

Joseph Kohne
Clinical Assistant Professor
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Education and Training

Education

08/2009-05/2013 Doctor of Medicine, University of Cincinnati College of Medicine, Cincinnati, OH
07/2019-12/2020 Master of Science, Health and Healthcare Research, University of Michigan, Ann Arbor, MI

Postdoctoral Training

06/2013-06/2016 Residency, Pediatrics, Cincinnati Children's Hospital Medical Center, Cincinnati, OH
07/2016-06/2019 Clinical Fellow, Pediatric Critical Care Medicine, University of Michigan, Ann Arbor, MI

Certification And Licensure

Certification

10/2016-12/2026 American Board of Pediatrics, General Pediatrics
11/2020-11/2027 American Board of Pediatrics, Pediatric Critical Care Medicine

Licensure

01/2020 Michigan, Controlled Substance
07/2016-01/2020 Michigan, Medical License

Work Experience

Academic Appointment

07/2019-Present Clinical Assistant Professor in Pediatrics - Intensive Care, University of Michigan - Ann Arbor, Ann Arbor

Administrative Appointment

02/2022-Present Co-director of PICU ECMO, University of Michigan, Ann Arbor

Research Interests

- Pediatric Acute Respiratory Distress Syndrome (ARDS) and Extracorporeal Life Support. I am specifically interested in identifying and understanding meaningful patient outcomes and how the diagnosis and management of ARDS affects these outcomes.

Clinical Interests

- The care of children with critical illness, especially severe respiratory failure and the management of extracorporeal life support.

Clinical Track Scholarly Contribution

Clinician-Patient Safety/Quality Innovator

Improving Follow-up Care for ECMO Patients through Continuous Quality Improvement Mentor: Ryan Barbaro, MD Multidisciplinary workgroup of pediatric critical care, physical medicine and rehabilitation, pulmonology, psychology, and psychiatry partnered to identify gaps and improve follow-up care for ECMO survivors

Grants

Current Grants

1K12TR004374-01: *Trajectory Prediction in Pediatric ARDS (TRAP-PARDS)*:

Primary investigator (sub-project)

National Institutes of Health

05/2023 - 04/2025

\$242,500

Submitted - Not Funded

Monitoring of respiratory disease progression in children using vibrational signature of cardiopulmonary activity and a privileged machine learning approach:

Co-I (Principal Investigator: Ryan Barbaro)

NSF-US sourced funding through CardioSounds, LLC

02/2022 - 01/2023

\$80,226

Honors and Awards

National

2018 American Thoracic Society Assembly on Critical Care Abstract Award and Scholarship, American Thoracic Society

Institutional

2013 Gold Humanism Honor Society, University of Cincinnati, Peer-nominated honor society in recognition for practicing patient centered care

2014 Resident Teaching Award, University of Cincinnati, Award chosen by the University of Cincinnati medical students during the pediatrics clerkship

2015 Outstanding Second Year Resident Award, Cincinnati Pediatric Society, Presented by the Cincinnati Pediatric Society to the outstanding second year resident as chosen by the residency program directors

2016 Benzing/Lowe Award, Cincinnati Children's Hospital Medical Center, Presented by the Division of Critical Care Medicine at Cincinnati Children's Hospital Medical Center for academic excellence and outstanding contributions to Critical Care Medicine

2018 Pediatric Residency Program Monthly Top Lecturer, University of Michigan, Pediatrics

2019 Fellow Teaching Award, University of Michigan, Pediatrics, Awarded to one fellow across all clinical fellowships in the Department of Pediatrics annually

2020 Departmental Top Teachers, University of Michigan, Pediatrics, Awarded to top 10% of teachers in the department

Teaching

Teaching Activity

Institutional

11/2015-11/2015	Management of Severe Traumatic Brain Injury- Farrell Rounds. Cincinnati Children's Hospital Medical Center, Cincinnati, OH
06/2016-06/2016	Management of TBI in a Low-Resource Setting- Resident Global Health Morning report. Cincinnati Children's Hospital Medical Center, Cincinnati, OH
08/2017-08/2017	CNS Emergencies- Joint Pediatric Neurology/PCCM Didactic Lecture. University of Michigan. Ann Arbor, MI
10/2017-10/2017	Central ECMO Cannulation for ARDS- Resident Morning Report. University of Michigan. Ann Arbor, MI
01/2018-01/2018	Nutrition in the PICU- Pediatric Critical Medicine Didactic Lecture. University of Michigan. Ann Arbor, MI
07/2018-07/2018	Resident Code Training- Participate in pediatric resident code simulation, lead feedback and skills sessions. University of Michigan. Ann Arbor, MI
10/2018-10/2018	Oxygen Transport & Acute Respiratory Distress Syndrome- N552, Acute Care Pediatric Management Part 2. acute care Pediatric Nurse Practitioner students. Ann Arbor, MI
02/2021-02/2021	Secondary Data Analysis: A Practical Guide- Pediatric CCM Fellow Research Conference

Memberships in Professional Societies

2013 - Present	American Academy of Pediatrics
2016 - Present	Society of Critical Care Medicine
2018 - Present	American Thoracic Society

Scholarly Activities

Presentations

Extramural Invited Presentation

Moderator

1. New Pediatric ARDS Guidelines: Controversies and Next Steps, Society of Critical Care Medicine, 01/2023, San Francisco, CA

Seminar

1. Airway and Tracheostomy Management in Pediatric ECMO, **Kohne J**, Extracorporeal Life Support Organization, 09/2022, Boston, MA

Publications/Scholarship

(Co-First Author *; Corresponding author **; Co-Last author ***)

Peer-Reviewed

Journal Article

1. **Kohne JG****, Carlton EF, Gorga SM, Gebremariam A, Quasney MW, Zimmerman J, Reeves SL, Barbaro RP: Oxygenation Severity Categories and Long-Term Quality of Life among Children who Survive Septic Shock. *Journal of Pediatric Intensive Care*
2. **Kohne J***, MacLaren G, Shellhaas R, Benedetti GM, Barbaro R***: Variation in Neuromonitoring and Neuroimaging for Children Receiving Extracorporeal Membrane Oxygenation. *Critical Care*.PM36650540 , (In Press)
3. Carlton EF, **Kohne JG**, Shankar-Hari M, Prescott HC: Readmission Diagnoses After Pediatric Severe Sepsis Hospitalization. *Crit Care Med*.47(4): 583-590, 04/2019. PM30676337

4. Carr BD, **Kohne J**, Ralls MW, Sassalos P, Ohye RG, Odetola FO, Gadepalli SK: Venogram before long-interval repeat cannulation for pediatric extracorporeal membrane oxygenation. *Perfusion*.Online05/2020. PM32460608
5. Carlton EF, **Kohne JG**, Hensley MK, Prescott HC: Comparison of Outpatient Health Care Use Before and After Pediatric Severe Sepsis. *JAMA network open*.3(9): e2015214-e2015214, 09/2020. PM32910194
6. Dahmer MK, Flori H, Sapru A, **Kohne J**, Weeks HM, Curley MA Q, Matthay MA, Quasney MW: Surfactant Protein D Is Associated With Severe Pediatric ARDS, Prolonged Ventilation, and Death in Children With Acute Respiratory Failure. *Chest*.158(3): 1027-1035, 09/2020. PM32275979
7. Gorga SM, Carlton EF, **Kohne JG**, Barbaro RP, Basu RK: Consensus Acute Kidney Injury Criteria Integration Identifies Children at Risk for Long-Term Kidney Dysfunction After Multiple Organ Dysfunction Syndrome. *Pediatr Nephrol*.36(6): 1637-1646, 06/2021. PM33427986
8. Gorga SM, Carlton EF, **Kohne JG**, Barbaro RP, Basu RK: Renal angina index predicts fluid overload in critically ill children: an observational cohort study. *BMC Nephrol*.22(1): 336, 10/2021. PM34635072
9. Ankola AA, Bailly DK, Reeder RW, Cashen K, Dalton HJ, Dolgner SJ, Federman M, Ghassemzadeh R, Himebauch AS, Kamerkar A, Koch J, **Kohne J**, Lewen M, Srivastava N, Willett R, Alexander PM A: Risk Factors Associated With Bleeding in Children With Cardiac Disease Receiving Extracorporeal Membrane Oxygenation: A Multi-Center Data Linkage Analysis. *Frontiers in cardiovascular medicine*.801/2022. PM35097029
10. Heneghan JA, Rogerson C, Goodman DM, Hall M, **Kohne JG**, Kane JM: Epidemiology of Pediatric Critical Care Admissions in 43 United States Children's Hospitals, 2014-2019. *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*.01/2022. PM35435887
11. **Kohne JG**, MacLaren G, Rider E, Carr BD, Mallory P, Gebremariam A, Friedman ML, Barbaro RP: Tracheostomy Practices and Outcomes in Children During Respiratory Extracorporeal Membrane Oxygenation. *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*.doi: 10.1097/PCC.00000000000029001/2022. PM35081085
12. **Kohne JG**, MacLaren G, Cagino L, Boonstra PS, Brodie D, Barbaro RP: Tracheostomy Practices and Outcomes in Patients With COVID-19 Supported by Extracorporeal Membrane Oxygenation: An Analysis of the Extracorporeal Life Support Organization Registry. *Crit Care Med*.50(9): 1360-1370, 09/2022. PM35607973
13. **Kohne JG**, Iwashyna TJ, Flori HR, Barbaro RP: Big Kids or Little Adults? Acute Lung Injury Research in Adolescents and Young Adults. *Ann Am Thorac Soc*.04/2023. PM37075304
14. Rogerson CM, Heneghan JA, **Kohne JG**, Goodman DM, Slain KN, Cecil CA, Kane JM, Hall M: Machine learning models to predict and benchmark PICU length of stay with application to children with critical bronchiolitis. *Pediatr Pulmonol*.58(6): 1777-1783, 06/2023. PM37014153

Clinical Care Guidelines

1. Palka C, Malakh M, Hill E, Baron E, Fisher J, **Kohne J**, Michalski A, Pehovic R, Roberts K, Townsend S, Vittorino R, Wester A: Family Centered Rounds, 03/2022. PM35901226

Chapters

1. **Kohne JG**, Flori HR: Risk Factors and Etiologies of Pediatric Acute Respiratory Distress Syndrome. In Shein SL, Rotta AT Ed. *Pediatric Acute Respiratory Distress Syndrome: A Clinical Guide*, Springer, (2019)

Non-Peer Reviewed

Case Reports

1. Hage A, Chick JF B, Srinivasa RN, Kuo KW, **Kohne JG**, Campbell AD, Gemmete JJ: Disseminated Intravascular Coagulation and Acute Liver Injury from Ethanol Embolization of an Arteriovenous Malformation. *J Vasc Interv Radiol*.29(3): 437-439, 03/2018. PM29455883

Meeting Abstract

1. **Kohne JG**, Dahmer MK, Weeks HM, Kaciroti N, Quasney MW, Sapru A, Curley MA Q, Matthay M, Flori H: Impact of Bilateral Infiltrates on Inflammatory Biomarker Levels and Clinical Outcomes of Children with Oxygenation Defect. *Crit Care Med.*48(6)06/2020

Other

1. RB L-FY M S L S K, Incidence TP A R D S, Investigators EP A R D I E, Injury TP A L, Network SI P A L I S: Prognostic relevance and inter-observer reliability of chest-imaging in pediatric ARDS: a pediatric acute respiratory distress incidence and epidemiology (PARDIE) study, 01/2020. PM32451578

2. Pollack B**, Barbaro RP, Gorga SM, Carlton EF, Gaies M, **Kohne JG**: Hospital ECMO capability is associated with survival in pediatric cardiac arrest. *Resuscitation.*: 109853, 05/2023

Abstract/Posters

1. **Kohne J**, Ohara M, Banks J, Castillo J: Maternal Nutrition in Rural Nepal: A Community-Based Participatory Research Approach, 2010 Global Health Conference, Cincinnati, OH, 2010

2. Banks J, **Kohne J**, Ofman G, Castillo H, Castillo J: A World of Opportunity: Disparities in Spina Bifida Care and Neurosurgical Evidence-Based Global Health Practice, 3rd Annual Global Health Conference, Cincinnati, OH, 2011

3. Banks J, **Kohne J**, Castillo J: Evaluating International Volunteer Opportunities: The Questions to Ask to Have a Positive Impact, UCCOM Research and Service Symposium, Cincinnati, OH, 2011

4. Zackoff MW, Carlisle A, **Kohne J**, Sweeny K, Tasman J, DeBlasio N, Statile N, Sobolewski B, Klein M: Development and Implementation of a Novel, Clinically Integrated, Comprehensive Resident-as-Teacher Curriculum, Pediatric Educational Excellence Across the Continuum (PEEAC) Conference, Atlanta, GA, 2015

5. Zackoff MW, Carlisle A, **Kohne J**, Sweeny K, Tasman J, DeBlasio N, Statile N, Sobolewski B, Klein M: Development and Implementation of a Novel, Clinically Integrated, Comprehensive Resident-as-Teacher Curriculum, 34th Annual Edward L. Pratt Lectures, Cincinnati, OH, 2015

6. **Kohne JG**, Quasney MW, Dahmer MK, Sapru A, Weeks H, Sturza J, Curley MA Q, Matthay MA, Flori H: Elevated plasma surfactant protein-D (SP-D) is associated with worse clinical outcomes in children with acute respiratory failure, American Thoracic Society International Conference, San Diego, CA, 2018

7. Carlton E, **Kohne J**, Prescott H: 1681, *Critical Care Medicine*.47, : 814, 2019

8. Carlton E, **Kohne J**, Prescott H: New Technology Dependence and Comorbidities After Pediatric Severe Sepsis, Society of Critical Care Medicine, San Diego, CA, 2019

9. **Kohne JG**, Dahmer MK, Weeks H, Kaciroti N, Quasney MW, Sapru A, Curley MA Q, Matthay M, Flori H: Impact of bilateral infiltrates on the inflammatory biomarker profile and clinical outcomes of children with oxygenation defect, American Thoracic Society International Conference, Dallas, TX, 2019

10. Carlton E, **Kohne J**, Iwashyna T, Prescott H: 1559: OUTPATIENT HEALTHCARE UTILIZATION IS INCREASED FOLLOWING SEVERE SEPSIS HOSPITALIZATION IN CHILDREN, *Critical Care Medicine*.48, (1): 755-755, 2020

11. Carlton EF, **Kohne J**, Iwashyna T, Prescott H: Outpatient Healthcare Utilization Is Increased Following Severe Sepsis Hospitalization in Children, Society of Critical Care Medicine, Orlando, FL, 2020

12. Gorga S, Carlton E, **Kohne J**, Barbaro R: Kidney Injury Incidence in Multiple Organ Dysfunction Syndrome, Critical Care Congress, 2020, *Critical Care Medicine*

13. Gorga S, Carlton E, **Kohne J**, Barbaro R: 1432: KIDNEY INJURY INCIDENCE IN MULTIPLE ORGAN DYSFUNCTION SYNDROME, *Critical Care Medicine*.48, (1): 693-693, 2020

14. Alajbegovic K, Epler K, Stillwell T, Popova A, **Kohne J**: 305: Acute Respiratory Failure in a Healthy Adolescent: It's Not Always COVID-19, *Critical Care Medicine*.49, (1): 139-139, 2021