



SCCM Midwest Chapter Presents

3RD ANNUAL VIRTUAL CRITICAL CARE CONFERENCE

August 13th, 2022

Immunology & Immunotherapy in
Critical Illness



Scan the QR code below to register



<https://www.sccmmwc.org>

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3rd Annual Virtual Critical Care Conference

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Foreword

Dear Colleagues,

The onset of the omicron variant in February 2022 coupled with a change to the virtual format of the 2022 SCCM Congress, led us to another year of the annual congress in virtual format. In this year's congress, our focus will be "Immunology and Immunotherapy in Critical Illness". COVID-19 pandemic and associated immunologic complications managed with previously unfamiliar immunotherapeutic agents were just a trigger!



Our knowledge of the pathogenesis of various critical illnesses has evolved significantly throughout the past few decades and immune organ dysfunction is coming to the forefront of a multitude of illnesses. As complicated as this topic seems, it can no longer be placed on the back burner. It is not just about HIV or immunodeficiency disorders, but now it is part of most of the critical illnesses managed in the intensive care unit including patients with trauma and cardiac surgery. Is there something beyond antibiotics, fluids, and inotropes that needs to be considered while managing sepsis patients? Are all sepsis patients alike and do they have sepsis or do other conditions need to become part of the discussion? While prescribing nutrition or while transfusing blood products, do we need to consider its impact on immune organ function? Though steroids have stood the test of time, immune checkpoint inhibitors and CAR-T cell therapy have changed the lives of patients with malignancy, autoimmune diseases, transplant etc. However, when these patients are admitted to the ICU, how do we take care of them? Should the medications be held or continued? How do we understand the interaction of such conditions and presenting illness? All these topics will be addressed by our world-renowned faculty in one packed day. The spectrum of speakers from different professions will be giving their perspective, sharing experience and enriching the day with interactive presentations. Don't forget to join us for the Jeopardy to enjoy while testing your knowledge and cheer our trainees!

Please take advantage of the virtual format and join us from the convenience of your home for the "3rd Annual Virtual Critical Care Conference" of the Midwest Chapter to share knowledge, interact, and network with professionals who share the common passion of caring for the critically ill. Hoping to meet your pet pals and get enticed with awesome summer blooms from your garden at the virtual social networking event at the end of the day!

Varsha Gharpure

Varsha Gharpure, MD, FAAP, FCCM
President, SCCM Midwest Chapter

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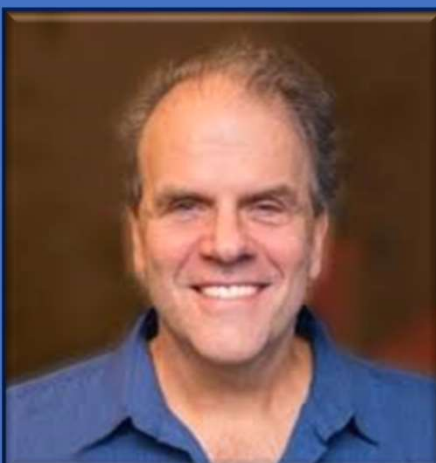
Immunology and Immunotherapy in Critical Illness

FEATURED SPEAKERS

Dr Craig Coopersmith



Dr Joseph Carcillo



Dr Kenneth Remy



**To Register, Submit an Abstract, or Participate in Jeopardy -
Visit: <https://www.sccmmwc.org>**

Abstract Submission Deadline: June 30th, 2022, Noon CDT

Registration fee: Scan QR code to register

SCCM-Midwest Chapter Members: \$0

Speakers, Trainees, Jeopardy and Abstract Presenter: \$0.

Non-members: \$40.



To Join SCCM Midwest Chapter Click: <https://www.sccmmwc.org/membership/>

Contact Us: sccmmwc@gmail.com.

University of Illinois College of Medicine at Peoria will provide CME/CEU (Anticipated 6.75 hours)

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SCHEDULE (CENTRAL TIME ZONE)

08:00 – 08:15: REGISTRATION AND EXHIBIT HALL

08:15 – 08:30: PRESIDENT'S ADDRESS

Welcome, Introduction, Housekeeping Remarks

Varsha Gharpure, MD, FAAP, FCCM

08:30 – 09:15: PLENARY SESSION

Immunology in Critical Illness – Past, Present, and Future

Craig Coopersmith, MD, FACS, MCCM

09:15 – 10:00: KEYNOTE ADDRESS

Personalized Immunologic Approaches for COVID-19 and Sepsis: Lessons Learned from a Pandemic

Kenneth Remy, MD, MHSc, MSCI, FCCM

10:00 – 10:15: COFFEE BREAK/EXHIBIT HALL

10:15 – 11:15: BREAKOUT SESSIONS - 1 (SELECT 1 OUT OF 4)

1) Autoimmune Neurological Emergencies

Autoimmune Encephalitis - *Romer Geocadin, MD, FNCS, FAAN, FANA*

Neuroinflammatory Disorders in the Pediatric Intensive Care Unit - *Grace Gombolay, MD*

2) Immunological Emergencies in Transplant Recipients

Care of the Lung Transplant Patient in the Intensive Care Unit - a Focus on Immunology

Adil Sheikh, MD

Heart Transplant Emergencies and Changing Landscape of Immunological Surveillance of Rejection

Roopa Rao, MBBS, FACC

3) Severe Acute Respiratory Syndrome Coronavirus-2 infection

Immune Dysregulation in SARS-CoV2-associated Disease in Children

Nina Brodsky, MD

Dysregulated Immune Response in Acute Covid 19 Infection: Pathophysiology and Management

Praveen Sudhindra, MD

4) Impact of Nutrition on Immune Response in Critical Illness

Jackie Hermanson, MS, RD, LDN; Ann Cotton, MS, RD, CNSC

11:15 – 12:00: LECTURE

CAR-T Cell Therapy and Immune Checkpoint Inhibitors in the Intensive Care Unit

How to Survive a CAR Crash – Management of the ICU CAR-T Cell Therapy Patient

Anne Rain Brown, PharmD, BCCCP, FCCM

Management of Immune Checkpoint Inhibitor Toxicity in the Critically Ill Patient

Joshua Arnold, PharmD, BCPS, BCCCP

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12:00 – 12:30: POSTER PRESENTATIONS

12:30 – 13:00: LUNCH & EXHIBIT HALL

13:00 – 14:00: BREAKOUT SESSIONS - 2 (SELECT 1 OUT OF 4)

1) Immune Mediated Transfusion Reactions

Jennifer Muszynski, MD, MPH, FCCM; Yunchuan Delores Mo, MD, MSc

2) The Immunologic Response to Traumatic Injury and Transfusion

Timothy Plackett, DO, MPH, FACS; Joseph Posluszny, MD

3) Extracorporeal Clearance Therapies

Therapeutic Plasma Exchange in the Critically Ill Patient with Inflammation

Nicole Zantek, MD, PhD

CRRT-Based Therapies for Immune-Mediated and Inflammatory Diseases in Critically Ill Patients

Tara Neumayr, MD

4) Cardiopulmonary Bypass and Ischemia-Reperfusion Injury

Inflammation and Pediatric Cardiac Surgery: Too Much of a Good Thing?

Alexis Benscoter, DO

Management of Inflammatory Response and Ischemia Reperfusion Injury after Pediatric

Cardiopulmonary Bypass - *Chawki El-zein, MD, FACS*

14:00 – 14:45: BREAKOUT SESSIONS - 3 (SELECT 1 OUT OF 2)

1) Myocarditis: New Paradigms in Diagnosis, Management, and Treatment

Kory Lavine, MD, PhD

2) A Multi-disciplinary Team Approach to Pediatric Immune Dysregulation: Challenges, Successes, and Lessons Learned - *Lindsey Swigart, MSN, RN, CPNP-AC*

14:45 – 15:00: COFFEE BREAK & EXHIBIT HALL

15:00 – 15:45: STAR RESEARCH PRESENTATIONS

15:45 – 16:30: KEYNOTE ADDRESS:

Sepsis Induced Multiple Organ Failure Immuno-Phenotypes

Joseph Carcillo, MD

16:30 – 17:00: CRITICAL CARE JEOPARDY

17:00 – 17:30: SCCM MIDWEST CHAPTER ELECTION RESULTS, INTRODUCTION OF NEW OFFICERS, AND SOCIAL NETWORKING