

MSA

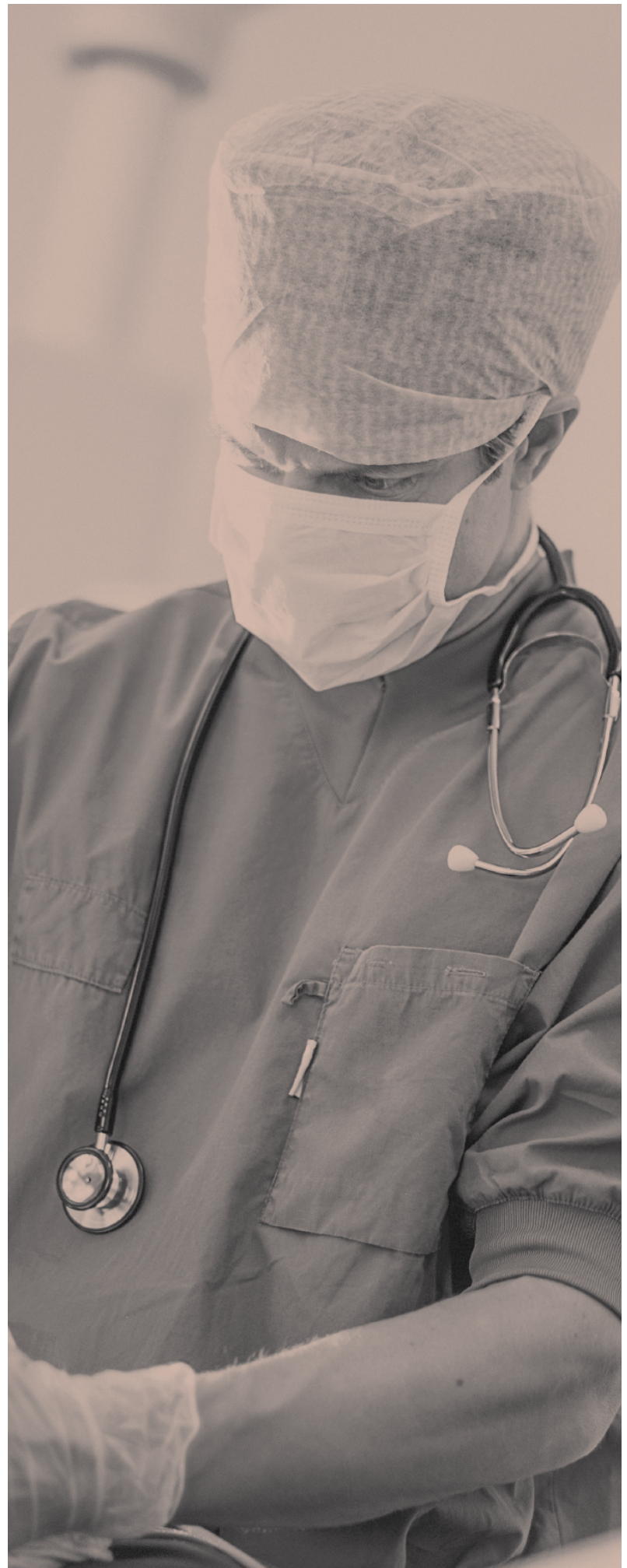
Minnesota Society
of Anesthesiologists

2016
Fall
Conference
*The Cardiopulmonary
System*

November 12, 2016

Intercontinental
St. Paul Riverfront
St. Paul, MN

5.5 AMA PRA Category 1
Credit(s)TM



Welcome

Dear Colleagues,

The cardiopulmonary system is at the very core of our daily practice. Indeed, there are constant improvements in technology and technique that can impact our daily performance of all cases, not just cardiac and thoracic. For our Minnesota Society of Anesthesiologists Fall Meeting on November 12th, we have a full morning program of speakers discussing innovative topics regarding the cardiopulmonary system. In the afternoon, we have heard the requests for more education in ultrasound guided regional anesthesia, and will have a four station interactive workshop on ultrasound for truncal blocks.

Our full slate of speakers on the cardiopulmonary system includes Dr. Trevor Lee, an innovator and expert in high spinal anesthesia for cardiac surgery – a cutting edge and thought provoking topic that is sure to generate interest and discussion. Our second guest lecturer, Dr. Matteo Parotto, will update us regarding optimal ventilation strategies in the operating room. Both of our local speakers will be discussing technologies that have become more widely used in recent years. Dr. Daniela Orza will detail the anesthetic management for transcatheter aortic valve replacement, and Dr. David Barbara will provide guidance on the anesthetic management of patients with ventricular assist devices for noncardiac surgery.

After a refreshing lunch with plenty of opportunity to network with colleagues and interact with exhibitors, we will hold a workshop on ultrasound for truncal anesthesia. Specific techniques will include Pecs 1/2/3, quadratus lumborum, transversalis fascia plane (TFP), traditional/subcostal TAP, rectus sheath, and neuraxial scanning. Four stations of hands-on scanning led by Drs. Jake Hutchins, Adam Amundson, Roberto Blanco, and Emily Sharpe will provide excellent opportunities for honing regional anesthesia skills. As always, the Fall Meeting is sure to be an educational and enjoyable day. I hope you will attend!

Sincerely,



Adam D. Niesen, MD
Chair, MSA Education Committee

Parking: If you are driving to the MSA Fall Conference, please plan to park in either the attached Intercontinental St. Paul Riverfront parking ramp, or the Capitol City ramp off of 4th Street. To validate your parking, please stop at the MSA registration desk in Minnesota Court to receive a voucher. Please remember which parking structure you parked in order to receive the correct voucher.

WiFi Access: Complimentary WiFi access is offered in the meeting space at the MSA Fall Conference. To access the WiFi, simply open your web browser and click on the acceptance button once prompted. No passcode is required.

Agenda

- 7:00 – 7:55am **Registration and Coffee with Exhibitors**
- 7:55 – 8:00am **Welcome Remarks**
Kyle Bohman, MD, MSA Education Committee; Assistant Professor of Anesthesiology, Mayo Clinic
- 8:00- 8:45am **TAVR for the Anesthesiologist**
Daniela Orza, MD, Assistant Professor of Anesthesiology, University of Minnesota
- 8:45 - 9:30am **Mechanical Ventilation in the Operating Room**
Matteo Parotto, MD, Assistant Professor of Anesthesiology, University of Toronto
- 9:30 – 9:45am **Question & Answer Panel Discussion**
- 9:45 - 10:15am **Break**
- 10:15 – 11:00am **LVADs & Non-Cardiac Surgery: What to Do When They Come to Your OR**
David Barbara, MD, Assistant Professor of Anesthesiology, Mayo Clinic
- 11:00 - 11:45am **High Spinal Anesthesia for Cardiac Surgery**
Trevor Lee, MD, FRCPC, FAAPL, CCPE, Associate Professor of Anesthesiology, University of Manitoba
- 11:45 – 12:00pm **Question & Answer Panel Discussion**
- 12:00 – 12:10 **Distinguished Service Award Presentation**
- 12:10 – 12:30 **Legislative Update**
- 12:30 – 1:30pm **Lunch**
- 1:30 – 3:30pm **Ultrasound Guided Truncal Regional Anesthesia Workshop**
- **Ultrasound Guided Pectoralis Blocks**
Jacob Hutchins, MD, BS, University of Minnesota
Aaron Berg, University of Minnesota
 - **Neuraxial Ultrasound**
Emily Sharpe, MD, Mayo Clinic
Hans Sviggum, MD, Mayo Clinic
 - **Quadratus Lumborum Block/Transversalis Fascia Plane**
Roberto Blanco, MD, University of Minnesota
Ramprasad Sripada, MD, University of Minnesota
 - **Traditional/Subcostal TAP, Rectus Sheath**
Adam Amundson, MD, Mayo Clinic
David Olsen, MD, Mayo Clinic

Accreditation



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Minneapolis, MN 55413
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Minnesota Society of Anesthesiologists
2016 Fall Conference
November 12, 2016

It is the policy of the Minnesota Medical Association (MMA) to ensure balance, independence, objectivity, and scientific rigor in its CME activities. To comply with the Standards for Commercial Support of the Accreditation Council for Continuing Medical Education (ACCME), the MMA requires members of the planning committee and faculty to disclose the existence of any financial interest or other relationship he/she and his/her spouse or partner has with companies whose health care products or services are discussed in an educational presentation. The requirement applies to relationships that are in place at the time of the CME activity or in the 12 months preceding the activity.

The following financial relationships were disclosed and have been resolved:

Roberto Blanco, MD

Speakers Bureau: Pacira

Jacob Hutchins, MD

Speakers Bureau: Pacira, Halyard

Research Funding: Pacira

Advisory Board: Pacira, Atricure, Worrell

The remaining members of the faculty and planning committee for this conference have indicated that they have no relevant financial relationships to disclose related to the content of the CME activity.

Faculty members have declared that they will uphold the MMA's standards regarding CME activities and that any clinical recommendations are based on the best available evidence or are consistent with generally accepted medical practice. Please indicate in the comments section of the evaluation form whether you detect any instances of bias toward products manufactured by commercial interests.

CME Credit:

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education through the joint providership of the Minnesota Medical Association and the Minnesota Society of Anesthesiologists. The Minnesota Medical Association (MMA) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Minnesota Medical Association designates these live activities for a maximum of *5.5 AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Learning Objectives

As a result of participation in this CME activity, learners should be able to:

- Identify potentially injurious ventilation strategies in the operating room.
- Identify intraoperative mechanical ventilation strategies which are beneficial for the different patient populations.
- Discuss technique of high spinal anesthesia in cardiac anesthesia.
- Interpret the scientific data on the effects of high spinal anesthesia in cardiac surgery on hemodynamics, early extubation, reduction in postoperative delirium and inflammatory parameters.
- Apply current evidence and expert opinion regarding optimal intraoperative hemodynamic monitoring for LVAD patients undergoing non-cardiac surgery.
- Explain LVAD console parameters and construct a framework to manage intraoperative hemodynamic perturbations based on these parameters.
- Develop an understanding of perioperative anticoagulation management for LVAD patients undergoing non-cardiac surgery.
- Explain advantages and disadvantages of general vs. regional anesthesia for TAVR procedure.
- Discuss latest data on patient outcomes after TAVR procedures and new indications for TAVR procedures.
- Participants will be able to discuss and demonstrate the use of ultrasound for Pec 1, 2, 3 blocks, TAP, TFP and QL blocks, and neuraxial ultrasound.

Upon completion of the following educational activity presentations, the participant should be better able to:

Topic: Mechanical Ventilation in the Operating Room

- Identify potentially injurious mechanical ventilation strategies in the operating room
- Be up to date with the recent evidence on the topic
- Identify mechanical ventilation strategies that could be beneficial for patient outcomes and of easy implementation in routine practice

Topic: LVADs & Non-Cardiac Surgery: What to Do When They Come to Your OR

- Describe the increasing incidence of and reasons for LVAD patients presenting for non-cardiac surgery.
- Comprehend LVAD console parameters and construct a framework to manage intraoperative hemodynamic perturbations based on these parameters.
- Apply current evidence and expert opinion regarding optimal intraoperative hemodynamic monitoring for LVAD patients undergoing non-cardiac surgery.
- Develop an understanding of perioperative anticoagulation management for LVAD patients undergoing non-cardiac surgery.

Topic: High Spinal Anesthesia for Cardiac Surgery

- Describe the anesthetic technique of administration of high spinal anesthesia for cardiac surgery.
- Interpret the scientific data with respect to high spinal anesthesia for cardiac surgery and the effects on hemodynamics, early extubation, reduction of postoperative delirium and inflammatory mediators.
- Interpret the scientific data with respect to high spinal anesthesia and the use in brain-dead organ preservation in an animal model.

Meeting Faculty



David Barbara, MD
Assistant Professor of
Anesthesiology
Mayo Clinic

Dr. David Barbara completed Anesthesiology residency followed by Cardiovascular Anesthesiology and Critical Care Medicine fellowships at Mayo Clinic. He is an Assistant Professor of Anesthesiology, cardiac anesthesiologist, and intensivist at Mayo Clinic, Rochester, MN and divides his clinical practice between the cardiac surgery operating rooms and cardiac surgery intensive care units. With over 40 peer reviewed publications and several book chapters, his research and teaching interests include the perioperative management of LVAD patients. First author publications and abstracts include some of the recent studies on modern generation LVAD patients undergoing various noncardiac operations and procedures. He has spoken nationally and internationally on the topic of perioperative management of the LVAD patient undergoing noncardiac surgery and enjoys teaching noncardiac anesthesiologists about this exciting and highly clinically-relevant topic.



**Trevor Lee, MD,
FRCPC, FAAPL, CCPE**
Associate Professor of
Anesthesiology
University of Manitoba

Dr. Lee graduated from medicine and completed his Anesthesia residency at the University of Manitoba. He obtained further advanced clinical training in Cardiac Anesthesiology, Heart-Lung Transplantation and Cardiac ICU at Papworth Hospital (University of Cambridge, England) and also in Perioperative Transesophageal Echocardiography at St. Michael's Hospital (Toronto, Ontario). He is a Fellow of the American Society of Echocardiography, a Fellow of the Royal Society of Medicine, and also a Fellow of the American Association of Physician Leaders. With a longstanding interest in patient safety, medical administration, and health policy, Dr. Lee recently graduated with a Master's of Medical Management degree from Carnegie Mellon University.

Dr. Lee is currently an Associate Professor of Anesthesia, and a member of the Section of Cardiac Anesthesia at St. Boniface Hospital in Winnipeg, Manitoba and holds an administrative position as the Chief Medical Information Officer for the Province of Manitoba. Research interests include high spinal anesthesia for cardiac surgery, perioperative delirium, and organ donor preservation techniques for cardiac transplantation.



Daniela Orza, MD
Assistant Professor of
Anesthesiology
University of Minnesota

Dr. Orza is an Assistant Professor in the Department of Anesthesiology at the University of Minnesota. She received her MD from the University of Medicine and Pharmacy of Targu Mures in Romania. She did her residency and internship at the University Hospitals of Cleveland and her fellowship at the Cleveland Clinic Foundation for Cardiothoracic Anesthesiology. She is involved in the American Society of Anesthesiologists (ASA), Society of Cardiovascular Anesthesiologists (SCA), American Society of Echocardiography (ASE) and International Anesthesia Research Society (IARS).



Matteo Parotto, MD
Assistant Professor of
Anesthesiology
University of Toronto

Dr. Parotto is an Anesthesiologist and Intensivist at Toronto General Hospital, and Assistant Professor at the University of Toronto. His major academic focuses are on ventilator induced lung injury, airway management, and critical care outcomes. He is co-director to Dr. Richard Cooper of the airway fellowship program at Toronto General Hospital, and serves on the research committee of the Society for Airway Management (SAM).

Planning Committee

Adam Niesen, MD
Chair, MSA Education
Committee
Assistant Professor of
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Mayo Clinic
Rochester, Minnesota

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Minneapolis, Minnesota

Mojca Konja, MD, PhD
Residency Program
Director
Vice Chair of Education
University of Minnesota
Minneapolis, Minnesota

Exhibitors



American Anesthesiology/MEDNAX

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A photograph of a modern building with a glass facade, likely the Intercontinental St. Paul Riverfront, used as a background for the MSA conference announcement.

MSA Minnesota Society
of Anesthesiologists

MSA Spring Conference
Saturday, May 20, 2017
Intercontinental St. Paul Riverfront
11 E. Kellogg Blvd.
St. Paul, MN

Registration and information available on
www.msacconnect.org in the coming months.

Attendees

as of 11/9/16

Grant Aakre, M.D.
*University of Minnesota
Medical Center*

Lanre Adekola
*University of Minnesota
Medical School*

Yusuf Agamaw
*University of Minnesota
Medical School*

Adam Amundson, M.D.
Mayo Clinic

**Ioanna Apostolidou,
M.D.**
University of Minnesota

Robert Ardis, M.D.
Essentia

Katherine Arendt, M.D.
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David Barbara, M.D.
Mayo Clinic

David Beebe, M.D.
University of Minnesota

Aaron Berg
University of Minnesota

Roberto Blanco, M.D.
University of Minnesota

Robert Bockstruck
*University of Minnesota
Medical School*

J. Bohman, M.D.
Mayo Clinic

Peter Boosalis, M.D.
Mayo Clinic

Philip Boyle, M.D.
*Anesthesia Associates of St.
Cloud*

Thomas Briese
*University of Minnesota
Medical School*

Chandra Castro, M.D.
*Children's Hospitals &
Clinics*

Grace Chun, M.D.
MAPA

Katherine Clinch, M.D.
TCAA

Megan Clinton, M.D.
AAPA

Cole Deutz, M.D.
TCAA - AAPA Division

Niki Dietz, M.D.
Mayo Clinic

Erik Eckman, M.D.
*Twin Cities Anesthesia
Associates*

Jacob Eiler, M.D.
*Anesthesia Associates of St
Cloud*

Desiree Ekundayo, M.D.
Mayo Clinic

Joseph Fahey, M.D.
TCAA

**Kari Forde-Thielen,
M.D.**
Multi-Sites Anesthesiology

Robert Friedhoff, M.D.
Mayo Clinic

Robert Gauthier, M.D.
MASS

George Gilkey, M.D.
Mayo Clinic

Barbara Gold, M.D.
*University of Minnesota
Physicians*

Mark Gujer, M.D.
AMS

**Kathryn Handlogten,
M.D.**
Mayo Clinic

Elisa Hansen, D.O.
Shriners Hospital

Michael Harper, M.D.
*University of Minnesota, Dept
of Anesthesiology*

Patrick Harper, M.D.
Mayo Clinic

Beth Hart, M.D.
UMN

Jake Helmer
*University of Minnesota
Medical School*

David Hoops, M.D.
Medical Anesthesia, Ltd

**Jacob Hutchins, M.D.,
B.S.**
University of Minnesota

**Stephanie Iannazzo,
M.D.**
AAPA/TCAA

**Christopher Johnson,
M.D.**
Mayo Clinic

Emily Johnson, M.D.
Anesthesiology, P.A.

Rebecca Johnson, M.D.
Mayo Clinic

Melissa Kenevan, M.D.
Mayo Clinic

Jay Kent, M.D.
*Twin Cities Anesthesia
Associates (AAPA Division)*

Drew Kieffer
*University of Minnesota
Medical School*

Tae Kim, M.D.
University of Minnesota

Douglas Koehntop, M.D.
University of Minnesota

Lisa Koenig, M.D.
TCAA-AAPA

**Thomas Kozhimannil,
M.D.**
HCMC

Jake Krisik, M.D.
Southdale Anesthesiologists

Kelly Kromer, M.D.
PAPA

Steven Lader, D.O.
*Grand Itasca Clinic and
Hospital*

Min Lee, M.D.
TCAA

**Trevor Lee, M.D., M.M.M.,
F.R.C.P.C., F.A.S.E.,
C.C.P.E.**
University of Manitoba

**David Martin, M.D.,
Ph.D.**
Mayo Clinic

Joshua Martini, M.D.
MAPA

Attendees

as of 11/9/16

A. Wade McMillan, M.D.
AASC

Stian Mjanger, M.D.
Twin Cities Anesthesia Associates

Matthew Moldan, M.D.
Mayo Clinic

Rajat Moman, M.A.
Mayo Clinic

Michael Montgomery, D.O.
North Memorial

John Mrachek, M.D.
University of Minnesota

Vinayak Nadar, M.D.
University of Minnesota

Brad Narr, M.D.
Mayo Clinic

Sagar Navare, M.D.
University of Minnesota

S. Rhiannon O'Connor, M.D.
Twin Cities Anesthesia Associates

Oludare Olatoye, M.D.
Mayo Clinic School of Medicine

David Olsen, M.D.
Mayo Clinic

Daniela Orza, M.D.
University of Minnesota

Ronald Osborn, D.O.
Ridges Anesthesia, PA

Igor Ostanny, M.D.
Ridgeview Anesthesia Associates P.A.

Matteo Parotto, M.D., Ph.D.
Toronto General Hospital

Richard Prielipp, M.D., M.B.A.
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Thomas Reimann
University of Minnesota Medical School

Alan Reitz, M.D.
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Martina Richtsfeld, M.D.
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Jeremy Sanchez
University of Minnesota Medical School

Thomas Sanneman, M.D., R.C.P.S.C.
Twin Cities Anesthesia Associates

Andrew Sedivy, M.D.
MAL

Alan Sessler, M.D., F.A.C.A., F.C.A.I., F.R.C.A.
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Emily Sharpe, M.D.
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University of Minnesota

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Children s Minnesota

Erik Stoltenberg, M.D.
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Hans Sviggum, M.D.
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Michael Sweeney, M.D.
UMP

Kathryn Thibert
University of Minnesota

Joseph Tricarico, M.D.
Olmsted Medical Center

Joyce Wahr, M.D.
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Erica Wittwer, M.D.
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Tony Zhengyu Cui
University of Minnesota Medical School

John Zurn, M.D.
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