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2nd Annual Virtual Critical Care Conference **SCCM Midwest Chapter** **Bench to Bedside**

Saturday, August 7, 2021 (All times are CDT)

8:00am - 8:15am: **Registration and Exhibit Hall**

8:15am - 8:30am: **President's Address:** Welcome, Introduction, Housekeeping Remarks
Girish Deshpande, MD

8:30am - 9:15am: **Plenary Session: CPR: From Bench to Bedside and Beyond!**
Vinay Nadkarni, MD, FAAP, FAHA, FCCM

9:15am - 10:00am: **Keynote Address: COVID-19 ARDS: Pathophysiology and Treatment**
Luciano Gattinoni, MD

10:00am - 10:15am: **Break/Exhibit Hall**

10:15am - 11:45am: **Breakout Sessions**

1. Neurocritical Care: Pediatric and Adult:

- a. *Nekaiya Jacobs, MD*
- b. *Omar Rahman, MD, FCCM*
- c. *Mitchell Craft, MD*

2. Lung Transplant Critical Care and COVID-19:

Marc Sala, MD

3. The Role of the Critical Care NP:

- a. *Amanda Sadosky, DNP, APRN, CPNP-AC*
- b. *Brenna Kouzoukas, MSN, APRN, FNP-BC*
- c. *Candice White, MSN, APRN, AGCNS*

4. Glycemic Control in the ICU:

- a. *Michael Sirimatuross, PharmD, BCNSP, BCCCP, FCCM*
- b. *Meagan Latham, PharmD, BCCCP, BCPS*

11:45am - 12:30pm: **Lunch and Exhibit Hall**

12:30pm - 1:15pm: **Lecture: Lung and Diaphragm protective ventilation**
Robinder Khemani, MD



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- 1:15pm - 2:00pm: **Star Research Proposals**
- 2:00pm – 2:15pm: **Break/Exhibit Hall**
- 2:15pm - 3:00pm: **Poster Presentations**
- 3:00pm - 3:45pm: **Abstract Award Winners**
- 3:45pm – 4:45pm: **Jeopardy and Closing Remarks**
- 4:45pm - 5:30 pm: **Social Hour/Networking**

*This program is approved for **6 hours** of CME/CEU per University of Illinois College of Medicine at Peoria.*

Registration: Free: SCCM-Midwest Chapter Members, Speakers, and Abstract Presenters; Non-MWC Chapter members: \$40.

To Register Click: <https://www.sccmmwc.org/Event-Registration>

(Use SCCM member number for MWC membership number, Abstract presenters: Use Abstract ID number provided with acceptance letter, only one presenter can register free per abstract)

To Join SCCM Midwest Chapter Click:

<https://www.sccm.org/Member-Center/Chapters/Midwest-Chapter>

OR

Visit us at: <https://www.sccmmwc.org>

To Submit an Abstract Click: <https://www.surveymonkey.com/r/XBT6Z6M>

We would like to thank University of Illinois College of Medicine at Peoria, OSF HealthCare Children's Hospital of Illinois, and Jump Trading Simulation Education Center for their technical support.



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Speakers



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President's Address

Plenary Session: CPR-From Bench to bedside and beyond!



Girish Deshpande, MD, FCCM

Professor of Clinical Pediatrics, Critical Care Medicine, Department of Pediatrics, University of Illinois College of Medicine at Peoria, IL
Pediatric Intensivist, OSF Healthcare Children's Hospital of Illinois, Peoria, IL
PFCCS Director
President and CEO, SCCM Midwest Chapter



Vinay Nadkarni, MD, FAAP, FERC, FAHA, FCCM Professor and Endowed Chair, Department of Anesthesiology, Critical Care and Pediatrics, University of Pennsylvania, Perelman School of Medicine, Children's Hospital of Philadelphia

Keynote Speech: COVID-19 ARDS: Pathophysiology and treatment



Luciano Gattinoni, MD

Guest Professor Anaesthesia and Intensive Care, University of Gottingen-Germany
Invented Extracorporeal CO2 removal and "baby lung"

Pre Lunch Simultaneous Break-Out Sessions

1. Neurocritical Care: Pediatric and Adult



Nekaiya Jacobs, MD

Associate Professor of Pediatrics, Chicago Medical School, Rosalind Franklin University of Medicine and Science, IL
Advocate Children's Hospital, Lutheran General Hospital, Park Ridge, IL
Pediatric Critical Care Fellowship Ultrasound Director
Neurocritical Care Taskforce Lead, Advocate Children's Hospital,
Pediatric Intensive Care Unit Quality Improvement Lead, Pediatric Residency Diversity, Equity and Inclusion Director



Omar Rahman, MD, FCCM

Assistant Professor of Clinical Medicine, Indiana University School of Medicine Indianapolis, IN
Critical Care Associate, Indiana University Health Physicians-Methodist Hospital, IN



Mitchell Craft, MD

Associate, Critical Care Medicine, Indiana University Health Physicians, Methodist Hospital, Indianapolis, Indiana
Assistant Professor of Clinical Medicine, Indiana University School of Medicine, Department of Medicine, Indianapolis, IN



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2. Lung Transplant Critical Care and COVID-19



Marc Sala, MD

Assistant Professor of Medicine, Division of Pulmonary and Critical Care, Department of Medicine, Northwestern University of Feinberg School of Medicine, Chicago, IL
Assistant Professor of Medicine, Clinical Educator Track, Northwestern University Feinberg School of Medicine, Chicago, IL
Pulmonary Consultant, Lurie's Children's Hospital, Pulmonary Medicine, Chicago, IL

3. The Role of the Critical Care NP



Amanda Sadowsky, DNP, APRN, CPNP-AC
Pediatric Nurse Practitioner, PICU, Advocate Children's Hospital, Park Ridge, IL



Brenna Kouzoukas, MSN, APRN, FNP-BC
Pediatric Critical Care Nurse Practitioner, Advocate Lutheran General Hospital, Chicago, IL



Candice White, MSN, APRN, AGCNS
Advanced Practice Nurse, Structural Heart, Cardiothoracic Surgery, Cardiology, UnityPoint Methodist Hospital, Peoria, IL

4. Glycemic Control in Critical Care



Michael Sirimatuross, PharmD, BCNSP, BCCCP, FCCM
Clinical Specialist III/Clinical Specialist Leader, Houston Methodist Hospital, Department of Pharmacy, Medical Intensive Care Unit, Houston, TX



Meagan Latham, PharmD, BCPS, BCCCP
Critical Care Clinical Pharmacy Specialist, Franciscan Health Olympia Fields, Olympia, IL

Post Lunch Lecture

Lung and Diaphragm Protective Ventilation



Robinder Khemani, MD

Professor of Pediatrics, Clinical Scholar, University of Southern California Keck School of Medicine, Los Angeles, CA
Attending Physician, Critical Care Medicine, Children's Hospital of Los Angeles, Los Angeles, CA, Research Oversight Committee, Department of Anesthesiology and Critical Care Medicine, Children's Hospital of Los Angeles, Los Angeles, CA
Associate Director Research, Department of Anesthesiology and Critical Care Medicine, Children's Hospital of Los Angeles, Los Angeles, CA
Executive Committee Member, Pediatric Acute Lung Injury and Sepsis Investigators Network



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Critical Care Jeopardy

Moderator

Judge



Padmaraj Duvvuri , MD

Faculty, Department of Cardiology, OSF St Francis Medical
Center, OSF Heart Institute, Peoria, IL
Secretary, SCCM Midwest Chapter



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Objectives



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Plenary Session: CPR-Bench to bedside, and beyond!

Vinary Nadkarni, MD, FAAP, FERC, FAHA, FCCM

1. Describe the history, and current changes in prevention, recognition, response, and treatment of cardiac arrest.
2. Identify the 'aha' moments, and discoveries by the SCCM leaders that were breakthroughs.
3. Outline promising and futuristic therapies and approaches on the near and far horizon

Keynote Address: COVID-19 ARDS: Pathophysiology and treatment

Luciano Gattinoni, MD

1. Understanding the specific characteristics of COVID-19 ARDS
2. Understanding that the evidence on ARDS treatment is, to date, derived from trials in which the population enrolled presented different characteristics
3. Understanding the time course of this new disease

Neurocritical Care: Pediatric and Adult

Nekaiya Jacobs, MD.

Omar Rahman, MD, FCCM

Mitchell Craft, MD

1. Review the state of Pediatric Neurocritical Care in the US (training pathways, staffing models, protocol development)
2. Discuss the current guidelines for management of acute CVA and ICH including mechanical thrombectomy and determination of BP goals
3. Management protocol for super-refractory status epilepticus with new therapies

Lung Transplant Critical Care and COVID-19

Marc Sala, MD

1. Understand how proposed lung transplant selection criteria for patients with COVID-19 respiratory failure differ from criteria for other lung diseases.
2. Name three unique challenges associated with pursuing lung transplant in the COVID-19 respiratory failure patient population.
3. Recognize key areas for investigation in lung transplant for COVID-19 respiratory failure.

The Role of the Critical Care NP

Amanda Sadowsky, DNP, APRN, CPNP-AC

Brenna Kouzoukas, MSN, APRN, FNP-BC

Candice White, MSN, APRN, AGCNS

1. Describe the pathway to NP
2. Describe the different roles and responsibilities for the critical care NP
3. Describe the opportunities for professional development (research, QI, etc)

Glycemic Control in Critical Care

Michael Sirismaturos, PharmD, BCNSP, BCCCP, FCCM

Meagan Lathan, PharmD, BCCCP, BCPS

1. Review guidelines and primary literature updates related to glucose control in the ICU setting
2. Identify best practices for incorporating glucose control literature into protocol implementation and quality improvement analysis

Lecture: Lung and Diaphragm Protective Ventilation

Robinder Khemani, MD

1. Review the principles of lung protective ventilation with respect to stress, strain, and lung recruitment.
2. Understand the principles of Patient Self Inflicted Lung Injury and Ventilator Induced Diaphragm Dysfunction.
3. Describe how to factor patient respiratory effort into ventilation strategies to achieve lung and diaphragm protection.