

CURRICULUM VITAE

Andrea Devaris-Martinez, MD

October 2025

DEMOGRAPHIC AND PERSONAL INFORMATION

Current Appointments

2024-present Neonatal-Perinatal Medicine Fellow, Johns Hopkins All Children's Hospital, St. Petersburg, FL

Personal Data

Johns Hopkins All Children's Hospital
Maternal Fetal Neonatal Institute
600 5th St South, Suite 3100
St Petersburg, FL 33701
787-403-7760
adevari1@jh.edu

Education and Training

Undergraduate

2013-2016 Bachelor of Science in Biology, Minor in Chemistry, Inter American University, San German, PR
GPA of 4.0, *Summa Cum Laude*

Doctoral

2017-2021 Doctor of Medicine, Universidad Central del Caribe School of Medicine, Bayamon, PR
Cum Laude

Postdoctoral

2021-2024 Residency, Pediatrics, Yale New Haven Children's Hospital, New Haven, CT
2024-Present Fellowship, Neonatal Perinatal Medicine, Johns Hopkins All Children's Hospital, St. Petersburg, FL

Professional Experience

2016 Laboratory Assistant, Inter American University, San Germán, PR
2019-2020 Laboratory Assistant and Tutor, Mastering Anatomical Techniques, Universidad Central del Caribe SOM, Bayamón, PR
2022 Editor, Yale Pediatric Survival Guide Neonatology Chapter, Yale Children's Hospital, New Haven, CT
2023 AMSPDC Annual Meeting, Frontiers in Science Symposium, Clearwater, FL
2023 Narrator, Track My Milk MyChart App, Yale Children's Hospital, New Haven, CT
Translated a power point deck and recorded a video/audio in Spanish explaining how to use the Track My Milk feature on MyChart as a breastmilk pumping log for Spanish speaking families in the newborn nursery
2023 Author, Apnea/Bradycardia NICU Clinical Pathway AgileMD, Yale Children's Hospital, New Haven, CT
2025 Author, Vitamin D Deficiency and Metabolic Bone Disease in NICU Clinical Pathway, Johns Hopkins All Children's Hospital, St. Petersburg, FL
2025 Program Delegate, Trainees and Early Career Neonatologists (TECaN)
Serve as the fellowship program delegate, acting as a liaison between the TECaN Regional

Fellow Representative and the Neonatology Fellowship Program, supporting communication, engagement, and advocacy for trainee needs and initiatives.

PUBLICATIONS:

Original Research [OR] None

Review Articles [RA] None

1. Ramírez N, **Devaris A**, Arroyo S, et al. (2020). “Síndrome de insuficiencia torácica (Thoracic insufficiency syndrome)”. *Acta Ortopédica Mexicana*, 34(4), 254-260. doi: 10.35366/97561

Case Reports [CR] None

Book Chapters, Monographs [BC] None

Books, Textbooks [BK] None

Editorials [ED] None

Guidelines/Protocols, Consensus Statement, Expert Opinion, Consortium Articles [GL]

1. Devaris A, Jensen P. Vitamin D Deficiency and Metabolic Bone Disease in NICU, Johns Hopkins All Children’s Hospital Clinical Pathways. 2025.

Letters, Correspondence [LT] None

FUNDING

EXTRAMURAL FUNDING None

INTRAMURAL FUNDING

Research Intramural Funding

Current

7/2025-Present “Utilizing PEA POD for body composition assessment to evaluate nutrition and growth outcomes in NICU Infants enrolled in the Intestinal Rehabilitation Program: A Prospective Observational Cohort Study”
JHACH Foundation IRG Pilot Research Grant, Maternal Fetal Neonatal Institute
\$19,975
PI: Shakeel, F
Role: Co-Investigator

Pending None

Previous None

CLINICAL ACTIVITIES

Clinical Focus

Training at a 97-bed level IV NICU has provided me extensive experience managing critically ill neonates with complex conditions. I have developed a strong clinical foundation in high frequency ventilation, nitric oxide therapy, therapeutic hypothermia, complex surgical and cardiac cases and antenatal counseling. Rotations include the cardiac ICU, congenital diaphragmatic hernia center and maternal-fetal medicine. I collaborated closely with specialized multidisciplinary teams including the intestinal rehabilitation, tracheostomy, pulmonary hypertension, and esophageal and airway teams. Clinical interests include optimizing nutrition for both premature and term infants, as well as providing specialized nutritional support for high-risk populations, including infants with intestinal pathologies.

Certification

Medical, other state/government licensure

2024-Present State Medical License, Florida
2021-2024 State Medical License, Connecticut

Boards, other specialty certification

2024-Present Board Certified, American Board of Pediatrics
2025 Neonatal Resuscitation Program, American Academy of Pediatrics
2025 Pediatric Advanced Life Support, American Heart Association
2025 Basic Life Support, American Heart Association

Clinical (Service) Responsibilities

2021- 2024 Pediatric Resident, Yale New Haven Children's Hospital, New Haven, CT, 1.0 FTE
2024-Present Neonatal and Perinatal Medicine Fellow, Johns Hopkins All Children's Hospital, Saint Petersburg, FL, 1.0 FTE

Clinical Productivity

2024-Present I am competent in performing the following procedures: neonatal resuscitation, endotracheal intubation, umbilical vein and artery catheter placement, needle thoracostomy, chest tube placement, lumbar puncture, procedural sedation and peripheral arterial line placement.

Clinical Draw from outside local/regional area (*reflecting national/international reputation*) None

Membership in or examiner for specialty board None

Clinical Program Building / Leadership

2025 Tiny Baby Program, Co-leader of the FENGI workgroup and active member of the respiratory workgroup. Multidisciplinary task force created to develop the first Small Baby Unit at Johns Hopkins All Children's Hospital. Members meet regularly to develop clinical guidelines, nursing protocols, and standardized education.

Clinical Demonstration Activities to external audience, on or off campus None

Development of nationally/internationally recognized clinical standard of care None

EDUCATIONAL ACTIVITIES

Educational Focus

Neonatal nutrition, quality improvement, and mentorship of trainees in high-acuity NICU settings.

Teaching

Classroom instruction

- 2023 Lecturer, “Resident Conference: HLH” A case presentation of a child diagnosed with hemophagocytic lymphohistiocytosis (HLH). A review of the diagnosis, pathophysiology, and management. Yale New Haven Children’s Hospital, New Haven, CT
- 2024 Lecturer, “Long QT Syndrome” A case review of neonate diagnosed with LQTS. Johns Hopkins All Children’s Hospital, St. Petersburg, FL.
- 2024 Lecturer, “PLUSS Randomized Clinical Trial Journal Club”. A discussion of the Intratracheal Budesonide Mixed With Surfactant for Extremely Preterm Infants, the PLUSS Randomized Clinical Trial. Hopkins All Children’s Hospital, St. Petersburg, FL.
- 2025 Lecturer, “PVID vs PCH”. A case review of neonate with pulmonary hypertension found to have Pulmonary Veno-Occlusive Disease (PVID). Discussion regarding diagnosis and differential diagnoses such as Pulmonary capillary hemangiomatosis (PCH). Johns Hopkins All Children’s Hospital, St. Petersburg, FL.
- 2025 Lecturer, “Outcomes of a Program to Reduce Birth-Related Mortality in Tanzania: Journal Club”. A review of a global health quality improvement initiative focused on program development to reduce birth-related mortality in Tanzania. Hopkins All Children’s Hospital, St. Petersburg, FL.
- 2025 Lecturer, “Neonatal nutrition board review”. A review of board relevant nutrition topics. Johns Hopkins All Children’s Hospital, St. Petersburg, FL.
- 2025 Lecturer, “Fenton Third-Generation Growth Charts of Preterm Infants Without Abnormal Fetal Growth: A Systematic Review and Meta-Analysis- Journal Club”. A review of the recently published third-generation Fenton growth charts. Hopkins All Children’s Hospital, St. Petersburg, FL.

CME instruction

- 2025 Lecturer, co-led a neonatal perinatal conference with obstetric colleagues on a case of an infant diagnosed with ornithine transcarbamylase (OTC) deficiency, including detailed maternal and infant history. Johns Hopkins All Children’s Hospital, St. Petersburg, FL.
- 2025 Lecturer, led a multidisciplinary morbidity and mortality conference of an infant with galactosemia and E.coli sepsis. Johns Hopkins All Children’s Hospital, St. Petersburg, FL.
- 2025 Lecturer, co-led a neonatal perinatal conference with obstetric colleagues on a case of an infant with Tracheoesophageal Fistula. Johns Hopkins All Children’s Hospital, St. Petersburg, FL.
- 2025 Lecturer, co-led a neonatal perinatal conference with obstetric colleagues on a case of an infant diagnosed with disseminated HSV-2, including detailed maternal and infant history. Johns Hopkins All Children’s Hospital, St. Petersburg, FL.

Workshops /seminars

- 9/2025 Participant, Difficult Airway Workshop. Completed a 3-hour simulation-based course on difficult airway management instructed by surgeons and anesthesiologists at the Johns Hopkins All Children’s Hospital Simulation Center. Johns Hopkins All Children’s Hospital, St Petersburg, FL.

Mentoring

Pre-doctoral Advisees /Mentees None

Post-doctoral Advisees /Mentees None

Thesis committees None

Educational Program Building and Curriculum Development

2017-2019 Class Representative, Clinical Skills Course, Universidad Central del Caribe SOM, Bayamon, PR

Served as a liaison between medical students and course leadership, including the Clinical Skills Simulation Center. Coordinated student communications and schedule reminders for assignments and simulation sessions.

RESEARCH ACTIVITIES

Research Focus

Neonatal nutrition and growth optimization with an emphasis on body-composition assessment to improve outcomes in preterm and medically complex infants, including those with intestinal pathologies. I am currently part of the Clinical and Translational Research Track at Johns Hopkins All Children's Hospital, where I am gaining foundational skills in study design, biostatistics, and implementation science. This training supports my ongoing research evaluating neonatal body composition to better guide future nutritional interventions and individualized care. Looking ahead, I aim to expand my research into global health settings, focusing on improving access to optimized nutrition.

Research Program Building / Leadership

2025- Present Johns Hopkins All Children's Clinical Translational Research Track (CTRT)
Accepted to a longitudinal research track consisting of structured didactic program, development and execution of an original research project, faculty/peer mentorship with quarterly presentations on progress. Topics include study design, IRB submission, data collection, grant and manuscript writing.

2025- Present Co-Investigator, Johns Hopkins All Children's Hospital
Project: Utilizing PEA POD for body composition assessment to evaluate nutrition and growth outcomes in NICU infants enrolled in the Intestinal Rehabilitation Program: A Prospective Observational Cohort Study
IRB-approved study with internal grant funding
Aiming to generate a first-author manuscript and national conference presentation
Mentor/Advisor: Fauzia Shakeel, MD

2025 Author, Johns Hopkins All Children's Hospital
Project: Congenital Long QT Syndrome (LQT2) in a neonate with maternal history: Case Report
Manuscript submitted and currently under editorial review for publication
Mentor/Co-author: Michelle Hojnicky, DO

2023–2024 Research Scholar, Yale New Haven Children's Hospital
Project: Role of neutrophils and monocytes in the pathogenesis of necrotizing enterocolitis
Conducted an in-depth literature review and immunology-focused analysis
Preparing first-author manuscript for submission
Mentor/Co-author: Oluwabunmi Olaloye, MD

- 2019–2020 Research Assistant, Universidad Central del Caribe School of Medicine, Bayamón, PR
Project: Quantitative analysis of excitatory synapses in the mouse medial entorhinal cortex
Gathered and analyzed neuronal connectivity data using microscopy and quantitative methods. Contributed to ongoing research on entorhinal cortex structure–function relationships
Mentor: Thomas Schikorski, PhD
- 2018 Research Co-author, La Concepción Hospital, San Germán, PR
Project: Comprehensive analysis of Thoracic Insufficiency Syndrome and the role of VEPTR in pulmonary function restoration
Conducted a meta-analysis of clinical literature on surgical interventions for Thoracic Insufficiency Syndrome and evaluated outcomes related to VEPTR implementation
Findings contributed to a review article manuscript published in 2020
Mentor: Norman Ramírez Lluch, MD
- 2015 Research Author, Department of Biology, Inter American University of Puerto Rico, San Germán, PR
Project: Identification of endophytic microbiota from *Citrus aurantifolia* in the region of San Germán, Puerto Rico
Isolated and characterized endophyte bacteria using culture techniques, Gram staining, and molecular identification. Evaluated microbial profiles with implications for Citrus Greening Disease
Mentor: Ana Pérez, MSc

Research Demonstration Activities None

Inventions, Patents, Copyrights None

Technology Transfer Activities None

SYSTEM INNOVATION AND QUALITY IMPROVEMENT ACTIVITIES

System Innovation Focus

I have a strong interest in patient safety and quality improvement. During my pediatric residency, I was a member of the Quality Improvement Track, where I participated in structured QI workshops and contributed to a project focused on improving metabolic bone disease screening in pre-term infants. Building on this foundation, I completed a patient safety and quality improvement course during fellowship, further strengthening my skills in designing and implementing data-driven interventions. This training has supported my ongoing fellowship QI work aimed at reducing vitamin D deficiency in preterm and term infants through the development of clinical guidelines to optimize monitoring and supplementation practices. These experiences have deepened my commitment to QI and highlighted the meaningful impact that structured, multidisciplinary initiatives can have on patient outcomes.

System Innovation and Quality Improvement efforts within JHMI:

- 2025-present Co-Project Lead, “Optimizing Early Detection and Management of Vitamin D Deficiency in NICU Patients”. Ongoing study currently in PDSA Cycle 4. IRB acknowledged. Goal of manuscript publication and national conference presentations. Johns Hopkins All Children’s Hospital, St. Petersburg, FL.
Mentor: Preceous Jensen, MD

1/2025 Patient and Quality Safety Program, Johns Hopkins All Children's Hospital, St. Petersburg, FL. Completed a 4-week course focused on principles of safe, high-quality patient care. As part of the curriculum, I developed a quality improvement project and received mentorship and structured feedback from experts in patient safety and healthcare quality.
Facilitator: Fauzia Shakeel, MD

System Innovation and Quality Improvement efforts outside of JHMI

2022- 2024 Project Lead, "Increasing Compliance with Metabolic Bone Disease Guidelines for Preterm Infants at a Level IV NICU", Yale New Haven Children's Hospital, CT
Quality improvement initiative aimed at enhancing bone health in preterm infants at risk for metabolic bone disease by increasing staff adherence to screening guidelines and reducing unnecessary blood draws.
Mentors: Noa Fleiss, MD; Sarah Taylor, MD

2021-2024 Member, Pediatric Residency Quality Improvement (QI) Track, Yale New Haven Children's Hospital, CT
Participated in structured QI workshops and curriculum activities focused on developing skills in process improvement and patient safety.

System Innovation and Quality Improvement Program Building/Leadership None

ORGANIZATIONAL ACTIVITIES

Institutional Administrative Appointments

2024-Present Fellow Representative, Nutrition Committee
Participate in policy updates, guideline development, and quality improvement discussions related to neonatal nutrition.

Editorial Activities

Editorial Board appointments None

Journal peer review activities None

Other peer review activities None

Advisory Committees, Review Groups/Study Sections

2024-Present NICU Nutrition Committee, Johns Hopkins All Children's Hospital
Multidisciplinary committee dedicated to optimizing nutritional practices and outcomes for infants. The group meets monthly to review clinical standards, address complex nutrition-related issues, and support ongoing quality improvement initiatives.

Professional Societies

2013- 2016 Member, Inter American University Honor Society
2013- 2016 Member, Caduceus Pre-medical Society
2014-2016 Tri Beta National Biologic Honor Society
2014-2016 Member
2015-2016 Vice-President

2017- Present	Member, American Medical Association
2017-2021	Pediatric Interest Group SOM
2019-2020	Treasurer, American Medical Association Chapter
2020- Present	Member, American Academy of Pediatrics
2021- Present	Member, Alpha Omega Alpha, Honor Medical Society
2021-2024	Member, Global Health Residency Track
2021-2024	Member, Quality Improvement Residency Track
2021-2024	Member, Research Residency Track
2024-present	Member, Trainees and Early Career Neonatologists
2024-present	Member, Tiny Baby Collaborative

Conference Organizer

Regional None

National None

International None

Session Chair None

Consultants None

RECOGNITION

Awards, Honors

2013-2016	“Letra Insignia” Award, Highest GPA of the Track and Field Team, Inter American University, San German, PR
2013-2016	Chancellor’s List
2013-2016	Honor Roll
2013-2016	Tri-Beta Honor Society
2016	University Athletic League Award
2016	Valedictorian, Class of 2016
2021-Present	Alpha Omega Alpha, Medical Honor Society
2025	Outstanding Abstract of the Year Award, Southeastern Association of Neonatologists Conference, Marco Island, FL

Invited Talks None

Visiting Professorships None

OTHER PROFESSIONAL ACCOMPLISHMENTS

Posters

5/2019	Ramírez N, Devaris A , Arroyo S. Comprehensive analysis of Thoracic Insufficiency Syndrome and its controversial treatment procedure. Does VEPTR aim to restore pulmonary function? 2 nd Clinical Research Summit, Sheraton Convention Center, San Juan, PR
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- 1/2020 Ramírez N, **Devaris A**, Arroyo S. Comprehensive analysis of Thoracic Insufficiency Syndrome and its controversial treatment procedure. Does VEPTR aim to restore pulmonary function? 3rd Novel Methodologies in Health Disparities Research Symposium, Recinto de Ciencias Medicas, San Juan, PR
- 2/2020 Ramírez N, **Devaris A**, Arroyo S. Comprehensive analysis of Thoracic Insufficiency Syndrome and its controversial treatment procedure. Does VEPTR aim to restore pulmonary function? 4th Interdisciplinary Research Symposium, School of Medicine San Juan Bautista, Caguas, PR
- 6/2022 **Devaris A**, Osborn R. A little bit of luck: Accidental discoveries and course correction. Pediatric Hospital Medicine Conference, Lake Buena Vista, FL
Clinical Conundrum- case of a patient with Aicardi-Goutières syndrome presenting with altered mental status discovered to be catatonia by noting a paradoxical effect to benzodiazepines.
- 7/2022 **Devaris A**, Osborn R. A little bit of luck: Accidental discoveries and course correction. New England Pediatric Hospital Medicine Conference, Virtual Presentation
- 4/2023 **Devaris A**, Fleiss N, Taylor S. Increasing compliance with metabolic bone disease guidelines for preterm infants at a level IV NICU” A Quality Improvement Initiative. Pediatric Academic Societies Meeting, Washington, D.C.
- 10/2023 **Devaris A**, Fleiss N, Taylor S. Increasing compliance with metabolic bone disease guidelines for preterm infants at a level IV NICU: A Quality Improvement Initiative. AAP National Conference and Exhibition, Washington, D.C.
- 5/2025 **Devaris A**, Weise M, Jensen P, Shakeel F. Optimizing Early Detection and Management of Vitamin D Deficiency in NICU Patients: A Quality Improvement Initiative. Southeastern Association of Neonatologists Conference. Marco Island, FL.
- 10/2025 **Devaris A**, Weise M, Jensen P, Shakeel F. Optimizing Early Detection and Management of Vitamin D Deficiency in NICU Patients: A Quality Improvement Initiative. Quality Improvement Project Poster Symposium, Johns Hopkins All Children’s Hospital, Saint Petersburg, FL

Oral/Podium Presentations None

Community Services

- 2013-2016 Academic Tutor, Inter American University, San German, PR
Helped foreign students/teammates on the track team achieve academic goals through tutoring and counseling
- 2017-2021 Clinical Assistant, “Padre Vernand” Clinic, San Juan, PR
Assisted in the Universidad Central del Caribe SOM student-run clinic with patient intake, history taking and physical evaluation
- 2017-2021 Clinical Assistant, Urban Medicine, Universidad Central del Caribe SOM, Bayamon, PR
Participated in clinics throughout several underserved communities around Puerto Rico performing glucose and cholesterol level tests, blood pressure monitoring, wound/ulcer inspection and educational services.
Delivered and administered medications during the aid response after Hurricane Maria and earthquakes in Puerto Rico.
- 2017 Volunteer, Fundación Abrazando la Niñez Internacional, Dominican Republic
Joined a one-week service excursion along fellow medical school classmates, where I performed general health screening and provided educational workshops for residents and children
- 2021 Charity for Haiti
Organized charitable donation of relief items for Haiti in the pediatrics residency program

2022, 2023 Volunteer, Health Come True Foundation, Dominican Republic
Participated in a pediatric clinic along fellow pediatric residents and attendings providing health services to children in an underdeveloped community