

CURRICULUM VITAE
Carmen Monthé-Drèze, MD.

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EDUCATION

Undergraduate	Swarthmore College, Swarthmore, PA, Biology and Child Psychology, B.A., 2003
Medical School	Albert Einstein College of Medicine, New York, NY, Medicine, M.D., 2010

POSTGRADUATE TRAINING

Internship	Boston Children's Hospital (Pediatrics), Boston, MA, 06/2010 – 06/2011
Residency	Boston Children's Hospital (Pediatrics), Boston, MA, 06/2011 – 06/2013
Fellowship	Boston Children's Hospital (Harvard Neonatal-Perinatal), Boston, MA, 07/2015 – 07/2018
Chief Fellow	Boston Children's Hospital (Harvard Neonatal-Perinatal), Boston, MA, 07/2017 – 06/2018

POSTGRADUATE HONORS AND AWARDS

Outstanding Performance in Anatomy, Albert Einstein College of Medicine, New York, NY, 2007

Dean's Recognition Award, Albert Einstein College of Medicine, New York, NY, 2009

PARTNERS in Excellence Team Award, Brigham and Women's Hospital, Boston, MA; 2009

Ruth L. Kirschstein T32 NRSA Institutional Research Award, Boston Children's Hospital, Boston, MA, 2016

Research Travel Award, Pediatric Academic Societies, 2017

NIH Loan Repayment Award, National Institutes of Health, 2020

Diversity Scholar, Nutrition Obesity Research Center
Harvard Medical School *at* Harvard, Boston, MA 2020
Faculty Teaching Honor Roll, Boston Combined
Residency Program, Boston, MA, 2021

MentorMED Mentor, Boston Combined Residency
Program, Boston, MA, 2021

Equity, Diversity and Inclusion Faculty Honor Roll,
Boston Combined Residency Program, Boston, MA, 2023,
2024

Young Investigator Award, Perinatal Research Society,
2023

NIH/Reckitt Mead Johnson Young Investigator
Development Workshop Award, Perinatal Research
Society, 2023

Journeys & Frontiers, Pediatric Research Scholar
APS SPR, 2023 – 2024

2024 Castle Connolly Top Doctor, Castle Connolly

2026 Castle Connolly Top Doctor, Castle Connolly

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

Licensure

Rhode Island (MD20502) 2025 - Present
Massachusetts (255273) 2010 - 2025

Board Certification

Certification, American Board of Pediatrics, General
Pediatrics, 2014 – Present
Certification, American Board of Pediatrics, Neonatal-
Perinatal Medicine, 2022 – Present
DEA Certificate, 2025
Controlled Substances Certificate, 2025
Neonatal Resuscitation Program, 2025

ACADEMIC APPOINTMENTS

Instructor of Pediatrics, Harvard Medical School, Boston,
MA, 2014 – 2016
Instructor of Pediatrics, Harvard Medical School, Boston,
MA, 2018 – 2026
Assistant Professor of Pediatrics, Alpert Medical School of
Brown University, RI, 2025-

HOSPITAL APPOINTMENTS

NICU Hospitalist, Pediatric Medicine, Brigham and Women's Hospital, Boston, MA, 2013 - 2015
Neonatologist, Pediatric Medicine, Brigham and Women's Hospital, Boston, MA, 2018 – 2025
Neonatologist, Pediatrics, Newton-Wellesley Hospital, Newton, MA, 2018 – 2025
Affiliate Staff, Developmental Medicine, Boston Children's Hospital, Boston, MA, 2018 – 2025
Affiliate Research Staff, Newborn Medicine, Mass General Brigham, Boston, MA, 2025 –
Neonatologist, Pediatrics, Women & Infants Hospital, Providence, RI, 2025 -

OTHER APPOINTMENTS

Research Intern, Institut Des Cordeliers, Paris, France, 2003
Research Technician, Weill Medical College of Cornell University, 2003 – 2005
Senior Research Technician, Weill Medical College of Cornell University, 2005 – 2006
Anatomy Peer Tutor, Albert Einstein College of Medicine, 2007 - 2008

HOSPITAL COMMITTEES

Women and Infants Hospital, Providence, RI

Clinical Practice Guideline Committee on Pain Management in the NICU, 2026-

Brigham and Women's Hospital, Boston, MA

Clinical Practice Guidance Working Group on Blood Transfusion in the Preterm Neonate, 2014
Clinical Practice Guidance Working Group on Neonatal Hypoglycemia Screening and Management, 2015 – 2022
Curriculum Subcommittee, Neonatal-Perinatal Medicine Fellowship Committee, 2017 – 2018
Quality Improvement Subcommittee, Neonatal-Perinatal Medicine Fellowship Committee, 2017 – 2018
Education Subcommittee, Neonatal-Perinatal Medicine Fellowship Committee, 2017 – 2018
Co-Leader/Organizer, Work-in-Progress Seminar Series, 2018 – 2022
Director of Physician Wellbeing, 2020 – 2022
Anti-Racism, Diversity, Equity, Inclusion Task Force, Clinical Care Sub-Committee, 2020 - 2022

BWH Physicians' Council Representative, Physician's Council, 2020 – 2022
Committee Lead, Clinical Practice Guideline Working Group on Neonatal Hypoglycemia Screening and Management, 2022 - 2025

Massachusetts General Hospital, Boston, MA

Co-Director, NORCH Associate Member Council, 2020 – 2025
Co-Director of the NIDDK funded nationwide Inter-Nutrition Obesity Research Center Speaking ScholaR Initiative (INSPIRE), 2023 - 2025

UNIVERSITY COMMITTEES

Student National Medical Association, Albert Einstein College of Medicine, 2006 – 2010
Secretary, Student National Medical Association, Albert Einstein College of Medicine, 2007 - 2008

MEMBERSHIP IN SOCIETIES

American Academy of Pediatrics, 2010 –
Massachusetts Medical Society, 2010 –
US Society for Development Origins of Health and Disease, 2019 –
Society for Pediatric Research, Junior Member, 2019 – 2023
Society for Pediatric Research, Full Member, 2024 –
Obesity Society, 2019 –
American Society of Nutrition, 2023 –
Academic Pediatric Association, 2023 –
Society for Reproductive Investigation, 2023 –
Perinatal Research Society, 2023 –
American Diabetes Association, 2025 -
Nutrition and Obesity Research Center, full member 2026-

EDITORIAL REVIEWER

Ad Hoc Reviewer

- Metabolism
- Pediatric Obesity
- Nutrients
- Pediatric Research
- Developmental Psychobiology
- Scientific Reports
- Clinical Therapeutics
- American Journal of Clinical Nutrition
- JAMA Network Open
- Obesity
- Brain Behavior and Immunity

Other Editorial Roles

-Guest Editor, *Nutrients* (2026): Maternal Obesity and Offspring Risk of Metabolic Disorders: Role and Mechanisms of Nutritional Interventions
-Founding Community Reviewer Panel member, section on Nutrition, Obesity and Dietetics, *Frontiers in Nutrition*

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

* denotes mentored trainee

1. Relkin NR, Szabo P, Adamiak B, Burguta T, **Monthe C**, Lent RW, Younkin S, Younkin L, Schiffe R, Weksler ME. 18-Month Study of Intravenous Immunoglobulin for Treatment of Mild Alzheimer's Disease. *Neurobiology of Aging*. 2008 PMID: 18294736.
2. Penfield-Cyr A, **Monthe-Dreze C**, Smid MC, Sen S. Maternal BMI, Mid-pregnancy Fatty Acid Concentrations, and Perinatal Outcomes. *Clinical Therapeutics*. 2018 PMID: 30241686.
3. **Monthé-Drèze C**, Penfield-Cyr A., Smid, MC, Sen S. Maternal Pre-Pregnancy Obesity Attenuates Response to Omega-3 Fatty Acids Supplementation During Pregnancy. *Nutrients*. 2018 PMID: 30518052
4. **Monthé-Drèze C**, Rifas-Shiman SL, Gold DR, Oken E, Sen S. Maternal Obesity and Offspring Cognition: The Role of Inflammation. *Pediatr Res*. 2019 PMID: 30420706
5. Turner D, **Monthé-Drèze C**, Cherkerzian S, Gregory K, and Sen S. Maternal Obesity and Cesarean Section Delivery: Additional Risk Factors for Neonatal Hypoglycemia?" *J. Perinatol*. 2019 PMID 31213637
6. Gregory K, Turner D, Benjamin CN, **Monthe-Dreze C**, Johnson L, Hurwitz S, Wolfsdorf J, Sen S. Incorporating dextrose gel and feeding in the treatment of neonatal hypoglycaemia. *Arch Dis Child Fetal Neonatal Ed*. 2020 PMID 30903014
7. Sen S, Andrews C, Anderson E, Turner D, **Monthe-Dreze C**, Wachman EM. Type of feeding provided with dextrose gel impacts hypoglycemia outcomes: comparing donor milk, formula and breastfeeding. *J Perinatol*. 2020 PMID 32792637
8. Xu T, Faleschini S, Rifas-Shiman SL, **Monthe-Dreze C**, Oken E, Hivert MF, Tiemeier H. Maternal glucose tolerance in pregnancy and child cognitive and behavioural problems in early and mid-childhood. *Paediatr Perinat Epidemiol*. 2020 PMID 32885485
9. Sen S, Cherkerzian S, Turner D, **Monthé-Drèze C**, Abdulhayoglu E, Zupancic JAF. A Graded Approach to Intravenous Dextrose for Neonatal Hypoglycemia Decreases Blood Glucose Variability, Time in the Neonatal Intensive Care Unit, and Cost of Stay. *J Pediatr*. 2020 Dec 15: S0022-3476(20)31507-9. Epub ahead of print. PMID: 33338495.

10. Andrews C, **Monthé-Drèze C**, Sacks DA, Ma RCW, Tam WH, McIntyre HD, Lowe J, Catalano P, Sen S. Role of maternal glucose metabolism in the association between maternal BMI and neonatal size and adiposity. *Int J Obes*. 2020 Nov 8. Epub ahead of print. PMID: 33161416.
11. Faleschini S, Rifas-Shiman SL, **Monthé-Drèze C**, Switkowski KM, Gingras V, Perng W, Oken E, Hivert MF, Tiemeier H. Maternal dietary inflammatory index in pregnancy and offspring behavioral problems in mid-childhood and early adolescence. *Biological Psychiatry* 2021. PMID: 33824005
12. **Monthé-Drèze C**, Sen S, Hauguel-de Mouzon S, Catalano PM. Effect of Omega-3 Supplementation in Pregnant Women with Obesity on Newborn Body Composition, Growth and Length of Gestation: A Randomized Controlled Pilot Study. *Nutrients*. 2021; 13(2):578. PMC7916127
13. **Monthé-Drèze C**, Rifas-Shiman SL, Aris I, Shivappa N, Hebert JR, Sen S, Oken E. Maternal Diet in Pregnancy is Associated with Differences in Child Body Mass Index Trajectories from Birth to Adolescence. *AJCN*, 2021. PMC8023853
14. **Monthé-Drèze C**, Aris I, Rifas-Shiman SL, Shivappa N, Hebert JR, Oken E, Sen S. The role of prenatal psychosocial stress in the associations of a proinflammatory diet in pregnancy with child adiposity and growth trajectories. *JAMA Netw open*, 2023 Jan 3;6(1): e2251367. doi: 10.1001/jamanetworkopen.2022.51367. PMID: 36662527; PMCID: PMC9860526.
15. Ockene MW, Russo SC, Lee H, **Monthé-Drèze C**, Stanley TL, Ma IL, Toribio M, Shook LL, Grinspoon SK, Edlow AG, Fourman LT. Accelerated Longitudinal Weight Gain Among Infants with In Utero COVID-19 Exposure. *J Clin Endocrinol Metab*. 2023 Mar 29;dgad130. doi: 10.1210/clinem/dgad130. Epub ahead of print. PMID: 36988326.
16. Waldrop SW, Ibrahim AA, Maya J, **Monthe-Dreze C**, Stanford FC. Overview of Pediatric Obesity as a Disease. *Pediatr Clin North Am*. 2024 Oct;71(5):761-779. doi: 10.1016/j.pcl.2024.06.003. PMID: 39343491; PMCID: PMC11443063
17. Andrews C, Vodapally S, Foster LP, Lawandy I, Murphy M, Castellanos M, Moncada D, Mourao ML, Bhushan B, Berger PK, Fichorova R, **Monthe-Dreze, C.** et al. Cohort profile: Mother and Infant Metabolome and Microbiome (MIMM) study, a prospective cohort study of mothers and infants in Boston, Massachusetts, *BMJ Open* 2025 Jun 18;15(6):e096957. doi: 10.1136/bmjopen-2024-096957. PMID: 40533202; PMCID: PMC12182119.
18. Natale Castillo MI*, Marsh M, Nelson CA III, Holt GS, Grant PE, Bosquet Enlow M, **Monthe-Dreze, C.** Boosting representation and validity in pediatric electroencephalography research: The conceptualization, development, and implementation of the Curly Hair Specialist Initiative.

Developmental Psychobiology 2026, no. 2: e70120.

<https://doi.org/10.1002/dev.70120>

19. **Monthe-Dreze C**, Bhushan B, Andrews C, Cherkerzian S, Perng W, Ahmed S, Baqui AH, Chowdhury N, Khanam R, Rahman S, Sheridan PA, Michelotti G, Martin CR, Lee AC, Sen S. Untargeted Metabolomics Analysis of Human Milk from Breastfeeding Bangladeshi Women Reveals Amino Acid Metabolic Pathways Associated with Maternal Nutritional Status and Infant Growth. *J Nutr.* 2026 Apr;156(4):101394. doi: 10.1016/j.tjnut.2026.101394. PMID: 41651070; PMCID: PMC13084589.

20. Otoo MN, Meador KJ, Brothers T, Lavoie T, Asal NJ, Quilliam BJ, Yon DK, **Monthe-Dreze C** et al. Prenatal Azithromycin Exposure and Risk of Neurodevelopmental Disorders in Children. *JAMA Netw Open.* 2026;9(5):e2612051. doi:10.1001/jamanetworkopen.2026.12051

21. North K, Driker S, Khanam R, Ahmed S, Andrews C, Belfort MB, Cherkerzian S, Chowdhury NH, Hasan T, Rahman S, Roy Paladhi U, Esteban AL, **Monthe-Dreze C**, et al. Breast milk macronutrients and child growth and neurodevelopment in a lactation cohort in rural Bangladesh. *Current Developments in Nutrition.* 2026. Accepted article pending publication

BOOKS AND BOOK CHAPTERS

1. Phillips CM, Andrews C, Brigham E, Chen L, Han Y, Hanson C, Litonjua A, **Monthé-Drèze C**, Polanska K, Sen S. Chapter 12: Inflammatory potential of diet and health outcomes in pregnancy, infancy, and childhood in Diet, Inflammation and Health. Academic Press, 2022, pages 609-663.

ABSTRACTS (past 3 years)

1. Carmen Monthé-Drèze; Sarbattama Sen, MD; Ellen Grant, MD; Laura M. Holsen, PhD, MS; Tara A. Smyser, MSE; Terrie E. Inder, MBChB, MD; Sarah K. England, PhD; Cynthia E. Rogers, MD; Deanna M. Barch, PhD; Barbara Warner, MD; Joan L. Luby, MD; Christopher D. Smyser, MD, MSCI. Maternal pre-pregnancy obesity and sex-specific associations with neonatal brain volumes in regions that modulate cognition and behavior. Poster Presentation, PAS 2023, Washington, DC

2. Carmen Monthé-Drèze, MD; Sarbattama Sen, MD; Ellen Grant, MD; Laura M. Holsen, PhD, MS; Tara A. Smyser, MSE; Terrie E. Inder, MBChB, MD; Sarah K. England, PhD; Cynthia E. Rogers, MD; Deanna M. Barch, PhD; Barbara Warner, MD; Joan L. Luby, MD; Christopher D. Smyser, MD, MSCI. A prenatal diet rich in unsaturated fatty acids and low in saturated fats is

- associated with higher regional grey matter volumes in infants born to mothers with pre-pregnancy obesity. Poster Presentation, PAS 2023, Washington, DC
3. Monthé-Drèze C, Andrews C, Berger P, Vodapally S, Lawandy I, Angelidou A, Martin C, Sen S. Associations of maternal BMI with infant feeding characteristics and eating behaviors. Poster Presentation at the American Society of Nutrition 2023. Boston, MA.
 4. Monthé-Drèze, Andrews C, Berger P, Lawandy I, Vodapally S, Mourao M, Castellanos, M, Moncada D, Angelidou A, Martin C, Sen S. Role of Maternal Body Mass Index in the Association of Infant Appetitive Traits with Early Growth Velocity, Poster presentation, PAS 2024, Toronto, Canada
 5. Monthe-Dreze, et al., Associations of Maternal Body Mass Index and Milk Feeding Practices with Growth Trajectories throughout Infancy, 2024 PAS Meeting – *Platform presentation*. Toronto, CA
 6. Carmen Monthe-Dreze, Sara Cherkerzian, Ayanna Coburn-Sanderson, Isabella Lawandy, Laurie Foster, Rana Abdel-Rahman, Camille E. Powe, Elizabeth Rosenfeld, Michael Agus, Sarah Lassey, Mohamed El-Dib, Alfonso Galderisi, Sarbattama Sen. The role of cerebral perfusion in glycemia-related neurodevelopmental outcomes. Poster Presentation, PAS 2025, Honolulu, Hawaii
 7. Carmen Monthe-Dreze, Sara Cherkerzian, Ayanna Coburn-Sanderson, Isabella Lawandy, Laurie Foster, Rana Abdel-Rahman, Camille E. Powe, Elizabeth Rosenfeld, Michael Agus, Sarah Lassey, Mohamed El-Dib, Alfonso Galderisi, Sarbattama Sen. Associations between neonatal glycemia and neurodevelopment in neonates of mothers with and without dysglycemia in pregnancy, Poster Presentation, PAS 2025, Honolulu, Hawaii
 8. Anna Gamble, Lillian Juttukonda, Elizabeth Brennick, Sandra Borgerson, Julie Cadogan, Karen Manganaro, Jen Riley, Judy Brown, Margaret Everett, Lise Johnson, Ann Velie, Sarbattama Sen, Carmen Monthé-Drèze, A Quality Improvement Initiative to Increase Early Feeding in Neonates at Risk for Hypoglycemia, Poster Presentation, PAS 2025, Honolulu, Hawaii
 9. C Monthe-Dreze, S Cherkerzian, F Prendin, A Coburn-Sanderson, R Abdel-Rahman, S Delfavero, A Galderisi, A Facchinetti, S Sen. CGM Sensors Improve the Estimation of Glycemic Outcomes in Newborns at Risk of Neonatal Hypoglycemia. Poster Presentation, ADA 2025 Scientific Meeting, Chicago, IL
 10. C Monthé-Drèze, P O'Tierney-Ginn & S Sen. Specialized proresolving lipid bioactive-related pathways may play a role in neonatal adiposity: A placental

INVITED PRESENTATIONS

International

1. Invited Webinar Presenter, Jordan Nutrition Innovation Lab Webinar, Feed the Future, US Agency for International Development, “Why My Mother’s Prenatal Diet and Pre-Pregnancy Weight Matter: Impact of Offspring Growth and Neurodevelopment, 2023.

National

1. Invited Presenter, Reckitt/Mead Johnson Nutrition Perinatal Research Society, “Why My Mother’s Pre-pregnancy Weight Matters: Impact on Offspring Neurodevelopment and Implication for Obesity Risk”, 2023.
2. Invited Presenter, Career Development Talk with Early Career Scientists, “The Obesity Society-Coffee with the Professor”, 2024.
3. Invited Session Speaker, Academy of Breastfeeding Medicine Annual International Meeting, “Maternal Obesity, Milk Feeding Practices and Growth Trajectories in Infancy”, November 2024.
4. Invited Speaker, University of Colorado Nutrition Seminar Series, “Neurobiological Underpinnings of Rapid Infant Weight Gain: Can Early Brain Development Shape Obesity Risk?”, February 2025.
5. Invited Speaker, Newborn Brain Society Webinar Series, Can Early Brain Development Play a Role in the In-Utero Programming of Childhood Obesity?”, March 2025.
6. Invited Session Speaker, Academy of Breastfeeding Medicine Grand Rounds Webinar Series, “Maternal Obesity, Milk Feeding Practices and Growth Trajectories in Infancy”, 2025.
7. Invited Session Speaker, Rady Children’s Health’s Scientific Updates in Neonatology Seminar Series, “Maternal Obesity and Neonatal Outcomes: From Epidemiology to Mechanisms and Interventions, Implication for Neonatal and Pediatric Care”, February 2026
8. Invited Session Speaker and Session Moderator, Nutrition and Obesity Research Centers Annual Research Symposium, Harvard Medical School/Mass General Brigham, June 2026

Regional

1. Mini-Grand Rounds, Boston Children’s Hospital, “Lumbar Puncture and Meningitis” 2010.

2. Mini-Grand Rounds, Boston Children's Hospital, "Henoch-Schonlein-Purpura", 2011.
3. Pediatrics Case of the Week, Boston Medical Center, "Pituitary Adenomas", 2013.
4. NICU-OBGYN Morbidity and Mortality Conference, Brigham and Women's Hospital, "Congenital Candidiasis", 2013.
5. Clinical Practice Review, Beth Israel Medical Center, "Indomethacin for IVH Prophylaxis", 2015.
6. NICU-OBGYN Morbidity and Mortality Conference, Brigham and Women's Hospital, "Severe HIE", 2015
7. NICU-OBGYN Morbidity and Mortality Conference, Boston Children's Hospital, "Transient Myeloproliferative Disorder", 2015.
8. NICU-OBGYN Morbidity and Mortality Conference, Brigham and Women's Hospital, "Pneumothoraces", 2016.
9. NICU-OBGYN Morbidity and Mortality Conference, Brigham and Women's Hospital, "Intraventricular Hemorrhage and Severe HIE", 2016.
10. Clinical Practice Review, Beth Israel Medical Center, "To Treat or Not to Treat: Management of Asymptomatic Infants with HSV Exposure", 2016.
11. Grand Rounds, Boston Children's Hospital, "Maternal Obesity and Neurodevelopmental Outcomes", 2016.
12. Grand Rounds, Boston Children's Hospital, "Vein of Galen Malformation", 2016.
13. Grand Rounds, Boston Children's Hospital, "Omega-3 Fatty Acids to Reduce Childhood Obesity and Improve Neurodevelopmental Outcomes: Is there a Role?", 2016.
14. Clinical Practice Review, Beth Israel Medical Center, "Abdominal Ultrasound for the Diagnosis of NEC", 2017.
15. Research Seminar Series, Boston Children's Hospital, "Offspring Cognition: Why does my mother's high pre-pregnancy body mass index matter? 2017.
16. Epidemiology and Clinical Research Seminar Series, Beth Israel Medical Center, "Measuring the Impact of a Comprehensive Neonatal Hypoglycemia Guideline", 2018.
17. Case Conference, Brigham and Women's Hospital, "Management of Neonatal Hypoglycemia: Lessons Learned and Future Directions", 2018.
18. Research Seminar, Boston Children's Hospital, "Why Does my Mother's Pregnancy Body Mass Index Matter? Implication for Offspring Neurodevelopment", 2020.
19. Research Seminar, Mother Infant Research Institute – Tufts Medical Center, "Why Does my Mother's Pregnancy Body Mass Index Matter? Implications for Offspring Neurodevelopment", 2020.
20. NORCH Pilot and Feasibility Research Symposium, Mass General for Children, "The Placenta and Pro-Resolving Superfamily of Mediators: New Insight into Intergenerational Obesity", 2021.

21. Harvard Newborn Health Services and Epidemiology Seminar, BIDMC, “Maternal Obesity and the Early Origins of Childhood Obesity and Adverse Neurodevelopment”, 2021.
22. Grand Rounds, Brigham and Women’s Hospital, “Juvenile Xanthogranuloma, 2022.
23. Grand Rounds, Boston Children’s Hospital, “Risk of Obesity Originates in the Critical Prenatal Developmental Period”, 2022
24. MFM/NICU Seminar Series, University of Vermont Medical Center, “Maternal Obesity and the Early Origins of Childhood Obesity and Adverse Neurodevelopment”, 2022.
25. Harvard Newborn Health Services and Epidemiology Seminar, BIDMC, “Prenatal Dietary Quality and Child Growth Outcomes: The Role of Prenatal Psychosocial Stress”, 2023.
26. Work-In-Progress Seminar, Brigham and Women’s Hospital, “Intergenerational Obesity: Examining the Role of Maternal Feeding Practices and Neonatal Neural Circuits Related to eating Behavior”, 2023.
27. Minority Health annual Policy Meeting, Office of DICP, HMS, Boston, MA, “The Placental Transcriptome and Newborn Adiposity”, 2023.
28. MGFC Pediatric Research Day 2024, Mass General for Children, “In Utero Exposure to maternal Obesity and Growth Velocities During the First Year of Life: Do Biologically Mediated Eating Behavior Traits Play a Role?”, 2024.
29. Fetal-Neonatal Neuroimaging Developmental Science Center Lecture Series, Boston Children’s Hospital, “In Utero Programming of Intergenerational Obesity: Does early Brain Development Play a Role?”, 2024.
30. Newborn Medicine Research Seminar Series, Boston Children’s Hospital, “Neonatal Neural Circuitry Controlling Eating Behaviors: Gestational Determinants and Implications for Child Obesity”, 2024.
31. Grand Rounds, Women & Infants Hospital, “From Womb to Neighborhood: A Multi-Prolonged Approach to Understanding Intergenerational Obesity”, 2024.
32. Pediatric Research Seminar, Hasbro Children’s Hospital, “Wired to Overeat? How the Womb Prepares the Brain for Childhood Obesity”, 2025.
33. Invited Speaker, Panel Discussant at the 2025 Eastern Society for Pediatric Research Conference Pediatric Nutrition Interest Group, Philadelphia, PA.
34. Invited Speaker, Panel Discussant at the 2026 Eastern Society for Pediatric Research Conference Pediatric Nutrition Interest Group, Philadelphia, PA.

GRANTS

1. Maternal Obesity-Associated Inflammation and Oxidative Stress: Impact on Offspring Neurodevelopmental Outcomes. American Academy Pediatric Societies Marshall Klaus Perinatal Research Award, 2017 – 2021, Principal Investigator.
2. Pre- And Perinatal Predictors of Childhood Obesity: Nutrition-Stress Interactions NIH R01 HD034568-17S1 Mentored Research Award to Promote Diversity in Health-Related Research, 2019 – 2022, Sub-Award Principal Investigator.
3. The interaction of maternal stress and diet in child neurodevelopment, 2019-2021, NIH Loan Repayment Program Recipient
4. The Placenta and Pro-Resolving Superfamily of Mediators: New Insights Infor Intergenerational Obesity: Nutrition Obesity Research Center at Harvard (NORCH) Pilot and feasibility grant (P30-DK040561), 2020 – 2021, Subaward Principal Investigator.
5. Placental Function, Pro-Resolving Lipid Mediators and Developmental Programming of Adiposity: HMS Diversity Inclusion & Community Partnership Faculty Fellowship Career Developmental Award, 2021 – 2023, Principal Investigator
6. The Inter-NORC Speaking Scholar Initiative (INSPIRE) NIH-NIDDK, 2023 – 2024, Sub-Award Principal Investigator.
7. Late Antenatal Maternal Metabolism and Babies Sugar, Abbott Diabetes Care Division, Investigator Initiated grant, Co-Investigator (Overall PI: Sen)
8. Neurobiobehavioral Underpinnings of Intergenerational Obesity, NIH 1K23DK138300-01A1, 2024 – 2029, Principal Investigator.
9. Late Antenatal Maternal Metabolism, Babies' Sugars and Development, NICHD R01, Pending, Co-Investigator.
10. Maternal Obesity Programs Offspring Hippocampal Neurogenesis and Neurobehavior Impairment: Mechanisms and Prevention, NIH Fogarty R01, Pending, Co-Investigator.
11. Quality Improvement Study on the Management of Neonatal Hypoglycemia, 2023 - Present, Mentor.

GRANT REVIEWER

2024: Ad hoc Reviewer, BWH-MGH Newborn Medicine Collaborative Grant
2024 – 2025: Ad hoc Reviewer, Pilot & Feasibility Award

UNIVERSITY TEACHING, ADVISING and MENTORING ROLES

Harvard Medical School

2024 - 2025: HMS Essentials of the Professions I: Clinical Epidemiology and Population Health, 1st year medical and dental students, Faculty Instructor

HOSPITAL TEACHING, ADVISING and MENTORING ROLES

Formal Teaching of Residents, Clinical Fellows and Research Fellows

2016: “Neonatal Polycythemia”, Pediatric Residents, Brigham and Women’s Hospital, Boston, MA.
2018 – 2025: “Neonatal Hypoglycemia”, Department of Pediatric Newborn Medicine, Summer Students, Brigham and Women’s Hospital, Boston, MA.
2019 – 2025: “Infants of Diabetic Mothers”, Department of Pediatric Newborn Medicine, Pediatric Residents, Brigham and Women’s Hospital, Boston, MA.

Clinical Supervisory and Training Responsibilities

2013 – 2015: Supervision, teaching and mentorship of medical students (local and foreign), physician assistant students, pediatric residents and OB-GYN Anesthesia fellows, Brigham and Women’s Hospital, Boston, MA.
2018 – 2025: Supervision, teaching and mentorship of medical students, pediatric residents, fellows and OB-GYN Anesthesia fellows, Brigham and Women’s Hospital, Boston, MA.
2025 – Present: Supervision, teaching and mentorship of medical students (local and foreign), physician assistant students, pediatric residents and fellows, Women & Infants Hospital, Providence, RI.

Research Supervisory and Training Responsibilities

2022 – 2025: Supervision, teaching and mentorship of graduate and doctoral students and post-doctoral fellows, Brigham and Women’s Hospital, Boston, MA.
2025 – Present: Supervision, teaching and mentorship of graduate and doctoral students and post-doctoral fellows, Women & Infants Hospital, Providence, RI.

Mentored Trainees

2021 - 2023: Tolu Rosanwo, M.D., Boston Children’s Hospital, PGY-2. Mentoring role: Academic Advisor
2021 – Present: Dorcas Adebogun, MD Candidate, Virginia Commonwealth University Medical School. Mentoring role: Research Mentor

2023 – Present: Manuella Talla Takoukam, MD Candidate, Northwestern University Feinberg School of Medicine. Mentoring role: Research Mentor

2024 – Present: Desiree Brewer, MD Candidate, University of Texas Rio Grande Valley. Mentoring Role: Academic Advisor

2024 – Present: Maria Isabella Natale Castillo, MD Candidate, Boston Children’s Hospital. Mentoring Role: Research Mentor

2024-2026: Ana Gamble, MD PGY-3, Boston Children’s Hospital. Mentoring Role: Qualitative Improvement Study Mentor

2024-2026: Lillian Juttukonda, MD PGY-6, Boston Children’s Hospital. Mentoring Role: Quality Improvement Study Mentor

2025 – Present: Rashi Patel, MPH Candidate, School of Public Health at Brown University. Mentoring Role: MPH Thesis/Research Mentor

2026 – Present: Kelly MacPherson, MD, MS, Neonatal Perinatal Medicine Fellow, Pediatrics, PGY-4. Mentoring Role: Scholarship Oversight Committee Member and Research Advisor.