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Clinical Assistant Professor, Pediatric Critical Care Medicine  
University of Michigan Medical School  
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## **Education and Training**

2018-2019            Master's of Science in Health and Healthcare Research. University of Michigan, Ann Arbor MI

2015-2018            Pediatric Critical Care Medicine Fellowship, University of Michigan, Ann Arbor, MI

2012-2015            Pediatric Residency, University of Colorado/Children's Hospital Colorado, Denver, CO

2008-2012            M.D., The University of Toledo College of Medicine, Toledo, OH,

2003-2006            B.S. Biology (Cellular and Molecular), Kent State University, Kent, OH

## **Certification and Licensure**

2018-Present            Board Certification, Pediatric Critical Care Medicine, American Board of Pediatrics

2015-Present            Board Certification, Pediatrics, American Board of Pediatrics

2015-Present            Michigan Medical License 4301106894

## **Grants**

2018                    Janet Ferrantino Young Investigator Award, University of Michigan, Department of Pediatrics.

2016-2018            University of Michigan Multidisciplinary Research Training Program, Lung Immunopathology, T32 Training Grant

2016                    Percy J. Murphy, MD and Mary C. Murphy, RN Endowed Children's Research Fund, University of Michigan

## **Work Experience**

2018-Present      Clinical Assistant Professor, Department of Pediatrics, University of Michigan

## **Honors and Awards**

2018      Janet Ferrantino Young Investigator Award, University of Michigan, Department of Pediatrics

2017      University of Michigan Medical School Learning Environment Task Force Recognition

2017      Society for Pediatric Research Clinical Fellow Research Award, Annual Meeting of the Pediatric Academic Society, San Francisco, CA

2016      Fellow Award for Clinical/Health Services Research, Annual Pediatric Research Symposium, University of Michigan

2015      Bruce M. Garber Memorial Award, Children's Hospital Colorado, Residency Award Ceremony

2014      3<sup>rd</sup> Place Award, Outstanding Resident Poster Annual Pediatric Spring Poster Session, Children's Hospital Colorado

2013      Gold Humanism Honor Society, Resident Inductee, University of Colorado School of Medicine

2012      Marian M. Reject Award in Pediatrics  
Awarded to a medical student in pediatrics based on outstanding academic performance in pediatrics and excellent understanding of and compassion for children, The University of Toledo College of Medicine

2011      Dr. and Mrs. El-Shaffie Award  
Awarded to 4<sup>th</sup> year medical student with academic merit and interest in Pediatrics, The University of Toledo College of Medicine

2011      Gold Humanism Honor Society, Medical Student Inductee, The University of Toledo College of Medicine

- 2009 Lucas County Medical Alliance Community Service Award, The University of Toledo College of Medicine
- 2006 Mary Manchester Award  
Presented to a graduating senior who has shown superior scholarship, strong leadership and constructive citizenship, Kent State University

### **Memberships in Professional Societies**

- 2018-Present American Thoracic Society
- 2015-Present Society for Pediatric Research
- 2015-Present Society for Critical Care Medicine
- 2012-Present American Academy of Pediatrics

### **Teaching**

- 2018 Lecture: Post Intensive Care Syndrome in Children  
Pediatric Intensive Care Unit Nursing Learning Lecture-  
Continuing Medical Education
- 2017 Lecture: Liver Disease  
Pediatric Intensive Care Unit Nursing Learning Lecture-  
Continuing Medical Education
- 2017 Pediatric Resident Morning Conference  
Rapid Response Teams. C.S. Mott Children's Hospital, University  
of Michigan, Ann Arbor
- 2017 Mock Code and Pediatric Emergencies Simulations, M4 Pediatric  
Bootcamp, C.S. Mott Children's Hospital, University of Michigan,  
Ann Arbor
- 2016-2017 Lecture: Shock and Vasoactives  
Acute Care Pediatric Management, Nurse Practitioner Program  
University of Michigan
- 2016 Pediatric Resident Morning Conference

Lemierre's Syndrome and Shock. C.S. Mott Children's Hospital,  
University of Michigan, Ann Arbor

2016 Lecture: Fluid, Electrolytes and Acid-Base Balance  
Acute Care Pediatric Management, Nurse Practitioner Program  
University of Michigan

## **Committee, Organizational, and Volunteer Service**

2019-present Improving Pediatric Sepsis Outcomes Committee, University of  
Michigan

2017-2018 Chief Fellow, Pediatric Critical Care Medicine, University of  
Michigan

2016-2018 University of Michigan Cardiopulmonary Resuscitation  
Committee, House Officer Representative

2016-2018 University of Michigan Pediatric Critical Care Sedation  
Committee, Fellow Representative

2016-2018 University of Michigan Pediatric Critical Care Bereavement  
Committee, Fellow Representative

2010-Present Dylan James Fitzgerald Carlton Scholarship Committee

## **Bibliography**

### *Peer-Reviewed Journals and Publications*

1. **Carlton EF**, Barbaro RP, Iwashyna TJ, Prescott HC. The Cost of Pediatric Severe Sepsis. *JAMA Pediatr.* Aug 19, epub ahead of print.
2. Viglianti EM, Admon AJ, **Carlton EF**, Hensley MK, Prescott HC, Iwashyna TJ, McSparron JI. Publishing a clinical research manuscript: Guidance for early career researchers with a focus on pulmonary and critical care medicine. *Chest.* June 2019. Epub ahead of print.
3. Hensley MK, Donnelly JP, **Carlton EF**, Prescott HC. Epidemiology and Outcomes of Cancer-Related versus Non-Cancer-Related Sepsis Hospitalizations. *Crit Care Med.* July 2019, epub ahead of print.

4. **Carlton EF**, Kohne JG, Shankar-Hari M, Prescott HC. Readmission Diagnoses after Pediatric Severe Sepsis Hospitalization. *Crit Care Med*. 2019 Apr;47(4):583-590. PMID 30676337.
5. **Carlton EF**, Prescott HC. Variations in Sepsis-Related Mortality; Implications for Performance Improvement. *Crit Care Med*. 2018 Nov;46(11):1871-1873. PMID 3031223
6. **Carlton EF**, Sontag MK, Younoszai A, DiMaria MV, Miller JI, Poindexter BB, Abman SH, Mourani PM. Reliability of Echocardiographic Indicators of Pulmonary Vascular Disease in Preterm Infants at Risk for Bronchopulmonary Dysplasia. *J Pediatr*. 2017 Jul; 186:29-33. PMID 28411949
7. **Carlton E**, Maholwald MK, Malas N. Management of Multifactorial Infant Delirium with Intravenous Haloperidol in the Setting of Over Sedation and Poor Enteral Absorption. *J Child Adolesc Psychopharmacol*. 2017 Apr; 27(3):289-290. PMID 27893294
8. Falcone T, **Carlton E**, Lee C, Janigro M, Forcen FE, Franco K, Janigro D. Does Systemic Inflammation Play a Role in Pediatric Psychosis? *Clin Schizophr Relat Psychoses*. 2015, 9(2):65-78. PMID 23491967
9. Falcone T, Mishra L, **Carlton E**, Lee C, Butler S, Janigro D, Simon B, Franco K. Suicidal Behavior in Adolescents with First Episode Psychosis. *Clin Schizophr Relat Psychoses*. 2010 Apr; 4(1):34-40. PMID 20643627
10. Granata T, Marchi N, **Carlton E**, Ghosh C, Gonzalez-Martinez J, Alexopoulos AV, Janigro D. Management of the patient with medically refractory epilepsy. *Expert Rev Neurother*. 2009 Dec; 9(12):1791-1802. PMID 19951138
11. Franz C, Federici T, Yang J, Backus C, Oh S, Teng Q, **Carlton E**, Bishop K, Gasmi M, Bartus R, Feldman E, Boulis N. Intraspinal cord delivery of IGF-I mediated by adeno-associated virus 2 is neuroprotective in a rat model of familial ALS. *Neurobiol Dis*. 2009 Mar; 33(3):473-81. PMID 19135533
12. Marchi N, Fan Q, Ghosh C, Fazio V, Betto V, Batra A, **Carlton E**, Najm I, Granata T, Janigro D.. Antagonism of peripheral inflammation reduces the severity of status epilepticus. *Neurobiol Dis*. 2009 Feb;33(2):171-81. October 2008. PMID 19010416
13. **Carlton E**, Teng Q, Federici T, Yang J, Riley J, Boulis NM. Fusion of the tetanus toxin C fragment binding domain and Bcl-xL for protection of peripheral nerve neurons. *Neurosurgery*. 2008 Dec; 63(6): 1175-82. PMID 19057331
14. Falcone T, **Carlton E**, Janigro D, Simon B, Franco K. Self-harm during first-

episode psychosis. *British Journal of Psychiatry*, August 2008. PMID 18670009

15. Mehta A, **Carlton E**, Franco K. Catatonia in adolescence: a case report. *Psychiatry (Edgemont)*. 2008 Apr; 5(4):37-41. PMID 19727308
16. Yang J, Teng Q, Garrity-Moses ME, McClelland S 3rd, Federici T, **Carlton E**, Riley J, Boulis NM. Reversible Unilateral Nigrostriatal Pathway Inhibition Induced Through Expression of Adenovirus-mediated Clostridial Light Chain Gene in the Substantia Nigra. *Neuromolecular Medicine*. 2007; 9(3): 276-84. PMID 17914186
17. Teng, Q, Garrity-Moses M, Tanase D, Liu JK, Mazarakis N, Azzouz M, Walmsley L, **Carlton E**, Boulis NM. Trophic activity of rabies G protein pseudotyped equine infectious anemia viral vector mediated IGF-I motor neuron gene transfer in vitro. *Neurobiol Dis*. 2005 Dec; 20(3):684-700. PMID 16005636

#### *Abstracts*

1. **Carlton E**, Kohne J, Prescott H. New Technologies and Comorbidities After Pediatric Severe Sepsis. Society for Critical Care Medicine; San Diego, California, 2019.
2. **Carlton E**, Close J, Dews A, Cornell T. Clinician Prediction of Multiple Organ Dysfunction Syndrome. Pediatric Academic Society; Toronto, Ontario, 2018
3. **Carlton E**, McHugh W, McDonough K, McGee B, Desch K, Cornell T. Markers of Endothelial Dysfunction for Predictive Enrichment in Pediatric Severe Sepsis. Pediatric Academic Society; San Francisco, California, 2017.
4. **Carlton E**, McHugh W, McDonough K, McGee B, Desch K, Cornell T. Markers of Endothelial Dysfunction for Predictive Enrichment in Pediatric Severe Sepsis. Wayne State/Michigan State Research Day; Detroit, Michigan, 2017.
5. **Carlton E**, Sontag M, Younoszai A, Miller J, Abman S, Mourani P. Inter-Reader Reliability of Echocardiogram Indicators of Pulmonary Hypertension in Preterm Infants at Risk for Bronchopulmonary Dysplasia. Pediatric Academic Society; Vancouver, Canada, 2014.
6. Yang J, **Carlton E**, Federici T, Bishop K, Backus C, Oh S, Teng Q, Riley J, Gasmi M, Bartus R, Feldman E, Boulis N. AAV-Mediated IGF-1 Delivery to the Cervical Spinal Cord of the SOD1 Rat Model of ALS Via Intraparenchymal Injection. American Society of Gene Therapy Annual Meeting, Seattle, Washington, 2009

7. Falcone T, **Carlton E**, Batra A, Franco K, Simon B, Janigro D. Monocytosis in a Group of Children with First Episode Psychosis. 14<sup>th</sup> Biennial Winter Workshop on Schizophrenia and Bipolar Disorders, Montreux, Switzerland, 2008.
8. Falcone T, Janigro D, Franco K, **Carlton E**. Inflammation, Psychosis and the Brain. What do we really know? Special Interest Workshop. 14<sup>th</sup> Biennial Winter Workshop on Schizophrenia and Bipolar Disorders, Montreux, Switzerland, 2008.
9. **Carlton E**, Janigro D, Franco K, Fattal O, Batra A, Marchi N, Falcone T. Is there an etiologic link between pediatric blood-brain barrier failure and acute psychiatric illness. 7<sup>th</sup> Cerebral Vascular Biology International Conference, Ottawa, Ontario, Canada, 2007.