

## 2<sup>nd</sup> Annual Conference Syllabus

November 13–14, 2021 Radisson Blu Mall of America Bloomington, Minnesota

Up to 10.0 AMA PRA Category 1 Credit(s)™ and 10.0 MOCA 2.0® Credit(s)

## Welcome

Dear Colleagues,

It is with great joy that I have the privilege of welcoming you to the Minnesota Society of Anesthesiologists (MSA) 2nd Annual Conference, held in person from November 13 to 14 at the Radisson Blu, Mall of America, in Bloomington, MN.

This year's scientific meeting will include several impactful invited speakers, a small group session for problem-based learning discussions (PBLDs), and a hands-on ultrasound, regional anesthesia and PoCUS workshop. To enhance learner experience and ensure COVID precautions, we've limited the total number of participants for the PBLDs and hands-on workshops.

As you will be able to see in this year's conference agenda, presentations will include high-yield topics such as pediatric fluid management, quantitative neuromuscular blockade monitoring, the risks of burnout amongst Anesthesiologists, and much more. In addition, there will be ample opportunities for us to re-connect with our colleagues, visit with exhibitors, and hear the latest legislative updates pertaining to our specialty.

Following the lead of the ASA Annual Conference this fall, the MSA has established COVID-19 precaution plans for our MSA Annual Conference. All participants (attendees, speakers, facilitators, exhibitors and live models) at our MSA 2nd Annual Conference have completed an attestation form verifying their COVID-19 vaccination status or that they will provide negative COVID-19 PCR testing within 72 hours of the Conference. Additionally, mandatory masking will be required unless presenting at the podium or while eating during scheduled break and meal times.

On behalf of the MSA Education Committee and the entire MSA Board of Directors, we are excited to see you all in person again and happy to have compiled such an accomplished group of speakers and educators to make this a high-yield conference for you.

Sincerely,

J. Kyle Bohman, MD

Chair, MSA Education Committee

## **Planning Committee**

J. Kyle Bohman, MD Chair, MSA Education Committee Assistant Professor of Anesthesiology Mayo Clinic Rochester, Minnesota



Mojca Remskar, MD, PhD, MACM
Executive Vice Chair, Department of Anesthesiology
Medical Director M Simulation
Medical Director VA Simulation Center
University of Minnesota
Minneapolis, Minnesota

## Parking

registered hotel guest and parking overnight in either ramp, you must bring the make and model of your vehicle, as well as your license plate number, to the hotel front desk upon check-in. The hotel team will inform the Mall of America team of your information. Mall of America's team will tow cars which are parked overnight in either ramp that have not been registered with the hotel as staying at the hotel on that same night.

WiFi

Complimentary WiFi access is offered in the meeting space at the MSA 2021 Annual Conference. To access the WiFi, simply connect to the network "RadissonBlu", open your web browser and click on non-guest. There is no password required, but you will have to click on the acceptance button once prompted.

# Agenda

## Saturday, November 13, 2021

odtal day,	, 110101111001 10, 20		
7:00 - 7:55am	Registration & Continental Breakfast with Exhibit	ors	
7:55 - 8:00am	<b>Welcome Remarks</b> J. Kyle Bohman, MD, Mayo Clinic, Program Chair Tae Kim, MD, University of Minnesota, Pediatric Pr	ogram Chair	
8:00 - 8:25am	Anesthesia and the Developing Brain Yu Shi, MD, MPH, Mayo Clinic		
8:25 - 8:50am	Physician Burnout and Suicide John Mrachek, MD, APA & North Memorial Health		
8:50 - 9:05am	Question & Answer Panel		
9:05 - 9:35am	Break with Exhibitors		
9:35 - 10:15am	Pediatric Fluid Management Jakob Guenther, MD, University of Minnesota		
10:15 - 10:45am	Neuro Gadgets in Non-Neurologic Surgery Tasha Welch, MD, Mayo Clinic		
10:45 - 11:00am	Question & Answer Panel		
11:00-11:15am	Annual Business Meeting		
11:15-11:30am	Break with Exhibitors		
11:30am - 12:30pm	<b>Luncheon &amp; ASA Update</b> Randall Clark, MD, FASA, ASA President		
12:30 - 12:50pm	Break with Exhibitors		
12:50 - 1:20pm	Legislative Update Nate Mussell, JD, Lockridge Grindal Nauen		
1:20 - 1:50pm	Preexisting Posttraumatic Stress Disorder and Anesthesia Brian Tolly, MD, Minneapolis VA Healthcare System		
1:50 - 2:35pm	Everything You Believe about Neuromucular Blockade and Monitoring is Wrong Mike Todd, MD, University of Minnesota		
2:35 - 2:50pm	Question & Answer Panel		
2:50 - 4:50pm	Problem Based Learning Discussions		
	Pediatric Unanticipated Difficult Airway     Martina Richtsfeld, MD, University of Minnesota     Devon Aganga, MD, Mayo Clinic		
	Pediatric NORA/MRI     Kumar Belani, MD, University of Minnesota     Vinh Nguyen, DO, University of Minnesota		
	• Anesthesia for Neonatal Surgical Emergencies Anna Swenson, MD, University of Minnesota Dawit Haile, MD, Mayo Clinic		
	Non-Cardiac Surgery Anesthesia for Adult Conq Lisa Corbett, MD, University of Minnesota Susanne Rupert, MD, University of Minnesota	genital Heart Disease Patients	
4:50 - 5:00pm	Closing Remarks and Door Prize	Agenda continues on next page	

# Agenda continued

## Sunday November 14 2021

THOUGH IT, ZUZ I		
Continental Breakfast		
Ultrasound for Difficult Access-Getting the Needle Tip in the Target Every Time Gregory Schears, MD, Mayo Clinic		
00am <mark>Regional Anesthesia and Ultrasound Workshop</mark>		
Paravertebral and ESB     Dawit Haile, MD, Mayo Clinic		
Infraclavicular Block     Katie Handlogten, MD, Mayo Clinic		
<ul> <li>Knee Surgery Blocks         Kristopher Schroeder, MD, University of Wisconsin         Roberto Blanco, MD, University of Minnesota</li> </ul>		
• Transversus Abdominis Plane Block Balazs Horvath, MD, FASA, University of Minnesota		
Ultrasound Peripheral IV Access     Gregory Schears, MD, Mayo Clinic     Mike Nemergut, MD, PhD, Mayo Clinic		

Sudarshan Setty, MD, University of Minnesota

11:00 - 11:10am ......Closing Remarks

Gastric Ultrasound

## Accreditation

### **Satisfactory Completion**

Learners must complete an evaluation form to receive a certificate of completion. Your chosen sessions must be attended in their entirety. Partial credit of individual sessions is not available. If you are seeking continuing education credit for a specialty not listed below, it is your responsibility to contact your licensing/certification board to determine course eligibility for your licensing/certification requirement.

#### **Accreditation Statement**

In support of improving patient care, this activity has been planned and implemented by Amedco LLC and the Minnesota Society of Anesthesiologists.



Amedco LLC is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

### Physician (ACCME) Credit Designation

Amedco LLC designates this live activity for a maximum of 10.00 *AMA PRA Category 1 Credits*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## American Board of Anesthesiology (ABA) MOCA 2.0® Credit

This activity offers up to 10.00 CME credits, of



which 3.00 credits contribute the patient safety CME component of the American Board of Anesthesiology's redesigned Maintenance of Certification in AnesthesiologyTM (MOCA®) program, known as MOCA 2.0®. Please consult the ABA website, www.theABA. org, for a list of all MOCA 2.0® requirements. Maximum of 10.00 hours available. You must request your certificate within 30 days of the activity to meet the deadline for submission to PARS.

#### Sessions for patient safety are:

- Physician Burnout and Suicide (30 minutes)
- Pediatric Fluid Management (45 minutes)
- Neurologic Devices for Non-Neurological Surgery (30 minutes)
- Anesthesia and Post-Traumatic Stress Disorder (30 minutes)
- Quantitative Neuromuscular Monitoring (45 minutes)

#### Disclosure of Conflict of Interest

The following table of disclosure information is provided to learners and contains the relevant financial relationships that each individual in a position to control the content disclosed to Amedco. All of these relationships were treated as a conflict of interest, and have been resolved. (C7 SCS 6.1--6.2, 6.5) All individuals in a position to control the content of CE are listed in the agenda. If their name is not listed below, they disclosed that they had no financial relationships with a commercial interest.

First Name	Last Name	Commercial Interest: Relationship
Roberto	Blanco	Pacira Pharmaceutics: Speakers Bureau
Gregory	Schears	Consultant for: Becton Dickinson, Accuvein, General Electric, Potrero, Smiths Medical and Medline

#### **How to Get Your Certificate**

- 1. Go to msa.cmecertificateonline.com
- 2. Click on the "Minnesota Society of Anesthesiologists 2021 Annual Conference" link.
- 3. Evaluate the meeting.
- 4. Print all pages of your certificate for your records.

Questions? Email Certificate@AmedcoEmail.com

## Learning Objectives

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

- Change perception of physician burnout and suicide problem
- 2. Use different fluids in pediatric population
- 3. Skillfully use US for IV access
- 4. Manage neurodevices perioperatively
- 5. Inform families about anesthetic effects on pediatric population
- 6. Change how neuromuscular blockade is managed
- 7. Modify anesthetic medications use in PTSD

## Anesthesia and the Developing Brain

- 1. Understand how anesthesia may affect the long-term development of children.
- 2. Understand perioperative changes in behavior and cognition in children.
- 3. Be able to inform children and families on the potential impact of anesthesia on the developing brain.

#### **Physician Burnout and Suicide**

- 1. Raise awareness of the scope of the problem
- 2. Understand the statistics specific to our specialty
- 3. Learn next best steps to address this issue

#### Perioperative Fluid Management in Pediatric Patients

- 1. Updates on pediatric NPO guidelines
- 2. Learn about preferred intravenous fluids during anesthesia
- 3. Learn about pediatric perioperative fluid management
- 4. Learn about pediatric fluid maintenance therapy
- 5. Learn about glucose hemostasis in pediatric patients
- 6. Learn about electrolyte imbalances in pediatric patients
- 7. Learn about acute kidney injury in pediatric patient

### **Neuro Gadgets in Non-Neurologic Surgery**

- 1. Explain types and indications of neurologic devices
- Describe the peri-procedural management of patients with deep brain stimulators undergoing non-neurologic surgery
- 3. Describe the peri-procedural management of patients with vagal nerve stimulators undergoing non-neurologic surgery

### **ASA Update**

- 1. Learn about topics of ASA member interests
- 2. Gain an understanding of ASA advocacy focus areas for 2021
- 3. Learn about ASA's Ongoing Response to Covid

## Preexisting Posttraumatic Stress Disorder and Anesthesia

- Describe the diagnostic criteria and incidence of post-traumatic stress disorder (PTSD) relative to veterans undergoing surgery
- 2. Discuss the perioperative significance of preexisting PTSD based on current literature
- 3. Describe perioperative considerations and management strategies for patients with PTSD

## Everything You Believe about Neuromucular Blockade and Monitoring is Wrong

 Gain a much better understanding of the safe use of neuromuscular blocking drugs

## Ultrasound for Difficult Access-Getting the Needle Tip in the Target Every Time

- 1. Understand the importance of setting up for an ultrasound procedure
- 2. Be able to insert a needle tip into the center of a vessel without missing
- 3. Through better needle tip position awareness, will reduce insertional frustration, bent wires and potential puncture complications

## **Meeting Faculty**



## Randall Clark, MD, FASA, ASA President, American Society of Anesthesiologists

Dr. Randall M. Clark, MD, FASA, professor of anesthesiology at the University of Colorado School of Medicine and pediatric cardiac anesthesiologist at Children's Hospital Colorado in Aurora, Colorado, is

President of the American Society of Anesthesiologists (ASA).

Dr. Clark has served ASA in numerous roles, most recently as First Vice President and Chair of the ASA Section on Clinical Care. He is also a member of ASA's Committee on Innovation, Committee on Professional Education Oversight, Committee on Governance Effectiveness and Efficiencies, Committee on Quality Management and Department Administration, and Committee on Pediatric Anesthesia. Dr. Clark has been on the ASA Board of Directors since 1995.

Dr. Clark is a long-serving member of the Board of Directors of the Colorado Society of Anesthesiologists and is part of the ASA Delegation to the American Medical Association. He also serves on the Anesthesia Quality Institute's Board of Directors.

Dr. Clark received his Bachelor of Science degree in Aerospace Engineering Sciences, with honors, from the University of Colorado in Boulder before graduating from the University of Colorado School of Medicine in Denver. He completed his anesthesiology residency and fellowships in pediatric and cardiac anesthesiology at Baylor College of Medicine in Houston and is board-certified in anesthesiology and pediatric anesthesiology.

He resides in Denver with his wife Joy. L. Hawkins, MD, FASA, who is an obstetric anesthesiologist. They have two daughters, Catherine and Victoria.



## Jakob Guenther, MD, Assistant Professor, University of Minnesota

Dr. Jakob Guenther, MD, is currently an Assistant Professor at the University of Minnesota. He attended medical school at Otto con Guericke Universitaet Magdeburg Germany and his residency at the University Hospital Magdeburg, Germany and the Medical

College of Wisconsin Affiliated Hospitals. Following residency, he did a fellowship in pediatric anesthesiology at the Medical College of Wisconsin.



#### John Mrachek, MD, Anesthesiologist, APA and North Memorial Health

Native to Minnesota, Dr. John Mrachek, MD, received his BA in English from St. John's University, and his medical degree and specialty training at the University of Minnesota. He completed the Physician College at St. Thomas and the ATP course

at Intermountain Healthcare. Over the last several years he has embarked on a personal journey to understand the factors driving physician discontent. His work has led to him to deeply examine the current healthcare environment and the factors driving extreme levels of disconnection and isolation leading to a diminished sense of purpose among countless physicians. The result of which is a growing dilemma of physician burnout and the dangerous pandemic of physician suicide.



### Gregory Schears, MD, Professor of Anesthesiology, Mayo Clinic

Dr. Gregory J. Schears, MD, is a Professor of Anesthesiology at the Mayo Clinic in Rochester, MN. He is a pediatric intensivist and anesthesiologist by training and cares for both adult and pediatric

patients in his ICU and OR practice. He has a long-standing interest in reducing patient complications, improving our approach to vascular access and improving patient safety. Dr. Schears completed his pediatric residency at St. Louis Children's Hospital, his anesthesia residency, pediatric anesthesia fellowship and pediatric critical care fellowship at John's Hopkins hospital, and worked at the Children's Hospital of Philadelphia for 5 years until he was recruited to the Mayo Clinic in 2001 to head the ECMO service. There he serves as Consultant of Department of Anesthesiology at Mayo Clinic, Rochester, MN and is the physician liaison to the nurse led PICC team, former Medical Director of the ECMO Service for 16 years. He is very active with medical device development to help reduce complications and has given hundreds of presentations locally, regionally, nationally and internationally.

## **Meeting Faculty**

## continued



Yu Shi, MD, MPH, Consultant, Mayo Clinic

Dr. Yu Shi, MD, MPH,i received his MD from Peking Union Medical College in 2007 and an MPH from Johns Hopkins in 2008. He completed his anesthesia residency a t the Medical College of Wisconsin in 2015 and pediatric anesthesia fellowship at the

Children's Hospital of Philadelphia in 2016. Since then, he has been an Assistant Professor of Anesthesiology at Mayo Clinic. Dr. Shi has a strong research interest in the developmental outcomes of children undergoing anesthesia. He received a mentored research training grant by the FAER to develop the tools and skills that are required to rigorously evaluate important predictors and moderators of child well-being in the perioperative period. He has been actively publishing in the neurodevelopmental outcomes in children.



Michael Todd, MD, Professor and Vice Chair, Department of Anesthesiology, University of Minnesota School of Medicine

Dr. Michael Todd, MD, is a Professor and Vice Chair for Research at the University of Minnesota. Formerly Professor and Chair, Dept of Anesthesiology University of Iowa, and

Professor and Vice Chair at the University of Iowa before that. He is also Editor and then Editor-in-Chief of Anesthesiology, the Journal of the ASA, as well as principal investigator of the NIH-funded, international IHAST clinical trial.



Brian Tolly, MD, Anesthesiologist, Minneapolis VA Healthcare System

Dr. Brian Tolly, MD, is a cardiac anesthesiologist who works at the Minneapolis VAHCS and University of Minnesota. He has a particular interest in posttraumatic stress disorder in veterans undergoing surgery.



Tasha Welch, MD, Mayo Clinic

Dr. Tasha Welch, MD, attended Gustavus Adolphus College and earned her degrees in biochemistry and biology. She attended Mayo Medical School in Rochester, MN, and then completed her internship at Gundersen Lutheran in La Crosse, WI. She returned to Rochester to complete her

anesthesiology residency at Mayo Clinic. Following residency Dr. Welch completed the neuroanesthesiology fellowship at Mayo Clinic Rochester. Currently Dr. Welch is an assistant professor of anesthesiology and serves as the Medical Director for the Peri Anesthesia Unit of the Radiology practice at Mayo Clinic Rochester. She has research and clinical interest in anesthesia for functional neurosurgery and anesthesia for procedures performed in the radiology suites.



### Acacia Pharma

Peter Moe Hospital Territory Manager 612-850-2089 petermoe@acaciapharma.com





### **Avanos Medical, Inc**

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Carrie Ann Rutter
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Marc Tutt
Sales Representative
612-327-4595
mtutt@medalliancegroup.com

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Paula Heller Institutional Rep 612-804-2803 paula.heller@merck.com

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## Mindray North America

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Sarah Rustad Sales Representative 612-214-5381 s.rustad@mindray.com

Mindray North America is headquartered in Mahwah,
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Matt Brettin
Account Manager
612-418-4404
Matt.Brettin@pacira.ccom

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Gail Longardner
Manager, Key Accounts/Health Systems Midwest
317-431-2400
gail.longardner@trevena-us.com

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### **Three Rivers Wealth Management**

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Michael Schumacher, CFP®, MBA Financial Advisor 651-765-7021 michael.a.schumacher@ampf.com

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## Attendees

## as of 11/11/21

**Devon Aganga, MD**Mayo Clinic
Rochester, MN

Corey Anderson, MD Northfield Hospital Lakeville, MN

James Baber, MD MSA Rochester, MN

Ratan Banik, MD, PhD University of Minnesota Blaine, MN

**David Beebe, MD**University of Minnesota
Circle Pines, MN

Kumar Belani, MBBS, MS, FACA, FAAP, SAMBA-F M Health Fairview Masonic Children's Hospital Edina, MN

Roberto Blanco, MD University of Minnesota Minneapolis, MN

J. Kyle Bohman, MD Mayo Clinic Rochester, MN

Norman Boucher, MD Retired Duluth, MN

Philip Boyle, MD Centracare Anesthesiology St. Cloud, MN

Ferne Braveman, MD University of Minnesota Minneapolis, MN Chandra Castro, MD
Children's Hospitals &
Clinics
Minneapolis, MN

Iryna Chugaieva, MD University of Minnesota Minneapolis, MN

**Grace Chun, MD**MultiSites Anesthesiology
Lino Lakes, MN

Randall Clark, MD American Society of Anesthesiologists Aurora, CO

**Lisa Corbett, MD, CPE** University of Minnesota Maple Grove, MN

Mark Destache, MD Associated Anesthesiologists, PA St. Paul, MN

**Niki Dietz, MD** Mayo Clinic Oronoco, MN

John Dilger, MD Mayo Clinic Rochester, MN

Kari Forde-Thielen, MD Multi-Sites Anesthesiology Minneapolis, MN

Robert Friedhoff, MD Mayo Clinic Rochester, MN

Peter Glessing Lockridge, Nauen and Grindal Minneapolis, MN Liliana Goelkel Garcia, MD

University of Minnesota Minneapolis, MN

**Jakob Guenther, MD** University of Minnesota Minneapolis, MN

Mark Gujer, MD, FASA Anesthesia Management Solutions Aitkin, MN

Dawit Haile, MD Mayo Clinic Rochester, MN

**Kathryn Handlogten, MD** Mayo Clinic Rochester, MN

Jordan Helmer

Nicole Henry, DO, MBA, MPH Mayo Clinic Rochester, MN

John Holm University of MN Medical School Shoreview, MN

Balazs Horvath, MD, FASA University of Minnesota Minneapolis, MN

Philippe Housmans, MD, PhD Mayo Clinic Rochester, MN

Lindsay Hunter Guevara, MD Mayo Clinic Rochester, MN Jason Johnson, MD
St. Luke's Hospital of
Duluth
Duluth, MN

**Rebecca Johnson, MD** Mayo Clinic Rochester, MN

Benjamin Kloesel, MD
University of Minnesota,
Masonic Children's
Hospital
Saint Louis Park, MN

Douglas Koehntop, MD University of Minnesota Physicians Minneapolis, MN

Jay Krauss, MD St. Cloud Surgical Center Saint Cloud, MN

Robert Maddock, MD Mayo Clinic Austin, MN

**John Magdsick, MD, FACA** MSA Duluth, MN

David Martin, MD, PhD, FASA Mayo Clinic

Mayo Clinic Rochester, MN

Paul McCormick, MD Children's Hospital & Clinics of MN Minneapolis, MN

Brian McGlinch, MD, COL, MC, USAR University of Minnesota Woodbury, MN

## Attendees

## as of 11/11/21

Justin Mottaghi, MD University of Minnesota Minneapolis, MN

**John Mrachek, MD** University of Minnesota Edina, MN

Nate Mussell Lockridge, Nauen and Grindal Minneapolis, MN

Michael Nemergut, MD, PhD

Mayo Clinic Rochester, MN

**Gunnar Nemitz** University of Minnesota Clearwater, MN

**Richard Nguyen** 

Vinh Nguyen, DO University of Minnesota Minneapolis, MN

**Catherine Njathi-Ori, MD** Mayo Clinic Rochester, MN

Marie Odden Minnesota Society of Anesthesiologists Milwaukee, WI Ronald Osborn, DO Ridges Anesthesia, PA Burnsville, MN

Jason Panchamia, DO Mayo Clinic Rochester, MN

Josef Pleticha, MD Mayo Clinic Rochester, MN

**Bridget Pulos, MD**Mayo Clinic
Rochester, MN

MacKenzie Quale, MD Mayo Clinic North Mankato, MN

Jake Ratanawong, MPH University of MN Medical School Minneapolis, MN

Martina Richtsfeld, MD University of Minnesota Golden Valley, MN

Susanne Rupert, MD University of Minnesota Minneapolis, MN Jennifer Rzepka, CAE Minnesota Society of Anesthesiologists Milwaukee, WI

**Gregory Schears, MD**Mayo Clinic
Rochester, MN

Kristopher Schroeder, MD University of Wisconsin, Madison Madison, WI

Troy Seelhammer, MD Mayo Clinic Rochester, MN

Sudarshan Setty, MD University of Minnesota Minneapolis, MN

Yu Shi, MD, MPH Mayo Clinic Rochester, MN

John Sill, MD Mayo Clinic Rochester, MN

Erik Stene, MD Children's Minnesota Eden Prairie, MN Hans Sviggum, MD Mayo Clinic Rochester, MN

**Anna Swenson, MD** University of Minnesota Minneapolis, MN

Michael Todd, MD University of Minnesota Minneapolis, MN

Brian Tolly, MD Minneapolis VA Medical Care Center Minneapolis, MN

Wendy Wallskog, MD Anesthesiology, PA St. Louis Park, MN

Michael Walsh, MD Mayo Clinic Rochester, MN

**Andrew Wang** 

Tasha Welch, MD Mayo Clinic Rochester, MN

Erica Wittwer, MD, PhD Mayo Clinic Rochester, MN

MA Minnesota Society of Anesthesiologists

### **Contact MSA**

Minnesota Society of Anesthesiologists 6737 W Washington St, Suite 4210, Milwaukee, WI 53214 Phone: (414) 389-8612 • Fax: (414) 276-7704 office@msaconnect.org • www.msaconnect.org