Approach to Acute Post-Op Pain Control Following Shoulder Arthroscopy and Repair MPDS-10 • MCC 16 (798)

IARS 2018 Annual Meeting Abstract Categories Index, continued

MEDICALLY CHALLENGING CASES, continued

Death by ECT: An Unfortunate Case of Stress Cardiomyopathy
MPDS-10 • MCC 17 (813)

One Lung Anesthesia for Video-Assisted Thoroscopic Surgery (VATS) in a Patient with Heartmate-2 left Ventricular Assist Device (LVAD)
MPDS-10 • MCC 18 (887)

An Unusual Cause of Extrinsic Airway Compression: Tracheal "Mass" Found Incidentally during Awake Fiberoptic Intubation
MPDS-10 • MCC 19 (959)

Dural Venous Sinus Thrombosis as a Result of Inadvertent Dural Puncture
MPDS-10 • MCC 24 (581)

Familial Dysautonomia and Postural Orthostatic Tachycardia Syndrome – Uncommon Disease and Anesthetic Challenge
MPDS-10 • MCC 25 (817)

Epidural Hematoma in a Pediatric Patient – Perioperative Anesthesiologists Can Make All the Difference: A Case Report
MPDS-10 • MCC 26 (872)

Perioperative Management of a Jehovah's Witness Burn Patient with Alzheimer's Dementia: A Clinically and Ethically Challenging Case
MPDS-10 • MCC 27 (891)

Succinylcholine-Induced Rhabdomyolysis in a Healthy Muscular Male
MPDS-10 • MCC 28 (997)

Severe Refractory Hyperkalemia Secondary to Intestinal Ischemia in a Postsurgical Cardiac Transplant Patient
MPDS-11 • MCC 105 (554)

Intraoperative Pulmonary Thromboembolism Observed Shortly after Thrombin Procoagulant Irrigation during Uncomplicated Minimally Invasive Micro-Dissectomy
MPDS-11 • MCC 106 (1187)

Anesthetic Implications of an Ectopic Pancreas
MPDS-11 • MCC 107 (535)

Epidural Analgesia for Percutaneous Kyphoplasty in a Patient with Multiple Medical Comorbidities
MPDS-11 • MCC 108 (1207)

A Case Report of Perioperative Type B Lactic Acidosis
MPDS-11 • MCC 109 (1290)

Profound Hypertension on Cardiopulmonary Bypass in A Neonate: A New Consideration for the Differential
MPDS-12 • MCC 11 (970)

Dexmedetomidine-induced Intraoperative Polyuria
MPDS-12 • MCC 24 (811)

MEDICALLY CHALLENGING CASES, continued

A Case of Difficult Fiberoptic Intubation in a Pediatric Patient with Occipito-Cervical Spine Fusion
MPDS-12 • MCC 25 (836)

Unusual Intra-Operative Dual Capnography Waveform Pattern in a Patient with Critical Unilateral Pulmonary Artery Stenosis
MPDS-12 • MCC 26 (1071)

Approach to Management of a Patient Presenting with an Aortobronchial Fistula: A Case Report
MPDS-12 • MCC 27 (1183)

Management of a Critical Increase in ICP during an Elective Craniotomy for Aneurysm Clipping: Acute and Occult Subdural Hematoma
MPDS-12 • MCC 28 (1411)

Perioperative Medical Management of Hypertrophic Cardiomyopathy
MPDS-12 • MCC 33 (614)

Double Delivery: Anesthetic Management of Thoracopagus Conjoined Twins Using Spinal and Thoracic Epidural Anesthesia
MPDS-12 • MCC 34 (636)

Wide-Eyed at New Wide Complex Tachycardia: Fast Track from Elective Outpatient to Inpatient Telemetry Unit
MPDS-12 • MCC 35 (935)

Hypertrophic Cardiomyopathy, Severe Pre-eclampsia, and Difficult Airway in the Parturient
MPDS-12 • MCC 36 (912)

Respiratory Rate-based Anesthetic Pain Control Provided Sufficient Analgesia on Lower Extremity Surgery under Peripheral Nerve Blocks: A Case Report
MPDS-12 • MCC 37 (1366)

Acute Allograft Rejection Following Orthotopic Heart Transplantation in a Patient with Peripartum Cardiomyopathy
MPDS-13 • MCC 87 (833)

Post-operative Myocardial Infarction
MPDS-13 • MCC 88 (1011)

A Case of Bleeding while Clotting in a Neonate with Finnish-type Nephrotic Syndrome
MPDS-13 • MCC 89 (1084)

Sticky Situation: A Case Report
MPDS-13 • MCC 90 (1202)

A Rare Case of Intracardiac 'Miscommunication': Diagnosis and Perioperative Management of a Patient with Gerbode's Defect
MPDS-13 • MCC 91 (1345)

METABOLISM AND PERIOPERATIVE CARE

The Effects of Major Hepatobiliary Surgery and General Anesthesia on Skeletal Muscle Mitochondrial Respiration: A Pilot Study
MPDS-01 • MPC 35 (786)

NEUROSCIENCE IN ANESTHESIOLOGY AND PERIOPERATIVE MEDICINE

The Association between Angiotensin Converting Enzyme Inhibitors and Angiotensin Receptor Blocker Use and the Incidence of Delirium in Surgical ICU Patients
MPDS-02 • NR 132 (771)

Auditory Novelty Detection in Awake and Anesthetized States: An Intracranial Electrophysiology Study
MPDS-02 • NR 133 (957)

Can EEG Metrics Collected Prior to Laryngoscopy Predict Isolated Forearm Test Responsiveness after Laryngoscopy? A Secondary Analysis of the Conscious Study
MPDS-02 • NR 134 (1137)

Pain after Craniotomy and the Development of Long-Term Headache after These Procedures: Can We Improve Outcomes?
MPDS-02 • NR 135 (1158)

Can National Surgical Quality Improvement Program (NSQIP) Risk Scores Aid in the Prediction of Patients at Risk of Postoperative Delirium? A Preliminary Analysis of the IPOD-B3 Study
MPDS-02 • NR 136 (1205)

Non-demented Older Adult Brains Show Widespread White Matter Extracellular Free-Water 48 Hours after Total Knee Arthroplasty with General Anesthesia
MPDS-02 • NR 137 (1341)

Sevoflurane Interferes Cell Cycle through Inhibition of Wnt/ β -catenin Signaling Pathway in Mouse Neural Stem Cells
MPDS-03 • NR 33 (840)

Midazolam Sedation Causes Long-Term Learning Deficiency through Affecting Apoptosis and Proliferation
MPDS-03 • NR 34 (1020)

The Pro-apoptotic Protein BAX is Necessary for Neuron Death Associated with Exposure to Isoflurane General Anesthesia in a Neonatal Mouse Model
MPDS-03 • NR 35 (1153)

Discriminative Capacity of EEG Power for the Onset and Severity of Delirium in the Postoperative Period
MPDS-03 • NR 36 (1325)

Sevoflurane and Isoflurane Exposure in Aged Male Mice Leads to Synaptic Alterations in the Hippocampus
MPDS-03 • NR 37 (1400)

Real-Time Treatment of Cerebral Glycopenia after Brain Injury Using Cerebral Microdialysis
MPDS-03 • NR 38 (1438)

IARS 2018 Annual Meeting Abstract Categories Index, continued

NEUROSCIENCE IN ANESTHESIOLOGY AND PERIOPERATIVE MEDICINE, continued	NEUROSCIENCE IN ANESTHESIOLOGY AND PERIOPERATIVE MEDICINE, continued	NEUROSCIENCE IN ANESTHESIOLOGY AND PERIOPERATIVE MEDICINE, continued
Neonatal Disruption of PSD-95 PDZ Domain-mediated Protein-protein Interactions Alters Dendritic Spine Morphology, Long-term Potentiation, and Causes Deficits in Learning and Memory in Mice MPDS-05 • NR 87 (621)	Alpha Power Decreases with Age during Isoflurane Anesthesia MPDS-08 • LB NR 91 (1488)	A Lower Ratio of Alpha and Delta Frequency in the Electroencephalographic Activity during a Surgery Under General Anesthesia is Associated with Low Preoperative Cognitive Performance in Older Patients MPDS-11 • NR 114 (1373)
Non-invasive Optical Quantification of Absolute Cerebral Blood Flow in Adults: Validation Against MRI MPDS-05 • NR 88 (695)	Acute Effects of Total Knee Arthroplasty with General Anesthesia on Functional Brain Networks in Patients with Mild Cognitive Impairment MPDS-08 • LB NR 92 (1516)	Signaling Network between the Dysregulated Expression of MicroRNAs and mRNAs in Propofol-Induced Developmental Neurotoxicity in Mice MPDS-11 • NR 115 (1078)
Preliminary Evidence of Neural Inertia in Human Subjects Undergoing Xenon Anesthesia MPDS-05 • NR 89 (940)	Electroencephalographic Findings and Clinical Behavior during Induction of Anesthesia with Sevoflurane in Infants MPDS-09 • NR 24 (589)	Effects of Metabotropic Glutamate Receptor Blockers on Behavioral Outcome of Ketamine Induced Neonatal Brain Injury in a Rat Model MPDS-11 • NR 116 (1095)
Adolescent Rats Display Long-Lasting Abnormalities in REM Sleep Quantity and Structure after Postnatal Anesthesia MPDS-05 • NR 90 (1039)	3D Imaging of Optically Cleared Brain Tissue in a Mouse Model of Perioperative Neurocognitive Disorders MPDS-09 • NR 25 (834)	Ketamine Prevents Excessive GABAA Receptor Activity in Hippocampal Neurons after General Anesthesia MPDS-11 • NR 117 (503)
Perioperative Trajectory of Alzheimer's Disease Biomarkers in Surgical Patients and Matched Non-surgical Controls MPDS-05 • NR 91 (1057)	Differential Methylation of Hippocampal DNA Three Weeks after Exposure to Surgery and Anesthesia in Aging Mice MPDS-09 • NR 26 (1190)	Ketamine Regulates Cell Cycle in Rat Fetal Neural Stem Progenitor Cells Mediated by the P27/cyclin E- CDK2 Pathway MPDS-11 • NR 118 (1392)
Cognitive Associates of the Digital Clock Drawing Test in Older Adults: Total Clock Time and Pre-First Hand Latency MPDS-05 • NR 92 (1413)	Decreasing Frontal EEG Alpha Power Over Three Surgeries within Seven Months: Accelerated Brain Aging through Progressive Frailty? MPDS-09 • NR 27 (1269)	24-hour Post-treatment with the Noble Gas Argon Provides Robust Neuroprotection and Improvement in Neurologic Outcome after Focal Cerebral Ischemia in Rats MPDS-11 • LB NR 119 (1507)
EEG Alpha/Beta Power Suggests a Neurophysiological Basis for Susceptibility to Burst Suppression MPDS-05 • NR 96 (708)	Effect of Intraoperative Intravenous Lidocaine Administration on 6-Month Neurological Outcome after Supratentorial Craniotomy for Tumour Resection Under Total Intravenous Anesthesia MPDS-09 • NR 28 (1380)	Epigenetic Mechanisms Mediate Multigenerational Effects of Early Life Exposure to Sevoflurane in Rats MPDS-12 • NR 42 (1107)
Midazolam Sedation during the Periodic Experience of Pain Decreases Functional Connectivity Both within and between Brain Systems for Pain Processing and Memory Encoding MPDS-05 • NR 97 (928)	The Association of Cooling during Cardiopulmonary Bypass with Indices of Cerebral Autoregulation MPDS-09 • NR 29 (1389)	Anesthetic Activation of GABAA Receptors in Astrocytes Causes Persistent GABAA Receptor Hyperactivity in Neurons in Mice MPDS-12 • NR 43 (1138)
Power Spectrum and Frontal Alpha Band Activity Saturation Predicts Loss of Response to Verbal Command in Older Adults during Anesthetic Induction with Propofol: A Diagnostic Test Approach MPDS-05 • NR 98 (953)	Behavioral Testing of Neural Inertia in Humans Using Xenon MPDS-10 • NR 33 (931)	The Volatile Anesthetic Sevoflurane Enhances GABAA Receptor-Mediated Phasic and Tonic Inhibition of Mouse Thalamocortical Relay Neurons MPDS-12 • NR 44 (1147)
Ketamine's Antidepressant Effect is Blocked by a μ -Opioid Receptor Antagonist in Humans and Mice MPDS-05 • NR 99 (1077)	Choice of Anesthesia Does Not Increase Seizure Risk from Motor Evoked Potential Stimulation MPDS-10 • NR 34 (1281)	Prolonged Exposure to Sub-Anesthetic Doses of Sevoflurane and Dexmedetomidine Induces Very Modest Brain Cell Apoptosis in Neonatal Rats MPDS-12 • NR 45 (1332)
Activation of Mouse Orexin Neurons Facilitates Anesthesia Emergence and Increases Pain Tolerance MPDS-05 • NR 100 (1388)	Atrial Fibrillation Patients have Unique Regional Leukoaraiosis and Cognitive Profiles Relative to Non-Atrial Fibrillation Peers MPDS-10 • NR 35 (1292)	Exposure to Ketamine Anesthesia Affects Rat Impulsive Behavior MPDS-12 • NR 46 (1414)
Brain Functional Connectivity Changes in Acute Ischemic Stroke Measured with Bedside Diffuse Optical Tomography MPDS-05 • LB NR 101 (1505)	Resting-State Functional Connectivity as a Marker of Delirium in Postoperative Cardiac Patients MPDS-10 • NR 36 (1436)	Recovery of the Posterior Dominant Rhythm in Young Healthy Volunteers Following Isoflurane General Anesthesia MPDS-12 • LB NR 47 (1510)
Optical Neuromonitoring Detects Brain Hypoxia MPDS-05 • NR 136 (1393)	Brain Imaging Markers Linking Inflammation and Delirium Following Cardiac Surgery MPDS-10 • NR 37 (1437)	Neuroprotective Effects of Edaravone in a Rapid Stretch Injury Model of In Vitro Traumatic Brain Injury MPDS-13 • NR 96 (991)
Use of Tranexamic Acid to Reduce Intraoperative Bleeding in Craniotomy for Meningioma Patients MPDS-08 • LB NR 90 (1458)	Imaging the Neural Mechanisms of Consciousness and Anesthesia MPDS-10 • LB NR 38 (1498)	

IARS 2018 Annual Meeting Abstract Categories Index, continued

NEUROSCIENCE IN ANESTHESIOLOGY AND PERIOPERATIVE MEDICINE

Preoperative Thromboelastographic Alterations in Patients with Central Nervous System Neoplasms
MPDS-13 • NR 97 (803)

Pre-existing Inflammation Markedly Exacerbates Cognitive Dysfunction after Anesthesia in Mice
MPDS-13 • NR 99 (886)

OBSIDITY

Apneic Oxygenation with a Nasal Cannula in the Morbidly Obese Patient: A Randomized, Double-Blinded, Placebo-Controlled Trial
MPDS-01 • O 33 (583)

A Novel Modified Nasal PAP Mask Assembly Maintained Spontaneous Ventilation and Oxygenation in a Morbidly Obese Patient with Severe OSA and Asthma during Hysteroscopy and D&C under Spinal Anesthesia
MPDS-01 • O 34 (775)

Paternal BMI Affects Neonatal Weight: A Retrospective Study
MPDS-01 • O 36 (835)

Severity and Duration of Hypoxemia during Outpatient Endoscopy in Obese Patients
MPDS-01 • O 42 (851)

Dexmedetomidine versus Morphine for Postoperative Analgesia after Laparoscopic Bariatric Surgery
MPDS-01 • O 43 (894)

Effect of Pediatric Obesity Pre-Anesthesia Evaluation Guidelines in Anesthetic Complications: A Multidisciplinary Effort
MPDS-01 • O 44 (1333)

The Evaluation of NSAIDs in the Perioperative Period: A Retrospective Analysis of Bariatric Surgery Patients
MPDS-01 • O 45 (1347)

OBSTETRIC ANESTHESIOLOGY

Epidural Combination of Levobupivacaine and Dexmedetomidine vs. a Levobupivacaine with Fentanyl in Parturients Receiving Epidural Analgesia for Vaginal Delivery: A Comparative and Safety Evaluation
MPDS-02 • LB OB 172 (1456)

Use of Intrathecal Hydromorphone in Elective Cesarean Deliveries
MPDS-03 • OB 42 (619)

Assessment of Maternal Peripheral Immune System By Mass Cytometry to Predict the Onset of Labor
MPDS-03 • OB 43 (764)

Do Obstetric Anesthesiologists Provide More Guideline-Concordant Care for Patients Undergoing Cesarean Delivery?
MPDS-03 • OB 44 (1296)

OBSTETRIC ANESTHESIOLOGY, continued

Emotional Burden and Psychophysical Predictors of Labor Pain
MPDS-03 • OB 45 (1434)

Wire Reinforced Epidural Catheters Decrease Complications in Chinese Obstetric Patients
MPDS-03 • OB 46 (571)

Anesthetic Agent May Not Influence Post-Operative Serum Female Hormone in Patients Undergoing Pelvic Surgery Due to Benign Gynecological Diseases
MPDS-05 • OB 105 (572)

Effect of Isoflurane Anesthesia on In Vitro Follicle Growth of Rhesus Monkey
MPDS-05 • OB 106 (573)

Transcutaneous P6 Acupoint Electrical Stimulation Prevents Both Nausea and Vomiting during Elective Cesarean Section under Combined Spinal-Epidural: A Randomized Control Clinical Trial
MPDS-05 • OB 107 (753)

Does the Application of Scopolamine Patch with Intra-operative Acupressure Point P6 Stimulation Increase Parturients' Intra-Cesarean Satisfaction? Prospective Randomized Clinical Trial
MPDS-05 • OB 108 (799)

Comparative Study of Epidural Infusions: Narcotic vs. Non-Narcotic in the Management of Labor Pain
MPDS-05 • OB 109 (634)

National Trends in Post-Dural Puncture Headache and Epidural Blood Patch Placement Following Neuraxial Labor Analgesia/Anesthesia
MPDS-10 • OB 51 (1230)

Efficacy of Patient Choice of Different Postoperative Analgesic Protocols after Cesarean Delivery: A Randomized Prospective Clinical Trial
MPDS-10 • OB 52 (988)

Effect of Intrathecal Bupivacaine Baricity on Parturient Undergoing Cesarean Section: A Randomized Study
MPDS-10 • OB 53 (754)

Post Cesarean Delivery Pain Management in the Setting of Scheduled Multimodal Analgesia Strategies: A Comparison of 0.2 mg vs. 0.1 mg Intrathecal Morphine
MPDS-10 • OB 54 (1357)

The Pattern and Distribution of Body Fluid during Pregnancy: A Systematic Review
MPDS-13 • OB 127 (1282)

PAIN AND ADDICTION PATHWAYS

Are the Patients with Opioid Use Disorder Prone to Relapse to Opioids in the Postoperative Period?
MPDS-01 • PAP 51 (793)

PAIN AND ADDICTION PATHWAYS, continued

Car8 Analgesia Assessed in Morphine Equivalence Using Mechanical Antinociception: Implications for Allometric Dosing and Translation From Mice to Humans
MPDS-01 • PAP 52 (992)

Role of Ketamine Infusion Technique in Addiction Management
MPDS-05 • PAP 110 (1076)

PAIN MECHANISMS

Skin Overexpression of Neurturin Upregulates TNF- α in CFA Inflammation
MPDS-01 • PME 54 (1405)

Gain without Pain: CA8-204 Represents a Novel Analgesic Therapeutic Candidate
MPDS-02 • PME 141 (880)

Muscle Sensory Dysfunction in a Rat Model of Peripheral Arterial Disease: The Role of Microglial Activation in Chronic Limb Pain
MPDS-02 • PME 142 (994)

Individuals with Parkinson's Disease Who Have Primary Executive Impairment are Experience Greater Pain Interference
MPDS-02 • PME 143 (1051)

Regulation of Nerve Injury-induced Gene Expression in Neuropathic Pain
MPDS-02 • PME 144 (1061)

GABA Neurons in the Rostromedial Tegmental Nucleus Modulate Analgesia in Mice
MPDS-05 • PME 116 (955)

Temporal Control of Microglial Reactivity Reveals Sex-Independent Functional Contribution of Microglia to Long-Lasting Pain
MPDS-11 • PME 124 (1170)

PAIN MEDICINE

Role of Pain Specialists in Reducing Healthcare Costs for Patients with Chronic Pain
MPDS-01 • PM 53 (1235)

The Application of Bayes' Theorem for Diagnosing Herniated Nucleus Pulposus (HNP) Based on Physical Exam Findings
MPDS-02 • PM 99 (1397)

A High Baseline Psycho-Somatic Symptom Profile Predicts Persistent Pain at One Year Following Spine Fusion in Children
MPDS-02 • LB PM 168 (1503)

Utilization, Storage, and Disposal of Prescription Opioids Following Urologic Surgery: A Case for Procedure-Specific Opioid Prescriptions and Patient Education
MPDS-02 • LB PM 169 (1460)

IARS 2018 Annual Meeting Abstract Categories Index, continued

PAIN MEDICINE, continued

Development of a Serotype E Botulinum Neurotoxin (EB-001) for Management of Musculoskeletal Pain: A Phase 2 Safety Study in a Mammoplasty Pain Model
MPDS-02 • LB PM 170 (1469)

Epidural Levobupivacaine Versus a Combination of Levobupivacaine and Dexamethasone in Parturients Receiving Epidural Analgesia for Vaginal Delivery: A Comparative and Safety Evaluation
MPDS-02 • LB PM 171 (1455)

A Multimodal Approach to Pain Management for Patients with Chronic Back Pain: Outcome Measures at One Year
MPDS-05 • PM 114 (486)

Systems Change to Improve Utilization of Perioperative Multimodal Analgesia
MPDS-05 • PM 115 (651)

Independent Predictor of Post-Thoracotomy Pain Syndrome: Centralized Pain Characteristics
MPDS-05 • PM 117 (973)

High Frequency 10,000-Hertz Spinal Cord Stimulation, a Fifty Patient Chart Review At >18 Months
MPDS-05 • PM 118 (1063)

The Impact of a Yoga-based Daily Exercise Program on Pain, Sleep, and Stress in Patients with Fibromyalgia
MPDS-06 • PM 159 (758)

Primary Care Provider Attitudes Toward Opioid Prescribing and Patient Satisfaction-Based Incentives
MPDS-06 • PM 161 (769)

Is High-Frequency Heart Rate Variability Index a Marker for the Balance between Analgesia and Nociception during Laparoscopic Cholecystectomy in Adults under General Anesthesia?
MPDS-06 • PM 162 (1054)

Enhanced Recovery after Procedure (ERAP): A Multimodal, Periprocedural Analgesia Protocol in the Interventional Radiology (IR) Suite
MPDS-06 • PM 163 (1059)

Postoperative Intravenous Lidocaine Infusion for Treatment of Pain in Cardiac Surgery Patients
MPDS-11 • PM 123 (546)

US Pain Clinic Ethical and Legal Misadventures 2017
MPDS-11 • PM 125 (859)

Evaluation of Sleep Health in Interventional Clinical Trials for Patients with Chronic Neuropathic Pain: A Systematic Review
MPDS-11 • PM 126 (1142)

The Association between Postsurgical Complications and Persistent Postsurgical Pain
MPDS-11 • PM 127 (1375)

Intravenous Lidocaine for Pain Control after Robotic Prostatectomy
MPDS-13 • PM 98 (802)

PATIENT SAFETY

Prevalence of Burnout among Anesthesia Trainees in South-East Nigeria
MPDS-03 • PS 15 (1159)

Predictive Factors of the Mechanical Complications of Central Venous Catheterization: A Multivariate Analysis of Case Records Over Five Years at a University Hospital
MPDS-03 • PS 51 (712)

Medication Errors in Patients under General Anesthesia: A Systematic Review
MPDS-03 • PS 52 (1134)

Laparoscopic Specimen Bag Designs – Impact on Patient Safety
MPDS-03 • PS 53 (989)

Risk Factors for Opioid Induced Respiratory Depression in Surgical Patients: A Systematic Review and Meta-Analyses of Prospective and Retrospective Studies
MPDS-03 • PS 54 (1222)

Safety of Anesthesia for Percutaneous Endoscopic Gastrostomy in Patients with Amyotrophic Lateral Sclerosis
MPDS-06 • PS 168 (729)

Identifying Risky Practices Related to Perioperative Phenylephrine Infusions: An Audit-based Approach to Link Root Cause Analysis (RCA) to Quality Improvement (QI)
MPDS-06 • PS 169 (878)

Disruptive Intraoperative Behavior: Reporting to Management and Satisfaction with Management's Response
MPDS-06 • PS 170 (958)

Development and Initial Experience of an Anesthesiology Based Team Using Propofol for Gastrointestinal Endoscopies at a Rural Community Hospital: Airway Complications during Colonoscopies
MPDS-06 • PS 171 (696)

Airway Complications Using Different Anesthetic Techniques in Patients Undergoing Esophagogastroduodenoscopic Procedures in a Rural Community Hospital
MPDS-06 • PS 172 (1268)

Burnout in Certified Anesthesiologist Assistants
MPDS-06 • PS 211 (560)

Burnout in Certified Registered Nurse Anesthetists
MPDS-06 • PS 212 (633)

Derivation, Validation, and Sustained Performance of a Hospital-Wide Elective Surgery Delirium Risk Tool (AWOL-S)
MPDS-06 • PS 213 (1146)

Predicting Bilingual Patients' Need for Language Translation during Emergence From Anesthesia
MPDS-07 • PS 33 (1007)

PATIENT SAFETY, continued

Noninvasive Ventilatory Monitoring in Children Following Posterior Spinal Fusion Surgery
MPDS-07 • PS 34 (1060)

Postoperative Reintubations: The Possible Role of Residual Neuromuscular Blockade
MPDS-07 • PS 35 (1245)

Comparison of TOF Ratios with Non-Invasive Minute Ventilation Measurements in Monitoring Residual Neuromuscular Block in the PACU
MPDS-07 • PS 36 (1288)

In-House after-Hours Coverage Improves Responsiveness of an Inpatient Pain Specialist Service
MPDS-07 • PS 37 (1384)

Microbial Contamination of Today's Operating Room Environments
MPDS-07 • PS 38 (1431)

Anaesthesia for MRI: Reflexions for Safety, Hazards, Equipment and Monitoring: A Critical Review of the Literature
MPDS-07 • LB PS 54 (1480)

PEDIATRIC ANESTHESIOLOGY

Perioperative Outcomes and Management in LeFort III Midface Advancement Surgery: A Multicenter Study from the Pediatric Craniofacial Collaborative Group
MPDS-01 • PED 60 (548)

Morbidity and Mortality in Infants Operated in a Tertiary Eye Care Hospital: A Ten-Year Retrospective Study
MPDS-01 • PED 61 (549)

Pediatric Difficult Airway Diagnoses Mapping to SNOMED CT Terminology
MPDS-01 • PED 62 (945)

Trajectories of Brain Lactate Do Not Contribute to Aerobic Glycolysis across Childhood
MPDS-01 • PED 63 (1115)

Intravenous Fluid Administration in Pediatric Patients Undergoing Colectomy: A Retrospective Analysis
MPDS-01 • PED 64 (1398)

Dosing Variation in Pediatric Regional Blockade: A PRAN Database Study
MPDS-01 • PED 65 (1430)

Intraoperative Intravenous Infusion of Lidocaine for Better Postoperative Analgesia in Children Undergoing Laparoscopic Hernia Repair
MPDS-05 • PED 123 (1099)

Comparison of Two Tranexamic Acid Dosage Regimes for Craniostomy Surgery: A Multicenter Randomized Controlled Equivalency Trial
MPDS-05 • PED 125 (1358)

IARS 2018 Annual Meeting Abstract Categories Index, continued

PEDIATRIC ANESTHESIOLOGY, continued

Perioperative Outcomes Comparing High Surgical Volume vs. Low Surgical Volume Centers for Complex Cranial Vault Reconstruction: A Multicenter Study from the Pediatric Craniofacial Collaborative Group
MPDS-06 • PED 177 (542)

Retrospective Review of Indications and Diagnostic Yield of Brain MRI with Anesthesia in Children Fewer than 3 Years of Age
MPDS-06 • PED 178 (608)

PECS 1 Block for Port-a-Cath Insertion or Removal in Children: A Retrospective Review
MPDS-06 • PED 179 (610)

Unplanned Postoperative Intubation in Infant and Neonatal Surgical Patients: Predictors and Associated Mortality
MPDS-06 • PED 180 (1124)

Reducing Postoperative Opioid Use in Children after Adenotonsillectomy
MPDS-06 • PED 181 (1125)

Children and Adults with Univentricular Hearts Score Lower on Full Scale Intelligence Testing Compared to Children with Biventricular Congenital Heart Disease: A Meta-analysis
MPDS-06 • PED 182 (1248)

Isoelectric EEG Events in Young Children under General Anesthesia
MPDS-06 • PED 183 (613)

Laryngo-tracheo-esophageal Clefts: Should We Be Changing Our Management?
MPDS-07 • PED 18 (1113)

Academic Achievement after Multiple Exposures to Early Childhood Surgery and Anesthesia
MPDS-07 • PED 42 (655)

Relationship of Multiple Single Service Anesthesia Exposures and Rate of Quality Events
MPDS-07 • PED 43 (1056)

Relative Efficacy of TIVA and Adjuvant Intraoperative Dexmedetomidine in Reducing Emergence Delirium in Children: A Network Meta-Analysis
MPDS-07 • PED 44 (1189)

Airway Management in Patients with Mucopolysaccharidoses: When Does it Become Difficult?
MPDS-07 • PED 45 (1263)

Enhanced Recovery Pathway for Pediatric Colorectal Surgery: A View on Pain Management
MPDS-07 • PED 46 (1266)

Prediction of Difficult Laryngoscopy in Paediatric Population: Role of Ratio of Patient's Height to Thyromental Distance
MPDS-07 • LB PED 51 (1524)

PEDIATRIC ANESTHESIOLOGY, continued

Major Non-Cardiac Surgeries in Children with Uncorrected Double Outlet Right Ventricle
MPDS-07 • LB PED 52 (1522)

Spinal Anesthesia in High-risk and Premature Infants Presenting for Infraumbilical and Lower Extremity Surgeries Can Reduce Postoperative Apnea and Improve Operating Room Efficiency: A Case Series
MPDS-07 • LB PED 53 (1518)

Differences in Anesthetic Management and Postoperative Narcotic Consumption after a Novel, Fusion-less Adolescent Scoliosis Surgery Compared to Traditional Posterior Spinal Fusion
MPDS-07 • PED 55 (779)

Dexmedetomidine as a Non-Opiate Adjunct to Multimodal Perioperative Pain Control in Pediatric Patients Undergoing Craniofacial Reconstructive Surgery: A Retrospective Study
MPDS-08 • PED 60 (543)

High Dosing of Aminocaproic Acid Associated with Less Blood Loss and Lower D-Dimer Levels in Children Undergoing Major Cranial Vault Reconstruction
MPDS-08 • PED 61 (654)

Elective Extracorporeal Membrane Oxygenation Support for High-risk Pediatric Cardiac Catheterization
MPDS-08 • PED 62 (1111)

The Effects of Dexmedetomidine on Myocardial Repolarization in Children Undergoing General Anesthesia: A Randomized Controlled Trial
MPDS-08 • PED 63 (1211)

Neonatal Abstinence Syndrome: Kentucky Children's Hospital's Experience with Outcome Measures and Disposition
MPDS-08 • PED 69 (561)

A Comparison of the Incidence of Agitation Scores and Length of PACU Stay in Pediatric Patients with and without Midazolam Premedication for Ear Tube Placement
MPDS-08 • PED 70 (602)

Pharmacokinetics and Effects of Intranasal Dexmedetomidine in Children Under 11 Years
MPDS-08 • PED 71 (780)

Follow-up on the EGAIN Study: A Prospective Cohort Study on Impact of Exposure to General Anaesthesia during Infancy on Neurocognitive Development
MPDS-08 • PED 72 (1098)

Comparison of Endotracheal Intubation vs. Natural Airway during Endoscopic Foreign Body Removal
MPDS-09 • PED 33 (845)

Comparison of Endotracheal Intubation vs. Natural Airway during Initial Percutaneous Endoscopic Gastrostomy Insertion
MPDS-09 • PED 34 (847)

PEDIATRIC ANESTHESIOLOGY, continued

A Retrospective Cohort Study of Children with Spinal Muscular Atrophy Type 2 Receiving Anesthesia for Intrathecal Administration of Nusinersen
MPDS-09 • PED 35 (920)

Can Neuraxial Opioids Facilitate Fast-Tracking in Pediatric Cardiac Surgery? A Single-Center Audit in a Children's Hospital
MPDS-09 • PED 36 (1223)

Estimated Blood Loss and Packed Blood Cell Administration during Different Surgical Phases in Pediatric Liver Transplants
MPDS-09 • PED 37 (1368)

The Effects of Dexmedetomidine on Blood Glucose and Serum Potassium Levels in Children Undergoing General Anesthesia: A Randomized Controlled Trial
MPDS-09 • PED 38 (1376)

Retrospective Review of Neonatal Abstinence Syndrome (NAS) Incidences and Drug Classes of Intrauterine Exposures in NICU Admission at Kentucky Children's Hospital: A Comparison between 2011 and 2016
MPDS-13 • PED 105 (750)

A Retrospective Cohort Study of Predictors and Interventions that Influence Cooperation with Pediatric Anesthesia Mask Induction
MPDS-13 • PED 106 (852)

The Incidence of Desaturation during Microlaryngoscopy and Bronchoscopy: A Quality Control Review
MPDS-13 • PED 107 (1231)

Predicting Hypothermia in Pediatric Patients Undergoing MRI under General Anesthesia
MPDS-13 • PED 108 (902)

Identification and Description of the Cephalic Vein in Infants Using Ultrasound: A Pilot Study
MPDS-13 • PED 109 (1402)

PERIOPERATIVE ANESTHESIA

Design of a Tool for Resident Education when Planning Anesthetics for Intracranial Neurosurgical Procedures
MPDS-02 • PA 159 (638)

A Quality Improvement Project to Decrease the Risk of Perioperative Corneal Abrasions
MPDS-02 • PA 160 (680)

Assessment of Functional Capacity Before Major Elective Noncardiac Surgery: An International Multicenter Prospective Cohort Study
MPDS-02 • LB PA 161 (1486)

Predictors of Clinical Outcomes for Sacrum Tumor Resection with/without Intra-aortic Balloon Occlusion: A Retrospective Cohort Study
MPDS-02 • LB PA 162 (1497)

IARS 2018 Annual Meeting Abstract Categories Index, continued

PERIOPERATIVE ANESTHESIA, continued

Multidisciplinary ERAS Approach in Esophagectomy Using a Clinical Care Pathway
MPDS-02 • LB PA 163 (1504)

Evaluation of Initial Aprepitant Use as a Rescue Anti-Emetic in PACU
MPDS-04 • PA 123 (752)

Perioperative Hyperglycemia in Kidney Transplant Recipients
MPDS-04 • PA 124 (709)

Retrospective Cohort Analysis of an Enhanced Recovery Protocol for Colorectal Surgery Patients at North Shore University Hospital
MPDS-04 • PA 125 (849)

Observational Study of Delirium in the Post-Anesthesia Care Unit (PACU) as a Predictor of Subsequent Postoperative Delirium
MPDS-04 • PA 126 (996)

Association between Patient Reported Postoperative Complications and Hospital Readmission
MPDS-04 • PA 127 (1135)

Genetic Predictors of Postoperative Myocardial Injury
MPDS-04 • PA 132 (1239)

Comparison of the Effect of Open Radical Hysterectomy and Laparoscopic Radical Hysterectomy on Postoperative Immune Function and the Incidence of Acute Kidney Injury in Patients with Cervical Cancer
MPDS-04 • PA 133 (837)

Poor Outcomes in Patients on High Doses of Opioids Prior to Surgery - Time for Perioperative Optimization for Pain
MPDS-04 • PA 134 (1085)

Changing Trends in Coagulation Profile of 60 Patients Undergoing CRS with HIPEC in the Perioperative Period
MPDS-04 • PA 135 (1133)

Association of Early Post-Extubation Desaturation and Adverse Discharge after Surgery
MPDS-04 • PA 136 (1308)

Intraoperative Use of Multimodal Monitoring Might Reduce Postoperative Cognitive Dysfunction
MPDS-04 • PA 137 (1326)

Assessing Risk Factors for Challenging Pain Control in Patients Undergoing Major Abdominal Surgery with Enhanced Recovery after Surgery Program
MPDS-05 • PA 25 (594)

Postoperative Nausea and Vomiting Revisited: A Prospective, Observational Cohort Study Assessing Implementation of a Risk-Stratified Approach
MPDS-05 • PA 43 (942)

Cardiac Auscultation through Clothing: The Truth Behind the Taboo
MPDS-05 • PA 124 (1174)

PERIOPERATIVE ANESTHESIA, continued

General Anesthesia Alters Gut Microbiota Diversity and Composition in Mice
MPDS-05 • PA 126 (1417)

Post-Operative Sepsis: What is the Current Picture?
MPDS-05 • PA 127 (1371)

A Strategy to Decreases Turn-Over-Time by Improving Culture in the Operating Room
MPDS-06 • PA 186 (740)

Effect of Dexamethasone on Postoperative Pain Scores in A Resource-Limited Setting: A Randomized Double Blind Placebo Controlled Clinical Trial
MPDS-06 • PA 187 (869)

Postoperative Hypoxemic Events are Independently Associated with Increased Mortality within One Year from the Date of Surgery
MPDS-06 • PA 188 (977)

A Nationwide Study of Dental Injuries in Relation to General Anesthesia
MPDS-06 • PA 189 (1015)

Echocardiographic Assessment Using Subxiphoid-only view (EASy) Compared to Focused Transthoracic Echocardiography (FoTE) in the Perioperative Period: A Multicenter Prospective Study
MPDS-06 • PA 190 (1408)

Quality Improvement Project: Does Pre-procedural General Cognition and Neurocognitive Diagnoses Affect Colonoscopy Preparation in Older Adults?
MPDS-07 • PA 19 (1416)

Effect of Lidocaine on Src Kinase Activity in Circulating Tumor Cells Isolated from KPC Mice with Pancreatic Cancer
MPDS-08 • PA 78 (766)

The Triple Variable Index Reveals Shared Patterns of Physiology that Broaden the Utility of Common Intraoperative Monitoring Systems to Capture Risk Information Not Identified by Established Models
MPDS-08 • PA 79 (1310)

The Risk of Severe Aortic Stenosis in Elective Non-Cardiac Surgery
MPDS-08 • PA 80 (1363)

Impact of ICU Admission on the Perioperative Trajectory of Elderly Surgical Patients
MPDS-08 • PA 81 (1370)

Stroke Volume Assessment by Invasive Arterial Blood Pressure Tracing, SpO2 and Bioreactance: A Comparative Study
MPDS-08 • PA 82 (1444)

Association of Preoperative Anticholinergic Medication Exposure with Postoperative Healthcare Resource Use and Outcomes: A Population-Based Cohort Study
MPDS-09 • PA 19 (555)

PERIOPERATIVE ANESTHESIA, continued

Evaluation of Mobility Assessment Tools for Preoperative Assessment
MPDS-10 • PA 42 (1062)

Can Attending Anesthesiologists Be Effectively Compared Using Patient Satisfaction Ratings?
MPDS-10 • PA 43 (1419)

Echocardiographic Assessment Using Subxiphoid-only view (EASy) Compared to Focused Transthoracic Echocardiography (FoTE): A Multicenter Prospective Study
MPDS-10 • PA 44 (1160)

Addition of Focused Transthoracic Echocardiography (FoTE) Learning into Existing Anesthesiology Residency Training Programs: A Prospective Multicenter Study of Blended Learning
MPDS-10 • PA 45 (1229)

Association of Implementation of Preoperative Cardiac Guidelines and Postoperative Complications in Cadaveric Kidney Transplantation Patients: A Single Center Retrospective Study
MPDS-10 • PA 46 (1328)

Association of Diabetes Mellitus in Postoperative Complications after Hip Surgeries: A Single Center Retrospective Chart Review Study
MPDS-10 • PA 47 (1364)

Intraoperative Albumin Use for Renal Transplant Recipients Offers No Clinical Advantage – Meta-Analysis of Randomized Controlled Trials
MPDS-12 • PA 51 (593)

Gradual Withdrawal of Remifentanyl TCI delays First Post-Operative Analgesic Demand after Thyroid Surgery: A Double-blinded, Randomized Controlled Trial
MPDS-12 • PA 52 (918)

Intraoperative Lidocaine Infusion Reduces Postoperative Pain and Opioid Requirements in Total Pancreatectomy
MPDS-12 • PA 54 (870)

Challenges and Promise of a Preoperative Frailty - Cognitive Vital Sign Protocol
MPDS-12 • PA 55 (1323)

The Effect of Epidural Medication on Blood Loss during Radical Cystectomy
MPDS-12 • PA 56 (1415)

Sudden Cardiac Death Due to Arrhythmia is the Most Frequent Cause of Death in End Stage Renal Disease (ESRD) Undergoing Kidney Transplantation
MPDS-12 • PA 60 (746)

Recent Hemodialysis Prior to Kidney Transplantation is Not Associated with Improved Perioperative Survival
MPDS-12 • PA 62 (808)

Epidural Analgesia in Whipple Patients
MPDS-12 • PA 63 (796)

IARS 2018 Annual Meeting Abstract Categories Index, continued

PERIOPERATIVE ANESTHESIA, continued

A Systematic Review and Meta-Analysis Examining the Impact of Sleep Disturbance on Post-Operative Delirium
MPDS-12 • PA 64 (1169)

The Effects of Intraoperative Hypothermia on Surgical Site Infections in Thoracic Surgical Patients
MPDS-13 • PA 114 (541)

The Added Value of Different Biomarkers to the Revised Cardiac Risk Index to Predict Major Cardiac Events and Overall Mortality after Noncardiac Surgery: A Systematic Review
MPDS-13 • PA 115 (641)

Perioperative Opioid Consumption and Hemodynamic Variability - Predictors of Postoperative Delirium in Orthopedic Patients
MPDS-13 • PA 116 (658)

Ultrasonic Evaluation of Gastric Volume after Fasting for 6 and 8 Hours in Diabetic and Non-diabetic patients Scheduled for Elective Surgery
MPDS-13 • PA 117 (738)

Severe Tracheal Abnormality Complicating Anesthetic Management in Morquio Patients (MPS IVA) is a Common Finding
MPDS-13 • PA 118 (759)

Obstructive Sleep Apnea as an Independent Predictor of Postoperative Delirium and Pain: An Observational Study of a Surgical Cohort
MPDS-13 • PA 119 (1337)

REGIONAL ANESTHESIA

Observed Differential Interest in Types of Peripheral Nerve Blocks Based on Country Income Level
MPDS-02 • RA 116 (601)

Differential Effect of Paravertebral Block Amongst Mastectomy Patients: Phenotyping Using Preoperatively Determined Psychosocial and Psychophysical Characteristics
MPDS-06 • RA 160 (757)

Anterior Quadratus Lumborum Block Provides More Effective Perioperative Pain Relief for Total Hip Replacement
MPDS-06 • RA 195 (517)

Intravenous Dexamethasone for Prolongation of Analgesia Following Supraclavicular Brachial Plexus Block for Shoulder Arthroscopy: A Randomized, Controlled, Phase IV Dose-Response Study
MPDS-06 • RA 196 (656)

Efficacy of Abdominal Peripheral Nerve Block for Surgical Space Condition during Robot-Assisted Laparoscopic Surgery: A Pilot Study
MPDS-06 • RA 197 (774)

Association of Peripheral Nerve Blocks with Postoperative Outcomes in Ambulatory Shoulder Surgery Patients: A Single Center Matched Cohort Study
MPDS-06 • RA 198 (961)

REGIONAL ANESTHESIA, continued

Should Thoracic Paravertebral Blocks be Used to Prevent Chronic Post-surgical Pain Following Breast Cancer Surgery? A Systematic Analysis of Evidence in Light of IMMPACT Recommendations
MPDS-06 • RA 199 (689)

Suprascapular and Interscalene Nerve Block for Shoulder Surgery: A Systematic Review and Meta-Analysis of Analgesic Efficacy and Safety
MPDS-09 • RA 42 (645)

Is Local Anesthetic-Induced Myotoxicity a Real Complication of Regional Anesthesia? A Systematic Review of the Evidence and Empirical Analysis of the Implications
MPDS-09 • RA 43 (688)

The Addition of ACB and IPACK to PAI Enhances Postoperative Pain Control in TKA: A Randomized Controlled Trial
MPDS-09 • RA 44 (742)

Early Experience with 2-Chloroprocaine for Spinal Anesthesia: A Retrospective Analysis at One Institution
MPDS-09 • RA 45 (907)

Use of Ultrasound Guided Quadratus Lumborum Block for Post-Operative Analgesia for Total Hip Arthroplasty: A Retrospective Study
MPDS-09 • RA 46 (1193)

Successful Management of 73 Patients for Total Knee Arthroplasty Using a Combination of Ultrasound-Guided Nerve Block and Targeted Sedation
MPDS-09 • RA 47 (1009)

RESPIRATION

A Lung Protective Ventilation Strategy is not Associated with Reduced Risk of Post-Operative Respiratory Complications in Thoracic Surgical Patients: From the Multicenter Perioperative Outcomes Group
MPDS-12 • RES 2 (881)

Association between Intraoperative Fentanyl Dose and Postoperative Respiratory Complications: A Prespecified Analysis
MPDS-12 • RES 3 (1213)

SLEEP MEDICINE

Is Obstructive Sleep Apnea Associated with Postoperative Delirium and Cognitive Decline?
MPDS-02 • SM 150 (1219)

Neurocognitive Functioning Following CPAP Treatment in Elderly Patients with Obstructive Sleep Apnea: A Meta-analysis of Randomized Controlled Trials
MPDS-02 • SM 151 (676)

Continuous Positive Pressure Therapy Improves Depressive Symptoms in Elderly Individuals with Obstructive Sleep Apnea: A Systematic Review and Meta-analysis
MPDS-02 • SM 152 (767)

SLEEP MEDICINE, continued

Association between Difficult Airway and Obstructive Sleep Apnea in Patients Undergoing Surgery: A Systematic Review and Bayesian Meta-Analysis of Prospective and Retrospective Cohort Studies
MPDS-02 • SM 153 (684)

Risk Factors for Obstructive Sleep Apnea during Pregnancy: A Meta-analysis
MPDS-02 • SM 154 (1166)

STOPBANG Scoring Linked to Respiratory Monitoring: A Preliminary Review of 155,000 Patients
MPDS-12 • SM 4 (1448)

Cost-utility Analysis of Pre-operative Screening Strategies for Obstructive Sleep Apnea (OSA) among Patients Undergoing Major Elective Non-cardiac Surgery
MPDS-13 • SM 123 (794)

Sleep Study Parameters for Predicting Perioperative Complications in Patients with Obstructive Sleep Apnea: A Review
MPDS-13 • SM 124 (982)

Sleep Disturbance in Surgical Patients: Contributing Factors, Prevention and Management
MPDS-13 • SM 125 (1298)

Surface Ultrasound as a Screening Tool for Obstructive Sleep Apnea (OSA): A Systemic Review of Literature
MPDS-13 • SM 126 (1265)

TECHNOLOGY, COMPUTING AND SIMULATION, EQUIPMENT MONITORING

Activity Tracker-Measured Ambulation is an Accurate and Reliable Determinant of Quality of Recovery after Regional Anesthesia Interventions. A Prospective Cohort Validation Study
MPDS-01 • TCSEM 69 (627)

Improving Preoperative Risk Assessment: A Pilot Study Comparing Physician Clinical Judgement with Computer Algorithms
MPDS-01 • TCSEM 70 (1053)

Inter-professional Simulation Based Education in Critical Care Medicine
MPDS-01 • TCSEM 71 (1331)

Perioperative Central Volume Status in Healthy Children and in Children with Congenital Heart Disease
MPDS-01 • TCSEM 72 (1181)

Joint Modeling and the Compensatory Reserve Index: Insight Into Hemodynamic Compensation during the Induction of General Anesthesia
MPDS-01 • TCSEM 73 (1365)

Virtual Reality Use in Adult ICU To Mitigate Anxiety for a Patient on VV ECMO: A Feasibility Trial
MPDS-01 • TCSEM 74 (1126)

Non-invasive Measurement of Mitochondrial Oxygenation and Respiration in Human Endotoxemia and Sepsis
MPDS-05 • TCSEM 132 (556)

IARS 2018 Annual Meeting Abstract Categories Index, continued

TECHNOLOGY, COMPUTING AND SIMULATION EQUIPMENT MONITORING, continued

Agreement of a Zero-Heat-Flux Core Temperature System with Measurements Obtained from Nasal and Oral Temperature Probes during General Anesthesia
MPDS-05 • TCSEM 133 (727)

Diagnostic Accuracy of Point-of-Care Gastric Ultrasound: A Bayesian Analysis
MPDS-05 • TCSEM 134 (795)

Monitoring of Spinal Cord Blood Flow during Orthopedic Surgery in an Ovine Model
MPDS-05 • TCSEM 135 (1215)

Comparison of Pulse Oximeter Readings from Two Locations during Anesthesia
MPDS-05 • TCSEM 137 (995)

Frequency Analysis-Linked Poincaré Plot-Integrated Score (*f*-PIS) of the Electroencephalogram during General Anesthesia
MPDS-05 • TCSEM 145 (1261)

Feasibility of Using a Remote Monitoring Technology to Build a Consultative Critical Care Service for High Risk Non-ICU Surgical Patients
MPDS-06 • TCSEM 203 (528)

The Simulation Wars: A Competition to Increase Participation in Emergency Manuals Simulation Training and a Novel Tool for Rating Simulation Competitions
MPDS-06 • TCSEM 204 (697)

Comparisons of the Endobronchial Segment of Left-Sided Double-Lumen Tubes
MPDS-06 • TCSEM 205 (713)

Anesthesiology Control Tower: Feasibility Assessment to Support Translation (ACTFAST)
MPDS-06 • TCSEM 206 (868)

Automated Feedback Improves Perioperative Treatment of Postoperative Nausea and Vomiting
MPDS-06 • TCSEM 207 (1139)

Noninvasive Monitoring of Ventricular-Arterial Coupling during Non-Cardiac Surgery
MPDS-06 • TCSEM 208 (1243)

PVP Variability during Leg Raise Test to Predict Hypovolemia during Lower Body Negative Pressure
MPDS-10 • TCSEM 7 (510)

Efficacy of Bispectral Index in Reducing Intraoperative Awareness: A Meta-Analysis of Randomized Controlled Studies
MPDS-10 • TCSEM 8 (743)

TECHNOLOGY, COMPUTING AND SIMULATION EQUIPMENT MONITORING, continued

Positive end-Expiratory Pressure-induced Change in external Jugular Venous Pressure Predicts Fluid Responsiveness in Laparoscopic Prostatectomy
MPDS-10 • TCSEM 10 (1013)

A Novel Approach to Evaluating Simulation Scenarios
MPDS-10 • TCSEM 11 (1065)

Blood Pressure Artifact Identification in Intraoperative Data from Anesthesia Information Management Systems
MPDS-10 • LB TCSEM 12 (1492)

Monitoring of Pulse Pressure Variation Using a New Smartphone Application: A Clinical Decision-Making Study in Patients Undergoing Major Abdominal Surgery Using Invasively Assessed Stroke Volume as the Reference
MPDS-12 • TCSEM 53 (736)

Sedation Using Immersive Virtual Reality during Urologic Surgery under Spinal Anesthesia: A Randomized Controlled Trial
MPDS-13 • TCSEM 132 (588)

A Disposable Ready to Use Smart Phone Video Laryngoscope
MPDS-13 • TCSEM 133 (1097)

Quantification of Flow-Volume Loops Using a Non-Invasive Respiratory Volume Monitor
MPDS-13 • TCSEM 134 (1118)

Comparative Investigation of Acceleromyography-based IntelliVue NMT and Electromyography-Based Tetragraph Quantitative Neuromuscular Monitors: A Pilot Study
MPDS-13 • TCSEM 135 (1155)

Patients Able to Complete an Online Pre-Operative Screening Tool are Younger, but Have Similar Comorbid Status and Health Literacy
MPDS-13 • TCSEM 137 (1377)

TRAUMA

Severe Hemorrhagic Shock is Associated with Reduced TEG Maximum Amplitude in Human Traumatic Injury
MPDS-03 • T 60 (590)

Effects of Increased Number of Recorded Hypothermic Time Points in Critically Ill Trauma Patients Requiring Urgent Surgery on Mortality and Length of Stay
MPDS-03 • T 61 (812)

The Relationship between Seasonal Variation and Incidence of Hypothermia Among Critically Ill Trauma Patients Who Require Urgent Operations
MPDS-03 • T 62 (913)

TRAUMA, continued

The Optimum Intravenous Catheter for Massive Transfusions in Trauma: A Pragmatic In Vitro Study
MPDS-03 • T 63 (850)

Cervical Spine Clearance in Patients with Unreliable Clinical Exam: Delays and Complications
MPDS-03 • T 64 (937)

Hemoabsorption Alters Heart and Lung Cytokine Profiles after Cardiac Arrest in Rats
MPDS-05 • T 28 (1240)

The Development and Implementation of Trauma Anesthesiology Guidelines at a Major Academic Center
MPDS-05 • T 141 (574)

Mild Traumatic Brain Injury Is Not 'Mild': Trauma Survivors Tell Their Complicated Stories
MPDS-05 • T 142 (843)

Histone Subunits Disrupt Lung Vascular Endothelial Cell Barrier in Trauma
MPDS-05 • T 143 (1141)

Narcotic Prescribing Practices at Pediatric Trauma Centers in the United States
MPDS-05 • LB TCSEM 146 (1479)

Inhibiting α 5GABAA Receptors Restores Synaptic Plasticity in the Hippocampus after Traumatic Brain Injury in Mice
MPDS-13 • T 100 (1255)

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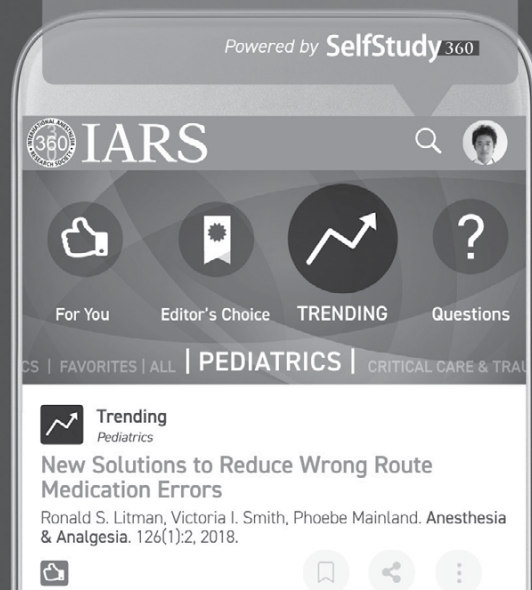
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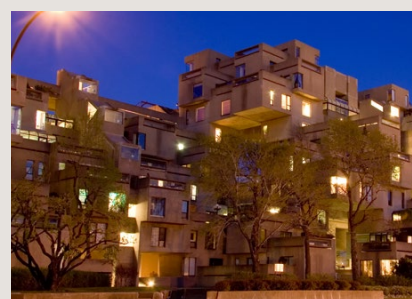
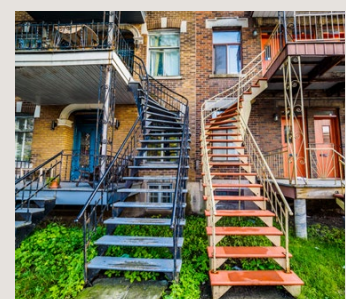
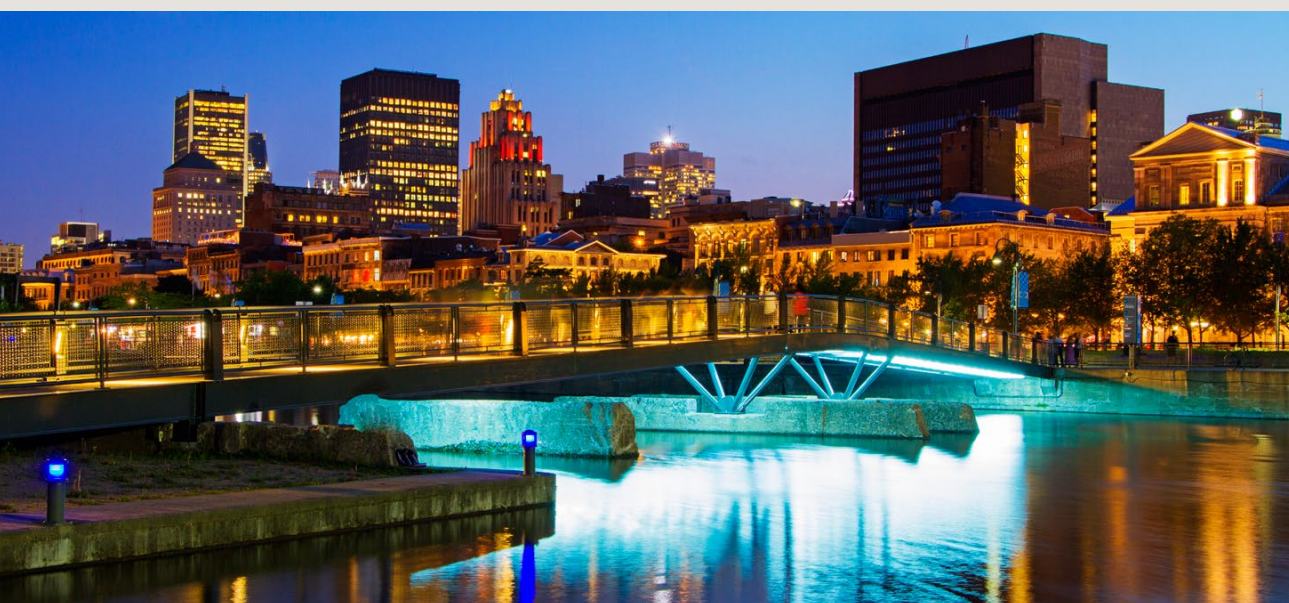
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