

CURRICULUM VITAE

Kristen Benninger

PRESENT TITLE AND AFFILIATION

Assistant Professor
Department of Pediatrics Research Centers
Columbus, Ohio

EDUCATION

2007
Miami University
Bachelor of Science
Health and Sports Studies

2012
The University of Toledo
Doctor of Medicine

2015
Nationwide Children's Hospital
Pediatric Residency

2018
The Ohio State University
Masters of Medical Science

2018
Nationwide Children's Hospital
Neonatology Fellow

ACADEMIC APPOINTMENTS

2018 to present
Assistant Professor of Pediatrics, Division of Neonatology, Nationwide
Children's Hospital
Nationwide Children's Hospital

ACADEMIC ADMINISTRATIVE RESPONSIBILITIES

NCH/OSU

- Physician lead of the Ohio Perinatal Research Network (OPRN) neurodevelopmental follow-up research team

NATIONAL

- NICHD Neonatal Research Network Follow-Up PI
- Founder and Co-Lead of the CHNC Newborns with Substance Exposure Focus Group

PUBLICATIONS

JOURNAL ARTICLE

1. Benninger KL, Zidron AM, Newton J, Tallikar AA, Maitre NL. An App for Developmental Surveillance of Neonatal Abstinence Syndrome: Development and Usability Study.
2. Raig ET, Jones NB, Varker KA, Benniger K, Go MR, Biber JL, Lesinski GB, Carson WE 3rd: VEGF secretion is inhibited by interferon-alpha in several melanoma cell lines. *Journal of interferon & cytokine research : the official journal of the International Society for Interferon and Cytokine Research* 28 (9): 553-61, 2008 Sep.
3. Lesinski GB, Benninger K, Kreiner M, Quimper M, Young G, Carson WE 3rd: Bortezomib pre-treatment prolongs interferon-alpha-induced STAT1 phosphorylation in melanoma cells. *Cancer immunology, immunotherapy : CII* 58 (12): 2031-7, 2009 Dec.
4. Mundy-Bosse BL, Lesinski GB, Jaime-Ramirez AC, Benninger K, Khan M, Kuppusamy P, Guenterberg K, Kondadasula SV, Chaudhury AR, La Perle KM, Kreiner M, Young G, Guttridge DC, Carson WE 3rd: Myeloid-derived suppressor cell inhibition of the IFN response in tumor-bearing mice. *Cancer research* 71 (15): 5101-10, 2011 Aug 1.
5. Benninger KL, Ruess L, Slaughter LA, Maitre NL, Rusin JA: Neonatal Vein of Labbé Infarction Size is Associated With Long-Term Language Outcomes. *Pediatric neurology* 72: 70-75.e1, 2017 Jul.
6. Abdi HH, Maitre NL, Benninger KL, Hester ME, Slaughter JL: Gabapentin Use for Hospitalized Neonates. *Pediatric neurology* 97: 64-70, 2019 Aug.
7. Benninger KL, Maitre NL, Ruess L, Rusin JA: MR Imaging Scoring System for White Matter Injury after Deep Medullary Vein Thrombosis and Infarction in Neonates. *AJNR. American journal of neuroradiology* 40 (2): 347-352, 2019 Feb.
8. Benninger KL, Borghese T, Kovalcik JB, Moore-Clingenpeel M, Isler C, Bonachea EM, Stark AR, Patrick SW, Maitre NL: Prenatal Exposures Are Associated With Worse Neurodevelopmental Outcomes in Infants With Neonatal Opioid Withdrawal Syndrome. *Frontiers in pediatrics* 8: 462, 2020.
9. Benninger KL, Inder TE, Goodman AM, Cotten CM, Nordli DR, Shah TA, Slaughter JC, Maitre NL: Perspectives from the Society for Pediatric Research. *Neonatal encephalopathy clinical trials: developing the future. Pediatric research*, 2020 Mar 27.
10. Maitre NL, Benninger KL, Neel ML, Haase JA, Pietruszewski L, Levensgood K, Adderley K, Batterson N, Hague K, Lightfoot M, Weiss S, Lewandowski DJ, Larson H: Standardized Neurodevelopmental Surveillance of High-risk Infants Using Telehealth: Implementation Study during COVID-19. *Pediatric quality & safety* 6 (4): e439, 2021 Jul-Aug.
11. Benninger KL, Benninger TL, Moore-Clingenpeel M, Ruess L, Rusin JA, Maitre NL: Deep Medullary Vein White Matter Injury Global Severity Score Predicts Neurodevelopmental Impairment. *Journal of child neurology* 36 (4): 253-261, 2021 Mar.
12. Benninger KL, Purnell J, Conroy S, Jackson K, Batterson N, Neel ML, Hester ME, Maitre NL: Intrauterine drug exposure as a risk factor for cerebral palsy. *Developmental medicine and child neurology* 64 (4): 453-461, 2022 Apr.
13. Neel ML, de Silva A, Taylor HG, Benninger K, Busch T, Hone E, Moore-Clingenpeel M, Pietruszewski L, Maitre NL: Exceeding expectations after perinatal risks for poor development: associations in term- and preterm-born preschoolers. *Journal of perinatology : official journal of the California Perinatal Association* 42 (4): 491-498, 2022 Apr.
14. Benninger KL, Richard C, Conroy S, Newton J, Taylor HG, Sayed A, Pietruszewski L, Nelin MA, Batterson N, Maitre NL: One-Year Neurodevelopmental Outcomes After Neonatal Opioid Withdrawal Syndrome: A Prospective Cohort Study. *Perspectives of the ASHA special interest groups* 7 (4): 1019-1032, 2022 Aug.
15. Benninger KL, Peng J, Ho ML, Newton J, Wang DJJ, Hu HH, Stark AR, Rusin JA, Maitre NL: Cerebral perfusion and neurological examination characterise neonatal opioid withdrawal syndrome: a prospective cohort study. *Archives of disease in childhood. Fetal and neonatal edition* 107 (4): 414-420, 2022 Jul.
16. Bose Brill S, Juckett LA, D'Amico Gordon R, Thomas N, Bunger A, Fareed N, Voisin C, Flores P, Mao S,

- Benninger KL, Grobman W, Panchal B, Gillespie S, Lorenz A: Developing a multimodal maternal infant perinatal outpatient delivery system: the MOMI PODS program. *Frontiers in global women's health* 4: 1232662, 2023.
17. Melemed AL, Slaughter JL, Benninger KL, Conroy S: Is erythropoietin beneficial and safe as an adjunctive therapy to therapeutic hypothermia in newborns with hypoxic ischemic injury?. *Journal of perinatology : official journal of the California Perinatal Association* 43 (12): 1552-1555, 2023 Dec.
 18. Mietzsch U, Kolnik SE, Wood TR, Natarajan N, Gonzalez FF, Glass H, Mayock DE, Bonifacio SL, Van Meurs K, Comstock BA, Heagerty PJ, Wu TW, Wu YW, Juul SE: Evolution of the Sarnat exam and association with 2-year outcomes in infants with moderate or severe hypoxic-ischaemic encephalopathy: a secondary analysis of the HEAL Trial. *Archives of disease in childhood. Fetal and neonatal edition*, 2023 Nov 27.
 19. Devlin LA, Hu Z, Merhar SL, Ounpraseuth ST, Simon AE, Lee JY, Das A, Crawford MM, Greenberg RG, Smith PB, Higgins RD, Walsh MC, Rice W, Paul DA, Maxwell JR, Fung CM, Wright T, Ross J, McAllister JM, Crowley M, Shaikh SK, Christ L, Brown J, Riccio J, Wong Ramsey K, Braswell EF, Tucker L, McAlmon K, Dummula K, Weiner J, White JR, Newman S, Snowden JN, Young LW: Influence of Eat, Sleep, and Console on Infants Pharmacologically Treated for Opioid Withdrawal: A Post Hoc Subgroup Analysis of the ESC-NOW Randomized Clinical Trial. *JAMA pediatrics*, 2024 Apr 15.
 20. Neel ML, Bora S, Brachio SS, Duncan A, Vanderbilt D, Benninger K, Kendrick-Allwood S, Maitre NL: Challenges and Opportunities in High-Risk Infant Follow-Up: Progress from the 2022 Networking Session at the Pediatric Academic Societies. *The Journal of pediatrics* 270: 113971, 2024 Mar 12.
 21. Morell AS, Monsell SE, Cornet MC, Wisnowski JL, McKinstry RC, Mathur AM, Li Y, Glass HC, Gonzalez FF, Mayock DE, Benninger KL, Van Meurs KP, Lampland AL, Wu TW, Riley D, Mietzsch U, Chalak L, Flibotte J, Weitkamp JH, Ahmad KA, Yanowitz TD, Baserga M, Merhar S, Rao R, Sokol GM, Comstock BA, Heagerty PJ, Juul SE, Wu YW: Genetic and Congenital Anomalies in Infants With Hypoxic-Ischemic Encephalopathy. *Pediatric neurology* 154: 44-50, 2024 May.

OTHER

1. Wu YW, Comstock BA, Gonzalez FF, Mayock DE, Goodman AM, Maitre NL, Chang T, Van Meurs KP, Lampland AL, Bendel-Stenzel E, Mathur AM, Wu TW, Riley D, Mietzsch U, Chalak L, Flibotte J, Weitkamp JH, Ahmad KA, Yanowitz TD, Baserga M, Poindexter BB, Rogers EE, Lowe JR, Kuban KCK, O'Shea TM, Wisnowski JL, McKinstry RC, Bluml S, Bonifacio S, Benninger KL, Rao R, Smyser CD, Sokol GM, Merhar S, Schreiber MD, Glass HC, Heagerty PJ, Juul SE: Trial of Erythropoietin for Hypoxic-Ischemic Encephalopathy in Newborns. *The New England journal of medicine* 387 (2): 148-159, 2022 Jul 14.
2. Juul SE, Voldal E, Comstock BA, Massaro AN, Bammler TK, Mayock DE, Heagerty PJ, Wu YW, Numis AL: Association of High-Dose Erythropoietin With Circulating Biomarkers and Neurodevelopmental Outcomes Among Neonates With Hypoxic Ischemic Encephalopathy: A Secondary Analysis of the HEAL Randomized Clinical Trial. *JAMA network open* 6 (7): e2322131, 2023 Jul 3.
3. Benninger KL, McAllister JM, Merhar SL: Neonatal Opioid Withdrawal Syndrome: An Update on Developmental Outcomes. *Clinics in perinatology* 50 (1): 17-29, 2023 Mar.

RESEARCH SUPPORT

ACTIVE

5UG1HD068278-11, NICHD

Apr 01, 2011 to Mar 31, 2023

NICHD Cooperative Multicenter

Neonatal Research Network-

(UG1) Ohio State

Principal investigator (multiple PI)

3395973

<p>030-92053-933 NCHF-Cardinal Health Foundation (Maitre PI, Benninger Co-I): Standardized Testing for NAS and Neuroimaging Correlates of NAS and Adverse Outcomes Co-Principal Investigator 800</p>	<p>Mar 01, 2018 to Jul 31, 2022</p>
<p>250590AA01 The Opioid Innovation Fund Principal Investigator 550000</p>	<p>Jul 01, 2019 to Jul 30, 2021</p>
<p>U38OT000316 MATernal and Infant Network to Understand Outcomes Associated with Treatment of Opioid Use Disorder During Pregnancy (MAT- LINK) Co-Investigator 10</p>	<p>Mar 01, 2020 to Jul 31, 2022</p>
<p>UG1 HD068278-06, NICHD Pragmatic, Randomized, Blinded Trial to Shorten Pharmacological Treatment of Newborns with Neonatal Opioid Withdrawal Syndrome Co-Investigator 10</p>	<p>Sep 01, 2020 to Aug 01, 2025</p>
<p>1 U01 NS092764-01A1 NINDS High-dose Erythropoietin for Asphyxia and Encephalopathy (HEAL) Co-Investigator 10</p>	<p>Jun 01, 2021 to Nov 01, 2021</p>
<p>The Ohio State University Addiction Innovation Initiative Grant Maternal-Fetal Transfer and Amniotic Fluid Accumulation of Buprenorphine and its Metabolites in Opioid Dependent Pregnant Individuals Co-Investigator 10</p>	<p>Aug 20, 2021 to Aug 26, 2022</p>

N/A Feb 21, 2022 to Dec 31, 2024
The Robert F. Wolfe and Edgar T. Wolfe Foundation award
Principal Investigator
127000

N/A Jul 01, 2022 to Jun 30, 2029
COOL PRIME (Cooling Comparative Effectiveness Prospective Study In Infants with Mild Encephalopathy)
Co-Investigator
717362

700313-0224-00 Apr 10, 2023 to present
PIVOTAL UH3
Co-Investigator
0

APPROVED

SPC-1000012914 | GR133697 Sep 30, 2023 to Aug 29, 2027
Pregnant People-Infant Linked Longitudinal Surveillance (Component A)
Co-Investigator
170693

N/A Apr 01, 2024 to Apr 01, 2028
The Darbepoetin Kindergarten Development Study (Darbe-KIDS)
Co-Investigator
654540

PENDING

1K23DA058763-01A1 -
Optimizing Developmental Outcomes in Early Childhood After Neonatal Opioid Withdrawal Syndrome
Principal Investigator
0

NA -
HIE Childhood Outcome Study
Co-Investigator
0

SERVICE ACTIVITIES

NCH/OSU

- Member, Nationwide Children's Hospital Neonatology Fellowship Recruitment Team
- Member, Nationwide Children's Hospital Neonatology Residency Recruitment Team
- Member, Nationwide Children's Hospital NAS Taskforce Committee
- Member, Nationwide Children's Hospital C4C/H7B NAS Committee
- Member, IT Research & Innovation Advisory Council
- Member, Search Committee- Director, Center for Bio-Behavioral Health

AWARDS AND HONORS

August 2009

Lucas County Medical Alliance Community Service Scholarship

Lucas County Medical Alliance

Lucas County, OH

May 2016

Nationwide Children's Hospital Department of Pediatrics Advanced Degree Funding Award

Nationwide Children's Hospital

Columbus, OH

May 2018

2018 Nationwide Children's Hospital Fellow Research Award

Nationwide Children's Hospital

Columbus, OH

August 2018

Clinician Scientist Annual NICHD Conference

Nationwide Children's Hospital

Potomac, MD

December 2019

Neurodevelopmental Research Affinity Group

Nationwide Children's Hospital and The Ohio State University

Columbus, OH

June 2021

Kenyon Biomedical and Scientific Writing Program

Nationwide Children's Hospital

Kenyon, OH

August 2021

Pediatric Research Award

Nationwide Children's Hospital, The Robert F. and Edgar T. Wolfe Foundation Grant

Columbus, OH

November 2022

Invited Member, American Pediatric Society and Society for Pediatric

Research Journeys & Frontiers in Pediatric Research Program 2022-2023

APS and SPR

various

September 2023

2023 American Speech-Language-Hearing Association (ASHA)

Journals Editor's Award

ASHA

various

EDITORIALS AND REVIEW ACTIVITIES

JOURNAL REVIEWER

July 2019 to present

BMC Pediatrics Journal Reviewer

February 2020 to present

Journal of Child Neurology Journal Reviewer

April 2020 to present

Scientific Reports Journal Reviewer

October 2020 to present

Pediatric Research Journal Reviewer

October 2022 to present

Journal of Pediatrics Reviewer

OTHER

June 2021 to June 2021

2021 Fellow Research Award judge

June 2022 to June 2022

2022 Fellow Research Day Judge

May 2023 to May 2023

2023 Fellow Research Award judge

May 2024 to present

2024 CHNC Annual Symposium Abstract Reviewer

May 2024 to May 2024

2024 Fellow Research Award judge

PROFESSIONAL MEMBERSHIPS AND ACTIVITIES

March 2018 to present

Member

Nationwide Children's Hospital

Women in Medicine Group

May 2019 to October 2021

Junior Member

Society for Pediatric Research

April 2020 to present
Member
Newborn Brain Society

May 2020 to present
Member
Nationwide Children's Hospital
Pediatric Primary Care Research
Affinity Group

June 2021 to present
Nationwide Children's Hospital
Follow-up PI
NICHD Neonatal Research
Network

October 2021 to present
Member
Society for Pediatric Research

January 2022 to present
Member
The Children's Hospitals Neonatal
Consortium, Hypoxic Ischemic
Encephalopathy focus group

TEACHING ACTIVITIES

Nov 13, 2019 to present
"Modes of Ventilation." Nationwide Children's Hospital Neonatology
Fellow Physiology Lecture Series
Fellows

Sep 03, 2018 to present
"Time Management for Physicians [Facilitator, Organizer, Presenter]."
Nationwide Children's Hospital GME Fellow Core Curriculum Lecture
Series.
Fellows

Jul 26, 2022 to present
Diagnosis and Prognosis after Neural Insults Lecture
Fellows

Jun 18, 2019 to present
Follow-up Care of the Premature Infant, For General Pediatricians."
Nationwide Children's Hospital Pediatric Residency Lecture Series
Residents

Jun 15, 2021 to present
Follow-up care of the premature infant, Nationwide Children's Hospital
Residency Lecture Series
Residents

Nov 01, 2023 to present
Hammersmith Infant Neurological Examination Training
Physicians, nurse practitioners, PT, OT

Nov 21, 2019 to present
Hammersmith Infant Neurological Examination Training, University of
Virginia Medical Center.
Physicians, PT, OT, SLP

Aug 12, 2022 to present
Hammersmith Neonatal Neurological Examination Training for
PIVOTAL trial
various

Nov 22, 2019 to present
Hammersmith Neonatal Neurological Examination Training, University
of Virginia Medical Center
Physicians, PT, OT, SLP

May 06, 2020 to present
NeoFlip: Neonatal Resuscitation
Fellows

Jul 25, 2022 to present
Neurodevelopmental Follow-up Lecture
Fellows

May 05, 2021 to present
Neurodevelopmental Outcomes and Strategies for Neuroprotection
Fellows

May 21, 2021 to present
Neurodevelopmental outcomes and strategies for neuroprotection,
Nationwide Children's Hospital Neonatology Fellow Didactic Series
Fellows

Jul 10, 2020 to present
NICU Follow-up and Neurodevelopmental Outcomes
Fellows

Jul 16, 2021 to present
NICU follow-up and neurodevelopmental research, Nationwide
Children's Hospital Fellowship Orientation Lecture Series
Fellows

Jun 08, 2023 to present
Premie Neuro Conditions: Intraventricular Hemorrhage and
Periventricular Leukomalacia
Residents

Feb 18, 2020 to present
Time Management for Physicians, Nationwide Children's Hospital

GME Fellows College

Fellows

Dec 17, 2020 to present

Time Management for Physicians, Nationwide Children's Hospital

GME Fellows College

Fellows

Sep 07, 2021 to present

Time management for physicians, workshop presented at the

Nationwide Children's Hospital GME Fellows College

Fellows

Sep 06, 2022 to present

Time management for physicians, workshop presented at the

Nationwide Children's Hospital GME Fellows College

Fellows

Sep 05, 2023 to present

Time management for physicians, workshop presented at the

Nationwide Children's Hospital GME Fellows College

Fellows

Nov 05, 2021 to present

Time management for physicians, workshop presented at the

Nationwide Children's Hospital Residency Program Retreat

Residents

CONFERENCES AND SYMPOSIA

NCH/OSU

June 13, 2019

Neural Correlates of Cerebral Blood Flow in Infants with Neonatal
Abstinence Syndrome

NCH Pediatric Grand Rounds Poster of the week

October 15, 2019

Nationwide Children's Hospital Clinical Therapy Programs Training
Conference: Hammersmith Neonatal Neurological Examination Clinical
Workshop [Facilitator].

Clinical Workshop

December 03, 2020

Optimizing Developmental Outcomes after Neonatal Opioid
Withdrawal Syndrome- Invited presentation for the
Neurodevelopmental Research Affinity Group

Lecture

August 05, 2022

NCH Poster Day: Sensory Profiles in Infants with Neonatal Opioid
Withdrawal Syndrome (presented by trainee)

Abstract Poster

August 30, 2023

Neonatology Grand Rounds: Optimizing Care Through Evidence Based Practices for NAS/NOWS

Grand Rounds

LOCAL/REGIONAL

September 02, 2016

2016 Midwest Society for Pediatric Research Annual Meeting: Larger Size of Neonatal Vein of Labbe Infarction is Associated with Worse Language Outcomes

Abstract Poster

April 05, 2019

2019 Pediatric Outcomes of Neonatal Abstinence Syndrome Conference: Neonatal Abstinence Syndrome: What It Is and Its Impact on Development

Lecture

August 24, 2019

Kids Belong 2019: The Effects of Prenatal Exposure

Lecture

November 21, 2019

Correlates of the HNNE and Innovative Neuroimaging Biomarkers in Infants with NAS

Lecture

January 07, 2021

Neonatal Abstinence Syndrome: Ohio Department of Health Early Childhood Education Program

Lecture

September 30, 2022

2022 MWSPR: Sensory Profiles in Infants with Neonatal Opioid Withdrawal Syndrome (presented by trainee student, I was senior author)

Abstract Oral

October 12, 2023

Sociodemographic or clinical factors impacting sensory profiles in infants with neonatal opioid withdrawal syndrome

Abstract Poster

October 13, 2023

2023 MSPR: Correlation of sensory profiles and early childhood development in infants with neonatal opioid withdrawal syndrome

Abstract Oral

NATIONAL

October 03, 2014

2014 American Academy of Pediatrics National Conference: Cognitive Outcomes As Measured By the Bayley Are Excellent in Extremely Preterm Infants

Abstract Poster

November 03, 2016

2016 AAP Section Neonatal-Perinatal Medicine: Perinatal and Developmental Medicine Symposium: Larger Size of Neonatal Vein of Labbe Infarction is Associated with Worse Language Outcomes

Abstract Poster

October 04, 2018

2018 Children's Hospitals Neonatal Consortium: MR Imaging Assessment Tool for White Matter Injury after Deep Medullary Vein Thrombosis and Infarction in Neonates

Abstract Poster

April 14, 2019

2019 Implementation of Early Detection and Intervention for Cerebral Palsy Conference: Hammersmith Neonatal Neurological Examination Clinical Workshop

Clinical Workshop

June 22, 2022

99th Perinatal and Developmental Medicine Symposium: Hammersmith Neonatal Neurological Examination and General Movements Assessment to Predict Outcomes after Neonatal Encephalopathy

Abstract Poster

November 14, 2023

Perinatal opioid use disorder program lessons learned and best practices – seven clinical sites, u.s.

Abstract Poster

INTERNATIONAL

April 02, 2015

2015 Pediatric Academic Societies Annual Meeting: Cognitive Outcomes As Measured By the Bayley Are Excellent in Extremely Preterm Infants

Abstract Poster

April 12, 2019

2019 Implementation of Early Detection and Intervention for Cerebral Palsy Conference: Motor Function Assessments

Lecture

April 27, 2019

2019 Pediatric Academic Societies Annual Meeting: Deep Medullary Vein Thrombosis Global Severity Score Predicts Neurosensory

Impairment

Abstract Poster

April 30, 2019

2019 Pediatric Academic Societies Annual Meeting: Neural Correlates of Cerebral Blood Flow and Arterial Transit Times in Infants with Neonatal Abstinence Syndrome

Abstract Poster

July 31, 2020

2020 Pediatric Academic Societies Annual Meeting: In Infants with Neonatal Abstinence Syndrome, MRI-Derived Cerebral Perfusion Reflects Hammersmith Neonatal Neurologic Examination Findings

Abstract Oral

December 01, 2020

Interviewed on PEDIAPOD (podcast from Pediatric Research) December 2020 episode about Perspectives from the Society for Pediatric Research: Neonatal encephalopathy clinical trials: developing the future manuscript (<https://www.nature.com/collections/fcbjbbchaa/2020-archive>)

Podcast

April 30, 2021

2021 Pediatric Academic Societies Postgraduate Course: Neonatal Neurology: HIE-focused Project-Based Learning

Lecture

December 12, 2021

Work featured on The Incubator Podcast episode #34- Journal Club 17 on December 12, 2021 about Cerebral perfusion and neurological examination characterize neonatal opioid withdrawal syndrome: a prospective cohort study manuscript published in ADC F&N (<https://the-incubator-podcast.ghost.io/untitled/>)

Podcast

April 23, 2022

2022 Pediatric Academic Societies Annual Meeting: Development and Implementation of a Tablet Device-Based Application for Developmental Surveillance of Neonatal Abstinence Syndrome

Abstract Oral

April 23, 2022

Development and Implementation of a Tablet Device-Based Application for Developmental Surveillance of Neonatal Abstinence Syndrome

Abstract Oral

April 24, 2022

2022 Pediatric Academic Societies Annual Meeting: Neurodevelopmental Follow-Up Trainee Networking Session

Panel Discussion

February 09, 2023

2023 SMFM Annual Meeting: Maternal-fetal biodisposition of buprenorphine and its metabolites in opioid dependent pregnant individuals

Abstract Poster

June 18, 2023

2023 Early Cerebral Palsy Health Summit: Research Updates: What's new on the HINE

Lecture

May 06, 2024

Association of Neurosedative Exposures and Neurodevelopmental Outcomes in Infants with Severe Bronchopulmonary Dysplasia

Abstract Oral

May 06, 2024

Missing the point? Comparison between parental and medical perspectives of neurodevelopmental impairment in children born with congenital heart disease

Abstract Oral

STATE LICENSURE AND CERTIFICATIONS

LICENSURE

January 2014

Ohio (Active)

CERTIFICATIONS

January 2014

Basic Life Support, American Heart Association

January 2014

Advanced Cardiovascular Life Support, American Heart Association

August 2015

Prechtl's Method on the Qualitative Assessment of General Movements

June 2016

Hammersmith Infant Neurologic Examination Training

September 2018

Hammersmith Neonatal Neurologic Examination Training

October 2020

Neonatal-Perinatal Medicine

November 2021

Neonatal Resuscitation Program

September 2022

Pediatric Advanced Life Support

PROFESSIONAL DEVELOPMENT

February 2019

Physician's Time Management and Fellow Core Curriculum Book Club
(organizer and facilitator)

Nationwide Children's Hospital

Columbus, Ohio

April 2019

Flourishing in Work and Life: How to Achieve Your Professional and
Personal Goals

PAS 2019

Baltimore, MD

I have reviewed the curriculum vitae for completeness and accuracy and agree with its content.

Signature _____

Date _____