



09/30/2024

## **Celia Elizabeth Ligorski D.O, MPH-Candidate**

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### **Present Title and Affiliation**

August 2024- Present      Clinical Instructor, Section of Emergency Medicine  
Department of Pediatrics  
University of Colorado School of Medicine  
Children's Hospital of Colorado, *Aurora CO*

### **Education**

08/2022- Present      The Ohio State University, School of Public Health, *Columbus OH*  
Biostatistics Master of Public Health Candidate

08/2013- 05/2017      Rowan University School of Osteopathic Medicine (Formerly the University of  
Medicine and Dentistry of New Jersey) *Stratford, NJ*  
Doctor of Osteopathic Medicine

09/2012- 05/2013      University of Medicine and Dentistry of New Jersey School of Biomedical  
Sciences, *Newark, NJ*  
Non-Matriculating Student

- Basic Histology, Fundamentals of Biomedical Sciences I, Regional  
Gross Anatomy: Back and Limbs, Molecular Genetics

08/2008- 05/2012      The Pennsylvania State University, *University Park, PA*  
Bachelor of Science, Nutritional Sciences

### **Post Graduate Medical Education and Training**

07/2021-06/2024      Nationwide Children's Hospital, *Columbus OH*  
Pediatric Emergency Medicine Fellow

07/2017- 06/2020      Nationwide Children's Hospital, *Columbus, OH*  
Pediatric Residency, Categorical Track

- Medical Education advanced competency
- Research Advanced competency

### **Academic Appointments**

07/2020-07/2021      Faculty General Emergency Medicine Pediatrician  
Pediatric Academic Association/Ohio State University  
*Columbus, OH*

08/2024      Clinical Instructor, Pediatric Emergency Medicine Physician  
Colorado Children's Hospital/University of Colorado  
*Denver, CO*

### **State Licensure and Certifications**

2024-Present      Medical License Colorado (Active)

2020-Present      Medical License Ohio (Active)

2020-Present      DEA (Active)

2020      Pediatric Board Certified #130162

2021- Present ATLS  
2017- Present PALS  
2017- Present ACLS  
2017-2021 NRP

### Honors and Awards

06/2024 Emergency Medicine 2024 Outstanding Fellow Researcher  
Department of Emergency Medicine  
Nationwide Children's Hospital. *Columbus, OH*

08/2022-09/2024 Nationwide Children's Hospital Clinical and Translational Research  
Intramural Grant  
Nationwide Children's Hospital, *Columbus, OH*

04/7/2022- Present Nationwide Children's Hospital, Department of Pediatrics Advanced Degree  
Funding  
Nationwide Children's Hospital, *Columbus, OH*

06/2020 Leslie Mihalov Outstanding Resident of the Year Award  
Emergency Medicine Resident  
Nationwide Children's Hospital. *Columbus, OH*

2016-Present Gold Humanism Honor Society  
Rowan University School of Osteopathic Medicine. *Stratford, NJ*

2010-2012 Alpha Epsilon Nu  
Pennsylvania State University. *University Park, PA*

2009-2012 Kappa Omicron Nu  
Nutritional Science Honors Society  
Pennsylvania State University, *University Park, PA*

2009-2012 The College of Health and Human Development Honors Society  
Pennsylvania State University. *University Park, PA*

### RESEARCH EXPERIENCE

#### Forthcoming Research

10/2021- Present **A Characterization of Post-Intubation Ventilation, Analgesia and Sedation in Children: PIVAS-C**  
Principle Investigator: Celia Ligorski DO, Daniel Cohen MD

- The goal of this study is to characterize post-intubation analgesia and sedation (PIAS) practices for children intubated in the PED. In addition, we will describe post-intubation mechanical ventilation documentation among for children intubated in the PED to inform quality.
- Nationwide Children's Hospital Intramural Grant Funding Award Received.
- Manuscript in process

- 09/2021- Present
- A National Characterization of ED post-intubation sedation practices using NHAMCS data.**  
Principle Investigator: Henry Wang MD, Daniel Cohen MD
- The proposed project aims to characterize post-intubation sedation practices for children/adults in the US, over a ten-year period: 2009 – 2019.
  - Unable to complete analysis due to inadequate power.
- Completed Research**  
10/2022-06/2024
- The Impact of Surgical Team Involvement at The Time of Trauma Activation for Pediatric Patients with Motorized Cycle or All-Terrain Vehicle Injury Mechanism**  
Principle Investigator: Katherine Bergus MD, Dana Schwartz MD
- The goal of this study is to characterize the impact of pediatric surgery presence at Level 2 Trauma activations due to all-terrain vehicles or motorized cycles (ATV/MC) on outcomes, ED course and disposition.
  - Abstract submitted to Pediatric Trauma Society, 9<sup>th</sup> Annual Meeting
  - **Published manuscript** in *Pediatric Emergency Care*
- 10/2017- 1/2020
- A Single Center Retrospective Case Series Evaluating the Use of Anakinra within the ICU for Patients Hyperferritinemic Multi-organ dysfunction Syndrome meeting Criteria for HLH**  
Nationwide Children's Hospital; Department of Pediatric Critical Care  
Principle Investigator: Jennifer Muszynski, MD
- Completed retrospective case series characterizing our experience using anakinra for children with hyperferritinemic MODS meeting diagnostic criteria for HLH. I performed retrospective chart review of 12 patients with hyperferritinemic MODS who met criteria for HLH admitted from 2003-2014.
  - Manuscript in revision.
- 12/2017-05/2018
- A Single Center Case Series of Didelphys Uterus, Including Uterus Didelphys with Obstructed Hemivagina and Ipsilateral Renal Agenesis (OHIVRA) aka Herlyn Werner-Wunderlich Syndrome, with a systematic Review**  
Southern California Kaiser Permanente; Department of Obstetrics and Gynecology  
Principle Investigator: Shadi Rezai, MD
- Literature Review
  - Three patient case series on patients who were diagnosed with OHIVRA, with associated review of Mullerian and other uterine abnormalities relationship to performance and pregnancy outcome.
  - **Published manuscript** in *Obstetrics and Gynecology International Journal*

2016- 2017      **Investigation of the role of American Civilian Physician knowledge, perception and role caring for the American Veteran**  
Ohio University Heritage College of Osteopathic Medicine; Department of Family Medicine  
Principle Investigator: Todd Robert Fredricks, DO, Masato Nakazawa PhD  
- Data collection and survey creation

2010- 2011      **Investigation of the psychological aspects of Surgical Weight Loss Program including observation of clinic visit, nutritional sessions, informational seminars, and surgery**  
Penn State Milton S. Hershey Medical Center; Department of Bariatric Surgery  
Principle Investigator: Ann Rogers, MD, FACS

### Medical Education Research

04/2018- 05/2020      **Effectiveness of an online module on pediatric resident perception of preparedness for pediatric intensive care unit rotation**  
Nationwide Children's Hospital; Department of Pediatric Critical Care  
Mentor: Claire Stewart, MD  
- Completed a needs assessment to identify weaknesses in resident preparedness prior to the pediatric critical care rotation. Subsequently created an education model using Articulate™ E-Learning software to fit the needs of residents and measured the impact of implementation of the curriculum on resident perceived preparedness.

### Quality and Improvement Research

12/2022- Present      **Post-Intubation Analgesia and Sedation Clinical Pathway**  
Nationwide Children's Hospital  
Mentor: Berkeley Bennett MD, Bridget Bonaventura MD  
The goal of the pathway is to provide appropriate post-intubation care including analgesia, sedation and mechanical ventilation to patients requiring rapid sequence intubation (RSI) and intubation for airway management in the emergency department.  
- Performing literature Review  
- Updating Epic provider intubation order-set  
- Data analysis  
- Pathway DevelopmentCreation  
- RSI and Post Intubation Order Set

10/2021- Present      **Suspected Nonfatal Strangulation Clinical Pathway**  
Nationwide Children's Hospital  
Pathway Leader: Betsy Schmerler MD  
The goal is to identify patients presenting to the PCD with evidence/reports of strangulation who require transfer to the ED.  
- Performing literature review  
- Pathway Creation  
- Presentation and education to clinical providers  
- Manuscript in process  
- [Strangulation Clinical Pathway.pdf](#)

03/2019- 07/2020

**Interventions to improve the accuracy of Problem List within Nationwide Children's Electronic Medical Record**

Nationwide Children's Hospital: Department of Pediatrics

Mentor: Robert Snyder, MD; Pediatric Section Chief

Employing and teaching providers to document effectively acute, chronic, critical, and historical problems and diagnoses, to provide better decision making and prediction of complications

**Medical Ethics Experience**

Summer 2014

Jewish Medical Ethics and Israel Experience

New England Institute of Medical Studies, The Schlesinger Institute and Shaare Zedick Medical Center

- Studied the basis for medical ethics as seen by the Jewish faith
- Evaluation and exploration of medical ethics, healthy psychology, Jewish thought and the exploration of Israel
- The purpose of the program is to enable Jewish and Secular perspectives to challenging medical issues confronting health care professionals

**Professional Activities**

07/2023- 06/2024

Pediatric Emergency Medicine Administrative Fellow

- Oversee PEM fellowship scientific journal review (i.e Journal Scan and Journal Club).
- Coordinate schedule and journal assignments for fellows
- Assist with scientific review, alongside departmental biostatistician

03/2023- Present

The Pediatric Emergency Care Applied Research Network (PECARN) - Critical Illness Interest Group

09/2018- 06/2020

Advanced Competency in Research

Nationwide Children's Hospital, Department of Pediatrics

- Accepted to partake in longitudinal curriculum and workshops for residents with significant interest in academic research
- Candidate for certification upon completion of requirements during residency

09/2018- 06/2020	Advanced Competency in Medical Education Nationwide Children's Hospital, Department of Pediatrics <ul style="list-style-type: none"> <li>- Accepted to partake in longitudinal curriculum and mentorship designed for residents with particular interest in medical education</li> <li>- Candidate for certification of Advanced Competency in Medical Education upon completion of requirements during residency</li> </ul>
09/2018- Present	Society of Critical Care Medicine, Resident Member
03/2016- Present	American Academy of Pediatrics, Member
06/2016- Present	Gold Humanism Honors Society, Member

**PUBLICATIONS**

**Peer-Reviewed Publications**

2017	Rezaei S, <b>Ligorski C</b> , Hughes A, Fuller PN, Henderson CE (2017) Three Cases of Didelphys Uterus, Including Uterus Didelphys with Obstructed Hemivagina and Ipsilateral Renal Agenesis (OHVIRA Syndrome) AKA Herlyn-Werner-Wunderlich Syndrome, with a Systematic Review. <i>Obstet Gynecol Int J</i> 7(2)
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**Book Chapters and Clinical Guidelines**

2023	Ligorski C, Jeong J (2023) Fleisher and Ludwig PEM 5-Minute Consult <i>Myocarditis</i> <ul style="list-style-type: none"> <li>- <i>Awaiting review</i></li> </ul>
2023	Ligorski C, Stukus K (2023) Fleisher and Ludwig PEM 5-Minute Consult <i>Sexually Transmitted Diseases</i> <ul style="list-style-type: none"> <li>- <i>Awaiting review</i></li> </ul>
2023	Ligorski C (2023) State of Ohio Pediatric Guidelines and Procedures Manual <i>2023 Narrow Complex Tachycardia</i>

**Oral Presentation**

4/2023	<b>Ligorski C</b> , Helwig S, Kitzmiller M, Rust L, Bennett B, Cohen D. A Characterization of Post-Intubation Ventilation, Analgesia and Sedation in Children: PIVAS-C. Oral Presentation, Research Retreat 2023. <i>Columbus OH</i> <ul style="list-style-type: none"> <li>- Presentation was awarded Outstanding Presentation Award for breakout session <i>Optimizing Clinical Care in Emergency Medicine</i></li> </ul>
06/2020	Boutzoukas A, <b>Ligorski C</b> , Steward C. A Pilot Study of Effectiveness of an eLearning Module to Prepare Residents for the Pediatric Intensive Care Unit. <i>Presented as a virtual oral presentation due to the COVID-19 pandemic at the Pediatric Academic Societies Medical Student/E-Learning SIG Workshop</i>
02/2019	<b>Ligorski C</b> , Muszynski J, Hall MW. Anakinra for Hyperferritinemic MODS: A Single-Center Case Series. Research SnapShot Presentation, Society of Critical Care Medicine 48 <sup>th</sup> Annual Congress, <i>San Diego CA</i>

**Poster Presentation**

- 05/2024 **Ligorski C**, Helwig S, Kitzmiller M, Rust L, Bennett B, Cohen D. A Characterization of Post-Intubation Ventilation, Analgesia and Sedation in Children: PIVAS-C. Poster Presentation, Pediatric Academic Societies Toronto, Canada
  
- 11/2023 **Ligorski C**, Helwig S, Kitzmiller M, Rust L, Bennett B, Cohen D. A Characterization of Post-Intubation Ventilation, Analgesia and Sedation in Children: PIVAS-C. Poster Presentation, Abigail Wexner Research Institute Retreat 2023. Columbus OH
  
- 10/2020 Boutzoukas A, **Ligorski C**, Steward C. A Pilot Study of Effectiveness of an eLearning Module to Prepare Residents for the Pediatric Intensive Care Unit. The Research Institute at Nationwide Children’s Research Retreat 2020. Columbus OH
  
- 10/2018 **Ligorski C**, Muszynski J, Hall MW. Anakinra for Hyperferritinemic MODS: A Single-Center Case Series. The Research Institute at Nationwide Children’s Research Retreat 2018. Columbus OH

**Past Leadership Experience**

- 08/2019-06/2020 Fellow Resident Advisory Committee: **Elected Member**  
Nationwide Children’s Hospital, Department of Graduate Medical Education  
Elected chair of this committee which serves as liaison between trainees and hospital Graduate Medical Education leadership to address trainee concerns and improve communication with resident and fellow bodies
  
- 2013- 2015 Rowan School of Osteopathic Medicine OMM Clinic, *Stratford, NJ*  
Created and implemented a clinic training program for student doctors to participate in the free clinic
  
- 2015- 2017 Camden Health Clinic, *Camden, NJ*
  - Free community clinic providing comprehensive health care and education to underserved communities
  
- 2014- 2015 Synapse, Wellness Chair, *Stratford NJ*
  - Created and implemented healthcare activities and education platforms for Rowan University undergraduate and graduate students
  
- 2009-2012 THON Hospitality Captain, *University Park, PA*
  - THON is the largest student- run philanthropy in the world, which provides financial and emotional support to pediatric oncology patients and their families.

THON Hospitality Captain

  - Worked as a liaison with community sponsors and university officials, coordinated training sessions and supervised volunteers and committee members
  
- 2009- 2011 Presidential Leadership Academy, *University Park, PA*
  - Participated in courses and experiences to develop leadership fundamentals and skills

Chris

09/30/2024

2009- 2011

Facing Change Network, *University Park, PA*

- Hillel International sponsored role to engage students from different faiths cultures, political spheres and backgrounds to talk openly and build collective initiatives on campus