UNIVERSITY OF PENNSYLVANIA - PERELMAN SCHOOL OF MEDICINE

Curriculum Vitae

Date: 06/12/2025

Maria Fraga, MD

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| Address: | Children's Hospital of Philadelphia Division of Neonatology, 2 Main, Room 2NW15 3401 Civic Center Boulevard |
|  | Philadelphia, PA 19104 United States |
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| If you are not a U.S. citizen or holder of a permanent visa, please indicate the type of visa you have: |
|  | none (U.S. citizen) |
|   |  |  |  |  |  |
| Education: |
|  | 1999 |  | MD |  | University of Buenos Aires Medical School |
|  |  |  |  |  |  |
| Postgraduate Training and Fellowship Appointments: |
|  | 2000-2004 |  | Resident, Pediatrics, The Children's Hospital of Buenos Aires, Buenos Aires, Argentina |
|  | 2004-2005 |  | Fellow, Neonatology, National Pediatric Hospital of Buenos Aires, Buenos Aires, Argentina |
|  | 2005-2008 |  | Resident, Pediatrics, Albert Einstein Medical Center, Philadelphia, PA |
|  | 2008-2011 |  | Fellow, Neonatology, The Children's Hospital of Philadelphia |
|  | 2014 |  | Fellow, Point of Care Neonatal Echocardiography, Nicholas Evans MD, The Royal Prince Alfred Hospital, Sydney, New South Wales, Australia |
|  |  |  |  |  |  |
| Military Service: |
|  | [none] |
|  |  |  |  |  |  |
| Faculty Appointments: |
|  | 2011-2017 |  | Assistant Professor of Clinical Pediatrics, University of Pennsylvania School of Medicine  |
|  | 2017-2023 |  | Associate Professor of Clinical Pediatrics, University of Pennsylvania School of Medicine  |
|  | 2023-present |  | Professor of Clinical Pediatrics (Neonatology & Newborn Services), University of Pennsylvania School of Medicine  |
|  |  |  |  |  |  |
| Hospital and/or Administrative Appointments: |
|  | 2011-present |  | Attending Neonatologist, The Children's Hospital of Philadelphia |
|  | 2014-present |  | Director, Neonatal Point of Care Ultrasound Program, The Children's Hospital of Philadelphia |
|  |  |  |  |  |  |
| Other Appointments: |
|  | [none] |
|  |  |  |  |  |  |
| Specialty Certification: |
|  | 2008 |  | American Board of Pediatrics - Pediatrics |
|  | 2008 |  | The Children's Hospital of Philadelphia - Extracorporeal Membrane Oxygenation Certification |
|  | 2012 |  | American Board of Pediatrics - Neonatal-Perinatal Medicine |
|  |  |  |  |  |  |
| Licensure: |
|  | 2008 |  | Pennsylvania |
|  |  |  |  |  |  |
| Awards, Honors and Membership in Honorary Societies: |
|  | 1999 |  | Honor Diploma, University of Buenos Aires Medical School |
|  | 2011 |  | Henle Chair Award, Research Proposal "Cardiac Output Measurement in Neonates Using the Ultrasound Cardiac Output Monitor (USCOM): A Validation Study in Newborn Infants" |
|  | 2016 |  | Early Career Faculty Honor Roll by the Senior Resident Graduating Class, The Children's Hospital of Philadelphia |
|  | 2017 |  | Early Career Faculty Honor Roll by the Senior Resident Graduating Class, The Children's Hospital of Philadelphia |
|  | 2021 |  | Department of Pediatrics Alan R. Cohen Master Clinician Award 2021, Children's Hospital of Philadelphia |
|  | 2021 |  | Presidential Citation, Society of Critical Care Medicine |
|   |  |  |  |
| Memberships in Professional and Scientific Societies and Other Professional Activities: |
|  International: |
| 2017-Present | Pan American Hemodynamic and TnECHO Collaborative (Member) |
|  |  |  |  |
|  National: |
| 2005-Present | American Academy of Pediatrics |
|  |  |  |  |
| 2011-Present | National Institute of Child Health and Human Development (NICHD) Neonatal Research Network - Member, Subcommittee "Hydrocortisone treatment of cardiovascular insufficiency in term and late preterm infants: A randomized controlled trial", 2011-2016 - Member, Subcommittee "Effect of Hydrocortisone on the Cardiac Mass of Premature Intubated Infants", 2011-2016 - Member, Subcommittee "Milrinone in Congenital Diaphragmatic Hernia: A Pilot Trial", 2016-present |
|  |  |  |  |
| 2017-2020 | Society of Critical Care Medicine - Member, Critical Care Ultrasound, Pediatric and Neonatal Committee, 2017-2021 - Vice-Chair, Critical Care Ultrasound, Pediatric and Neonatal Committee, 2018-2019 - Chair, Critical Care Ultrasound, Pediatric and Neonatal Committee, 2019-2020  |
|  |  |  |  |
| 2017-Present | US TnECHO Collaborative (Member) |
|  |  |  |  |
| 2020-Present | American Society of Echocardiography (Member) |
|  |  |  |  |
| 2023-Present | AAP, Section on Emergency Medicine: POCUS in Pediatrics, Special Interest Group (Member) |
|  |  |  |  |
| 2023-Present | National Neonatal Point-of-Care Ultrasound Collaborative (Chair) |
|  |  |  |  |
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| Editorial Positions: |
|  | 2012-Present |  | Reviewer, The Journal of Pediatrics |
|  | 2014-Present |  | Reviewer, Pediatric Research |
|  | 2017-Present |  | Reviewer, Frontiers in Pediatrics |
|  | 2017-Present |  | Reviewer, Archives of Diseases in Childhood |
|  | 2017-Present |  | Editorial Scientific Board Member, Journal of "Hospital de Niños Ricardo Gutierrez" Buenos Aires, Argentina |
|  | 2018-Present |  | Reviewer, Journal of Ultrasound in Medicine |
|  | 2019-Present |  | Reviewer, American Journal of Perinatology |
|  | 2020-Present |  | Editorial Advisory Board, European Journal of Pediatrics |
|  | 2020-Present |  | Reviewer, European Journal of Pediatrics |
|  | 2022-Present |  | Editorial Advisory Board, Intensive Care Medicine Paediatric and Neonatal |
|  |  |  |  |
| Academic and Institutional Committees: |
|  | 2008-Present |  | Member, The Children's Hospital of Philadelphia Perioperative Committee |
|  | 2008-Present |  | Member, The Children's Hospital of Philadelphia Extracorporeal Membrane Oxygenation Committee |
|  | 2011-2014 |  | Physician Co-Chair, The Children's Hospital of Philadelphia Nutrition Continuous Quality Improvement Committee |
|  | 2011-Present |  | Member, The Children's Hospital of Philadelphia Neonatal Research Network |
|  | 2011-Present |  | Member, The Children's Hospital of Philadelphia Intestinal Rehabilitation Program Advisory Committee |
|  | 2017-Present |  | Member, Children's Hospital of Philadelphia, Division of Neonatology Bedside Ultrasound Quality Assurance Committee |
|  |  |  |  |
| Major Academic and Clinical Teaching Responsibilities: |
|  | 2007-Present |  | Instructor, Neonatal Resuscitation Program, Division of Neonatology, The Children's Hospital of Philadelphia |
|  | 2008-2011 |  | Instructor, Neonatology Clinical Conference Series, Nissen Fundoplication: Evidence Based Review; Enteroviral Mycarditis and ECMO: Outcomes; An Infant with Tuberous Sclerosis; An Infant with a CCAM and pneumopericardium; Cardiac stun on VA ECMO; Vein of Galen Malformation: Case Presentation; Oxygen Target Saturation in Preterm Babies; The Children's Hospital of Philadelphia |
|  | 2008-2011 |  | Instructor, Morbidity and Mortality Conferences - VSD and PDA Management; Hypoxic Ischemic Encephalopathy; Management of Hyperbilirubinemia in Premature Infants; Pulmonary Hemorrhage; Transverse Vaginal Septum and Manitoba Syndrome; The Children's Hospital of Philadelphia and Hospital of the University of Pennsylvania |
|  | 2009-2012 |  | Lecturer, Monthly Resident Curriculum Lecture Series, "Non-Invasive Ventilation," Hospital of the University of Pennsylvania, Philadelphia, PA |
|  | 2011-Present |  | Lecturer, Neonatal Fellows Physiology Curriculum - Respiratory Failure in Newborns Course, Perelman School of Medicine at the University of Pennsylvania |
|  | 2011-Present |  | Instructor, Neonatal-Perinatal Conference Series, - Chemotherapy and Pregnancy; Myelomeningocele MOMs Trial; Birth Trauma and Skeletal Dysplasias; Gestational Carriers; Congenital Heart Disease and Gestational Diabetes; Urogenital Sinus; Candida Sepsis in the NICU; Congenital Diaphragmatic Hernia; 5q Deletion Syndrome; Hospital of the University of Pennsylvania |
|  | 2011-Present |  | Lecturer, Annual ECMO Course for Physicians, The Children's Hospital of Philadelphia |
|  | 2011-Present |  | Lecturer, ECMO Specialist Training Course, The Children's Hospital of Philadelphia |
|  | 2012-Present |  | Lecturer, Monthly Resident Curriculum Lecture Series - The Surgical Neonate, The Children's Hospital of Philadelphia |
|  | 2012 |  | Lecturer, Neo-Surgical Education Day, "Necrotizing Enterocolitis: The NEST Trial," Hospital of the University of Pennsylvania, Philadelphia, PA |
|  | 2013-2016 |  | Instructor, Neonatology Clinical Conference Series - NEC and NEST Trial, The Children's Hospital of Philadelphia |
|  | 2013-2016 |  | Lecturer, Yearly Neonatal and Surgical Fellow's Didactics Lecture-NEC: Laparotomy versus Peritoneal Drainage in Infants <1000g. The debate continues, The Children's Hospital of Philadelphia |
|  | 2013-Present |  | Lecturer, Yearly Anesthesia Fellow's Lecture: Transitional Circulation, The Children's Hospital of Philadelphia |
|  | 2014-Present |  | Facilitator, ECMO Elective Pediatric Resident Rotation: Neonatal ECMO, The Children's Hospital of Philadelphia |
|  | 2014 |  | Lecturer, Clinical Consensus - Sedation of The Mechanically Ventilated Neonate, The Children's Hospital of Philadelphia |
|  | 2014 |  | Lecturer, "Severe Chronic Lung Disease Today: Diagnostic and Management Challenges, Use of 2D Echocardiogram in the Diagnosis and Monitoring of Pulmonary Hypertension," The Children's Hospital of Philadelphia |
|  | 2015 |  | Instructor, Fellow Boot Camp, The Children's Hospital of Philadelphia |
|  | 2015 |  | Instructor & Lecturer, Pediatric Emergency Medicine and Critical Care Medicine, Bedside Ultrasound Course, Fluid and Cardiac Function, The Children's Hospital of Philadelphia |
|  | 2016 |  | Instructor, PICC Line Placement Under Ultrasound: Guidance Sessions for Nurses and Nurse Practitioners, The Children's Hospital of Philadelphia |
|  | 2016 |  | Lecturer, Neonatology Fellows Didactics: Cardiovascular Physiology, Children's Hospital of Philadelphia |
|  | 2016 |  | Lecturer, Radiology Conference: NICU Point-of-Care Ultrasound Program, Children's Hospital of Philadelphia |
|  | 2017-Present |  | Presenter at monthly Neonatology Fellowship Didactics on Point-of-Care Ultrasound for first year (Junior) Fellows, Children's Hospital of Philadelphia |
|  | 2017-Present |  | Development of Fellowship Didactics Curriculum on Point-of-Care Ultrasound; NICU Ultrasound Program, Children's Hospital of Philadelphia |
|  | 2017-Present |  | Presenter at monthly Radiology Conference, Children's Hospital of Philadelphia |
|  | 2018-Present |  | Instructor, PICC Line Placement Under Ultrasound: Guidance Sessions for Neonatal Fellows, Children's Hospital of Philadelphia |
|  | 2018-Present |  | Presenter at monthly Neonatology Fellowship Didactics on Point-of-Care Ultrasound for second and third year (Senior) Fellows, Children's Hospital of Philadelphia |
|  | 2019 |  | Speaker, General Surgery Grand Rounds, "The case for Point-of-Care Ultrasound in Neonatology", May 2, 2019, Children's Hospital of Philadelphia |
|  | 2019 |  | "Singleton IUGR: Neonatal Challenges in Survivors" presented at the Children's Hospital of Philadelphia course on Fetal Diagnosis and Treatment, May 14-16, 2019, Philadelphia, PA |
|  | 2019-Present |  | Course Director, "Neonatal and Critical Care Medicine Bedside Ultrasound Course", The Children's Hospital of Philadelphia |
|  | 2019-Present |  | Panelist, Ultrasound Interest Group: "Careers in Ultrasound", University of Pennsylvania Perelman School of Medicine |
|  | 2019-Present |  | Fellowship Clinical Mentor, Jessica Gaulton, The Children's Hospital of Philadelphia |
|  | 2019-2021 |  | Fellowship Clinical Mentor, Thomas Pawlowski, The Children's Hospital of Philadelphia |
|  | 2019-2021 |  | Fellowship Clinical Mentor, Leah Carr, The Children's Hospital of Philadelphia |
|  | 2020-Present |  | Course Director, Monthly Ultrasound Simulation Didactics for Senior Fellows, The Children's Hospital of Philadelphia |
|  | 2020 |  | Course Director, CHOP Virtual Bedside Ultrasound Course and Advances in the Field, Children's Hospital of Philadelphia, PA |
|  | 2021 |  | Lecturer, Fellows Surgical Didactics, "Gastroschisis", Children's Hospital of Philadelphia, PA |
|  | 2021 |  | Lecturer, Neonatology Research Conference: "Point of Care Ultrasound in Neonatal Practice, Children's Hospital of Philadelphia, PA |
|  | 2022-Present |  | Lecturer, Hemodynamics on ECMO - Fellows, ECMO Course, The Children's Hospital of Philadelphia |
|  | 2022-Present |  | Lecturer, "Neonatal Point of Care Ultrasound as a Global Opportunity", 14th Annual Children's Hospital of Philadelphia, Pediatric Global Health Conference: Frontiers in Global Child Health, Philadelphia, PA |
|  | 2023-Present |  | Course Organizer, "Ultrasound Course", Children's Hospital of Philadelphia and Norfolk, Norfolk, VA |
|  | 2023-Present |  | Organizer, "Vascular Access Course", Children's Hospital of Philadelphia and Legacy Health, Portland, OR |
|  | 2023-Present |  | Organizer and Co-chair, "Ultrasound Course", Children's Hospital of Philadelphia and Dell, Austin, TX |
|  | 2024-Present |  | Course Director, "Attendings Clinical Skills in Ultrasound", Children's Hospital of Philadelphia, Philadelphia, PA |
|  | 2024-Present |  | Course Organizer, "Ultrasound Course", Children's Hospital of Philadelphia and University of Vermont, Burlington, VT |
|  | 2024-Present |  | Course Organizer, "Ultrasound Course", Children's Hospital of Philadelphia and Medical University of South Carolina, Charleston, South Carolina |
|  | 2024-Present |  | John R. Raymond Fellowship Mentor, Ashley Osborne, Children's Hospital of Philadelphia |
|  | 2025 |  | Lecturer, "Point-Of-Care Ultrasound Applications in the Delivery Room", Delivery Room of the Future A Conference Focused on Delivery Room Management of Newborns with Congenital Anomalies, Children's Hospital of Philadelphia, Philadelphia, PA |
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| Lectures by Invitation (Last 5 years): |
|  | Jan, 2020 |  | "Line Placement", Training in Pediatric Intensive Care and Neonatal Echocardiography (TINEC), Lausanne, Switzerland |
|  | Feb, 2020 |  | "Critical Care Ultrasound Pediatric and Neonatal Course", Faculty, Chair and Instructor, Society of Critical Care Medicine Annual Congress, Orlando, FL |
|  | Mar, 2020 |  | "Workshop on Ultrasound Guided Procedures in the Neonatal Intensive Care Unit", Instructor, 10th SEHA International Neonatology Conference, Abu Dhabi, United States of Emirates |
|  | May, 2020 |  | Workshop Clinician-performed ultrasound: Emergency cardiac assessment and intervention, Pediatric Academic Societies (PAS), Philadelphia, PA (cancelled due to COVID-19) |
|  | May, 2020 |  | Workshop. Ultrasound guided procedures in the neonatal intensive care unit, Pediatric Academic Societies (PAS), Philadelphia, PA (cancelled due to COVID-19) |
|  | Aug, 2020 |  | Precision Medicine: Point-of-Care Ultrasound in Neonatology, Virtual Grand Rounds, Clinica Alemana, Santiago de Chile, Chile |
|  | Oct, 2020 |  | Non-Invasive Technologies in the Hemodynamic Assessment of the Neonate, American Academy of Pediatrics, Virtual National Conference and Exhibition 2020 |
|  | Oct, 2020 |  | Procedural and Diagnostic Point-of-Care Ultrasound in Neonatology, 10th International Neonatology Conference On "Hottest Topics in Neonatal Medicine", Virtual Conference Abu Dhabi, UAE |
|  | Nov, 2020 |  | "Generalidades de la Ecografía Point of Care", Clinica Alemana in Santiago de Chile, Chile |
|  | Nov, 2020 |  | "Ecografía en accesos vasculares en neonatología", Clinica Alemana in Santiago de Chile, Chile |
|  | Nov, 2020 |  | "Hemodynamic changes and challenges in maintaining hemodynamic stability during infant ECMO", 2020 Neonatal-Infant ECMO International Forum & Workshop, Guangzhou Hospital, Guangzhou, China |
|  | Dec, 2020 |  | "Grand Rounds: The Case for Point-of-Care Ultrasound in Neonatology", Albert Einstein Medical Center, Philadelphia, PA |
|  | Feb, 2021 |  | Grand Rounds: "Point of Care Ultrasound in Neonatal Practice", Christiana Care Hospital, Newark, Delaware |
|  | Feb, 2021 |  | "Point of Care Ultrasound in Neonatal Practice", NEO: The Conference for Neonatology, Virtual Event |
|  | Mar, 2021 |  | "Building Strong Foundations: Point-of-Care Ultrasound Program Development", 3rd Lung Ultrasound in Neonates and Children (LAUNCH) Meeting, Online Event |
|  | Apr, 2021 |  | Grand Rounds: "Point of Care Ultrasound Guided Procedures in Neonatal Practice", Pediatric Emergency Medicine, The Hospital of Sick Children-Toronto, Canada |
|  | Jun, 2021 |  | "Use of Point-of-care Ultrasound for Line Placement", European Society of Paediatric and Neonatal Intensive Care (ESPNIC), Virtual |
|  | Jul, 2021 |  | "Ultrasound in neonatal care: diagnostic and procedural application", 38th National Congress of PediatricsThe Mexican Association of Pediatrics, Virtual |
|  | Aug, 2021 |  | "Diagnostic Applications in the Neonate", Society of Critical Care Medicine (SCMM), Chicago, IL |
|  | Sep, 2021 |  | "CDH Hemodynamics - Management of Hypotension and Use of Cardiac Ultrasound", 32nd Annual Extracorporeal Life Support (ELSO) Conference, Virtual |
|  | Sep, 2021 |  | "Point of Care in Neonatal Diagnostic and Procedural Ultrasound in Neonatology", XXIII Pediatric Research Symposium, XVI International Congress of Pediatrics of the College of Pediatrics of Nuevo Leon "Monterrey 2021", Virtual |
|  | Sep, 2021 |  | Grand Rounds: "Point-of Care Ultrasound (POCUS) Applications in Neonatology", Seattle Children's Hospital, Virtual |
|  | May, 2022 |  | "How to launch a POCUS program in a NICU?", 4th LAUNCH Lung Ultrasound in Neonates and Children, Paris, France |
|  | Jun, 2022 |  | Grand Rounds: "Point of Care Ultrasound Guided Procedures in Neonatal Practice", Pediatric Emergency Medicine, The Hospital of Sick Children-Toronto, Canada virtual |
|  | Sep, 2022 |  | "POCUS Webinar", How to Build a POCUS Program, Organization of Neonatal-Perinatal Medicine Programs Directors (ONTPD), Virtual |
|  | Sep, 2022 |  | Workshop: Definición y utilidades de "Ecografía Point of Care", Clinica Alemana Universidad del Desarrollo, Chile |
|  | Oct, 2022 |  | Workshop: POCUS Tech Lab European Academy of Paediatric Societies (EAPS), Barcelona, Spain |
|  | Oct, 2022 |  | "Focus in Neonatology: State of Art and CHOP's Experience", Bambino de Gesu Ospedale, Rome, Italy (virtual) |
|  | Oct, 2022 |  | "Neonatal Hemodynamics Webinar Series- Congenital Diaphragmatic Hernia: Phenotyping cardiovascular profile to provide precision management", Pan American Hemodynamics Collaborative, Virtual |
|  | Oct, 2022 |  | Moderator, "Monitoring and Management", NeoHeart 2022 Anaheim, CA |
|  | Oct, 2022 |  | Panelist, "Neonatal Hemodynamics Webinar Series", Pan American Hemodynamics Collaborative, Virtual |
|  | Nov, 2022 |  | POCUS for the Neonatal Spine, Societa Itanliana di Neonatologia, Convegno Internazionale di Neonatologia, Naples |
|  | Dec, 2022 |  | "Point of Care Ultrasound in Neonatal Practice", Neonatal Grand Grounds, McGill University, Montreal, Canada |
|  | Dec, 2022 |  | "Ecografía Point of Care en el paciente crítico neonatal y pediátrico", Global Medicine, Children's Hospital of Philadelphia, Dominican Republic |
|  | Dec, 2022 |  | CHOP Guest Speaker at CHOP Physicians Dinner, Santo Domingo, Dominican Republic. |
|  | Jan, 2023 |  | "POCUS Webinar", Curriculum Development. Organization of Neonatal-Perinatal Medicine Programs Directors (ONTPD), Virtual |
|  | Feb, 2023 |  | Workshop: POCUS, American Academy of Pediatrics Neonatal-Perinatal Practice Strategies, Scottsdale, AZ |
|  | Feb, 2023 |  | "The Case of Point of Care Ultrasound in Neonatology, American Academy of Pediatrics, Scottsdale, AZ |
|  | Mar, 2023 |  | "Pulmonary Hypertension and RV Function", Training in Pediatric Intensive Care and Neonatal Echocardiography (TINEC), Lausanne, Switzerland |
|  | Mar, 2023 |  | "Line Placement and Echo Assessment", Training in Pediatric Intensive Care and Neonatal Echocardiography (TINEC), Lausanne, Switzerland |
|  | Mar, 2023 |  | "Lunch Cases", Point of Care Ultrasound Course, Lucile Packard Children's Hospital Stanford, Palo Alto, CA |
|  | Mar, 2023 |  | "Program Development Panel Discussion", Point of Care Ultrasound Course, Lucile Packard Children's Hospital Stanford, Palo Alto, CA |
|  | Mar, 2023 |  | Workshop: "Thoracic Exam: Pneumonia, Pleural Effusion and Pneumothorax", 14th European Postgraduate Course in Neonatal and Pediatric Intensive Care Medicine University Children's Hospital Bern, Bern, Switzerland |
|  | Mar, 2023 |  | Workshop: "Vascular Access and Umbilical Cannulation in Neonates", 14th European Postgraduate Course in Neonatal and Pediatric Intensive Care Medicine University Children's Hospital Bern, Bern, Switzerland |
|  | Mar, 2023 |  | Workshop: "ECMO and Bedside Ultrasound", 14th European Postgraduate Course in Neonatal and Pediatric Intensive Care Medicine University Children's Hospital Bern, Bern, Switzerland |
|  | May, 2023 |  | Workshop: "Developing a Point of Care Ultrasound Program in Your Neonatal ICU What Does It Take? Pediatric Academic Societies (PAS), Washington DC |
|  | May, 2023 |  | Panelist: "INO for Congenital Diaphragmatic Hernia, Friend or Foe?", Neonatal Hemodynamics Research Centre (NHRC), virtual |
|  | Sep, 2023 |  | "What is the role of pulmonary vasodilators in CDH?", Session: Cardiovascular Implications in Patients With Congenital Diaphragmatic Hernia, 8th World Congress of Pediatric Cardiology and Cardiac Surgery, Washington, DC |
|  | Sep, 2023 |  | "Hypotension Phenotypes: Can we avoid ECMO?", Extracorporeal Life Support Organization (ELSO), Seattle, Washington |
|  | Oct, 2023 |  | "The role of Pulmonary Vasodilators in CDH", Jornadas de Neonatología Hospital Garrahan, Bueno Aires, virtual |
|  | Oct, 2023 |  | "Non-Invasive hemodynamic monitoring in the NICU: which tool is best?", Lung Ultrasound in Neonates and Children (LAUNCH), Milano, Italy - virtual |
|  | Nov, 2023 |  | Panelist, "Unveil the Unknown with the Crashing Infant Protocol", National POCUS Collaborative, virtual |
|  | Dec, 2023 |  | "Basic Cardiac Views", PICU and NICU Point of Care Ultrasound Course, Dell Children's Medical Center, Austin, TX |
|  | Dec, 2023 |  | "Translating Point of Care Training to Clinical Care", PICU and NICU Point of Care Ultrasound Course, Dell Children's Medical Center, Austin, TX |
|  | Jan, 2024 |  | Workshop: "Introduction to Cardiac Ultrasound", Pediatric Point of Care Ultrasound CME Workshop, Austin, TX |
|  | Jan, 2024 |  | Workshop: "Advanced Procedural Applications", Pediatric Point of Care Ultrasound CME Workshop, Austin, TX |
|  | Jan, 2024 |  | "POCUS: Line Placement", Training in Pediatric Intensive Care and Neonatal Echocardiography (TINEC), Lausanne, Switerzland |
|  | Jan, 2024 |  | "Cardiac Session: Pulmonary Hypertension and RV Function", Training in Pediatric Intensive Care and Neonatal Echocardiography (TINEC), Lausanne, Switerzland |
|  | Feb, 2024 |  | Workshop: "Optimizing ECMO Cannula Positioning - Point-of-Care-Ultrasound & Surgical Considerations", 40TH Annual Children's National Hospital Symposium: ECMO & The Advanced Therapies For Respiratory & Cardiac Failure |
|  | Mar, 2024 |  | "Partnerships for better POCUS use in Neonatology (ft POCUS Collaborative)", Incubator Podcast, https://www.the-incubator.org/ |
|  | Apr, 2024 |  | "POCUS in Neonatal Practice", John Hopkins Pediatric Grand Rounds, John Hopkins Hospital, Baltimore, MD |
|  | May, 2024 |  | "Neonatal Lung Ultrasound: The Basics RDS and Surfactant Replacement", LUKS Lucerne Children's Hospital, Lucerne, Switzerland |
|  | May, 2024 |  | "Ultrasound guided vascular access", LUKS Lucerne Children's Hospital, Lucerne, Switzerland |
|  | May, 2024 |  | "Procedural Ultrasound: what the neonatologist should know?", LUKS Lucerne Children's Hospital, Lucerne, Switzerland |
|  | May, 2024 |  | Workshop: "First Swiss Masterclass in neonatal point-of-care Ultrasound", LUKS Lucerne Children's Hospital, Lucerne Switzerland |
|  | May, 2024 |  | Workshop: 4th International Bedside Ultrasound Workshop in Pediatric Emergency, Neonatal and Intensive Care Medicine, University Children's Hospital, Inselspital, Bern, Switzerland |
|  | May, 2024 |  | "Pulmonary Hypertension, Right Ventricular Function and the PDA", University Children's Hospital, Inselspital, Bern, Switzerland |
|  | May, 2024 |  | Vascular access and umbilical venous cannulation in neonates, University Children's Hospital, Inselspital, Bern, Switzerland |
|  | May, 2024 |  | Workshop: "Developing a Point of Care Ultrasound Program in Your Neonatal ICU What Does It Take? Pediatric Academic Societies (PAS), Toronto, Canada |
|  | Jun, 2024 |  | "Acceso Vascular Guíado por ecografía ", Clínica Alemana, Santiago de Chile, Chile |
|  | Jun, 2024 |  | "Ecografía Point-of-Care (POCUS) en el Paciente Crítico Neonatal", Clínica Alemana, Santiago de Chile, Chile |
|  | Jun, 2024 |  | "Ecografía en procedimientos", Clínica Alemana, Santiago de Chile, Chile |
|  | Jun, 2024 |  | "Definición y Utilidades de la Ecografía Point-of-Care", Clínica Alemana, Santiago de Chile, Chile |
|  | Jul, 2024 |  | Workshop Session: "Point-of-Care Ultrasound in the NICU: Seeing is Believing", 8th Annual International NeoHeart Conference, New York, NY |
|  | Oct, 2024 |  | "Canalización ecoguiada del gran prematuro", I JORNADAS INTERNACIONALES ECOGRAFÍANEONATAL FUNCIONAL, Cadiz, Spain |
|  | Oct, 2024 |  | "Puncion lumbar ecoguiada de forma dinámica", I JORNADAS INTERNACIONALES ECOGRAFÍANEONATAL FUNCIONAL, Cadiz, Spain |
|  | Oct, 2024 |  | "Adaptación del recién nacido con HDC. Existe algún rol para el EXIT. Manejo inicial y estrategias de ventilación del recien nacido con HDC, PRIMER SIMPOSIO CIRUGÍA NEONATAL Desafíos en el Diagnóstico y Tratamiento de la Hernia Diafragmática Congénita, Hospital Universitario San Ignacio, Bogota, Colombia, virtual |
|  | Oct, 2024 |  | "Utilidad de la ecografía a la cabecera del paciente (POCUS) en el RN con HDC", PRIMER SIMPOSIO CIRUGÍA NEONATAL Desafíos en el Diagnóstico y Tratamiento de la Hernia Diafragmática Congénita, Hospital Universitario San Ignacio, virtual |
|  | Oct, 2024 |  | "Indicaciones y contraindicaciones del ECMO, para el manejo de la HDC", PRIMER SIMPOSIO CIRUGÍA NEONATAL Desafíos en el Diagnóstico y Tratamiento de la Hernia Diafragmática Congénita, Hospital Universitario San Ignacio, Bogota, Colombia, virtual |
|  | Nov, 2024 |  | "Ultrasound To Guide Lumbar Puncture", Vital Monitoring & Ultrasound (VOLT), Rome, Italy |
|  | Nov, 2024 |  | "Ultrasound and Procedures: Short Updates", Vital Monitoring & Ultrasound (VOLT), Rome, Italy |
|  | Nov, 2024 |  | "Ultrasound Guidelines", Vital Monitoring & Ultrasound (VOLT), Rome, Italy |
|  | Nov, 2024 |  | "Lung Ultrasound Finding and Monitoring of Congenital Diaphragmatic Hernia", Vital Monitoring & Ultrasound (VOLT), Rome, Italy |
|  | Nov, 2024 |  | "Key Opinion Leader" Pre-Congress Course Meet the Expert, Vital Monitoring and Ultrasound (VOLT), Rome, Italy |
|  | Nov, 2024 |  | "USCOM", Vital Monitoring and Ultrasound (VOLT), Rome, Italy |
|  | Nov, 2024 |  | "Neonatal POCUS: what's new? ", 18th Winfocus World Virtual Congress, virtual |
|  | Jan, 2025 |  | "Line Placement/ Lumbar Puncture", 9th Edition, Training in Pediatric Intensive Care and Neonatal Echocardiography, Lausanne, Switzerland |
|  | Feb, 2025 |  | "Neonatal POCUS: what's new?", 19th WINFOCUS Congress, San Jose, Costa Rica, virtual |
|  | Feb, 2025 |  | "Pulmonary Hypertension and RV Function", 9th Edition, Training in Pediatric Intensive Care and Neonatal Echocradiography, Lausanne, Switzerland |
|  | Feb, 2025 |  | "Masterclass on Bedside Ultrasound in the NICU", Geneva University Hospitals, Switzerland |
|  | Feb, 2025 |  | "Ultrasound Guided Procedures", Society of Critical Care Medicine, Lima, Peru, virtual |
|  | Mar, 2025 |  | "Lunch Cases", Point of Care Ultrasound Course, Stanford Medicine Children's Health, Palo Alto, CA |
|  | Mar, 2025 |  | "Ultrasound Assessment of Hypovolemia and Shock, Point of Care Ultrasound Course, Stanford Medicine Children's Health, Palo Alto, CA |
|  | Mar, 2025 |  | "Cranial Ultrasound", Point of Care Ultrasound Course, Stanford Medicine Children's Health, Palo Alto, CA |
|  | Mar, 2025 |  | "Crashing Infant and Safe-R Protocols", Society of Critical Care Medicine, Lima, Peru, virtual |
|  | May, 2025 |  | Workshop: "Vascular Access and Umbilical Venous Cannulation in Neonates", 5th International Bedside Ultrasound Workshop in Pediatric Emergency, Neonatal and Intensive Care Medicine, University Children's Hospital, Inselspital, Bern, Switzerland |
|  |  |  |  |
| Organizing Roles in Scientific Meetings: |
|  | Nov, 2017 |  | Platform Judge: Award Papers and Poster Presentations at the 10th National Conference of Neonatology Chapter of Indian Academy of Pediatrics (IAP) & 4th International Conference of Society of Evidence Based Neonatology (EBNeo) Hyderabad, India |
|  | Dec, 2020 |  | Chairperson, Surfactant Research - International Surfactant Week Virtual |
|  | Dec, 2020 |  | Panelist, Neoheart Webinar: Cardiovascular Controversies in Neonatal Septic Shock Virtual |
|  | Aug, 2022 |  | Workshop Tract Chair, NeoHeart: Cardiovascular Management of the Neonate Anaheim, CA |
|  | Aug, 2022 |  | Moderator, "Monitoring and Management", NeoHeart 2022 Anaheim, CA |
|  | Jul, 2024 |  | Planning Committee Member, NeoHEART Society New York City |
|  | Nov, 2024 |  | Moderator, "Lung Ultrasound Finding and Monitoring of Congenital Diaphragmatic Hernia", Vital Monitoring and Ultrasound (VOLT) Rome, Italy |
|  | Nov, 2024 |  | Moderator, "Ultrasound Guidelines", Vital Monitoring and Ultrasound (VOLT) Rome, Italy |
|  | Nov, 2024 |  | Planning Committee Member, Vital Monitoring and Ultrasound (VOLT) Rome, Italy |
|  | Jan, 2025 |  | Panelist, National Neonatal POCUS Collaborative Educational Webinar and Expert Q&A Panel Virtual |
|  | Jan, 2025 |  | Moderator, "Weaning from ECMO: How to Determine Caridopulmonary Readiness for Uncouple from Cannula", National Hemodynamics Research Program (NHRC) Virtual |
|  | Apr, 2025 |  | Co-lead, "The (Ultra)Sound Approach to Baby Fever: Utilizing POCUS in the Workup of the Febrile Infant", Pediatric Academy Society (PAS) Honolulu, HI |
|   |  |  |
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|  | Research Publications, peer reviewed (print or other media): |
|  |  | 1. Watterberg KL, Fernandez E, Walsh MC, Truog WE, Stoll BH, Sokol GM, Kennedy KA, Fraga MV, Beauman SS, Carper B, Das A, Duncan AF, Buss WF, Gauldin C, Lacy CB, Sanchez PJ, Chawla S, Lakshminrusimha S, Cotton CM, Van Meurs KP, Poindexter BB, Bell EF, Carlo WA, Devaskar U, Wyckoff MH, Higgins RD for the Eunice Kennedy Shriver National Institute ofChild Health and Human Development Neonatal Research Network: Barriers to enrollment in a randomized controlled trial ofhydrocortisone for cardiovascular insufficiency in term andlate preterm newborn infants. Journal of Perinatology 37(11): 1220-1223, November 2017 Notes: DOI:10.1038/jp.2017.131. Epub 2017 Sep 7. |
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|  |  | 2. Fraga MV, Laje P, Peranteau WH, Hedrick HL, Khalek N, Gebb JS, Moldenhauer JS, Johnson MP, Flake AW, Adzick, NS: The influence of gestational age, mode of delivery and abdominalwall closure method on the surgical outcome of neonateswith uncomplicated gastroschisis. Pediatric Surgery International 34(4): 415-419, April 2018 Notes: DOI: 10.1007/s00383-018-4233-5. Epub 2018 Feb 7. |
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|  |  | 3. Fraga M, Giaccone A, Adzick NS: Respiratory morbidities in late preterm and term infantswith myelomeningocele. Journal of Perinatology. Springer Nature America, 38(11): 1542-1547, November 2018 Notes: DOI: 10.1038/s41372-018-0210-z. Published online August 30, 2018 |
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|  |  | 4. Giesinger RE, Stanford AH, Rios DR, Bhombal S, Fraga MV, Levy VY, McNamara PJ; United States Hemodynamics Collaborative: Targeted neonatal echocardiography in the United States of America: the contemporary perspective and challenges to implementation. Pediatr Res 85(7): 919-921, February 2019. |
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|  |  | 5. Ansems S, Kirpalani H, Mercer-Rosa L, Wang Y, Hopper RK, Fraga MV, Jensen EA: Patent Ductus Arteriosus and the Effects of its late Closure in Preterm Infants with severe Bronchopulmonary Dysplasia. Neonatology 116(3): 236-243, July 2019. |
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|  |  | 7. Avitabile CM, Ansems S, Wang Y, Fraga MV, Kirpalani HM, Zhang H, Mercer-Rosa L, Jensen EA: Accuracy of Brain Natriuretic Peptide for Diagnosing Pulmonary Hypertension in Severe Bronchopulmonary Dysplasia. Neonatology 116(2): 147-153, August 2019 Notes: DOI: 10.1159/000499082. Published online May 16, 2019. |
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|  |  | 8. Foglia EE, Ades A, Hedrick HL, Rintoul N, Munson DA, Moldenhauer J, Gebb J, Serletti B, Chaudhary A, Weinberg DD, Napolitano N, Fraga MV, Ratcliffe SJ: Initiating resuscitation before umbilical cord clamping in infants with congenital diaphragmatic hernia: a pilot feasibility trial. Archives of Disease in Childhood - Fetal and Neonatal Edition 105(3): 322-326, August 2019 Notes:  |
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|  |  | 9. Gaulton JS, Mercer-Rosa LM, Glatz AC, Jensen EA, Capone V, Scott C, Appel SM, Stoller JZ, Fraga MV: Relationship between pulmonary artery acceleration time and pulmonary artery pressures in infants. Echocardiography 36(8): 1524-1531, August 2019. |
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|  |  | 11. Singh Yogen, Tissot Cecile, Fraga María V, Yousef Nadya, Cortes Rafael Gonzalez, Lopez Jorge, Sanchez-de-Toledo Joan, Brierley Joe, Colunga Juan Mayordomo, Raffaj Dusan, Da Cruz Eduardo, Durand Philippe, Kenderessy Peter, Lang Hans-Joerg, Nishisaki Akira, Kneyber Martin C, Tissieres Pierre, Conlon Thomas W, De Luca Daniele: International evidence-based guidelines on Point of Care Ultrasound (POCUS) for critically ill neonates and children issued by the POCUS Working Group of the European Society of Paediatric and Neonatal Intensive Care (ESPNIC). Critical care (London, England) 24(1): 65, Feb 2020. |
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|  |  | 13. Singh Y, Bhombal S, Anup Katheria A, Tissot C, Fraga M: The evolution of cardiac point of care ultrasound for the neonatologist. European Journal of Pediatrics. 180(12): 3565-3575, December 2021. |
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|  |  | 25. Johng S, Fraga MV, Patel N, Kipfmueller F, Bhattacharya A, Bhombal S: Unique Cardiopulmonary Interactions in Congenital Diaphragmatic Hernia: Physiology and Therapeutic Implications. Neoreviews 24(11): e720-e732, November 2023 Notes: doi: 10.1542/neo.24-11-e720. |
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|  |  | 32. Miller K, Ruoss JL, Chaves DV, Chan B, Huber M, Stoller JZ, Fraga MV, French H, Conlon T, Corder W; National Neonatal POCUS Collaborative. : National survey of diagnostic point of care ultrasound practices and program development in academic neonatal-perinatal medicine centers. J Perinatol April 2025 Notes: doi: 10.1038/s41372-025-02307-z. Epub ahead of print. |
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|  |  | 34. Fraga M, Bhombal S, Juliano C, Kim M, Groves AM, Chan B, Singh Y on behalf of the National Neonatal POCUS Collaborative.: Guidelines for neonatal point-of-care ultrasound. Journal of Perinatology 2025 Notes: In press. |
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|  |  | 35. Will EP, Fraga MV: Central Line Positional Assessment with Ultrasonography. Neoreviews 2025 Notes: In press. |
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|  | Research Publications, peer-reviewed reviews: |
|  |  | [none] |
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|  | Contributions to peer-reviewed research publications, participation cited but not by authorship: |
|  |  | [none] |
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|  | Research Publications, non-peer reviewed: |
|  |  | [none] |
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|  | Abstracts (Last 3 years): |
|  |  | [none] |
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|  | Editorials, Reviews, Chapters, including participation in committee reports (print or other media): |
|  |  | 1. Stampler KM, Lieberman A, Fraga M, Cohen A, Herman A: Vaginal wet mounts on asymptomatic adolescent females; are they beneficial? Journal of Pediatric and Adolescent Gynecology 21(4): 227-230, Aug 2008 Notes: DOI: 10.1016/j.jpag.2008.02.009  |
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|  |  | 13. Conlon TW, Nishisaki A, Singh Y, Bhombal S, De Luca D, Kessler DO, Su ER, Chen AE, Fraga MV: Moving Beyond the Stethoscope: Diagnostic Point-of-Care Ultrasound in Pediatric Practice. Pediatrics 144(4): e20191402, September 2019. |
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|  |  | 20. Jensen E, Fraga M, Biko D, Raimondi F, Kirpalani H: Imaging: Radiography, Lung Ultrasound, and Other Imaging Modalities, Chapter 9. Goldsmith's Assisted Ventilation of the Neonate an Evidence-Based Approach to Newborn Respiratory Care. Keszler M, Suresh G, Goldsmith JP (eds.). Elsevier, 7th ed: 001-019, October 2021. |
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|  | Books: |
|  |  | 1. Singh Y, Tissot C, Fraga MV, Conlon TW: Point-of-Care Ultrasound for the Neonatal and Pediatric Intensivist. Springer 2023 Notes: In press. |
|  |  |  |
|  | Alternative Media: |
|  |  | [none] |
|  |  |  |
|  Patents: |
|  | [none] |
|  |  |  |