

Curriculum Vitae and Bibliography

Elizabeth Ristagno, MD, MSc

Present Academic Rank and Position

Vice Chair for Education - Division of Pediatric Infectious Diseases, Department of Pediatric and Adolescent Medicine, Mayo Clinic	08/2018 - Present
Electronic Medical Record (EMR) Director - Mayo Clinic Children's Center Primary Superuser for the Children Center	01/2020 - Present
Program Director - Fellowship, Division of Pediatric Infectious Diseases, Department of Pediatric and Adolescent Medicine	07/2020 - Present
Consultant - Division of Pediatric Infectious Diseases, Department of Pediatric and Adolescent Medicine, Mayo Clinic, Rochester, Minnesota	08/05/2020 - Present
Associate Professor of Pediatrics - Mayo Clinic College of Medicine and Science	12/01/2024 - Present

Education

University of Cincinnati, Cincinnati, Ohio - BS, Biological Sciences with Honors (Minor in Chemistry)	2002 - 2006
University of Louisville School of Medicine, Louisville, Kentucky - Doctorate of Medicine	2006 - 2011
University of Louisville School of Medicine, Louisville, Kentucky - Residency, Pediatric	2011 - 2014
University of Louisville School of Public Health, Louisville, Kentucky - MSc, Clinical Investigation Sciences	2014 - 2017
University of Louisville School of Medicine, Louisville, Kentucky - Fellowship, Pediatric Infectious Diseases Fellowship	2014 - 2017

Additional Education

Society for Healthcare Epidemiology of America (SHEA) Primer on Healthcare Epidemiology, Infection Control & Antimicrobial Stewardship	2015
Centers for Disease Control and Prevention (CDC) and Society for Healthcare Epidemiology of America (SHEA) Training Course in Healthcare Epidemiology	2016
Pediatric HIV/AIDS Training Course, Memphis, Tennessee	03/07/2017 - 03/08/2017
Defending Against Superbugs: An Interactive Case Study Managing an "Outbreak" of Carbapenem-Resistant Enterobacteriaceae (CRE) in a Hospital Setting SHEA	12/19/2017
Hospital Incident Command Systems: How to Lead When a Crisis Occurs SHEA	12/19/2017
Mayo Clinic Quality Academy Bronze Quality Essentials Course	01/15/2018
Mayo Clinic New Physician & Scientist: Communication in Healthcare	01/2018
Social Media for Health Care Certification from Mayo Clinic and Hootsuite	01/16/2018
Mayo Clinic Leadership Launch	06/06/2018
Mayo Clinic New Physician & Scientist: Presentation Skills	07/25/2018
Mayo Clinic New Physician & Scientist: Leading with Emotional Intelligence	08/06/2018
Mayo Clinic New Physician & Scientist: Professionalism & Values II	08/06/2018
Mayo Clinic Publishing Your Research	09/24/2018
Mayo Clinic Write Winning Grant Proposals	11/09/2018
Mayo Clinic New Physician & Scientist: Professionalism & Values III	04/29/2019

Clinical Immunology Society's Diagnostic School in Primary Immunodeficiency Diseases	07/2019
Crucial Conversations for Physician Leaders, Rochester, Minnesota	09/12/2019
Clinical Immunology Society's Summer School in Primary Immunodeficiency Diseases	10/2020
Writing for Biomedical Publication, Rochester, Minnesota	11/30/2022
Exploring the Potential of Generative AI in Teaching and Learning: A Hands-on Workshop Facilitated by Lilach Mollick, PhD, Rochester, Minnesota	11/14/2023
Equity, inclusion, and diversity training: A virtual reality experience, Rochester, Minnesota	01/08/2025

Certification

Board Certifications

American Board of Pediatrics

Pediatrics	2014 - Present
Pediatrics/Pediatric Infectious Diseases	2017 - Present

EPIC Certification

Physician Power User	2019 - Present
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Other Certifications

Mayo Clinic Quality Academy

Mayo Clinic Quality Fellow: Bronze Level Certification	2018
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Licensure

Kentucky	46864 (Medical)	2014 - 2018
Minnesota	62169 (Medical)	2017 - Present

Honors and Awards

University of Cincinnati Cincinnati Scholarship - University of Cincinnati, Cincinnati, Ohio	2002 - 2006
University of Cincinnati Women in Science and Engineering award - University of Cincinnati, Cincinnati, Ohio for undergraduate students for research	2005
Phi Beta Kappa Honor Society - Phi Beta Kappa Honor Society, Cincinnati, Ohio	2006
Phi Beta Kappa Science Award - Phi Beta Kappa Honor Society, Cincinnati, Ohio	2006
University of Louisville School of Medicine Summer Research Scholar Program - University of Louisville School of Medicine, Louisville, Kentucky	2007
University of Louisville School of Medicine Summer Research Scholar Program award recipient for medical student research - University of Louisville School of Medicine, Louisville, Kentucky	2007
Program award recipient - American Pediatrics Society-Society for Pediatric Research 45 recipients chosen nationally	2008
The Paul C. Grider Memorial Award for Outstanding Performance in the Introduction to Clinical Medicine (ICM) course - University of Louisville School of Medicine, Louisville, Kentucky Awarded to one person per year, recognizing outstanding performance in patient interviewing and evaluation in the ICM course	2008
The Paul C. Grider Memorial Award for Outstanding Performance in the	2009

Introduction to Clinical Medicine (ICM) course - University of Louisville School of Medicine, Louisville, Kentucky

Awarded to one person per year, recognizing outstanding performance in patient interviewing and evaluation in the ICM course

Pediatric Infectious Disease Award - University of Louisville School of Medicine, Louisville, Kentucky 2014

Given annually to the pediatric resident who best demonstrates sustained interest, clinical competence, and investigative effort in Pediatric Infectious Diseases

Pediatric Neurology Award - University of Louisville School of Medicine, Louisville, Kentucky 2014

Awarded annually to the pediatric resident who demonstrates outstanding ability in Pediatric Neurology

Fellow's Video Contest Winner - Pediatric Infectious Diseases Society 2015

Chairman's Achievement Award with Highest Honors - University of Louisville School of Medicine, Louisville, Kentucky 2017

The Chairman's Achievement Award is given to individuals in recognition of research performed during their residence or fellowship that was accepted for 1) publication in a peer-reviewed journal or 2) presentation at a national/international level conference. Highest Honors given to those graduates with three or more qualifying projects

Top Doctor in Minnesota by Minnesota Monthly - Minnesota Monthly, Rochester, Minnesota 2020

National Health Information Awards - National Health Information, Rochester, Minnesota 2020

Merit award for Patient Education information booklet "Recurrent MRSA Infections in Children"

Top Doctor in Minnesota by Minnesota Monthly - Minnesota Monthly, Rochester, Minnesota 2021

Outstanding Contributions to Pediatric Education - Department of Pediatric and Adolescent Medicine, Mayo Clinic, Rochester, Minnesota 01/25/2022

This award is given to a DPAM Staff Member who has taken the time and effort to make teaching trainees a priority and whose education efforts are innovative and effective.

Top Doctor in Minnesota by Minnesota Monthly - Minnesota Monthly, Rochester, Minnesota 2022

Top Doctor in Minnesota by Minnesota Monthly - Minnesota Monthly, Rochester, Minnesota 2023

Top Doctor in Minnesota by Minnesota Monthly - Minnesota Monthly, Rochester, Minnesota 2024

Previous Professional Positions and Major Appointments

Senior Associate Consultant - Division of Pediatric Infectious Diseases, Department of Pediatric and Adolescent Medicine, Mayo Clinic, Rochester, Minnesota 08/14/2017 - 08/04/2020

Associate Program Director - Fellowship, Division of Pediatric Infectious Diseases, Department of Pediatric and Adolescent Medicine, Mayo Clinic 09/30/2017 - 07/2020

Medical Specialist - Leadership Team, Mayo Hospital Incident Command System, Mayo Clinic Rochester Committees, Mayo Clinic 02/2018 - 12/2021

Instructor of Pediatrics - Mayo Clinic College of Medicine and Science 07/01/2018 - 11/30/2018

Assistant Professor of Pediatrics - Mayo Clinic College of Medicine and Science 12/01/2018 - 11/30/2024

Practical Pediatrics rotation director - Pediatric and Adolescent Residency Program, Mayo Graduate School of Medicine, Mayo Clinic College of Medicine and Science 12/2019 - 10/07/2024

Course Director - Pediatric Acute Care Simulation (SIM)

02/2020 - 02/01/2025

Course director for Pediatric Acute Care Simulation for pediatric residents

Associate Program Director - Pediatric and Adolescent Residency Program, Mayo Graduate School of Medicine, Mayo Clinic College of Medicine and Science

02/2020 - 02/2025

Service**Community Memberships and Services**

American Cancer Society Volunteer/Preceptor	2010
Atkinson Elementary School Volunteer	2008
Menomonie High School Guest Speaker	04/29/2021
Student Outreach at University of Louisville (SOUL), University of Louisville School of Medicine Representative	2007 - 2011
West Ridge High School Guest Speaker	01/08/2024

Professional Memberships and Societies**Professional Memberships and Services**

American Academy of Pediatrics Fellow (FAAP)	2008 - Present
American College of Physicians Member	2006 - 2011
American Medical Association Member	2006 - 2011
Clinical Immunology Society Member	2018 - Present
Greater Louisville Medical Society Member	2011 - 2017
Infectious Disease Society of America Reviewer, Scientific Manuscript	12/2020 - 08/2021
Infectious Diseases Society of America Member	2014 - Present
Kentucky Medical Association Member	2006 - 2017
Minnesota Medical Association Member	2017 - Present
Pediatric Infectious Diseases Society Member	2012 - Present
Committee Member, Education Committee	12/2019 - 12/19/2022
Education Director	11/2020 - Present
Chair, Education Committee	01/01/2022 - 12/31/2027
Fellow	2024 - Present
Phi Delta Epsilon International Medical Fraternity Member	2006 - Present
Phi Delta Epsilon Medical Fraternity President	2008 - 2009

Society for Healthcare Epidemiology of America Member	2014 - Present
Society for Pediatric Research (SPR) Junior Section Member	2015 - Present
Zumbro Valley Medical Society Member	2017 - Present

Journal Responsibilities

Journal Other Responsibilities

American Journal of Infection Control Reviewer	02/2024 - Present
American Journal of Transplantation Reviewer	11/2021 - Present
American Journal of Tropical Medicine & Hygiene Reviewer	03/2021 - Present
BMJ Case Reports Reviewer	06/2020 - Present
Clinical Infectious Diseases Reviewer	08/2020 - Present
Journal of Bone and Joint Infection Reviewer	01/2019 - Present
Journal of Child Neurology Reviewer	09/2019 - Present
Journal of Clinical Immunology Reviewer	11/2020 - Present
Journal of Neonatal-Perinatal Medicine Reviewer	03/2021 - Present
Journal of the Pediatric Infectious Diseases Society Content Reviewer (Reviewer for and acknowledged in: Clinical Practice Guideline by the Pediatric Infectious Diseases Society and the Infectious Diseases Society of America: 2021 Guideline on Diagnosis and Management of Acute Hematogenous Osteomyelitis in Pediatrics, PMID 34350458)	12/2020
Reviewer	11/2021 - Present
Pediatric Infectious Disease Journal Reviewer	02/2020 - Present
Pediatrics in Review Reviewer	03/2018 - Present

Education Interests and Accomplishments

Curriculum and Course Development

Practical Pediatrics for Pediatric Residents This opportunity aims to enrich the education of both individual participating residents, as well as our overall program. Potential benefits include increasing resident empathy for the parental role; gaining an in-depth perspective of day to day needs and cares of child at a particular stage and age of development, having understanding of popular online and local resources targeted to parents, encouraging parent support and mentorship among residents and faculty who have themselves gained expertise in caring for children of a wide age range, adopting children, or other less common situations such as caring for twins. Rochester, Minnesota	12/2019 - 10/2024
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Teaching

A Rare Case of Female Adolescent Abdominal Pain: Imperforate Hymen. University of Louisville School of Medicine Pediatrics Department Chairman's conference Louisville, Kentucky	03/29/2012
Hypernatremia and Central Diabetes Insipidus University of Louisville School of Medicine Pediatrics Department Chairman's conference Louisville, Kentucky	01/31/2013
Altered Mental Status in an Adolescent Female: A Lesson in Premature Closure University of Louisville School of Medicine Pediatrics Department Chairman's conference Louisville, Kentucky	03/20/2014
Red Book 59 Mini lectures on Red Book chapters, given to Pediatric Infectious Disease faculty and learners Case Conference Louisville, Kentucky	06/30/2014 - 06/30/2017
Journal club 8 Journal club presentations given to Pediatric Infectious Disease faculty and learners Journal club Louisville, Kentucky	06/30/2014 - 06/30/2017
EPIC electronic medical record customization lecture Given to interns 2014, 2015, 2016, 2017 Intern Orientation Louisville, Kentucky	2014 - 2017
Linezolid Tablet Usage in Kosair Children's Hospital Inpatients University of Louisville Antimicrobial Stewardship Task Force quarterly meeting Louisville, Kentucky	08/26/2014
Measles, Mumps, and Pertussis: Recognition and Management of Vaccine-Preventable Diseases University of Louisville School of Medicine Pediatrics Department Hospitalist conference Louisville, Kentucky	04/08/2015
Lost in Translation and Lost to Follow-Up University of Louisville School of Medicine Pediatrics Department Morbidity and Mortality conference Louisville, Kentucky	10/22/2015
Otitis Media, Acute Sinusitis, and Periocular Infections Kentucky National Association of Pediatric Nurse Practitioners conference Louisville, Kentucky	01/27/2017
Effect of Intranasal Mupirocin Prophylaxis on MRSA Transmission and Invasive Staphylococcal Infections in a Neonatal Intensive Care Unit Pediatric Research Conference Louisville, Kentucky	06/12/2017
Board review series for pediatric infectious diseases fellows Instituted and led board review series for pediatric infectious diseases fellows	2018 - Present
Fungi Lecture for Mayo Clinic Pediatric and Adolescent Medicine Residency Noon conference	04/10/2018
Common Pediatric Infectious Diseases Pediatric Clerkship core lecture for third year Mayo Clinic medical students 5/11/18, 8/28/18, 1/22/19, 5/21/19, 9/3/19, 4/15/20, 11/20/20, 5/5/21, 8/31/21, 1/18/22, 10/26/22, 7/10/23, 4/11/24, 3/3/25	05/11/2018 - Present

Category V CME, providing 48 Preceptor Hours Nurse Practitioner clinical residency program Rochester, Minnesota	2018 - 2019
Bone and Joint Infections Core conference series for pediatric infectious diseases fellows Given 8/3/18, 8/11/20, 9/21/22, 9/12/23	08/03/2018 - Present
Acute Infections Pediatric Fundamental Critical Care Support course Rochester, Minnesota	08/15/2018
EPIC electronic medical record introduction and customization lecture Given to interns 2019, 2020, 2021, 2022, 2023 Intern Orientation Rochester, Minnesota	06/2019 - Present
Immunodeficiency or Just Daycare? Lecture for Mayo Clinic Pediatric and Adolescent Medicine Residency Noon Conference Rochester, Minnesota	11/18/2019
Novel Coronavirus Infection Department of Pediatrics and Adolescent Medicine Grand Rounds	02/07/2020
Immunodeficiency or Just Daycare? Pediatric Clerkship lecture for third year Mayo Clinic medical students	04/16/2020
Bone and Joint Infections Lecture for Mayo Clinic Pediatric and Adolescent Medicine Residency	08/18/2020
Tick Tok: A review of tickborne diseases Lecture for Mayo Clinic Pediatric and Adolescent Medicine Residency 1/13/21, 5/15/23, 6/24/24	01/13/2021 - Present
Primary Immunodeficiencies Lecture for adult infectious diseases fellows Rochester, Minnesota	04/30/2021
Fever Spikes in Little Tikes: Fever in the Office, a case-based approach Lecture for Mayo Clinic Pediatric and Adolescent Medicine Residency	08/31/2021
A hospitalized 22 month old boy - A case demonstrating illness and management scripts Lecture for Mayo Clinic Pediatric and Adolescent Medicine Residency Morning Report	10/05/2021
A Case, A Diagnostic Dilemma, A Bias Lecture for Mayo Clinic Pediatric and Adolescent Medicine Residency Morning Report Rochester, Minnesota	03/15/2022
Immunodeficiency or Just Daycare? Lecture for Pediatric Infectious Diseases Fellowship 7/12/22, 7/18/23	07/12/2022 - Present
A Case of Cellulitis - Exploration of Clinical Reasoning Lecture for Mayo Clinic Pediatric and Adolescent Medicine Residency Morning Report Rochester, Minnesota	09/21/2022
Never Trust a Baby Lecture for Mayo Clinic Pediatric and Adolescent Medicine Residency Morning Report	10/11/2022
Ear, Nose, and Throat Infections Lecture for Mayo Clinic Pediatric and Adolescent Medicine Residency Noon Conference	01/04/2023
Back to the Basics: Things we probably learned at some point but have forgotten (or maybe never knew but was too afraid to ask!)	03/29/2023

Lecture for Mayo Clinic Pediatric and Adolescent Medicine Residency Chief Conference Rochester, Minnesota	
Periorbital and Orbital Cellulitis Lecture for Mayo Clinic Pediatric and Adolescent Medicine Residency Chief Conference Rochester, Minnesota	04/03/2024
Tick Tok: A review of tickborne diseases - The emergency medicine perspective Lecture for Mayo Clinic Pediatric and Adolescent Medicine Residency and Emergency Medicine Residency Noon Conference Rochester, Minnesota	01/07/2025
Clinical Pediatric Cases in Virology Mayo Clinic School of Medicine - Medical Microbiology course Rochester, Minnesota	02/04/2025
Infections in Primary Immunodeficiency Mayo Clinic School of Medicine - Medical Microbiology course Rochester, Minnesota	02/04/2025

Academy of Educational Excellence

Excellence in Education Administration and Leadership at the Fellow level on this date November 2019
 Excellence in Education Administration and Leadership at the Associate level on this date March 2019
 Excellence in Administration and Leadership at the Senior Fellow level on this date March 2022

Mentorship

Madigan, Theresa (Fellow) Description: Mentored Dr. Madigan while she was a pediatric infectious diseases fellow. Current Status: Pediatric Infectious Diseases consultant at Mayo Clinic Outcome: Oral presentation at IDWeek 2018 "Coincidence or Pattern?", "Mediastinal Histoplasmosis With Esophageal Perforation Presenting as Recurrent Polymicrobial Empyema and Pericarditis in a Previously Healthy Child" in J Pediatric Infect Dis Soc. 2019 Jun 13 Epub 2019 June 13	08/2017 - 06/2019
Campbell, Meredith (Resident) Description: Mentored Meredith while she was a pediatric resident. Current Status: Neonatology fellow at Vanderbilt University 2018-2021. Outcome: "Fever, Fussiness, and Poor Feeding in a 2-Month-Old Boy" publication in Pediatrics in Review.	10/2017 - 07/2019
Pai, Tanmayi (Mayo Medical Student) Description: Current Status: 3rd year medical student Outcome: Pai T, Ristagno EH, Holmberg PJ. Case 2: Low Back Pain in a 15-year-old Girl. <i>Pediatr Rev.</i> 2020 Aug; 41 (8):419-422 PMID: 32737255 DOI: 10.1542/pir.2018-0182	03/2018 - 01/2019
Marinelli, Lisa (Mayo Medical Student) Description: Current Status: Pathology resident at San Antonio Military Medical Center Outcome: PMID 32327459	03/2018 - 04/2020
Fattahi, Sayeh (Mayo Medical Student) Description: Current Status: Mayo Clinic Alix School of Medicine medical student Outcome: Publication of "Mediastinal Histoplasmosis With Esophageal Perforation Presenting as Recurrent Polymicrobial Empyema and Pericarditis in a Previously Healthy Child" in J Pediatric Infect Dis Soc. 2019 Jun 13 Epub 2019 June 13; poster presentation at Mayo Clinic Family Medicine Forum on October 28, 2019.	03/2018 - 10/2019

Levy, Emily (Fellow)

07/2018 - 07/2020

Description: Mentored Dr. Levy while she was a pediatric infectious diseases fellow, 2018-2020.

Current Status: Consultant in Pediatric Critical Care and Pediatric Infectious Diseases at Mayo Clinic

Outcome:

Hiskey, Lisa

07/2020 - 07/2023

Description: Mentored Dr. Hiskey while she was a pediatric infectious diseases fellow.

Current Status: Mayo Clinic Pediatric Infectious Disease fellow 2020-2023, St. Jude Children's Advanced Fellowship in Immunocompromised Children and Adolescents 2023-2024

Outcome: Oral presentation at PID Fellow Virtual Clinical Case Conference in the Immunocompromised Child (May 5, 2021), "Facial pain and numbness in a HSCT patient"; oral presentation at 2023 St. Jude/PIDS Transplant and Immunocompromised Hosts ID Symposium "Cough and worsening pulmonary function in a 14-year-old with bronchiectasis and remote heart transplant"; poster presentation at 2023 St. Jude/PIDS Transplant and Immunocompromised Hosts ID Symposium "Positive blood culture in patient with relapsed pre-B-cell ALL pending HSCT", "Prevention and management of human cytomegalovirus in pediatric HSCT recipients: A review" published in Frontiers in Pediatrics (PMID: 36507142)

Cardenas, Camila

08/2020 - Present

Description: Started mentoring Dr. Cardenas when she was a research trainee at Mayo Clinic.

Current Status: Mayo Clinic Pediatric Residency 2021-2024, pediatric GI fellow at Boston Children's Hospital.

Outcome: Successfully matched into pediatric residency at Mayo Clinic in 2021.

Reis, Christopher

03/2021 - Present

Description: Mentored Dr. Reis while he was a pediatric resident and pediatric infectious diseases fellow. Mentored Dr. Reis in "Vaccination Rates at Time of Transplant for SOTs", receiving 3rd place at Pediatric Research Day.

Current Status: Mayo Clinic Pediatric Infectious diseases fellow

Outcome: Mayo Clinic Pediatric Infectious diseases fellow

Li, Guyu

07/2023 - Present

Description: Mentored Dr. Li while he was a pediatric resident and pediatric infectious diseases fellow.

Current Status: Mayo Clinic Pediatric Infectious diseases fellow

Outcome: Mayo Clinic Pediatric Infectious diseases fellow

Shieb, Mohamad (Resident Physician)

11/2023 - Present

Description:

Current Status: PGY-2 Pediatric resident at Medstar Georgetown University Hospital

Outcome: "Fever in a Pediatric Liver Transplant Recipient" oral case report presentation (top 4) at 23rd Annual St. Judes/PIDS Pediatric Infectious Diseases Research Conference, 2024.

Yao, Juliann (High School Student)

01/2025 - Present

Description: Rochester Public Schools' Mentorship in the Community Program

Current Status: High school student

Outcome:

Academic Career Development

Clinician-Teacher Certificate Program

08/01/2016 - 06/30/2017

University of Louisville School of Medicine, Department of Pediatrics
Louisville, Kentucky

MCSGME Program Director Workshop

01/08/2018 - 01/09/2018

Jacksonville, Florida

GRIT for Women in Medicine: Growth, Resilience, Inspiration, and Tenacity

09/20/2018 - 09/22/2018

Lake Tahoe, California

Master Class: Teaching Skills Annual Workshop
1/9, 1/16, 1/23

01/2019

Microaggressions Workshop
With visiting professor, Dr. Jyothi Marbin
Rochester, Minnesota

05/22/2019

Clinical Immunologic Society Diagnostic School
Clinical Immunologic Society
Boston, Massachusetts

07/25/2019 - 07/28/2019

MCSGME Program Director Workshop
Rochester, Minnesota

09/09/2019 - 09/10/2019

Career Advancement and Leadership Skills for Women in Healthcare
Harvard Medical School, Boston, Massachusetts

11/05/2020 - 11/07/2020

Creating the Missing Link for Integration of Science of Health Care Delivery
Concepts into Clinical Practice: Faculty development using a practical and
compelling story-based video approach.
American Medical Association, Accelerating Change in Medical Education
Innovation Grant Award.
Rochester, Minnesota

01/2021 - 05/2021

Findling Lecture: Education Scholarship Event

02/09/2021 - 02/10/2021

A collaborative event is sponsored by the Mayo Clinic School of Graduate Medical
Education (MCSGME), Academy of Educational Excellence (AEE) and The Office
of Applied Scholarship and Education Science (OASES). Two-day virtual event,
participants enterprise-wide will have the opportunity to engage in workshops, small
group discussions, and lectures with Mayo Clinic colleagues and two world-
renowned education scholars and journal editors, Dr. Kevin Eva and Dr. Gail
Sullivan.

AAMC Leadership Development Seminar for Women Faculty in Medicine and
Science

02/23/2021 - 02/25/2021

The seminar's curriculum is designed to provide women physicians and scientists,
at the assistant and associate professor level, with skills and strategies to help
navigate and direct their careers and seek opportunities pursuant to achieving their
leadership goals.

CORE Communication Skills for Mayo Clinic Leaders
Rochester, Minnesota

05/19/2021

MCSGME Program Director Workshop
Virtual Meeting due to COVID pandemic

09/14/2021

Capita3 21-day Leader Launch Program

11/2021

The Capita3 21-day Leader Launch Program is designed to launch early-career
female scientists into higher levels of confidence and effectiveness in a 21-day
period. Participants are selected in a competitive process.
Rochester, Minnesota

Mayo Clinic Faculty Development 2022: Empowering Biomedical Educators
Mayo Clinic Faculty Development 2022: Empowering Biomedical Educators

06/16/2022 - 06/19/2022

Mayo Clinic School of Graduate Medical Education Health Equity Curriculum
Health Equity Certificate from Arizona State University
Topics of health care disparities, cultural humility, health literacy, implicit bias,
health policy, nutrition, & social determinants of health

12/2023 - 07/2024

Educational Activities

I completed the University of Louisville School of Medicine Department of Pediatrics Clinician-Teacher Certificate
Program for faculty in 2017 while I was in fellowship. I have been the associate program director for Mayo Clinic's
Pediatric Infectious Diseases Fellowship 2017-2020, involved in the ACGME site visit for the Pediatric Infectious
Diseases Fellowship in September 2018, and instituted and lead the board review series for pediatric infectious

diseases fellows. As the program director for Mayo Clinic's Pediatric Infectious Diseases Fellowship since 2020, I oversee the curriculum and have created a unique and innovative elective in clinical and laboratory immunology.

I continue to implement transformative solutions, such as an autonomy guide which was adopted as a Mayo Clinic best practice. I have maintained ACGME accreditation for the fellowship every year. I have successfully mentored one of the pediatric infectious diseases fellows as well as a pediatric resident in securing one of the highly contested oral presentations at a national infectious disease conference. I have mentored medical students, pediatric residents, and subspecialty fellows in 12 oral/poster presentations at national conferences and 15 publications. As the Vice Chair for Education for Pediatric Infectious Diseases, I direct the medical education of pediatric infectious diseases fellows, as well as pediatric residents and medical students on the rotation. I enjoy teaching trainees on the infectious diseases service, and have given many lectures. In the faculty development realm, we implemented a novel "faculty development learning plan", which was recognized as a best practice in the ACGME site visit.

As the Associate Program Director of Curriculum of Mayo Clinic's Pediatric and Adolescent Medicine Residency, I oversee the clinical and medical knowledge content of the curriculum. I serve as the Course Director for the Pediatric Acute Care Simulation and the Rotation Director for the Practical Pediatrics elective, which I helped re-imagine. Due to my engagement and leadership in both trainee programs, I was asked to join the institutional Graduate Education Committee.

I have been an invited speaker at multiple Mayo Clinic-run CME courses including Pediatric Days, Infectious Diseases Practice Updates, Mayo Clinic Faculty Development Empowering Biomedical Educators, as well as the American Academy of Pediatrics Section on Cardiology and Cardiac Surgery. I have had various recognitions for my education efforts, including the 2022 Outstanding Contributions to Pediatric Education award and awarded the Senior Fellow level in the Mayo Clinic Academy of Education Excellence.

At a national level, I serve as the Chair of the Pediatric Infectious Diseases Society Education Committee, as well as serve on the American Board of Pediatrics practice analysis taskforce to inform the Pediatric Infectious Diseases Content Outline.

My passions in medical education include curriculum, evaluation, and creative educational approaches, such as gamification. I have created a virtual escape room at the national level, as well as was a founding member of the taskforce who produced the first ever in person escape room at IDWeek, the premier infectious diseases conference.

Institutional/Departmental Administrative Responsibilities, Committee Memberships and Other Activities

Mayo Clinic

Ask Mayo Expert COVID-19 Executive Committee	
Active Member	04/2020 - Present
Ask Mayo Expert Knowledge and Content Board	
Active Member	09/2018 - Present
Ask Mayo Expert, Committee for Infectious Diseases, Pediatrics content expert	
Active Member	01/2019 - Present
Neuroinfectious multidisciplinary knowledge content board for AskMayoExpert	
Active Member	02/2019 - Present
Pneumonia multidisciplinary knowledge content board for AskMayoExpert	
Active Member	02/2019 - Present
Urinary tract infection multidisciplinary knowledge content board for AskMayoExpert	
Lead	07/2021 - Present
Ask Mayo Expert Knowledge and Content Board for Pediatrics	
Clinical Competency Committee for the Pediatric Infectious Diseases fellowship	
Active Member	08/2017 - Present
COVID-19 Diagnostic Stewardship Taskforce	
Active Member	04/2020 - Present
Crisis Management Team - Blood Culture Bottles	
Member	07/2024 - Present

Pediatric Infectious Diseases representation	
Department of Pediatrics and Adolescent Medicine Diversity and Wellness Committee	
Member	04/2019 - Present
Epic Coordinating Committee for the Children's Center	
Active Member	09/2018 - Present
EPIC Superuser for Department of Pediatrics and Adolescent Medicine	
Super User	10/2017 - Present
Mayo Clinic Children's Center Visibility Committee	
Ad Hoc Member	05/2022 - Present
Mayo Clinic College of Medicine and Science	
Mayo Clinic Wilson Scholars Program	
Mentor	11/2021 - Present
The Wilson Scholars Program is a graduate medical education pathway program towards career advancement. External first second, and third year medical students are part of the formal program for one year with exposure to some of our MCSCPD coursework, resources, and informal relationship building with a Mayo Clinic physician/scientific mentor around mutual areas of clinical interest as well as dimensions of diversity.	
Mayo Clinic DPAM Pediatric to Adult Care Transition Project	
Lead Provider	11/2022 - 01/2023
Pioneered creation of Pediatric to Adult Transition toolkit project in the pediatric HIV clinic.	
Mayo Clinic Pediatric Subspecialty Lecture Series	
Co-Director	07/2020 - Present
MCASOM Mentorship Families	
Lead Physician	03/2019 - 07/2020
Pediatric Faculty and Leadership Development Committee	
Member	08/2024 - Present
The Faculty and Leadership Development Committee fosters the People and Culture side of the Pediatric Department to develop and support initiatives to enhance academic advancement and professional development, establish and maintain resources for mentorship and coaching, leadership, and support well-being and staff resilience.	
Pediatric Outpatient Practice Committee	
Member	07/2024 - Present
The Outpatient Practice committee works in partnership with the entire breadth of the pediatric surgical/procedural/medical and hospital practice to achieve institutional and Mayo Clinic Children's goals to align the fundamental care of children across the practice to connect, cure, and transform through the development, evaluation, and dissemination of outpatient best practices.	
Pediatric Residency Clinical Competency Committee	
Active Member	02/2020 - Present
Pediatric Taskforce for Pediatric Blood Culture Bottle Shortage	
Lead	07/2024 - Present
Led the Taskforce to address Mayo Clinic's pediatric blood culture bottle shortage	
Plummer Chart Subcommittee	
Member	10/2023 - Present
Enhance and support a single instance, converged Mayo Clinic EHR/RCM system supporting practice, education, and research.	
Program Evaluation Committee (PEC)	
Faculty Representative	12/2018 - 02/2020
Chair	02/2020 - Present

Pediatric and Adolescent Medicine Program Evaluation Committee (PEC) is responsible for the maintenance and advancement of all aspects of the educational curriculum of the residency program. As part of this mission, the PEC meets monthly to review the individual rotations to ensure they continue to meet the educational goals of the residency and its trainees.

Program Evaluation Committee for the Pediatric Infectious Diseases fellowship
Active Member 08/2017 - Present

Mayo Clinic in Rochester

Department of Pediatric and Adolescent Medicine
Pediatric Fellowship Program Directors Committee
Active Member 09/2017 - Present

Pediatric Residency Program
Baldwin Conference
Faculty Advisor 09/2019 - Present

Subspecialty Program Directors Subcommittee
Active Member 09/2017 - Present

Infection Prevention and Control
MD monthly
Active Member 12/2017 - 06/2020

Research Team
Active Member 12/2017 - 06/2020

Team
Active Member 12/2017 - 06/2020

Infectious Diseases Clinical Practice Committee
Active Member 12/2017 - Present

Infectious Diseases Infection Control Committee
Active Member 12/2017 - 06/2020

Mayo Clinic Rochester Committees
Subspecialty Training Subcommittee
Active Member 09/2017 - Present

Medicine-Pediatrics Graduate Education Committee
Member 01/2022 - Present
Medicine-Pediatric GEC provides oversight and governance of the Rochester-based GME programs in fields of internal medicine, cardiovascular disease, pediatrics, and their various subspecialties. The committee works on behalf of and reports to the Dean of MCSGME, to ensure that programs remain fully accredited, innovative and well-connected in the Rochester practice.

Neonatal-Perinatal Medicine Fellowship
Scholarly Oversight Committee

Member 11/2021 - 06/2022

For Dr. Stephanie Mavis
Member 07/2023 - Present

For Dr. Mark Kaczor
Member 07/2023 - Present

For Dr. Wentiirim Annankra
Member 07/2023 - Present

For Dr. Whitney Thompson

Patient Education
Contributing Author 12/2018 - Present
Recurrent MRSA Infections in Children

Activities at Other Institutions

Academic Grievance Committee, University of Louisville School of Medicine

Member	2015 - 2017
American Board of Pediatrics	
Task Force Member	06/2023 - 06/2024
American Board of Pediatrics Pediatric Infectious Diseases practice analysis taskforce to inform/update the Pediatric Infectious Diseases Content Outline	
Antimicrobial Stewardship Task Force, Kosair Children's Hospital	
Member	2014 - 2017
Committee on Child and School Health (Kentucky Medical Association)	
Member	2007 - 2011
Committee on Review of Introduction to Clinical Medicine (ICM) course, University of Louisville School of Medicine	
Leader	2007
Researched and compared effectiveness of ICM course at University of Louisville School of Medicine and benchmark institutions. Submitted report to Educational Policies Committee	
House Staff Council, University of Louisville School of Medicine	
Member	2015 - 2017
Infection Control Committee, Kosair Children's Hospital	
Member	2012 - 2017
Infectious Diseases Society of America	
Mentor	10/2019
IDSA Foundation's IDWeek Mentorship Program 2019	
Task force	05/2022 - 10/2022
Selected for IDSA Board-appointed task force to address fellows in training needs assessment	
Interdisciplinary Clinical Cases course, University of Louisville School of Medicine	
Liaison	2006 - 2009
Liaison between course director and students	
Introduction to Clinical Medicine Course Reform committee, University of Louisville School of Medicine	
Leader	2008
Wrote and submitted proposal to the Educational Policies Committee	
Introduction to Clinical Medicine, University of Louisville School of Medicine	
Liaison	2007 - 2009
Liaison between course director and students, facilitated additional learning opportunities	
New Innovations Technology committee, University of Louisville School of Medicine	
Leader	2007
Organized team and input data for student evaluations on clinical rotations	
Ohio Senior Classical League	
President	2003 - 2004
Led the college student division of the state Latin organization to the national convention, presided over state board meetings, organized the high-school level state convention of more than 1,000 attendees	
Patient Safety Committee, Kosair Children's Hospital	
Member	2011 - 2012
Pediatric Infectious Diseases Society	
Task Force Member	02/2019 - Present
Annual Pediatric Infectious Diseases Society (PIDS) Foundation Dinner Task Force	
Committee Member	10/2019 - 12/2022
Pediatric Infectious Diseases Society Education Committee (National committee)	
Vice Chair	01/01/2022 - 12/31/2023
Vice Chair of Education Committee	

Chair Chair of Education Committee	01/01/2024 - 12/31/2027
Pediatric Infectious Diseases Society Maintenance of Certification (MOC) Committee	
Member Evaluated submitted statements by participants from MOC-eligible sessions available at IDWeek 2018 for ABP MOC credit.	2018 - Present
Pediatrics Club, University of Louisville School of Medicine	
Secretary	2008 - 2009
Peer Professionalism Evaluations, University of Louisville School of Medicine	
Leader Initiated and facilitated data gathering to provide feedback to peers during clinical rotations	2009 - 2010
Phi Delta Epsilon Regional Leadership Conference	
Conference Coordinator Organized conference for attendees from 5 states	2009
Recruitment Sub-Committee, University of Louisville Pediatrics	
Member	2012 - 2014
Residency Recruitment, University of Louisville Pediatrics	
Member	2011 - 2014
Student Academic Grievance Committee, University of Louisville School of Medicine	
Representative	2008 - 2011

Presentations Extramural

National or International

Invited

Immunodeficiency or Just Daycare? Mayo Clinic Pediatric Days Chicago, Illinois	10/09/2018
Fever Spikes in Little Tikes: Fever in the Office, a case-based approach Mayo Clinic Pediatric Days Chicago, Illinois	10/07/2019
Tick Tok: A review of tickborne diseases Mayo Clinic Pediatric Days Chicago, Illinois	10/08/2019
Protecting yourself, your patients, and your families, and the future of COVID-19 International discussion of COVID-19, organized by the American Academy of Pediatrics - Section on Cardiology and Cardiac Surgery. American Academy of Pediatrics - Section on Cardiology and Cardiac Surgery Rochester, Minnesota	06/05/2020
MIS-C: A Mystery? COVID-19 Associated Complications Symposium at the American Society for Microbiology and World Microbe Forum Anaheim, California	06/21/2021
Images in Transplantation: Tongue Ulcer in a Pediatric Transplant Recipient American Journal of Transplantation webinar	10/05/2021
Autonomy and Entrustment Mayo Clinic Faculty Development 2022: Empowering Biomedical Educators Monterey, California	06/18/2022
Tiny Toasties: Pediatric Parechovirus and Enterovirus D68 Mayo Clinic Infectious Diseases Practice Updates 2023 Waikoloa, Hawaii	02/16/2023

Oral

- Coincidence or Pattern? The case of a 6 year old boy with frequent infections
Theresa Madigan MD (presenter), Tom Boyce MD, Elizabeth Ristagno MD
IDWeek 2018 Pediatric Fellow's Day 10/06/2018
- Recurrent infections in a 6 year old boy: A case of hyper-IgE syndrome
Clinical Immunologic Society (CIS) Diagnostic School in Primary Immunodeficiencies
Boston, Massachusetts 07/25/2019
- Hidden in Plain Sight: A Case of Cryptococcal Pneumonia in an Adolescent
Clinical Immunologic Society (CIS) School in Primary Immunodeficiencies 10/03/2020
- COVID-19 Vaccine Usage, Effectiveness, and Safety in Patients with Inborn Errors of Immunity: A USIDNET Registry Study 04/03/2022
John McDonnell (presenter)
Clinical Immunology Society
Charlotte, North Carolina
- Assessing the effective dose of isavuconazole, itraconazole, posaconazole, and voriconazole to achieve therapeutic serum levels in pediatric patients
KaShena Kennedy PharmD, RPh (presenter), Laura Dinnes PharmD, BCIDP, BCPPS, Linda Marshall PharmD, BCPPS, Kristin Mara MS, Elizabeth Ristagno MD, MSc 05/05/2022
31st Annual Pediatric Pharmacy Association Meeting
Norfolk, Virginia
- SARS-CoV-2 Vaccination Rates & Uptake of Tixagevimab-Cilgavimab Among a Cohort of Pediatric Solid Organ Transplant Recipients 06/04/2023
Reis CA (presenter), Ristagno EH, Madigan T
American Transplant Congress
San Diego, California
- Development of a Sedation Curriculum for Pediatric Residents 09/21/2023
Rachel King (presenter), Elizabeth Ristagno, Siobhan Pittock, Mark Mannenbach
Society for Pediatric Sedation Annual Conference
- Fever in a Pediatric Liver Transplant Recipient 03/08/2024
Mohamad Shieb (presenter), Elizabeth Ristagno
Oral case report presentation (top 4) at 23rd Annual St. Judes/PIDS Pediatric Infectious Diseases Research Conference, 2024.
Memphis, TN
- Assessment of Resident Learners' Neonatal Intubation Confidence After Live Animal Compared to Mannequin Training 05/17/2024
Meghan Cain (presenter), Mark Mannenbach, Jim Homme, Jay Homme, Christopher Bosley, Ray Stetson, Stephen Gleich, Cree Kachelski, Elizabeth Ristagno
Society for Academic Emergency Medicine (SAEM) 2024
Phoenix, Arizona
- Assessment of Reasons for Not Being Up-to-Date on Routine Vaccinations at the Time of Organ Transplant for Pediatric Liver, Kidney, and Heart Recipients. 06/02/2024
Reis CA (presenter), Ristagno EH, Madigan T
American Transplant Congress 2024
Philadelphia, Pennsylvania

Poster

- Quantitation of Nat1, Nat2, and Nat3 mRNA in the rat: investigation of tissue, gender and age-specific effects on gene expression 03/16/2008
Society of Toxicology Annual Meeting
Seattle, Washington
- Serum and urinary neutrophil gelatinase-associated lipocalin (NGAL) in septic vs. 11/08/2008

non-septic critically ill patients with acute kidney injury American Society of Nephrology Renal Week Philadelphia, Pennsylvania	
Urinary proteomic analysis of septic vs. non-septic ICU patients with acute kidney injury American Society of Nephrology Renal Week Philadelphia, Pennsylvania	11/08/2008
Effect of intranasal mupirocin prophylaxis on MRSA transmission and invasive staphylococcal infections in a neonatal intensive care unit IDWeek San Diego, California	10/10/2015
Effect of mupirocin prophylaxis on mupirocin susceptibility of MRSA isolates in a neonatal intensive care unit Society for Healthcare Epidemiology of America (SHEA) Atlanta, Georgia	05/20/2016
Emergence of Staphylococcus caprae in a Neonatal Intensive Care Unit IDWeek New Orleans, Louisiana	10/27/2016
Approach to the apneic and bradycardic infant: A case series in parechovirus encephalitis Critical Care Congress San Antonio, Texas	02/25/2018
Is Wellness Contagious? Spreading Wellness within the Division of Pediatric Infectious Diseases GRIT for Women in Medicine: Growth, Resilience, Inspiration, & Tenacity Ojai Valley, California	09/19/2019 - 09/21/2019
Is the Childless Pediatrician Less Confident? Assessing Physician Confidence in Providing Parenting Advice Margarita Corredor, MD; Megan Thorvilson, MD; Elizabeth Ristagno, MD; Siobhan Pittock, MBChB; Anna Kellund, MD; Jason Homme, MD; Ana Creo, MD Accepted at Pediatric Academic Societies (PAS) 2020 Meeting. Meeting canceled due to COVID-19 concerns. Philadelphia, Pennsylvania	05/03/2020
Development of a Sedation Curriculum for Pediatric Residents in the Pediatric Emergency Department Rachel King (presenter), Mark Mannenbach, Elizabeth Ristagno, and Siobhan Pittock Pediatric Academic Societies (PAS) 2024 Meeting, May 2-6, in Toronto, Canada.	05/03/2024
Isles of White in a Sea of Red: A Case Report on Dengue Fever Complicated by Hemophagocytic Lymphohistiocytosis Cody N. Hall M.D. M.S., Oluwatomini A. Fashina M.B.Ch.B. M.P.H., Guyu Li M.B.B.S., Elizabeth H. Ristagno M.D. M.Sc., Danielle R. Klima D.O. AAP National Conference & Exhibition	09/29/2024
A novel dominant negative variant of IRF8 in 2 patients: Clinical, phenotypic and biological characteristics Crescent Isham, Hyoungjun Ham, Elizabeth Ristagno, Cristina Correia, Scott Ennis, Richard Kandasamy, Kishore Garapati, Chen Zhang, Mindy Kohlagen, Elham Sadighi Akha, Maria Rodriguez-Quevedo, Destiny Schultz, Baoyu Chen, Thomas Boyce, Seth Gregory, Mira Kohorst, Surendra Dasari, David Murray, Kevin Halling, Benjamin Kipp, Attila Kumanovics, Hu Li, Akhilesh Pandey, Daniel Billadeuau, Amir Sadighi Akha (presenter) European Society for Immunodeficiencies Marseille, France	10/18/2024

Regional

Oral

- Phylogenetic Analysis of Darwin's Finches using AFLP Molecular Markers 09/05/2005
University of Cincinnati Women in Science and Engineering presentation for Honors in Biological Sciences thesis
Cincinnati, Ohio
- Nat1, Nat2, and Nat3 Relative mRNA Expression in Rapid Female and Rapid Male Rat Tissues 08/02/2007
University of Louisville School of Medicine Summer Research Scholars Program presentation
Louisville, Kentucky
- Effect of Intranasal Mupirocin Prophylaxis on MRSA Transmission and Invasive Staphylococcal Infections in a Neonatal Intensive Care Unit. 04/27/2017
Masters degree thesis defense, University of Louisville School of Public Health
Louisville, Kentucky
- Effect of Quality Improvement and Patient Safety Rotation on Resident Knowledge and Behaviors 12/21/2021
Siobhan Pittock, M.B., B.Ch. (presenter), Leah Heidenreich, M.D., Autumn Montville, M.D., Erin Knoebel, M.D., M.P.H., Megan Thorvilson, M.D., Elizabeth Ristagno, M.D., M.S., Amir Orandi, M.D., Kathryn Hutchins, D.N.P., R.N., Anna Kellund, M.D., Dawn Schultz, Natalie Price
Education Science Scholarship Symposium 2021

Poster

- Nat1, Nat2, and Nat3 relative mRNA expression in rapid female and rapid male rat tissues 10/16/2007
Research!Louisville
Louisville, Kentucky
- Quantitation of Nat1, Nat2, and Nat3 mRNA in the rat: investigation of tissue, gender and age-specific effects on gene expression 11/02/2007
Ohio Valley Society of Toxicology Annual Meeting
Indianapolis, Indiana
- Nat1, Nat2, and Nat3 relative mRNA expression in rapid female and rapid male rat tissues 11/28/2007
Brown Cancer Center Retreat
Louisville, Kentucky
- Quantitation of Nat1, Nat2, and Nat3 mRNA in the rat: investigation of tissue, gender and age-specific effects on gene expression 12/28/2007
Brown Cancer Center Retreat
Louisville, Kentucky
- Evaluation of a standing order for influenza immunization at a children's hospital 06/19/2017
University of Louisville School of Medicine, Department of Pediatrics Senior Poster Day
Louisville, Kentucky
- Is Wellness Contagious? Spreading Wellness within the Division of Pediatric Infectious Diseases 10/10/2019
Kern National Network on Caring and Character in Medicine Poster Symposium
Rochester, Minnesota
- Mediastinal Histoplasmosis With Esophageal Perforation Presenting as Recurrent Polymicrobial Empyema and Pericarditis in a Previously Healthy Child 10/28/2019
Sayeh Fattahi, B.S., Theresa Madigan, M.D., Nipunie S. Rajapakse, M.D., Elizabeth H. Ristagno, M.D.
Mayo Clinic Family Medicine Forum
Rochester, Minnesota
- The Lethargic Infant, Not Always Sepsis 03/04/2022

Matthew Authement, M.D. (presenter), Brandon Jones, M.D., M.S., Robert Kahoud, M.D., Elizabeth Ristagno, M.D., M.S.
Academic Pediatric Association Regions 5 & 6 Joint Virtual Conference
Virtual Meeting (COVID Pandemic)

Clinical Practice, Interests, and Accomplishments

Infection control, healthcare epidemiology, and emergency response

My interests include infection control and healthcare epidemiology. I have authored a manuscript on "Intranasal Mupirocin Prophylaxis on Methicillin-Resistant Staphylococcus aureus Transmission and Invasive Staphylococcal Infections in a Neonatal Intensive Care Unit" published in Infection Control and Hospital Epidemiology. I authored a chapter, "Central Line-Associated Bloodstream Infections" which was published in 2018 in "Pediatric Infectious Diseases: Essentials for Practice". I served as one of the pediatric Infection Prevention and Control (IPAC) physicians early in my career at Mayo Clinic, and received the following certificates from the Society for Healthcare Epidemiology of America (SHEA): "Defending Against Superbugs" and "Hospital Incident Command Systems". I also attended the SHEA/CDC Outbreak Response Training Workshop 2018. I served as the pediatric medical specialist for Mayo Clinic Hospital Incident Command System and ultimately was integral in the COVID-19 pandemic response in pediatrics at Mayo Clinic, serving on multiple committees and taskforces.

Immunocompromised host infectious diseases

My primary clinical practice is in pediatric infectious diseases in both the inpatient and outpatient settings. While I am passionate about taking care of all pediatric patients with infectious diseases, I am most passionate about immunocompromised host medicine. I am the physician who cares for our pediatric patients who live with HIV. I also have advanced training from the Clinical Immunologic Society and see patients with concerns for primary immunodeficiencies, as well as those with established primary immunodeficiency diagnoses. Finally, I have an interest in solid organ transplantation patients and bone marrow transplantation patients, and infections that affect them. I have consistently been recognized as Top Doctor in Minnesota by Minnesota Monthly every year since Pediatric Infectious Diseases category was added, in 2020.

Plummer Chart (Epic)

I obtained advanced certification for Epic and am not only a Super User for the Department of Pediatric and Adolescent Medicine, but also a Power User. I serve as the Electronic Medical Record Director for the Mayo Clinic Children's Center and through this role, collaborate and serve on the institutional committee Plummer Chart Subcommittee, and chair the Department of Pediatric and Adolescent Super Users committee and the Children's Center Epic Optimization Committee.

Diversity, Equity, and Inclusion Activities and Interest

- Mayo Clinic School of Graduate Medical Education Health Equity Curriculum Health Equity Certificate from Arizona State University, May 2024
- Mayo Clinic Wilson Scholars Program mentor (The Wilson Scholars Program is a graduate medical education pathway program towards career advancement. External first second, and third year medical students are part of the formal program for one year with exposure to some of our MCSCPD coursework, resources, and informal relationship building with a Mayo Clinic physician/scientific mentor around mutual areas of clinical interest as well as dimensions of diversity)
- Department of Pediatrics and Adolescent Medicine Diversity and Wellness Committee member
- Produced Mayo Clinic Children's Center Diversity and Inclusion video for promotion
- Formal mentorship of women and/or URiM faculty or students
- Publication of "Demographic Representation Among Speakers and Program Committee Members at the IDWeek Conference 2013-2021"

Research Interests and Accomplishments

During fellowship, I completed a Masters in Clinical Investigation Sciences, which helped me to build skills in clinical research development. I have served as a site PI on several studies.

Infections of patients with primary immunodeficiency and immunocompromised hosts

My clinical interests have broadened over time to include diagnosing and providing longitudinal care for primary immunodeficiency patients, as well as taking care of immunocompromised hosts. My academic work has reflected that. I have investigated and published on the infections these incredibly complex patients are at risk for and may acquire.

Infections affecting neonates and infants

Neonates and infants represent a distinct group particularly susceptible to infections, often presenting with symptoms that differ markedly from those seen in older children and adults. My collected publications in this field emphasize the unique challenges in diagnosing and treating infections in this age group. They highlight the necessity for specialized approaches and underscore the complexity of managing these cases, emphasizing the importance of tailored strategies, including infection control, to effectively address the specific needs of this vulnerable population.

Pharmacology and vaccination in pediatrics

My academic pursuits have evolved to focus on determining safe and effective antimicrobial dosages for children, a group traditionally underserved in terms of precise pharmacological dosing guidelines. The advent of the COVID-19 pandemic has further complicated this landscape, introducing new variables in the form of vaccinations and monoclonal antibody treatments, whose effects and dosages in children are not fully understood. This area of study underscores the critical need for pediatric-specific research and data, which is essential for ensuring safe and effective treatment protocols for our youngest and often most vulnerable patients.

Research Grants Awarded

Active Grants

Mayo Clinic

Project Leader	Hot topic: Fever and thermometers . Funded by Kid's Cup Award	08/2019 - 08/2020
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Completed Grants

Foundation

Principal Investigator	IDWeek 2015 Trainee Travel Grant. Funded by IDSA	01/2015
Principal Investigator	Children's Hospital Foundation Research Grant: Effect of monthly intranasal mupirocin prophylaxis on Staphylococcus isolates in a neonatal intensive care unit. Funded by Children's Hospital	01/2015 - 12/2016
Principal Investigator	Children's Hospital Foundation Travel Grant. Funded by Children's Hospital	01/2016 - 12/2016

Mayo Clinic

Co-Investigator	Assessment of resident learners' neonatal and infant intubation performance and confidence after live animal compared to a mannequin simulation training. Funded by SGP - Small Grants Program <\$10K	04/2022 - 04/2024
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Other

Research assistant, used AFLP molecular markers to explore evolution of Darwin's Finches of Galapagos with Dr. Kenneth Petren University of Cincinnati Cincinnati, Ohio	06/2005 - 06/2006
Research assistant, quantified N-acetyltransferase genes in various tissues with Dr. David Hein University of Louisville School of Medicine Louisville, Kentucky	05/2007 - 06/2007
Research assistant, discovered and identified biomarkers in acute kidney injury	07/2008 - 08/2008

sepsis patients with Dr. Prasad Devarajan
Cincinnati Children's Hospital Medical Center
Cincinnati, Ohio

Fellow, performed mupirocin susceptibility testing on MRSA isolates with Dr. Charles Woods 01/2015 - 06/2017
University of Louisville Department of Pediatrics
Louisville, Kentucky

Reviewer for educational card game, "Empiric" 11/2019
Educational game for learning guideline based antimicrobial selection for common and important infections in children.

World Doctor's Orchestra 06/2020 - 06/2020
Selected to perform in the World Doctor's Orchestra (WDO). The WDO was founded in 2008 and combines the pleasure of fine music with global medical responsibility. Three to four times a year, some 100 physicians from all over the world exchange their white coats for evening attire and perform a benefit concert for medical aid projects. While our daily work focuses on healing one patient at a time, as an orchestra we promote the conviction that neither national borders nor political or economic interests should limit access to basic healthcare.
Cancelled due to COVID-19 pandemic

Bibliography

Peer-reviewed Articles

1. Barker DF, Walraven JM, **Ristagno EH**, Doll MA, States JC, Hein DW. Quantitative Tissue and Gene Specific Differences and Developmental Changes in Nat1, Nat2 and Nat3 mRNA Expression in the Rat. Drug and Disposition. 2008; 36(12):2445-51. Epub 2008 Sep 17. PMID: 18799802 PMCID: PMC2596640
2. **Ristagno EH**. The Mask. Academic Pediatrics. 2017; 13(2):91-92. PMID: 23498078
3. **Ristagno EH**, Marshall GS. The Pediatric Infectious Diseases Developmental Screening Test 2.0. Journal of Infectious Diseases Society. 2017; 6(2):116-117. Epub 2016 Feb 20. PMID: 26903554
4. **Ristagno EH**, Bryant KA, Boland LF, Stout GG, Junkins AD, Woods CR, Myers JA, Espinosa CM. Effect of Intranasal Mupirocin Prophylaxis on Methicillin-Resistant Staphylococcus aureus Transmission and Invasive Staphylococcal Infections in a Neonatal Intensive Care Unit. Infect Control Hosp Epidemiol. 2018 Jun; 39(6):741-745 Epub 2018 Apr 02 PMID: 29606181 DOI: 10.1017/ice.2018.44
5. * **Ristagno EH**, Bhalla SC, Rasmussen LK. A Case Series of Parechovirus Encephalopathy: Apnea and Autonomic Dysregulation in Critically Ill Infants. J Child Neurol. 2018 Oct; 33 (12):788-793 Epub 2018 Aug 14 PMID: 30105932 DOI: 10.1177/0883073818789317
6. **Ristagno EH**, Marshall GS. Mittens and Booties Syndrome: A Unique Manifestation of Human Parechovirus Infection in Infants. Pediatr Infect Dis J. 2019 Sep; 38 (9):e223-e225 PMID: 31408057 DOI: 10.1097/INF.0000000000002412
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8. * Madigan T, Boyce TG, **Ristagno EH**. Coincidence or Pattern? A 6-Year-Old Boy With Frequent Infections. J Pediatric Infect Dis Soc. 2020 Apr 30; 9 (2):268-271 PMID: 32076712 DOI: 10.1093/jpids/piaa011
9. * Madigan T, Fattahi S, Rajapakse NS, **Ristagno EH**. Mediastinal Histoplasmosis With Esophageal Perforation Presenting as Recurrent Polymicrobial Empyema and Pericarditis in a Previously Healthy Child. J Pediatric Infect Dis Soc. 2020 Apr 30; 9 (2):272-276 PMID: 31192366 DOI: 10.1093/jpids/piz042
10. Pai T, **Ristagno EH**, Holmberg PJ. Case 2: Low Back Pain in a 15-year-old Girl. Pediatr Rev. 2020 Aug; 41 (8):419-422 PMID: 32737255 DOI: 10.1542/pir.2018-0182
11. * Kerber AA, Campbell MS, Rhodes SC, **Ristagno EH**. Fever, Fussiness, and Poor Feeding in a 2-month-old Boy. Pediatr Rev. 2021 Jan; 42 (Suppl 1):S4-S6 PMID: 33386349 DOI: 10.1542/pir.2018-0317
12. **Ristagno EH**, Bryant KA. Coronavirus Disease 2019 (COVID-19) and Children: Adding Another Piece to the Puzzle. Clin Infect Dis 2021 Jun 15; 72 (12):2218-2219 PMID: 32770233 PMCID: PMC7454354 DOI: 10.1093/cid/ciaa1182
13. Corredor MM, Thorvilson M, **Ristagno EH**, Pittcock S, Kellund A, Homme J, Creo A. Is the Childless Pediatrician Less Confident? Assessment of Physician Confidence in Providing Parenting Advice and Introduction of a Novel Approach to Anticipatory Guidance Training. Clin Pediatr (Phila). 2021 Oct; 60 (11-12):447-451 Epub 2021 Aug 20 PMID: 34416836 DOI: 10.1177/00099228211039951
14. Juhn YJ, Wheeler P, Wi CI, Bublitz J, Ryu E, **Ristagno EH**, Patten C. Role of Geographic Risk Factors in COVID-19 Epidemiology: Longitudinal Geospatial Analysis. Mayo Clin Proc Innov Qual Outcomes. 2021 Oct; 5 (5):916-927 Epub 2021 July 12 PMID: 34308261 PMCID: PMC8272975 DOI: 10.1016/j.mayocpiqo.2021.06.011
15. **Ristagno EH**, Johnson JN, Cofer SA. Tongue ulcer in a pediatric heart transplant recipient. Am J Transplant. 2021 Oct; 21 (10):3488-3490 PMID: 34624184 DOI: 10.1111/ajt.16698
16. Akuamoah Boateng G, **Ristagno EH**, Levy E, Kahoud R, Thacker PG, Setter DO, Boesch RP, Demirel N. A complicated presentation of pediatric COVID-19 with necrotizing pneumonia and pulmonary artery pseudoaneurysms. Pediatr Pulmonol 2021 Dec; 56 (12):4042-4044 Epub 2021 Sept 09 PMID: 34499812 PMCID: PMC8662131 DOI: 10.1002/ppul.25631
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social determinants of health in COVID-19 epidemiology: Longitudinal geospatial analysis in a midwest rural region. *J Clin Transl Sci.* 2022; 6 (1):e51 Epub 2021 Dec 27 PMID: 35651962 PMCID: PMC9108006 DOI: 10.1017/cts.2021.885

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Social Media Activity

1. Chief content creator and editor 2020-present; more than 1,000 followers. Editor and Chief. Twitter. Mayo Clinic Pediatric and Adolescent Medicine Residency Twitter @MayoPedsRes. 10/1/2020

* Indicates the primary author was a mentee of this author.

Indicates the authors contributed equally.