Stephen W. Patrick, MD, MPH, MS, FAAP William R. Long Directorship in Child Health Policy Director, Vanderbilt Center for Child Health Policy Executive Director, Firefly Professor of Pediatrics, Health Policy, Leadership, Policy, and Organizations Division of Neonatology Vanderbilt University School of Medicine 2525 West End Avenue, Suite 1250 Nashville, TN 37203 (Phone) 615-875-5891 (Fax) 615-343-1763 <u>stephen.patrick@vumc.org</u> <u>https://www.linkedin.com/in/stephenwpatrick/</u>

EDUCATION

8/1998-5/2002	BS, Microbiology and Cell Science, Highest Honors
	University of Florida, Gainesville, FL
5/2002-5/2007	MD
	Florida State University College of Medicine, Tallahassee, FL
9/2005-11/2007	MPH, Health Policy and Management
	Harvard University School of Public Health, Boston, MA
07/2010-12/2011	MS, Health and Health Care Research
	University of Michigan, Ann Arbor, MI

POST-DOCTORAL TRAINING

6/2007-6/2010	House Officer
	Department of Pediatrics and Communicable Diseases
	University of Michigan Health System, Ann Arbor, MI
7/2010-6/2012	Robert Wood Johnson Foundation Clinical Scholar
	University of Michigan Health System, Ann Arbor, MI
7/2010-6/2013	Neonatal-Perinatal Medicine Fellow
	Department of Pediatrics and Communicable Diseases
	University of Michigan Health System, Ann Arbor, MI

Certifications

Cer mications	
2005-present	Pediatric Advanced Life Support
2005-present	Basic Life Support/Advanced Cardiac Life Support
2007-present	Neonatal Resuscitation Program
2013-present	Neonatal Resuscitation Program Instructor
License	
5/2010-2014	Board of Medicine, State of Michigan #4301090178
5/2013-present	Board of Medicine, State of Tennessee #50051
Board Certification	
10/2011-present	American Board of Pediatrics – Pediatrics
04/2014-present	American Board of Pediatrics – Neonatal-Perinatal Medicine

ACADEMIC, ADMINISTRATIVE, AND CLINICAL APPOINTMENTS

10/2023-present	Professor of Pediatrics, Health Policy, Leadership, Policy, and
1	Organizations with Tenure
	Division of Neonatology
	Vanderbilt Center for Child Health Policy
	Vanderbilt Center for Research on Inequality and Health
	Vanderbilt Center for Health Services Research
	Vanderbilt Center for Addiction Research
	Vanderbilt Kennedy Center
	Vanderbilt University Medical Center
	Nashville, TN
9/2023-present	Associate Professor of Leadership, Policy, and Organizations
3/2023-present	William R. Long Endowed Director in Child Health Policy
3/2023-present	Faculty Affiliate for the Vanderbilt Center for Research on
1	Inequality and Health
7/2019-present	Associate Professor of Pediatrics and Health Policy with tenure
•	Division of Neonatology
	Vanderbilt Center for Health Services Research
	Vanderbilt Center for Addiction Research
	Vanderbilt Kennedy Center
	Vanderbilt University Medical Center
	Nashville, TN
7/2013-6/2019	Assistant Professor of Pediatrics and Health Policy
	Division of Neonatology
	Vanderbilt Center for Health Services Research
	Vanderbilt Center for Addiction Research
	Vanderbilt University Medical Center
	Nashville, TN
4/2018-present	Director, Vanderbilt Center for Child Health Policy
	(<u>www.childpolicy.org</u>)
	- 25 affiliated members, 6 staff with areas focused on the opioid
	crisis, child welfare, adolescent mental health, and health
	equity.
	- Lead rapid assessments of parents through <u>polling</u> to
	understand challenges faced by parents including vaccine
	hesitancy, food insecurity, and mental health, which have been
	cited by the <u>Surgeon General</u> , in <u>local</u> and <u>national</u> media.
5/2018-present	Adjunct Physician Policy Researcher
	RAND Corporation
	Santa Monica, CA
	- Serve as a Co-Investigator for the Opioid Policy Tools and
	Information Center (OPTIC), providing content expertise on
	teams developing novel approaches to evaluating state opioid
1/2020	policies.
1/2020-present	Executive Director, Firefly
	(<u>www.fireflytn.org</u>)

9/2021-12/2022	 Secured \$5.3 million in funding from the Centers for Medicare and Medicaid Innovation in partnership with TennCare, the Tennessee Medicaid Program, to launch program. Manage a staff of 22 which cared for more than 300 women treated in 2 years of operations, improving treatment retention and clinical outcomes with low rates of preterm birth and newborn withdrawal. Led teams which created federal data reporting systems, establishment of quality improvement infrastructure, novel patient incentive programs, and financial sustainability through contracting and billing. Co-Director, Health Equity Research Committee, Institute for Medicine and Public Health, Vanderbilt University Medical Center and Vanderbilt University Conducted cross-institutional needs assessment to the needs of faculty conducting equity-focused research, held social gatherings to promote connection, and social media campaigns to highlight equity-focused research at each institution.
VISITING APPOIN	TMENTS
2016	Visiting Professor, Tufts University School of Medicine, Department of Pediatrics, Division of Newborn Medicine. March 10, 2016
2016	Marie McCormick Lectureship in Neonatal Health Services Research and Epidemiology, Visiting Professor, Harvard Medical School, Beth Israel Deaconess Medical Center Department of Neonatology, May 19, 2016
2016	Visiting Professor, Harvard Medical School, Boston Children's Hospital Division of Newborn Medicine, May 20, 2016
2017	Visiting Professor, University of Michigan, Department of Pediatrics, Division of Neonatal-Perinatal Medicine, February 21- 22, 2017
2019	Teresa and Byron Pollitt Family Chair in Fetal & Neonatal

2019 Teresa and Byron Pollitt Family Chair in Fetal & Neonatal Medicine Visiting Professor's Lectureship, Children's Hospital of Los Angeles/University of Southern California, Division of Neonatology, September 19, 2019

GOVERNMENT SERVICE

Senior Science Policy Advisor, Office of National Drug Control
Policy, Executive Office of the President, The White House,
Washington, D.C.

	- Provided content expertise on maternal child health, opioid use disorder, and neonatal opioid withdrawal syndrome, including informing items for the National Drug Control Strategy.
7/2014-12/2018	 Advisor, Division of Family Health and Wellness, Tennessee Department of Health, State of Tennessee, Nashville, Tennessee Provided content expertise for Title V, including efforts to evaluate public health surveillance of neonatal abstinence syndrome reporting and perinatal transmission of Hepatitis C virus.
6/2015-9/2016	 Expert consultant, A Guide to the Management of Opioid- Dependent Pregnant and Parenting Women and Their Children, Substance Abuse and Mental Health Services Administration, Department of Health and Human Services, Rockville, MD Provided content expertise in the drafting of the Agency's guidelines focused on the treatment of pregnant women with opioid use disorder and infants with neonatal opioid withdrawal syndrome.
7/2015-7/2017	 Advisory Board Member, Multi-State Plan Program Advisory Board, National Healthcare Operations, Healthcare & Insurance Division, U.S. Office of Personnel Management, Washington, D.C. Served as a consultant for OPM's efforts to manage the multi- state plan program which was created as part of the Affordable Care Act.
6/2016-present	Special Government Employee, Analgesic Drug Products Advisory Committee, Division of Anesthesia, Analgesia and Addiction Products, U.S. Food and Drug Administration, Department of Health and Human Services, Silver Spring, MD.
	<u>September 15-16, 2016</u> : Temporary Voting Member, Joint Meeting of the Anesthetic and Analgesic Drug Products Advisory Committee, the Drug Safety and Risk Management Advisory Committee, and the Pediatric Advisory Committee Meeting to discuss the appropriate development plans for establishing the safety and efficacy of prescription opioid analgesics for pediatric patients.
	September 11, 2017: Temporary Voting Member, Pediatric Advisory Committee, Benefit/Risk Assessment of Prescription Opioid Antitussive Products for Treatment of Cough in Pediatric Patients

	<u>September 14, 2017</u> : Temporary Voting Member, Joint Meeting of the Anesthetic and Analgesic Drug Products Advisory Committee and the Drug Safety and Risk Management Advisory Committee
	September 26, 2019: Temporary Voting Member, Pediatric Advisory Committee/Drug Safety and Risk Management Advisory Committee
8/2016-11/2016	 Member, Technical Advisory Group, Neonatal Episodes of Care, Health Care Financing and Administration, State of Tennessee, Nashville, Tennessee Provided expertise in maternal-child health in the crafting of risk-adjusted models focused on incentivizing high-value care for critically ill infants.
9/2018-9/2022	 Guest Researcher, Centers for Disease Control and Prevention, Division of Reproductive Health, Atlanta, Georgia. Provide content expertise on opioid use disorder in pregnancy, including mentorship to staff in the drafting of manuscripts.
10/2021-9/2022	 Senior Policy Advisor, Office of National Drug Control Policy, Executive Office of the President, The White House, Washington, D.C. Established and led an interagency policy committee with members across the Executive Office of the President, Department of Health and Human Services, Department of Justice, Department of Education, Department of Veteran Affairs, and Department of Defense. Led the drafting of the Administration's action plan "Substance Use Disorder in Pregnancy: Improving Outcomes for Families," and the development of public-facing educational materials focused on medications for opioid use disorder in pregnancy and stigma. Led a process, along with a federal contractor, to draft state model legislation focused on state implementation of family care plans for families affected by substance use disorder.
Reviews 2014	Expert Reviewer, Substance Abuse and Mental Health Services Administration and National Center on Substance Abuse and Child Welfare, <i>Medication-Assisted Treatment for Pregnant Women with</i> <i>Opioid Dependence: Practice and Policy Considerations for</i> <i>Health Care, Addiction Treatment Providers, Child Welfare and</i> <i>Courts</i>

2018	Reviewer, National Academies of Sciences, Engineering, and Medicine. 2018. <i>Medication-assisted treatment for opioid use</i> <i>disorder: Proceedings of a workshop—in brief.</i> Washington, DC: The National Academies Press doi: <u>https://doi.org/10.17226/25322</u> .
<i>Testimonies</i> 6/24/2015	Witness, United States House of Representatives, Energy and Commerce Committee, Health Subcommittee. Examining Public Health Legislation. Testimony provided on the Protecting Our Infants Act of 2015 and neonatal abstinence syndrome. Testimony: <u>http://energycommerce.house.gov/hearing/examining- public-health-legislation-hr-2820-hr-1344-and-hr-1462</u> Law: <u>https://www.congress.gov/114/plaws/publ91/PLAW- 114publ91.pdf</u>
3/15/2016	Witness, Tennessee General Assembly, House Criminal Justice Subcommittee, Testimony provided on House Bill 1660 and neonatal abstinence syndrome. <u>http://wapp.capitol.tn.gov/apps/BillInfo/default.aspx?BillNumber=</u> <u>HB1660&GA=109</u>
2/8/2018	Witness, United States Senate; Committee on Health, Education, Labor and Pensions. "The Opioid Crisis: Impact on Children and Families." Testimony: <u>https://www.help.senate.gov/hearings/the-opioid- crisis-impact-on-children-and-families</u> Law: <u>https://www.congress.gov/bill/115th-congress/house-bill/6</u>
1/15/2020 1/29/2020	Witness, Tennessee General Assembly, Senate Health and Welfare Committee. "Neonatal Abstinence Syndrome."
1/23/2020	Witness, Medicaid and CHIP Payment and Access Commission. "Access to Treatment for Pregnant Women with Substance Use Disorder and Infants with Neonatal Abstinence Syndrome." <u>https://www.macpac.gov/public_meeting/january-2020-macpac-public-meeting/</u>

PROFESSIONAL ASSOCIATIONS

2003-present	American Academy of Pediatrics
	Section on Neonatal-Perinatal Medicine
2013-present	American Medical Association
2014-present	AcademyHealth
2015-present	Society for Pediatric Research
2020-present	Zero to Three

NIH STUDY SECTION

2023-present Standing Member, Organizational and Delivery of Health Services Study Section

SCIENTIFIC REVIEWER FOR PEER-REVIEWED JOURNALS

2011-present	Journal of Health Care for the Poor and Underserved
2012-present	American Journal of Preventive Medicine
2012-present	Pediatrics
2013-present	American Journal of Public Health
2013-present	The Journal of the American Medical Association
2014-present	Maternal and Child Health Journal
2014-present	Journal of Perinatology
2014-present	Pediatric Drugs
2015-present	American Journal of Perinatology
2015-present	Academic Pediatrics
2015-present	The Joint Commission Journal on Quality and Patient Safety
2015-present	The Journal of Pediatrics
2015-present	Child Maltreatment
2015-present	The New England Journal of Medicine
2016-present	JAMA Pediatrics
2016-present	JAMA Psychiatry
2016-present	Addiction
2016-present	Harvard Journal on Legislation
2016-present	Health Affairs
2017-present	The British Medical Journal
2017-present	The Journal of Addiction Medicine
2018-present	Drug and Alcohol Dependence
2018-present	American Journal of Public Health
2018-present	Pediatric Research
2019-present	Public Health Reports
2019-present	The Journal of Primary Prevention
2021-present	JAMA Health Forum
2021-present	BMJ Open

ORGANIZING ROLES IN NATIONAL MEETINGS

4/2015	Pediatric Academic Societies Annual Meeting, San Diego, CA
	- Moderator, Platform Presentation Session: "Neonatal
	Epidemiology and Health Services"
	- Moderator, Platform Presentation Session: "Neonatal Health
	Services Research"
	- Poster Facilitator, "Epidemiology and Health Science Services:
	Maternal Epidemiology I"
	- Poster Facilitator, "Epidemiology and Health Science Services:
	Maternal Epidemiology II"
4/2019	Pediatric Academic Societies Annual Meeting. Baltimore, MD

	- Moderator, "Opioid Prescribing, Mental Health, and Substance
	Use among Adolescents and Young Adults: Can Pediatric
	Providers Slow the Opioid Epidemic?"
	- Moderator, "Neonatal Abstinence Syndrome: Eat. Sleep.
	Console. Repeat - and Other New Thoughts for 2019"
12/2019	Hot Topics in Neonatology. National Harbor, MD
	- Moderator, Neonatal Abstinence Syndrome session
11/2019-6/2020	Theme Co-Director, Child and Family Health, AcademyHealth
	Annual Research Meeting
1/2023	Pediatric Academic Societies Annual Meeting, Washington, D.C.,
	Abstract reviewer

ORGANIZATIONAL LEADERSHIP

American Medica	l Association, Chicago, IL
2003-2004	Vice Chair, Region 4 (FL, GA, NC, SC, PR, TN, AL), Medical
	Student Section
2004-2005	National Chair, Community Service Committee, Medical Student
	Section
2005-2006	Delegate, AMA House of Delegates
	- Member of the Medical Student Section Delegation
	- Member of the Florida Delegation
2004-2006	National Chair, Cover the Uninsured Task Force, Medical Student
	Section
2005-2006	Member, Council on Medical Service
2006-2007	National Co-Chair, Health Care Access Task Force, Medical
	Student Section
2008-2009	Member, Legislative Advocacy Committee, Resident and Fellow
	Section
2010-2011	Vice Chair, Committee on Medical Education, Resident and
	Fellow Section
Florida Medical Association Tallahassee Fl	

Florida Medical Association, Tallahassee, FL

Florida State University College of Medicine, Tallahassee, FL 2006-2007 Member, Admissions Committee

University of Mic	higan Health System, Ann Arbor, MI
2007-2010	Member, Graduate Medical Education Committee Department of
	Pediatrics and Communicable Diseases

American Academy of Pediatrics, Elk Grove Village, IL

2008-2009	Member, Executive Committee Member, Section on Medical
	Students, Residents and Fellowship Trainees
2008-2009	District V Coordinator (MI, OH, IN, ON)
2010-2011	Liaison, Committee on Federal Government Affairs

2015-2021 2016-2017 2020-2022	 Subcommittee on Access Member, Committee on Substance Use and Prevention Expert consultant, Fetal Alcohol Spectrum Disorders Quality Improvement Programs Child Welfare Policy Pediatric Learning Collaborative
Vermont Oxford Netv 2012-2015	 <i>vork, Burlington, VT</i> iNICQ international quality improvement collaborative on neonatal abstinence syndrome involving more than 100 neonatal intensive care units in the United States and abroad. Member, Scientific Steering Committee Faculty member Expert Discussant Co-Author of Improvement Toolkit
March of Dimes, Ten 2015-2017	nessee Chapter, Nashville, TN Member, Advocacy and Government Affairs Committee
Department of Health 2015-2019	n Policy, Vanderbilt University School of Medicine, Nashville, TN Member, Faculty Search Committee
Robert Wood Johnson 2016-2017	n Clinical Scholars Alumni Association, Chapel Hill, NC Founding Co-President
March of Dimes, Whi 2016-2017	<i>ite Plains, NY</i> Inaugural member, March of Dimes National Advocacy Leaders Team
American College of 2018-2019	<i>Obstetricians and Gynecologists, Washington, D.C.</i> Member, Alliance for Innovation in Maternal Health, National Maternal Substance Use Expert Team
US Department of He Washington, D.C. 2018-2021	ealth and Human Services, Office of the Assistant Secretary, Member, HHS Initiative on NAS Advisory Board
Vanderbilt University 2020-present 2021-present	Medical Center, Nashville, Tennessee Vanderbilt Opioid Stewardship & Safety (VOSS) Co-Leader, Hazinski Society Junior Faculty Mentorship Program, Department of Pediatrics
	lealth, Behavioral Health, and Safety (NCHBHS), Office of Head t of and Human Services, Washington, D.C.

2020-present Advisory Committee Member

Tennessee Safe Baby Courts Advisory Committee, Nashville, Tennessee.

2020-present Member

Society for Pediatric Research, The Woodlands, Texas.2021-presentTask Force on Child Population Health Research

Neonatal Justice Collaborative

2022-present Senior Faculty Lead, Policy and Advocacy

HONORS AND AWARDS

2004	American Medical Association Foundation Excellence in Medicine
	Leadership Award
2004	Florida Medical Association Mullen Award for Outstanding
	Community Service
2006	Florida Medical Foundation Scholarship
2007	Florida State University College of Medicine Individual
	Achievement Award for "commitment to ensuring quality medical
	care for those most in need."
2010	Top Presentation, Research Day, University of Michigan
	Department of Pediatrics (Medicaid: A Program for Children?
	Trends From 1991-2005)
2011	Pediatric Academic Societies Young Investigator's Travel Award
	(Regional Variation in Lumbar Punctures for Early Onset Neonatal
	Sepsis)
2012	Academic Pediatric Association Research Award; Best Abstract by
	a Fellow – Pediatric Academic Societies (Federal Medical
	Assistance Percentage Policy and Medicaid/CHIP Enrollment for
	Children)
2013	Top 20 most influential articles published in 2012 - RWJF Year in
	<i>Research</i> poll (Neonatal Abstinence Syndrome and Associated
	Healthcare Expenditures – United States, 2000-2009)
2013	National Finalist – White House Fellows Program
2013, 2015, 2016	NIH Loan Repayment Award for Pediatric Research – National
, ,	Institute on Drug Abuse
2015	Burroughs-Wellcome Fund Trainee Travel Award, Translational
	Science 2015 Meeting (Higher Dose and Duration of Maternal
	Prescription Opioid Use Increases Risk of Neonatal Abstinence
	Syndrome)
2016	Tennessee Chapter of the American Academy of Pediatrics Early
	Career Physician of the Year
2017	Nemours Child Health Services Research Award, AcademyHealth
2019	Society for Pediatric Research Young Investigator Award
2020	Mildred T. Stahlman award for Innovation in Clinical Care
2020	VUMC Biomedical Science Impact Award
2020	Gale and Ira Drukier Prize in Children's Health Research
2021	Florida State University Medical Alumni Hall of Fame
2021-2023	Chancellor Faculty Fellow, Vanderbilt University

TEACHING ACTIVITIES

2013-present	Division of Neonatology – Pediatric Resident Core Curriculum
	Lecture Series – "Neonatal Abstinence Syndrome."
2014-2016	Division of Neonatology Journal Club – Fellow mentor and co- leader
2014-2017	Department of Pediatrics Fellow Core Curriculum – Biostatistics
RESEARCH SUPE	RVISION
Research Mentor for	· Undergraduates
2016-2017	Araminta Ray
	Project: Exploring the Psychological and Social Underpinnings of Opioid Use Disorder and Neonatal Abstinence Syndrome in Tennessee
2020-2022	Caroline Orgel
	Project: Vanderbilt Child Health Poll
Research Mentor for	· Medical Students
2014-2016	M. Katherine Charles*
	Project: Infant Sex and Risk of Neonatal Abstinence Syndrome
2021-present	Sunaya Krishnapura*
	Project: Understanding Factors Associated with Gastroschisis in
	Newborns
Research Mentor for	· MPH Students
2017-2019	Tamee Livermont
	Project: Assessment of postpartum contraceptive use in the 2016-
	2017 CDC PRAMS data
2017-2019	Sadie Sommer
2017 2017	Project: Maternal Mortality Committee Reports: A comparative
	review
2020-2022	Anna Wisotzkey
2020-2022	Project: Provider Opioid Prescribing Patterns and Beliefs
2021-2022	Mia Letterie
2021-2022	
	Project: Factors Associated with Parental COVID-19 Vaccination
2021 2022	Acceptance
2021-2023	Meredith Denney
	Project: Mobile Flu Fighter!: Development and implementation of a mobile vaccination program to reduce pediatric influenza vaccination disparities in Nashville, Tennessee
2022-present	Nicole Andersen*
	Project: Exploring the Relationship Between Maternal Treatment for Opioid Use Disorder and Infant Feeding Difficulties

Research Mentor for Pediatric Residents

2018-2021 Kathleen Doherty, MD* Project: Establishing a Gold Standard Definition of Neonatal

Abstinence Syndrome.

Research Mentor for Pediatric Fellows

itebetti ett hitettiot,	
2015-2017	Faouzi Issam Maalouf, MD*
	Project: Efficacy of Outpatient Treatment and Management for
	Neonatal Abstinence Syndrome
2015-2017	Jason Pryor, MD, MPH
	Project: Patterns of alcohol consumption among women with
	intended pregnancies
2015-2016	Nicole L. G. Villapiano, MD, MSc.
	Project: Rural and Urban Differences in Neonatal Abstinence
	Syndrome and Maternal Opioid Use, 2004 to 2013
2016-2018	Tyler N.A. Winkelman, MD, MSc
	Project: Neonatal Abstinence Syndrome in the US Medicaid
	Program
2016-2019	Lauren Sanlorenzo, MD, MST, MPH*
	Project: The Impact of Polysubstance Exposure on Neonatal
	Abstinence Syndrome Severity
2017-2020	Susan Lopata, MD*
	Project: Improving Systems of Care for Infants Exposed to
	Hepatitis C
2019-2021	Lindsay Sternad, MD*
	Project: Non-English Primary Language and Adverse
	Developmental Outcomes Among Neonates
2020-2022	Shani A. Jones, MD
	Project: Reaching Diverse Pediatric Populations in Primary Care
2021-present	Alex Muhar, MD
	Project: Improving Outcomes for Infants in the US Child Welfare
	System

Research mentor for junior faculty

L. Dupree Hatch, MD MPH
Project: Improving Respiratory Outcomes for Critically Ill Infants
Current Position: Assistant Professor, Vanderbilt University
Medical Center
Ashley Leech, PhD*
Project title (NIDA K01DA050740): Advancing Treatment
Outcomes for Pregnant Women with Opioid Use Disorder
Current Position: Assistant Professor, Vanderbilt University
Medical Center, Nashville, TN
Kristin Benninger, MD
Project: Optimizing Developmental Outcomes in Early Childhood
After Neonatal Opioid Withdrawal Syndrome
Current Position: Assistant Professor, The Ohio State University,
Columbus, OH
Amanda Stone, PhD

	Project (K23DA050801): Biopsychosocial predictors of opioid use for pediatric postsurgical pain
	Current Position: Assistant Professor, Vanderbilt University
	Medical Center, Nashville, TN
2021-2022	Elizabeth Yen, MD, MA
	Project (K12 BIRCWH): Understanding how prenatal opioids
	exert a sex-dependent impact on the developing brain
	Current Position: Assistant Professor of Pediatrics, Tufts
	University School of Medicine, Boston, MA
2021-present	Dominique Bulgin, PhD, RN*
	Project (NIDA R01 Equity Supplement - 1R01DA045729-04S1):
	Understanding the influence of community race characteristics
	with likelihood of treatment acceptance for opioid use disorder.
	Current Position: Assistant Professor, University of Tennessee,
	Knoxville, TN
2022-present	Margaret H. Lloyd Sieger, Ph.D
	Project: Public Policy and Health for Substance Exposed Infant-
	Mother Dyads (K01DA058060)
	Current Position: Assistant Professor, University of Connecticut
	School of Social Work, Hartford, CT

Dissertation Committee

2 100001 10111011 00111111	
2017-2020	Elizabeth Greener, PhD
	University of Rochester Department of Economics
	Project title: Market Shocks and Their Effect on Healthcare
	Utilization and Outcomes for Pregnant Women with Opioid Use
	Disorder
	Current Position: Washington State Department of Social and
	Health Services
2023-present	Dennis Lee, BS
	Vanderbilt University Department of Health Policy
	Project title: Understanding Factors Associated with
	Buprenorphine Treatment
2023-present	Jessica Kiser, BS
	Vanderbilt University Department of Economics
	Project title: Evaluating State Home Birth Regulations and Policies
*Primary mentor	

GRANTS

Current Research Support:		
Source:	National Institute on Drug Abuse, R01	
	R01DA056436	
Title:	Improving Outcomes for Substance-Affected Families in the Child Welfare System	

Role: Costs: Effort:	Principal Investigator \$2,568,832 (4.5 years) 20% effort (8/2023-6/2028)
Source:	National Institute on Drug Abuse, National Institutes of Health, P50 P50DA04635106
Title: Role:	Opioid Policy Tool and Information Center (OPTIC) (renewal) Co-Investigator (PI: Stein, RAND Corporation)
Costs: Effort:	\$11,906,183 (5 years) 5% years 1-3, 10% years 4/5 (08/2023-7/2028)
Source:	National Institute on Drug Abuse, National Institutes of Health, R34 R34DA054483
Title: Role: Costs: Effort:	Developing Quality Measures for Opioid-Exposed Infants Principal Investigator (MPI, Lorch Children's Hospital of Philadelphia) \$823,846 (3 years) 10% effort (7/2022-6/2025)
Source:	Centers for Medicare and Medicaid and Innovation/TennCare 31865-00907
Title:	Improving Outcomes for Pregnant Women and Infants Affected by the Opioid Crisis
Role:	Principal Investigator (TennCare PI: Wu)
Costs:	\$5,380,000 (5 years)
Effort:	20% (1/2020-12/2024)
Source:	National Institute on Child Health and Human Development, R01 R01HD097344
Title:	Antipsychotics and the Risk of Unexpected Death in Children and Youth
Role:	Co-Investigator (PI: Ray)
Costs:	\$2,490,582 (5 years)
Effort:	10% effort (12/2019-12/2023)
Source:	National Institute on Child Health and Human Development, P50HD106446-02
Title:	Vanderbilt Integrated Center of Excellence in Maternal and Pediatric Precision Therapeutics
Project Title:	Leveraging Data Science to Understand Outcomes for Mothers and Children Affected by Opioids
Role:	Co-Investigator, Project Lead
Costs:	\$4,326,820 (5 years)
Effort:	15% effort (9/2021-7/2026)
Source:	The Boedecker Foundation
Title:	Improving Care for Infants with Neonatal Abstinence Syndrome
Role:	Principal Investigator

Costs:	\$320,000 (5 years)
Effort:	5% concurrent effort (1/2019-12/2023)
Source:	Agency for Healthcare Research and Quality, R01
	R01HS029159
Title:	Improving Maternal and Child Health in the Year After Birth: An
	Early Evaluation of Postpartum Medicaid Eligibility Extensions
Role:	Co-Investigator (MPI: Admon, University of Michigan, Daw, Columbia
	University)
Costs:	\$2,000,000 (5 years)
Effort:	5% (09/2022-08/2027)
a 1, 1p	1 0

Completed Research Support:

Source:	National Institute on Drug Abuse, National Institutes of Health, P50 P50DA046351
Title:	Center for Opioid Policy Research
Role:	Co-Investigator (PI: Stein, RAND Corporation)
Costs:	\$4,590,706 (4 years)
Effort:	5% (7/2018-6/2023)
Source:	National Institute on Drug Abuse, National Institutes of Health, R01 1R01DA045729
Title:	Improving Access to Treatment for Women with Opioid Use Disorder
Role:	Principal Investigator
Costs:	\$1,404,586 (5 years)
Effort:	25% (4/2018-1/2023)
Source:	National Institute on Drug Abuse, National Institutes of Health, R01 1R01DA045729-04S1
Title:	Improving Access to Treatment for Women with Opioid Use Disorder (Equity Supplement)
Role:	Principal Investigator
Costs:	\$137,620 (1 year)
Effort:	5% (9/2021-1/2023)
Source:	National Institute of Mental Health, R01MH120124-02S2
Title:	Behavioral health Insurance coverage and outcome Risks of Co-occurring conditions among delivering women with opioid use and pain for HEAL: The BIRCH study
Role:	Co-Investigator (PI: Zivin, University of Michigan)
Costs	\$793,970
Effort:	10% effort (9/2020-5/2022)
Source:	The Robert Wood Johnson Foundation
Title:	Robert Wood Johnson Foundation Clinical Scholars Program
Role:	Fellow in health services and health policy research

Costs: Effort:	\$250,000 (2 years) 80% (7/2010-6/2012)
Source:	National Institutes of Health and Vanderbilt Clinical Research Scholars Program KL2 - 5KL2TR000446-08
Title:	Neonatal Abstinence Syndrome: Risk of Drug Withdrawal in Opioid- Exposed Infants
Role:	Principal Investigator
Costs:	\$450,000 (3 years)
Effort:	75% (7/2014-1/2015)
Source:	United States Department of Health and Human Services, Health Resources and Services Administration and the State of Tennessee Department of Health
Title:	Prescription Opioid Prescribing Patterns as Predictors of Neonatal Abstinence Syndrome
Role:	Principal Investigator
Costs:	\$110,690 (1 year)
Effort:	10% concurrent effort (4/2014-6/2015)
Source:	National Institute on Drug Abuse, National Institutes of Health 1K23DA038720
Title:	Neonatal Abstinence Syndrome: Risk of Drug Withdrawal in Opioid- Exposed Infants
Role:	Principal Investigator
Costs:	\$810,275.07 (5 years)
Effort:	75% (2/2015-1/2020)
Source:	National Institute for Health Care Management Foundation
Title:	The Prescription Opioid Epidemic: Understanding its Complications and the Effectiveness of State Policies
Role:	Principal Investigator
Costs:	\$57,072 (1 year)
Effort:	Concurrent effort (1/2016-6/2017)
Source:	The Memorial Foundation
Title:	Improving Care for Infants with Neonatal Abstinence Syndrome
Role:	Principal Investigator
Costs:	\$281,734 (2 years)
Effort:	5% concurrent effort (9/2017-8/2019)
Source:	National Institutes of Health, Office of the Director
Title	U2-COD023375-02S1 Project ECHO (Environmental influences on Child Health Outcomes)
Title:	Project ECHO (Environmental influences on Child Health Outcomes) Coordination Center, Supplement on Neonatal Opioid Withdrawal Syndrome

Role: Costs: Effort:	Co-Investigator (PI: P. Brian Smith, MD, MPH, MHS, Duke University) \$250,000 (1 year) 10% concurrent effort (10/2017-9/2018)
Source:	National Institute on Drug Abuse, National Institutes of Health, R21 R21DA045212
Title:	An Exploratory Analysis of the Association of State Policies with Neonatal Abstinence Syndrome
Role: Costs: Effort:	Consultant (PI: Faherty, RAND Corporation) \$255,803 (2 years) Consultant (3/2018-2/2020)
Source: Title:	Robert Wood Johnson Foundation Health and Educational Outcomes of Low-Resource, Vulnerable Children in Tennessee
Role: Costs: Effort:	Co-Investigator (PI: Buntin, Heinrich) \$1,200,000 (30 months) 10% effort (11/2018-4/2021)
<i>Pending:</i> Source: Title: Role: Costs: Effort:	National Institute on Drug Abuse, R01 Equitable Access to Treatment for Opioid Use Disorder During Pregnancy Principal Investigator \$3,561,149 (5 years) 20% effort
Source: Title:	Department of Health and Human Services Supporting Pregnancy Outcomes with Real-World Teams (The SUPPORT Study)
Role: Costs: Effort:	Co-Investigator (PI: Osmundson) \$4,185,218.07 (4 years) 10% effort

PEER-REVIEWED PUBLICATIONS

- 1. Odetola FO, Mann C, Hansen KW, <u>Patrick S</u>, Bratton SL. Source of Admission and Outcomes for Critically Injured Children in the Mountain States. *Archives of Pediatrics and Adolescent Medicine*. 2010;164(3):277-282
- Patrick SW, Schumacher RE, Benneyworth BD, Krans EE, McAllister JM, Davis MM. Neonatal Abstinence Syndrome and Associated Healthcare Expenditures – United States, 2000-2009. JAMA. 2012 May 9;307(18):1934-40. Epub 2012 Apr 30.
- 3. <u>Patrick SW</u>, Choi H, Davis MM. Increase In Federal Match Associated With Significant Gains In Coverage For Children Through Medicaid And CHIP. *Health Affairs*. 2012 Aug;31(8):1796-802.

- 4. <u>Patrick SW</u>, Schumacher RE, Davis MM. Variation in Lumbar Punctures for Early Onset Neonatal Sepsis: A Nationally Representative Serial Cross-Sectional Analysis, 2003–2009. *BMC Pediatrics*. 2012, 12:134.
- <u>Patrick SW</u>, Freed GL. Intergenerational Enrollment and Expenditure Changes in Medicaid: Trends from 1991 to 2005. *BMC Health Services Research*. 2012, 12:327.
- Patrick SW, Davis MM, Meddings JA, Hieber S, Lee GM, Stillwell TL, Chenoweth, CE, Espinosa C, Schumacher RE. Accuracy of Hospital Administrative Data in Reporting Central-Line Associated Bloodstream Infections in Newborns. *Pediatrics*. 2013-03;131 Supplement 1:S75-80.
- Sun GH, Auger KA, Aliu O, <u>Patrick SW</u>, DeMonner S, Davis MM. Post-Tonsillectomy Hemorrhage in Children with von Willebrand Disease and Hemophilia. *JAMA Otolaryngology - Head & Neck Surgery*. 2013;139(3):245-249.
- Sun GH, Auger KA, Aliu O, <u>Patrick SW</u>, Demonner S, Davis MM. Variation in Inpatient Tonsillectomy Costs Within and Between US Hospitals Attributable to Postoperative Complications. *Med Care*. 2013 Dec;51(12):1048-54.
- Haggins A, <u>Patrick SW</u>, Demonner S, Davis MM. When Coverage Expands: CHIP as a Natural Experiment in Utilization of Healthcare Services. *Academic Emergency Medicine*. 2013 Oct;20(10):1026-32.
- Harris MJ, Gay JC, Neef JM, <u>Patrick SW</u>, Sedman, A. Comparison of Administrative Data versus Infection Control Data in Identifying Central Line-Associated Blood Stream Infections in Children's Hospitals. *Hospital Pediatrics*. 2013; 3:307-313.
- Auger KA, <u>Patrick SW</u>, Davis MM. Infant Hospitalizations for Pertussis Before and After Tdap Recommendations For Adolescents. *Pediatrics*, 2013 Nov;132(5):e1149-55. Epub 2013 Oct 21.
- Patrick SW, Kaplan HC, Passarella M, Davis MM, Lorch SA. Variation in Treatment of Neonatal Abstinence Syndrome Among US Children's Hospitals, 2004-2011. *Journal of Perinatology* 2014 Nov;34(11):867-72. Epub 2014 Jun 12.
- Patrick SW, Kawai AT, Kleinman K, Jin R, Vaz L, Gay C, Kassler W, Goldmann D, Lee GM. Significant Decreases in Healthcare-Associated Infections Among Hospitalized Children in the US from 2007-2012. *Pediatrics*. 2014 Oct;134(4):705-12. Epub 2014 Sep 8.
- Warren MD, Miller AM, Traylor J, Bauer A, <u>Patrick SW</u>. Implementation of a Statewide Surveillance System for Neonatal Abstinence Syndrome — Tennessee, 2013. MMWR Morbidity and Mortality Weekly Report. 2015 Feb 13;64(5):125-8.
- Patrick SW, Dudley J, Martin PR, Harrell FE, Warren MD, Hartmann KE, Ely EW, Grijalva GC, Cooper WO. Prescription Opioid Epidemic and Infant Outcomes. *Pediatrics*. 2015 May;135(5):842-850. Epub 2015 April 13.
- 16. Tolia V, <u>Patrick SW</u>, Bennett M, Sousa J, Smith PB, Clark R, Spitzer AR. Increasing Neonatal Abstinence Syndrome in US Neonatal Intensive Care Units. *The New England Journal of Medicine*. 2015 May 28;372(22):2118-26 Epub 2015 Apr 26.

- Patrick SW, Davis MM, Lehmann CU, Cooper WO. Increasing Incidence and Geographic Distribution of Neonatal Abstinence Syndrome: United States 2009-2012. *Journal of Perinatology*. 2015 Aug;35(8):650-5. Epub 2015 Apr 30.
- Patrick SW, Burke JF, Biel TJ, Auger KA, Goyal N, Cooper WO. Risk of Hospital Readmission Among Infants with Neonatal Abstinence Syndrome. *Hospital Pediatrics*. 2015 Oct;5(10):513-9.
- 19. <u>Patrick SW</u>, Warner KE, Pordes E, Davis MM. Cigarette Tax Increase and Infant Mortality. *Pediatrics*. 2016 Jan;137(1):1-8. Epub 2015 Dec 1.
- <u>Patrick SW</u>, Schumacher RE, Horbar JD, Buss-Frank ME, Morrow KA, Ferrelli KR, Picarillo AP, Gupta M, Soll RF. Improving Care for Infants with Neonatal Abstinence Syndrome. *Pediatrics*. 2016 May;137(5). Epub 2016 Apr 15.
- Patrick SW, Fry CE, Jones TF, Buntin MB. Implementation Of Prescription Drug Monitoring Programs Associated With Reductions In Opioid-Related Death Rates. *Health Affairs*. 2016 Jul 1;35(7):1324-32. Epub 2016 Jun 22.
- 22. Ko JY, <u>Patrick SW</u>, Tong VT, Patel R, Lind JN, Barfield WD. Incidence of Neonatal Abstinence Syndrome in 28 States, 1999-2013. MMWR *Morbidity and Mortality Weekly Report* 2016;65:799–802.
- Villapiano NLC, Winkelman TNA, Kozhimannil KB, Davis MM, <u>Patrick SW</u>. Rural and Urban Differences in Neonatal Abstinence Syndrome and Maternal Opioid Use, 2004 to 2013. *JAMA Pediatrics*. 2017 Feb 1;171(2):194-196.
- 24. Ko JY, Wolicki S, Barfield WD, <u>Patrick SW</u>, Broussard CS, Yonkers KA, Naimon R, Iskander J. CDC Grand Rounds: Public Health Strategies to Prevent Neonatal Abstinence Syndrome. *MMWR Morbidity and Mortality Weekly Report.* 2017 Mar 10;66(9):242-245.
- Pryor JR, <u>Patrick SW</u>, Sundermann AC, Wu P, Hartmann KE. Pregnancy Intention and Maternal Alcohol Consumption. *Obstetrics & Gynecology*. 2017 Apr;129(4):727-733.
- Kozhimannil KB, Graves AJ, Levy R, <u>Patrick SW</u>. Nonmedical Use of Prescription Opioids among Pregnant U.S. Women. *Women's Health Issues*. May-Jun 2017;27(3):308-315.
- Charles MK, Cooper WO, Jansson LJ, Dudley J, Slaughter J, <u>Patrick SW</u>. Male Sex Associated with Increased Risk of Neonatal Abstinence Syndrome. *Hospital Pediatrics*. 2017 Jun;7(6):328-334.
- Patrick SW, Bauer A, Warren MD, Jones TF, Wester C. Increasing Prevalence of Hepatitis C Among Women with Recent Live Births— United States and Tennessee, 2009–2014. MMWR Morbidity and Mortality Weekly Report. 2017 May 12;66(18):470-473.
- Winkelman TNA, Villapiano N, Kozhimannil KB, Davis MM, <u>Patrick SW</u>. Incidence and Costs of Neonatal Abstinence Syndrome among Infants with Medicaid: 2004–2014. *Pediatrics*. 2018 Apr;141(4).
- Maalouf FI, Cooper WO, Slaughter JC, Dudley J, <u>Patrick SW</u>. Outpatient Pharmacotherapy for Neonatal Abstinence Syndrome. *The Journal of Pediatrics*. 2018 Aug;199:151-157.e1.
- Hatch LD, Scott TA, Walsh WF, Goldin AB, Blakely ML, <u>Patrick SW</u>. National and regional trends in gastrostomy in very low birth weight infants in the USA: 2000-2012. *The Journal of Perinatology*. 2018 Sep;38(9):1270-1276.

- 32. <u>Patrick SW</u>, Buntin MB, Martin PR, Scott TA, Dupont W, Richards M, Cooper WO. Barriers to Accessing Treatment for Pregnant Women with Opioid Use Disorder in Appalachian States. *Substance Abuse*. 2018 Jun 27:1-18.
- Reese J, Scott TA, <u>Patrick SW</u>. Changing Patterns of Patent Ductus Arteriosus Surgical Ligation in the United States. *Seminars in Perinatology*. 2018 Jun;42(4):253-261.
- 34. Whitmore C, White MN, Buntin MB, Fry CE, Calamari K, <u>Patrick SW</u>. State Laws and Policies to Reduce Opioid-Related Harm: A Qualitative Assessment of PDMPs and Naloxone Programs in Ten U.S. States. *Preventive Medicine Reports*. 2018 Dec 30;13:249-255.
- 35. Ray WS, Stein CM, Murray KT, <u>Patrick SW</u>, Fuchs C, Daugherty J, Hall K, Cooper WO. Antipsychotics and Increased Risk of Unexpected Death in Children and Youth. *JAMA Psychiatry*. 2019 Feb 1;76(2):162-171.
- 36. Maalouf FI, Cooper WO, Stratton SM, Dudley J, Ko J, Banerji A, <u>Patrick SW</u>. Positive Predictive Value of Administrative Data for Neonatal Abstinence Syndrome. *Pediatrics*. 2019 Jan;143(1):e20174183.
- Colby JM, Adams B, Morad A, Presley L, <u>Patrick SW</u>. Umbilical cord tissue and meconium may not be equivalent for confirming in utero substance exposure. *Journal of Pediatrics*. 2019 Feb;205:277-280.
- Patrick SW, Faherty LJ, Dick A, Scott TA, Dudley J, Stein BD. Association Among County-Level Economic Factors, Clinician Supply, Metropolitan or Rural Location, and Neonatal Abstinence Syndrome. JAMA. 2019 Jan 29;321(4):385-393.
- 39. Osmundson SS, Wiese AD, Min JY, Hawley RE, <u>Patrick SW</u>, Griffin MR, Grijalva CG. Delivery Type, Opioid Prescribing, and the Risk of Persistent Opioid Use after Delivery. *American Journal of Obstetrics & Gynecology*. 2019 Apr;220(4):405-407
- 40. <u>Patrick SW</u>, Frank RG, McNeer E, Stein BD. Improving the Child Welfare System to Respond to the Needs of Substance-Exposed Infants. *Hospital Pediatrics*. 2019 Aug;9(8):651-654.
- 41. Sanlorenzo LA, Cooper WO, Dudley JA, Stratton S, Maalouf FI, <u>Patrick SW</u>. Increased Severity of Neonatal Abstinence Syndrome Associated With Concomitant Antenatal Opioid and Benzodiazepine Exposure. *Hospital Pediatrics*. 2019 Aug;9(8):569-575.
- Crook TW, Munn E, Scott TA, Morad A, Wyatt J, Johnson DP, White M, <u>Patrick</u> <u>SW</u>. Improving the Discharge Process for Opioid Exposed Neonates. *Hospital Pediatrics*. 2019 Aug;9(8):643-648.
- 43. Faherty LJ, Kranz AM, Russell-Fritch J, <u>Patrick SW</u>, Cantor J, Stein BD. Association of Punitive and Reporting State Policies Related to Substance Use in Pregnancy With Rates of Neonatal Abstinence Syndrome. *JAMA Network Open*. 2019 Nov 1;2(11):e1914078
- 44. Goyal NK, Rohde JF, Short V, <u>**Patrick SW**</u>, Abatemarco D, Chung EK. Well Child Care Adherence After Intrauterine Opioid Exposure. *Pediatrics*. 2020 Feb;145(2).

- 45. Lopata SM, McNeer E, Dudley JA, Wester C, Cooper WO, Carlucci JG, Espinosa CM, Dupont W, <u>Patrick SW</u>. Hepatitis C Testing Among Perinatally Exposed Infants. *Pediatrics*. 2020 Mar;145(3)
- Leech AA, Cooper WO, McNeer E, Scott TA, <u>Patrick SW</u>. Neonatal Abstinence Syndrome in the United States, 2004-16. *Health Affairs*. 2020 May;39(5):764-767.
- Hatch LD, Scott TA, Slaughter JC, Xu M, Smith AH, Stark A, <u>Patrick SW</u>, Ely W. Outcomes, Resource Use, and Financial Costs of Unplanned Extubations in Preterm Infants. *Pediatrics*. 2020 Jun;145(6):e20192819.
- 48. Winkelman TNA, Ford BR, Shlafer R, McWilliams A, Admon L, <u>Patrick SW</u>. Medications for opioid use disorder among pregnant women referred by criminal justice agencies before and after Medicaid expansion: A retrospective study of admissions to treatment centers in the United States. *PLOS Medicine*. 2020 May 18;17(5):e1003119.
- 49. Osmundson SS, Min JY, Wiese AD, Hawley RE, Mitchel E, <u>Patrick SW</u>, Samuels LR, Griffin MR, Grijalva CG. Opioid Prescribing After Childbirth and Risk for Serious Opioid-related Events: A Cohort Study. *Annals of Internal Medicine*. 2020 Sep 1;173(5):412-414.
- 50. Faherty L, Kranz A, Russell-Fritch J, Ruder T, <u>Patrick SW</u>, Stein BD. Antenatal admissions among women with opioid-affected and non-opioid-affected deliveries. *Maternal Child Health Journal*. 2020 Sep;24(9):1179-1188.
- 51. Schuler MS, Heins SE, Smart R, Griffin BA, Powell D, Stuart EA, Pardo B, Smucker S, <u>Patrick SW</u>, Pacula RL, Stein BD. The State of the Science in Opioid Policy Research. *Drug & Alcohol Dependence*. 2020 Sep 1;214:108137.
- <u>Patrick SW</u>, Henkhaus LE, Zickafoose JS, Lovell K, Halvorson A, Loch S, Letterie M, Davis MM. Well-being of Parents and Children During the COVID-19 Pandemic: A National Survey. *Pediatrics*. 2020 Oct;146(4):e2020016824.
- 53. <u>Patrick SW</u>, Richards MR, Dupont WD, McNeer E, Buntin MB, Martin PR, Davis MM, Davis CS, Hartmann KE, Leech AA, Lovell KS, Stein BD, Cooper WO. Association of Pregnancy and Insurance Status With Treatment Access for Opioid Use Disorder. *JAMA Open*. 2020 Aug 3;3(8):e2013456.
- 54. Benninger KL, Borghese T, Kovalcik JB, Moore-Clingenpeel M, Isler C, Bonachea EM, Start AR, <u>Patrick SW</u>, Maitre NL. Prenatal Exposures Are Associated With Worse Neurodevelopmental Outcomes in Infants With Neonatal Opioid Withdrawal Syndrome. *Frontiers in Pediatrics*. 2020 Aug 27;8:462.
- 55. Everson J, Cheng AK, <u>Patrick SW</u>, Dusetzina SB. Association of Electronic Prescribing of Controlled Substances With Opioid Prescribing Rates. *Jama Network Open.* 2020 Dec 1;3(12):e2027951.
- 56. Doherty KM, Scott TA, Morad A, Crook T, McNeer E, Lovell K, Gay JC, <u>Patrick SW</u>. Evaluating Definitions for Neonatal Abstinence Syndrome. *Pediatrics*. 2021 Jan; 147(1):e2020007383.
- <u>Patrick SW</u>, Slaughter JC, Harrell FE, Martin PR, Hartmann KE, Dudley J, Stratton S, Cooper WO. Development and Validation of a Model to Predict Neonatal Abstinence Syndrome. *The Journal of Pediatrics*. 2021 Feb;229:154-160.e6.

- 58. King BC, Richardson T, Patel RM, Lee HC, Bamat NA, <u>Patrick SW</u>, Gautham KS, Hall M, Slaughter JL. Cost of Clinician-Driven Tests and Treatments in Very Low Birth Weight and/or Very Preterm Infants. *Journal of Perinatology*. 2021 Feb;41(2):295-304.
- Min JY, Osmundson SS, Griffin MR, Mitchel Jr E, Wiese AD, <u>Patrick SW</u>, Grijalva CG. Variation in Discharge Opioid Prescribing After Vaginal Births. *Am J Obstet Gynecol MFM*. 2021 Mar;3(2):100298.
- Hirai AH, Ko JY, Owens PL, Stocks C, <u>Patrick SW</u>. Neonatal Abstinence Syndrome and Maternal Opioid-Related Diagnoses in the US, 2010-2017. *JAMA*. 2021 Jan 12;325(2):146-155.
- 61. Harvey EM, McNeer E, McDonald MF, Shapiro-Mendoza CK, Dupont WD, Barfield W, <u>Patrick SW</u>. Association of Preterm Birth Rate with COVID-19 Statewide Stay-at-Home Orders in Tennessee. *JAMA Pediatrics*. 2021 Jun 1;175(6):635-637.
- 62. Schiff DM, Stoltman JJK, Nielsen TC, Myers S, Nolan M, Terplan M, <u>Patrick</u> <u>SW</u>, Wilens TE, Kelly J. Assessing Stigma Towards Substance Use in Pregnancy: A Randomized Study Testing the Impact of Stigmatizing Language and Type of Opioid Use on Attitudes Towards Mothers With Opioid Use Disorder. *J. Addict Medicine*. 2021 Mar 16;10.1097/ADM.00000000000832.
- 63. Wiese AD, Osmundson SS, Mitchel E, Adgent M, Phillips S, <u>Patrick SW</u>, Horn Arlyn, Samuels LR, Griffin MR, Grijalva CG. Prescription Opioid Dose After Vaginal Delivery and the Risk of Serious Opioid-Related Events: A Retrospective Cohort Study. *Womens Health Issues*. Jul-Aug 2021;31(4):376-383.
- 64. Brown CM, Williams DJ, Hall M, Freundlich KL, Johnson DP, Lind C, Rehm K, Frost PA, Doupnik SK, Ibrahim D, <u>Patrick S</u>, Howard LM, Gay JC. Trends in Length of Stay and Readmissions in Children's Hospitals. *Hospital Pediatrics*. 2021 Jun;11(6):554-562.
- 65. Phillippi J, Schulte R, Bonnett K, Schlundt DG, Cooper WO, Martin PR, Kozhimannil KB, <u>Patrick SW</u>. Reproductive-Age Women's Experiences of Accessing Treatment for Opioid Use Disorder: We Don't do that Here." *Women's Health Issues*. 2021 Sep-Oct 2021;31(5):455-461.
- 66. Faherty LJ, Heins S, Kranz AM, <u>Patrick SW</u>, Stein BD. Association Between Punitive Policies and Neonatal Abstinence Syndrome Among Medicaid-Insured Infants in Complex Policy Environments. *Addiction*. 2022 Jan;117(1):162-171.
- 67. Hatch LD, Clark RH, Carlo WA, Stark AR, Ely EW, <u>Patrick SW</u>. Changes in Use of Respiratory Support for Preterm Infants in the US, 2008-2018. *JAMA Pediatrics*. 2021 Oct 1;175(10):1017-1024.
- 68. Henkhaus LE, Buntin MB, Henderson SC, Lai P, <u>Patrick SW</u>. Disparities in receipt of medications for opioid use disorder among pregnant women. *Substance Abuse*. Jul 16:1-6.
- Ko JY, Hirai AH, Owens PL, Stocks C, <u>Patrick SW.</u> Neonatal Abstinence Syndrom and Maternal Opioid-Related Diagnoses: Analysis of ICD-10-CM Transition, 2013-2017. *Hosp Pediatr.* 2021 Aug;11(8):902-908.
- 70. Wiese AD, Osmundson SS, Mitchel E Jr, Adgent M, Phillips S, <u>Patrick SW</u>, Spieker AJ, Grijalva CG. The risk of serious opioid-related events associated with

common opioid prescribing regimens in the postpartum period after cesarean delivery. *Am J Obstet Gynecol MFM*. 2021 Aug 26;3(6):100475.

- 71. Loch SF, Stein BD, Ghertner R, McNeer E, Dupont WD, Smart R, <u>Patrick SW</u>. Neonatal Opioid Withdrawal Syndrome Is Associated With Infant Foster Care Entry At The County Level. *Health Affairs (Millwood)*, 2021 Nov;40(11):1776-1783.
- 72. <u>Patrick SW</u>, Dupont WD, McNeer E, McPheeters M, Cooper WO, Aronoff DM, Osmundson S, Stein BD. Association of Individual and Community Factors with Hepatitis C Infections Among Pregnant People. *JAMA Health Forum*. 2021;2(10):e213470.
- 73. Griffin BA, Schuler MS, Stuart EA, <u>Patrick S</u>, McNeer E, Smart R, Powell D, Stein BD, Schell TL, Pacula RL. Moving beyond the classic difference-in-differences model: a simulation study comparing statistical methods for estimating effectiveness of state-level policies. *BMC Med Res Methodol*. 2021 Dec 13;21(1):279.
- 74. Davis C, McNeer E, <u>Patrick SW.</u> Laws forbidding pregnancy discrimination in substance use disorder treatment are not associated with treatment access. J Addict Med. 2022 May-Jun 01;16(3):364-367.
- 75. Schiff DM, Halvorson AE, Dupont W, Davis MM, <u>**Patrick SW**</u>. Impact of stigmatizing language describing opioid-exposed mother infant dyads: A randomized case vignette study. *Substance Abuse*. 2022;43(1):551-555.
- 76. Stone AL, Qu'D D, Luckett T, Nelson SD, Quinn EE, Potts AL, <u>Patrick SW</u>, Bruehl S, Franklin A. Leftover Opioid Analgesics and Disposal Following Ambulatory Pediatric Surgeries in the Context of a Restrictive Opioid-Prescribing Policy. *Anesthesia & Analgesia*. 2022 Jan 1;134(1):133-140.
- Letterie MC, <u>Patrick SW</u>, Halvorson AE, Dupont WD, Carrol KN, Zickafoose JS, Williams SE. Factors Associated With Parental COVID-19 Vaccination Acceptance. *Clinical Pediatrics*. 2022 Jun;61(5-6):393-401.
- 78. Richards MR, Leech AA, Stein BD, Buntin MB, <u>Patrick SW</u>. Medicaid Prevalence and Opioid Use Disorder Treatment Access Disparities. *Health Services Research*. 2022 Apr;57(2):422-429.
- 79. Jilani SM, Jones HE, Grossman M, Jansson LM, Terplan M, Faherty LJ, Khodyakov D, <u>Patrick SW</u>, Davis JM. Standardizing the Clinical Definition of Opioid Withdrawal in the Neonate. *Journal of Pediatrics*. 2022 Apr;243:33-39.e1.
- Wingate H, Sizemore L, Black J, Heth Z, Talley P, <u>Patrick SW</u>, Wester C. Using Public Health Surveillance Data to Determine Hepatitis C Virus Exposure Among Live-Born Infants in Tennessee, 2013-2017. *Public Health Rep*. 2022 Sep-Oct;137(5):860-866.
- 81. Horn A, Adgent MA, Osmundson SS, Wiese AD, Phillips SE, <u>Patrick SW</u>, Griffin MR, Grijalva CG. Risk of Death at 1 Year Following Postpartum Opioid Exposure. *American Journal of Perinatology*. 2022 May 31.
- Beck DC, Tabb KM, Tilea A, Hall SV, Vance A, <u>Patrick SW</u>, Schroeder A, Zivin K. The Association between NICU Admission and Mental Health Diagnoses among Commercially Insured Postpartum Women in the US, 2010-2018. *Children*. 2022 Oct 13;9(10):1550.

- 83. Hatch LD, Bridges BC, Chapman RL, Danko ME, Schumacher RE, <u>Patrick SW</u>. Trends in Neonatal Extracorporeal Membrane Oxygenation During a Venovenous Cannula Shortage. *Pediatric Critical Care Medicine*. 2023 Mar 1;24(3):245-250.
- Elmore AL, <u>Patrick SW</u>, McNeer E, Fryer K, Reid CN, Sappenfield WM, Mehra S, Salemi JL, Marshall J. Treatment access for opioid use disorder among women with Medicaid in Florida. *Drug Alcohol Dependence*. 2023 Mar 24;246:109854.
- 85. Richards MR, Leech AA, Stein BD, Buntin MB, <u>Patrick SW</u>. Prevalence of Buprenorphine Providers Requiring Cash Payment From Insured Women Seeking Opioid Use Disorder Treatment. *Medical Care*. 2023 Jun 1;61(6):377-383.
- 86. Grossarth S, Osmundson SS, Wiese AD, Phillips SE, Pham A, Leech AA, <u>Patrick SW</u>, Spieker AJ, Grijalva CG, Adgent MA. Maternal Opioid Use Disorder and the Risk of Postneonatal Infant Mortality. *JAMA Pediatrics*. 2023 May 8. doi: 10.1001/jamapediatrics.2023.1047. Online ahead of print.
- Leech AA, McNeer E, Stein BD, Richards MR, McElroy T, Dupont WD, <u>Patrick</u> <u>SW</u>. County-level Factors and Treatment Access Among Insured Women With Opioid Use Disorder. *Medical Care*. 2023 May 18. Online ahead of print.
- Griffin BA, Schuler MS, Pane J, <u>Patrick SW</u>, Smart R, Stein BD, Grimm G, Stuart EA. Methodological considerations for estimating policy effects in the context of co-occurring policies. *Health Services Outcomes Research Methodology*. 2023;23(2):149-165.
- Bulgin D, <u>Patrick SW</u>, McElroy T, McNeer E, Dupont WD, Murry VM. Patient and Community Factors Affecting Treatment Access for Opioid Use Disorder. *Obstetrics & Gynecology*. 2023 Aug 1;142(2):339-349.
- 90. Leech AA, McNeer E, Roberts AW, Dusetzina SB, Lai P, Morgan JR, <u>Patrick</u> <u>SW</u>. Buprenorphine Out-of-Pocket Costs and Discontinuation in Privately Insured Adults With Opioid Use Disorder. *JAMA Internal Medicine*. 2023 Aug 7.
- 91. Ali MM, West KD, Henke RM, Head MA, <u>Patrick SW</u>. Medications for Opioid Use Disorder During the Prenatal Period and Infant Outcomes. *JAMA Pediatrics*. 2023 Aug 28;e233072.
- 92. Griffin BA, Schuler MS, Stone EM, <u>Patrick SW</u>, Stein BD, Nascimento de Lima P, Griswold M, Scherling A, Stuart EA. Identifying Optimal Methods for Addressing Confounding Bias When Estimating the Effects of State-Level Policies. *Epidemiology*. 2023 Nov 1;34(6):856-864.
- 93. Loch SF, Muhar A, Bouskill K, Stein BD, Shi Q, Bonnet K, Schlundt D, Lloyd Sieger M, Parker E, Orgel C, <u>Patrick SW</u>. "The Problem's Bigger Than We Are" Understanding How Local Factors Influence Child Welfare Responses to Substance Use in Pregnancy, A Qualitative Study. *Child Welfare*, 2023 Oct;101(2): 193-215.
- 94. Lloyd Sieger M, Nichols C, Chasnoff IJ, Putnam-Hornstein, <u>Patrick SW</u>, Copenhaver M. Family Care Plans for Infants with Prenatal Substance Exposure. *Child Welfare*. 2023 Oct;101(2): 169-192.

REVIEWS

95. <u>Patrick S</u>, Donn SM. New Techniques in Neonatal Ventilation: Volume-targeted ventilation can be a powerful tool in preventing neonatal lung injury. *Advance for Respiratory Care and Sleep Medicine*. 2011; 20(3): 14.

- 96. <u>Patrick SW</u>, Schumacher RE, Davis MM. Methods of Mortality Risk Adjustment in the Neonatal Intensive Care Unit: A 20-Year Review. *Pediatrics*. 2013-03;131 Supplement 1:S68-74.
- 97. Krans EE, <u>**Patrick SW**</u>. Opioid Use Disorder in Pregnancy: Health Policy in the Midst of an Epidemic. *Obstetrics & Gynecology*. 2016 Jul;128(1):4-10.
- 98. Pryor JR, Maalouf, FI, Krans EE, Schumacher RE, Cooper WO, <u>Patrick SW</u>. The Opioid Epidemic and Neonatal Abstinence Syndrome in the US: A Review of the Continuum of Care. *Archives of Disease in Childhood: Fetal and Neonatal Edition*. 2017 Mar;102(2):F183-F187.
- 99. Thao V, Enns E, <u>Patrick SW</u>, Kozhimannil KB. Decision Science Can Help Policy Makers Identify and Evaluate Policies to Treat Opioid Use Disorder among Pregnant Women. *Women's Health Issues*. 2018 Jan; 28(7); 2-5.
- 100. Sanlorenzo LA, Stark AR, <u>Patrick SW</u>. Neonatal Abstinence Syndrome: An Update. *Current Opinion in Pediatrics*. 2018 Jan 17, epub ahead of print.
- 101. Coyle MG, Brogly SB, Ahmed MS, <u>Patrick SW</u>, Jones HE. Neonatal Abstinence Syndrome. *Nature Reviews Disease Primers*. 2018 Nov 22;4(1):47.
- 102. Ocampo-Chih C, Nelson J, Harrington L, Rush A, <u>Patrick SW</u>, Anani U.
 "The Intergenerational Impact and Trauma of Child Protective Services Referrals on Families." *Neoreviews*. 2023 Nov 1;24(11):e763-e770.

EDITORIALS

- 103. <u>Patrick SW</u>, Davis MM. Reformulating the Federal Match as a Key to the Sustainability of Medicaid. *JAMA Pediatrics*. 2013-03-01;167:218-20.
- 104. <u>Patrick SW</u>, Cooper WO. Promise and Peril: Dissemination of Findings from Studies of Drugs Used in Pregnancy and Their Association with Congenital Anomalies. *Birth Defects Research Part A: Clinical and Molecular Teratology*. 2015 Aug;103(8):729-32. Epub 2015 Jul 8.
- 105. <u>Patrick SW</u>. The Triple Aim for Neonatal Abstinence Syndrome. *The Journal of Pediatrics*. 2015 Dec;167(6):1189-91. Epub 2015 Oct 9.
- 106. <u>Patrick SW</u>. A Comprehensive Approach to the Opioid Epidemic. *Obstetrics & Gynecology*. 2017 Jul;130(1):7-9.
- 107. <u>Patrick SW</u>, Cooper WO, Davis MM. Prescribing opioids and psychotropic drugs in pregnancy. *BMJ*. 2017 Aug 2;358.
- 108. <u>Patrick SW</u>. Improving Public Health Systems for Substance-Affected Pregnancies. *American Journal of Public Health*. 2018. 109(1), pp. 22–23.
- 109. <u>Patrick SW</u>, Davis CS, Stein BD. Opioid Litigation and Maternal-Child Health:

Investing in the Future. JAMA Pediatrics. 2020 Feb 1;174(2):119-120.

- 110. Faherty LJ, Hadland SE, Stein BD, <u>Patrick SW</u>. Multiplying the Impact of Opioid Settlement Funds by Investing in Primary Prevention. *Journal of Hospital Medicine*. 2020 Oct;15(10):625-627.
- 111. <u>Patrick SW</u>, Lorch SA. It Is Time to ACT NOW to Improve Quality for Opioid-Exposed Infants. *Pediatrics*. 2021 Jan;147(1):e2020028340.
- 112. Lloyd Sieger MH, Rebbe R, <u>Patrick SW</u>. The 2021 Reauthorization of CAPTA - Letting Public Health Lead. *The New England Journal of Medicine*. 2021 Oct 28;385(18):1636-1639.

AMERICAN ACADEMY OF PEDIATRICS PUBLICATIONS

Committee on Substance Use and Prevention

- 113. Levy SJ, Williams JF, Committee on Substance Use and Prevention. Substance Use Screening, Brief Intervention, and Referral to Treatment: Clinical Report. *Pediatrics*. 2016 Jun 20.
- Committee on Substance Use and Prevention. Substance Use Screening, Brief Intervention, and Referral to Treatment: Policy Statement. *Pediatrics*. 2016 Jun 20.
- 115. Smith VC, Wilson CR, Committee on Substance Use and Prevention. Families Affected by Parental Substance Use. *Pediatrics*. 2016 Aug;138(2). Epub 2016 Jul 18.
- 116. Committee on Substance Use and Prevention. Medication-Assisted Treatment of Adolescents With Opioid Use Disorders. *Pediatrics*. 2016 Aug 22.
- 117. Siqueira LM. Committee on Substance Use and Prevention. Nicotine and Tobacco as Substances of Abuse in Children and Adolescents. *Pediatrics*. 2017 Jan;139(1).
- 118. <u>Patrick SW</u>, Schiff DM, Committee on Substance Use and Prevention. A Public Health Response to Opioid Use in Pregnancy. *Pediatrics*. 2017 Mar;139(3). Epub 2017 Feb 20.
- 119. Ryan SA, Ammerman SD, Committee on Substance Use and Prevention. Counseling Parents and Teens About Marijuana Use in the Era of Legalization of Marijuana. *Pediatrics*. 2017 Mar;139(3).
- 120. Ryan SA, Ammerman SD, O'Connor ME, Committee on Substance Use and Prevention. Marijuana Use During Pregnancy and Breastfeeding: Implications for Neonatal and Childhood Outcomes. *Pediatrics*. 2018 Sep;142(3).
- 121. Turchi RM, Smith VC. Committee on Substance Use and Prevention. The Role of Integrated Care in a Medical Home for Patients With a Fetal Alcohol Spectrum Disorder. *Pediatrics*. 2018 Oct;142(4).
- 122. Quigley J, Committee on Substance Use and Prevention. Alcohol Use by Youth. *Pediatrics*. 2019 July;144(1). Epub 2019 Jun 24.
- 123. Ryan SA, Kokotailo P, Committee on Substance Use and Prevention. Alcohol Use by Youth. *Pediatrics*. 2019 July;144(1). Epub 2019 Jun 24.
- 124. <u>Patrick SW</u>, Barfield WD, Poindexter BB, Committee on Fetus and Newborn, Committee on Substance Use and Prevention. Neonatal Opioid Withdrawal Syndrome. *Pediatrics*. 2020 Oct 26:e2020029074
- 125. Alinsky RH, Hadland SE, Quigley J, <u>Patrick SW</u>, Committee on Substance Use and Prevention. Recommended Terminology for Substance Use Disorders in the Care of Children, Adolescents, Young Adults, and Families. *Pediatrics*. 2022 Jun 1;149(6):e2022057529.

OTHER PUBLICATIONS

126. Reddy UM, Davis JM, Ren Z, Greene MF; Opioid Use in Pregnancy, Neonatal Abstinence Syndrome, and <u>Childhood Outcomes Workshop Invited</u> <u>Speakers</u>. Opioid Use in Pregnancy, Neonatal Abstinence Syndrome, and Childhood Outcomes: Executive Summary of a Joint Workshop by the Eunice Kennedy Shriver National Institute of Child Health and Human Development, American College of Obstetricians and Gynecologists, American Academy of Pediatrics, Society for Maternal-Fetal Medicine, Centers for Disease Control and Prevention, and the March of Dimes Foundation. *Obstetrics & Gynecology*. 2017 Jun 7.

CASE REPORTS

127. **Patrick SW**, Kershaw DB, Attar MA. Multiple Organ Dysfunction Following Aspiration of Maternal Blood. *The Internet Journal of Pediatrics and Neonatology*. 2012 Volume 14 Number 1.

LETTERS

- 128. Terplan M, <u>Patrick S</u>, Jansson LM. Re: Neonatal Abstinence Syndrome and High School Performance. *Pediatrics*. 2017 Jun;139(6).
- Schiff DA, <u>Patrick SW</u>. Treatment of Opioid Use Disorder During Pregnancy and Cases of Neonatal Abstinence Syndrome. *JAMA Pediatrics*. 2017 Jul 1;171(7):707.
- Schiff DA, <u>Patrick SW</u>, Terplan M. Contribution of Opioid-Related Overdose Deaths on Maternal Mortality. *The New England Journal of Medicine*. 2018 Feb 8;378(6):587.

BOOK CHAPTERS

- 131. Aschner JL, <u>Patrick SW</u>, Stark AR, Lee SK. Chapter 1. The Scope and Organization of Neonatology: North American and Global Comparisons. Avery's Neonatology: Pathophysiology and Management of the Newborn, 7th Edition. MacDonald MG, Seshia MMK. 2016, Philadelphia, PA: Wolters Kluwer.
- 132. <u>Patrick SW</u>. Chapter 12: Maternal Drug Use, Infant Exposure and Neonatal Abstinence Syndrome. Manual of Neonatal Care, 8th Edition. Cloherty JP, et al. 2016, Philadelphia, PA: Lippincott, Williams & Wilkins.
- 133. Jansson LM, <u>Patrick SW</u>. (2018). Breastfeeding and the Substance-Exposed Dyad. In T.E. Wright (Ed.), *Opioid Use Disorders in Pregnancy: Management Guidelines for Improving Outcomes* (pp. 127-138). Cambridge, UK: Cambridge University Press.
- 134. Jansson LM, <u>Patrick SW</u>. Chapter 7: Neonatal Abstinence Syndrome. Current Advances in Neonatal Care, An Issue of Pediatric Clinics of North America, 1st Edition. Sood D, Brodsky D. 2019, Philadelphia, PA: Elsevier.

NON PEER-REVIEWED PUBLICATIONS

Invited Articles

- 135. <u>Patrick S</u>. Translating Research Findings to the Press and Policy Makers. *Robert Wood Johnson Foundation Human Capital Grantee Network*. June 27, 2012.
- 136. <u>Patrick SW</u>. Responding to the Rise in Neonatal Abstinence Syndrome. American Academy of Pediatrics, Section on Neonatal-Perinatal Medicine Newsletter. August 2015: 9-10.

Blog

137. Moore JE, Bateman BT, <u>Patrick SW</u>. Opioid Crisis in Medicaid: Saving Mothers & Babies. *Health Affairs Blog*. May 1, 2018. Available at: <u>https://www.healthaffairs.org/do/10.1377/hblog20180426.63403/full/</u>

Lay Press Editorials

- 138. <u>Patrick S</u>. The Tragedy of the Underinsured. *USA Today*. September 23, 2009.
- 139. <u>Patrick S</u>. Docs Are Not Props in Health Reform Debate. *Annarbor.com*. October 11, 2009.
- 140. <u>Patrick S</u>. Underinsured and Fighting for Life in a Broken System. *Daytona Beach News Journal*. March 21, 2010.
- 141. <u>Patrick S</u>. Healthcare Reform Law Benefits All Americans. Annarbor.com. March 28, 2010.
- 142. Congresswoman Clark K, <u>**Patrick SW**</u>. Congress should act on treatment for drug-dependent newborns. *The Boston Globe*. May 5, 2015.
- 143. Zickafoose J, <u>Patrick SW</u>. How the American Health Care Act would hurt children. *The Tennessean*. May 18, 2017
- 144. <u>**Patrick SW**</u>. Why the United States needs a national drug policy. *The Tennessean*. July 11, 2017.
- 145. <u>**Patrick SW.</u>** Opioid-dependent newborns in my West Virginia hometown point to a path out of drug crisis. *USA Today*. March 5, 2019.</u>
- 146. <u>**Patrick SW**</u>. Wearing masks during pandemic shows love for our neighbors, not fear. *The Tennessean*. June 26, 2020.
- 147. **Patrick SW**. The lack of a national policy agenda for children during Covid-19 and beyond causes grave harm. *STAT*. August 31, 2020.
- 148. <u>**Patrick SW**</u>. Why parents don't know whom to trust in COVID-19 crisis and what we can do. *The Tennessean*. December 9, 2020.
- 149. Fritz C, <u>Patrick SW</u>. Tennessee families have fallen off the hunger cliff. Here's a solution. *The Tennessean*. March 22, 2023.
- 150. Gastineau KAB, Zickafoose JS, <u>**Patrick SW**</u>, et. al., Extreme risk laws are popular with Tennesseans and save lives from gun violence. *The Tennessean*. April 20, 2023.

Institutional and Government Reports

- 151. Schumacher RE, <u>Patrick SW</u>. Quality Improvement Toolkit: Controversies in Caring for Infants and Families Impacted By Neonatal Abstinence Syndrome. Burlington, VT: Vermont Oxford Network; 2015.
- 152. Substance Abuse and Mental Health Services Administration (SAMHSA). (2016b). Advancing the care of women with opioid use disorder while pregnant or parenting: Clinical indications for developing a national guide. Rockville, MD: SAMHSA. https://www.regulations.gov/document?D=SAMHSA-2016-0002-0001
- 153. Substance Abuse and Mental Health Services Administration (SAMHSA). (2018). *Clinical Guidance for Treating Pregnant and Parenting Women With*

Opioid Use Disorder and Their Infants. Rockville, MD: SAMHSA. https://store.samhsa.gov/shin/content//SMA18-5054c/SMA18-5054.pdf

154. Barnett ML, Barry C, Beetham T, Carnevale JT, Feinstein E, Frank RG, de la Gueronniere G, Haffajee RL, Kennedy-Hendricks A, Humphreys K, Magan G, McLellan AT, Mitchell MM, Oster R, <u>Patrick SW</u>, Richter L, Samuels PN, Sherry TB, Stein BD, Terplan M, Vuolo L. *Evidence Based Strategies for Abatement of Harms from the Opioid Epidemic*. Boston, MA: Harvard Medical School, Blavatnik Institute for Health Care Policy. October 2020. Available at: <u>https://www.lac.org/resource/evidence-based-strategies-for-abatement-of-harms-from-the-o</u>

SELECTED PRESENTATIONS

Intramural 10/2011 Patrick SW, Choi H, Davis MM. "The Effect of Federal Financing on Medicaid Enrollment for Children." Peer reviewed, platform presentation. University of Michigan Pediatric Research Symposium. Ann Arbor, Michigan. Patrick SW, Davis MM, Schumacher RE. "Implications of 10/2011 Neonatal Abstinence Syndrome for Health Care Utilization and Expenditures." Peer reviewed, poster presentation. University of Michigan Pediatric Research Symposium. Ann Arbor, Michigan. Patrick SW, Schumacher RE, Benneyworth BD, Krans EE, 07/2012 McAllister JM, Davis MM. "Neonatal Abstinence Syndrome and Associated Healthcare Expenditures – United States, 2000-2009." Invited speaker, Grand Rounds, University of Michigan Department of Pediatrics and Communicable Diseases. Ann Arbor, Michigan. Patrick SW. "Policy to Practice: Health Services Research in 10/2012 Neonatology." Invited speaker, Child Health Evaluation and Research Unit research seminar. University of Michigan. Ann Arbor, Michigan. Patrick SW. "Opiates and Infants: Understanding Neonatal 10/2013 Abstinence Syndrome." Invited speaker, Pediatric Research Conference. Department of Pediatrics, Vanderbilt University, Nashville, Tennessee. Patrick SW. "Neonatal Abstinence Syndrome: Risk of Drug 11/2014 Withdrawal in Opioid-Exposed Infants." Invited Speaker, 2014 Vanderbilt Translational Research Forum, Vanderbilt University, Nashville, Tennessee. **Patrick SW**. "The Prescription Opioid Epidemic and Neonatal 2/2015 Abstinence Syndrome - A Public Health Approach." Invited speaker, Grand Rounds, Department of Pediatrics, Vanderbilt University, Nashville, Tennessee. Patrick SW. "The Prescription Opioid Epidemic and Neonatal 5/2015 Abstinence Syndrome - A Public Health Approach." Invited speaker. Pediatric Educational Lecture Series, Monroe Carell Jr.

	Children's Hospital at Vanderbilt, Nursing Education Department,
	Nashville, Tennessee.
9/2015	Patrick SW. "Neonatal Abstinence Syndrome: Informing Public
	Health Systems." Invited speaker, Pediatric Research Conference.
	Department of Pediatrics, Vanderbilt University, Nashville,
	Tennessee.
11/2015	Patrick SW. "The Prescription Opioid Epidemic and Neonatal
	Abstinence Syndrome - A Public Health Approach." Invited
	speaker, 2015 Neonatal Medicine Annual Symposium: Advances
	and Controversies in Neonatal Medicine, Vanderbilt University,
	Nashville, Tennessee.
5/2016	Patrick SW. "Neonatal Abstinence Syndrome." Invited speaker,
	joint conference of Obstetrics and Anesthesia at Vanderbilt
	University School of Medicine, Nashville, Tennessee.
3/2017	Patrick SW. "The Prescription Opioid Epidemic and Neonatal
	Abstinence Syndrome." Invited speaker. 14th Annual Neonatal
	Care Update, Vanderbilt University School of Medicine, Franklin,
	Tennessee.
12/2017	Patrick SW. "The Effect of the Opioid Epidemic on Pregnant
	Women and Infants." Invited speaker, Grand Rounds. Department
	of Health Policy, Vanderbilt University School of Medicine,
	Nashville, Tennessee.
12/2017	Patrick SW. "The Opioid Epidemic and Neonatal Abstinence
	Syndrome." Invited speaker, Biomedical Sciences Advisory Board
	Meeting, Vanderbilt University School of Medicine, Nashville,
	Tennessee.
2/2018	Patrick SW. "Improving Outcomes for Pregnant Women and
	Infants Impacted by the Opioid Epidemic." Invited speaker,
	Vanderbilt University Department of Pediatrics Research
2010</td <td>Conference. Nashville, Tennessee.</td>	Conference. Nashville, Tennessee.
6/2018	Patrick SW. "Neonatal Abstinence Syndrome." Invited speaker
	Policy Panel, 27th Annual Joel G. Hardman Student-Invited
7/2010	Pharmacology Forum, Nashville, Tennessee
7/2018	Patrick SW. "Roundtable Discussion with First Lady of the
	United States and Assistant Secretary for Health, Department of
	Health and Human Services on Families Affected by the Opioid
	Epidemic." Organizer and participant. Vanderbilt University
0/2010	Medical Center, Nashville. Tennessee.
8/2018	Jones CK, <u>Patrick SW</u> . "The Opioid Epidemic and Neonatal
	Abstinence Syndrome." Invited speaker, Flexner Discovery
	Lecture. Vanderbilt University Medical Center, Nashville,
09/2020	Tennessee. Patrick SW "Understanding Barriers in Access to Treatment for
07/2020	<u>Patrick SW</u> . "Understanding Barriers in Access to Treatment for Pregnant Women: A Randomized Field Experiment." Invited
	speaker, Grand Rounds. Department of Obstetrics and
	speaker, Grand Rounds. Department of Obstetrics and

	Gynecology, Vanderbilt University School of Medicine, Nashville, Tennessee.
10/2020	<u>Patrick SW</u> . "Improving Systems that Serve Families Affected by the Opioid Crisis." Invited speaker, OB/GYN Fall Research Symposium. Department of Pediatrics, Vanderbilt University
03/2021	School of Medicine, Nashville, Tennessee. <u>Patrick SW.</u> "Looking Beyond the Bassinet: Understanding the Upstream and Downstream Consequences of the Opioid Crisis for Pregnant Women and Infants." Pediatric Research Conference. Department of Pediatrics, Vanderbilt University School of Medicine, Nashville, Tennessee.
03/2022	Patrick SW. "How are Children Doing During COVID-19? Results From the Vanderbilt Child Health Poll." Pediatric Research Conference. Department of Pediatrics, Vanderbilt University School of Medicine, Nashville, Tennessee.
01/2023	<u>Patrick SW</u> . "Caring for Women & Families Affected by Substance Use Disorder." Clinical Enterprise Group. Vanderbilt University Medical Center. Nashville, Tennessee.
02/2023	Patrick SW . "Substance Use in Pregnancy: Improving Outcomes for Families" Neonatal Grand Rounds, Vanderbilt University School of Medicine, Nashville, Tennessee.
Extramural	
<i>International</i> 9/2016	Patrick SW . "The Opioid Epidemic and Neonatal Abstinence Syndrome." Invited speaker and panelist. Applying Regulatory Science to Neonates: Second Annual Scientific Workshop.
9/2023	European Medicines Agency, London, England, United Kingdom. <u>Patrick SW</u> . "Improving Outcomes for Families Affected by the Opioid Crisis." Barry T. Smith Memorial Lecture. Queens University. Kingston, Ontario, Canada.
National	
Federal Government 8/2012	Patrick SW . "Neonatal Abstinence Syndrome and Associated Healthcare Expenditures – United States, 2000-2009." Invited speaker, Leadership Meeting on Maternal Addiction, Opioid Exposed Infants and Neonatal Abstinence Syndrome, Office of National Drug Control Policy, The White House. Washington, D.C.
08/2013	<u>Patrick SW</u> . "Neonatal Abstinence Syndrome: Scope and Evolving Issues." Invited speaker, Office of National Drug Control Policy, Executive Office of the President, Washington, D.C.
09/2013	Spitznas C and <u>Patrick SW</u> . "Neonatal Abstinence Syndrome." Invited speaker, Association of State and Territorial Health

	Officials and Notational Governors Association Webinar,
	Washington, D.C.
09/2013	Patrick SW. "Prescription Drug Use and Neonatal Abstinence
	Syndrome" Invited speaker, Interagency Working Group on
	Prescription Drug Abuse, Office of National Drug Control Policy,
	Executive Office of the President, Washington, D.C.
04/2014	Patrick SW. "Neonatal Abstinence Syndrome." Invited speaker,
	panelist. United States Senate Committee on Health, Education,
	Labor and Pensions Staff Prescription Drug Abuse Working
	Group. Washington, D.C.
12/2015	Patrick SW. "The Prescription Opioid Epidemic and Neonatal
	Abstinence Syndrome." Invited speaker, National Institutes of
	Health, Interagency Coordinating Committee on Fetal Alcohol
	Spectrum Disorders Executive Committee Meeting. Rockville,
	Maryland.
12/2015	Patrick SW. "The Prescription Opioid Epidemic and Neonatal
	Abstinence Syndrome - A Public Health Approach." Invited
	speaker, Centers for Disease Control and Prevention, Division of
	Reproductive Health Seminar. Atlanta, Georgia.
8/2016	Barfield W, Broussard CS, Yonkers KA, <u>Patrick SW</u> . "Primary
	Prevention and Public Health Strategies to Prevent Neonatal
	Abstinence Syndrome." Invited speaker and panelist, Public Health
	Grand Rounds, Centers for Disease Control and Prevention,
	Atlanta, Georgia.
	http://www.cdc.gov/cdcgrandrounds/archives/2016/august2016.ht
	m
8/2016	Patrick SW . "Public Health Grand Rounds, Beyond the Data."
	Centers for Disease Control and Prevention, Atlanta, Georgia.
	https://youtu.be/KoqZvpMJU-8
11/2016	Patrick SW. "Making Health Care Better Series on Substance Use
	Disorders." The White House, Washington, D.C.
	https://youtu.be/oTY4DwhVwR4
6/2017	Patrick SW. "The Triple Aim for Neonatal Abstinence
	Syndrome." Institute for Medicaid Innovation. Opioid
	Epidemic: Crisis to Care in Medicaid. Russell Senate Office
	Building, Washington, D.C.
4/2018	Patrick SW. "The Story of Mothers and Infants: The Opioid
	Epidemic." Society for Pediatric Research Congressional Briefing.
	Rayburn Office Building, Washington, D.C.
6/2018	Patrick SW, Jones HE. "Clinical Guidance for Treating Pregnant
	and Parenting Women with Opioid Use Disorder and Their
	Infants." Invited speaker, Continuing Medical Education Course
	Sponsored by the Substance Abuse and Mental Health
	Administration in conjunction with the University of North
	Carolina. Chapel Hill, North Carolina.

7/2018	Patrick SW . "The Opioid Epidemic and Neonatal Abstinence Syndrome." Invited speaker, Administration for Children and Families (ACF) Early Childhood National Centers for Training and Technical Assistance, Understanding How the Opioid Crisis and Substance Use Disorders Impact Head Start Children, Families, and Staff: Creating a Path Forward. Washington, D.C.
8/2018	<u>Patrick SW</u> , Malanga, C. "Clinical Guidance for Treating Pregnant and Parenting Women with Opioid Use Disorder and Their Infants." Invited speaker, Continuing Medical Education Course Sponsored by the Substance Abuse and Mental Health Administration in conjunction with the University of Pennsylvania. Philadelphia, Pennsylvania.
10/2018	<u>Patrick SW</u> . "Current Knowledge and Gaps in Care for Infants with NAS." Keynote Speaker, US Department of Health and Human Services National Convening on Neonatal Abstinence Syndrome at Thomas Jefferson University. Philadelphia, Pennsylvania.
10/2018	Patrick SW. "Improving Outcomes for Families Affected by the Opioid Epidemic." Speaker and panelist, Committee on Medication-Assisted Treatment for Opioid Use Disorder. National Academy of Medicine. Washington, D.C.
9/2019	Patrick SW. "Current State of the Opioid Crisis." Plenary speaker, Human Services Programs And The Opioid Crisis: Annual Poverty Research and Policy Forum. Sponsored by the Office of Human Services Policy, Assistant Secretary for Planning and Evaluation, U.S. Department of Health and Human Services, Washington D.C.
03/2021	Davis J, Grossman M, Jansson L, Jones H, <u>Patrick SW</u> , Terplan M. US Department of Health and Human Services, HHS Second National Convening on Substance Exposure in the Mother-Infant Dyad: Strategies for Improving Long-Term Care. Speaker and panelist. Washington, D.C.
07/2021	<u>Patrick SW.</u> "Plenary: Best Practice Care for Infants with NAS." Speaker. Rural Communities Opioid Response Program - Neonatal Abstinence Syndrome. US Health and Human Services, Health Resources and Services Administration, Rockville, MD
09/2022	<u>Patrick SW</u> . "Harnessing the Power of Collaboration to Improve Outcomes for Families Affected by Substance Use Disorder in Pregnancy." Organizer, Speaker, Panelist. The White House Office of National Drug Control Policy, Washington, D.C.
Invited Presentations	at National Meetings
6/2004	<u>Patrick SW</u> . "Covering the Uninsured." Invited speaker.
0/2004	American Medical Association Annual Meeting. Atlanta, Georgia.
5/2014	<u>Patrick SW</u> . "Improving Care for Infants with Neonatal Abstinence Syndrome." Invited speaker and panelist. Center for Evidence-based Policy, Medicaid Evidence-based Decisions

	Project (MED), Oregon Health and Science University, MED
	Governance Conference. Portland, Oregon.
10/2014	Patrick SW and Schumacher RE. "iNICQ NAS: Innovation in
	Action." Moderator, panel discussion, Vermont Oxford Network
	Annual Quality Congress. Chicago, Illinois.
4/2015	Patrick SW. "Improving Care to Families Affected by NAS by
.,	Understanding Structures of Care, State and Federal Drug Control
	Policies." Invited Presentation and Panel Discussion. Peer
	reviewed, platform presentation. Pediatric Academic Societies
	Annual Meeting. San Diego, California.
5/2015	Patrick SW. "The Prescription Opioid Epidemic and Neonatal
0/2010	Abstinence Syndrome - A Public Health Approach." Invited
	speaker and panelist. Center for Evidence-based Policy, Medicaid
	Evidence-based Decisions Project (MED), Oregon Health and
	Science University, MED Governance Conference. Nashville,
	Tennessee.
10/2015	Patrick SW. "The Evolving Epidemic." Invited speaker, Vermont
10,2010	Oxford Network Annual Quality Congress. Chicago, Illinois.
10/2015	Patrick SW. "The Prescription Opioid Epidemic and Neonatal
10,2010	Abstinence Syndrome - A Public Health Approach." Invited
	speaker, Vermont Oxford Network Annual Quality Congress.
	Chicago, Illinois.
2/2016	Patrick SW. "Federal and State Efforts to Address Neonatal
	Abstinence Syndrome and Opioid Abuse." Invited speaker and
	panelist. National Child Health Policy Conference,
	AcademyHealth. Washington, D.C.
4/2016	Campopiano M, Jones H, Coffa D, Terplan M, Patrick SW,
	Hayashi S, Perpich J. "Clinical Guidance for Treating Opioid-
	Dependent Pregnant and Parenting Women and Their Babies."
	Invited speaker and panelist. American Society of Addiction
	Medicine Annual Conference. Baltimore, Maryland.
9/2016	Patrick SW. "The Prescription Opioid Epidemic and Neonatal
	Abstinence Syndrome." Invited speaker and panelist. Academy of
	Neonatal Nursing, 1 st Annual National Neonatal Nurses
	Conference. Nashville, Tennessee.
10/2016	Patrick SW, Whalen B, Marcellus L, Buus-Frank M. "Just Say
	Yes to Improvement! A Workshop Focused on Evidence-Based
	Practices to Improve Outcomes for Infants and Families Affected
	by Neonatal Abstinence Syndrome." Invited speaker and panelist.
	National Association of Neonatal Nurses 32 nd Annual Educational
	Conference. Palm Springs, California.
4/2017	Patrick SW, Campopiano M, Ford S, Schroeder M, Shepherd RA,
	Wexelblatt S. "Substance Use and the Mother-Baby Dyad: Risk
	Assessment, Risk Reduction, and Collaborative Care Models to
	Management." Invited speaker and panelist. National Rx Drug
	Abuse and Heroin Summit. Atlanta, Georgia.

5/2017	Patrick SW , Holmes AV, Seashore C, Wexelblatt S, Grossman M, Wachman E. "Achieving the Triple Aim for Neonatal Abstinence Syndrome." Invited speaker and panelist. Pediatric Academic Societies Annual Meeting. San Francisco, California.
6/2017	<u>Patrick SW</u> , Holmes AV, Seashore C, McAllister J, Grossman M. "Achieving the Triple Aim for Neonatal Abstinence Syndrome." Invited speaker and panelist. Pediatric Hospital Medicine. Nashville, Tennessee.
9/2017	Holmes AV, <u>Patrick SW</u> . "Family-Centered Care for Neonatal Abstinence Syndrome." Invited speaker and panelist. American Academy of Pediatrics National Conference and Expedition. Chicago, Illinois.
10/2017	Patrick SW, Marcellus L. "Hot Topics in Combatting the Growing Neonatal Abstinence Syndrome Epidemic." Invited speaker, Vermont Oxford Network Annual Quality Congress. Chicago, Illinois.
3/2018	Patrick SW, Gonzalez L, Dreyzehner J. "Addressing the Opioid Crisis in Children and Families." Invited speaker and panelist, American Academy Pediatrics Annual Leadership Forum. Schaumburg, Illinois.
5/2018	Campbell D, <u>Patrick SW</u> , Crowley M, Bada H. "NICU Follow-Up Club: Continuing Care Needs and Outcomes for Babies Affected by Neonatal Abstinence Syndrome." Invited speaker and panelist, Pediatric Academics Society Annual Meeting. Toronto, Ontario, Canada.
9/2018	Patrick SW. "Improving Outcomes for Pregnant Women and Infants Impacted by the Opioid Epidemic." Keynote presentation, Academy of Neonatal Nurses Annual Meeting. New Orleans, Louisiana.
3/2019	<u>Patrick SW</u> . "Improving Outcomes for Opioid-Exposed Infants." Invited speaker, Association of Medical School Pediatric Department Chairs Annual Meeting. Savannah, Georgia.
3/2019	Patrick SW."AAP Advocacy Lecture: Neonatal AbstinenceSyndrome: New Insights into Epidemiology, Assessment, andTreatment." Invited speaker, Society for PediatricAnesthesiology—American Academy of Pediatrics AnnualMeeting. Houston, Texas.
3/2019	<u>Patrick SW</u> . "Implementing Systems of Care for NAS." Breakout session leader for 2 sessions, American Academy of Pediatrics 2019 Workshop on Neonatal-Perinatal Practice Strategies. Scottsdale, Arizona.
3/2019	Patrick SW. "Improving Outcomes for Opioid-Exposed Infants." Invited speaker, American Academy of Pediatrics 2019 Workshop on Neonatal-Perinatal Practice Strategies. Scottsdale, Arizona.

4/2019	Patrick SW, Terplan M. "Improving Outcomes for Pregnant
	Women with Opioid Use Disorder and Their Infants." Invited
	speaker, Rx Drug Abuse and Heroin Summit. Atlanta, Georgia.
10/2019	Patrick SW. "Newborns Exposed to Substances: Understanding
	Their Needs and Supporting Their Caregivers." Invited plenary
	speaker, American Academy of Pediatrics National Conference
	and Exhibition. New Orleans, Louisiana.
10/2019	Holmes AV, Patrick SW. "Family-Centered Care for Neonatal
	Abstinence Syndrome." Invited speaker and panelist, American
	Academy of Pediatrics National Conference and Expedition. New
	Orleans, Louisiana.
12/2019	Patrick SW. "Improving Outcomes for Pregnant Women and
12,2019	Infants Affected by the Opioid Crisis." Invited speaker, Hot Topics
	in Neonatology. National Harbor, MD.
7/2020	Miller E, Plamer A, Patrick SW . "Maternal and Infant Health
112020	Inequities Shaped by Racism: What Can Medicaid Do?" Invited
	speaker and panelist. Georgetown University Health Policy
	Institute Center for Children and Families, Georgetown Annual
	Conference Plenary, Washington, D.C.
10/2020	Patrick SW, Laris, Z. "Put Families First: Best Practices and
10/2020	Advocacy for Addressing Prenatal Substance Exposure." Invited
	speaker and panelist, American Association of Pediatrics National
	Conference and Exhibition. San Diego, CA.
10/2020	
10/2020	Patrick SW . "Effect of Pregnancy and Insurance Status of
	Treatment Access of Opioid Use Disorder." Invited speaker,
	University of Pennsylvania, National Clinician Scholars Program.
11/2020	Philadelphia, Pennsylvania.
11/2020	<u>Patrick SW.</u> "The Role of Child Maltreatment Prevention
	Services in Reducing Risk: Evidence from Substance Use
	Approaches and Beyond." Invited speaker, Association for Public
	Policy Analysis and Management Fall Research Conference.
	Washington D.C.
04/2021	Patrick SW. "Treatment for Opioid Use Disorder: Reducing
	Barriers to Engaging in Care." Invited speaker, Rx Summit.
	Virtual.
05/2021	Patrick SW. "Not all NAS is NOWS: The Global Dilemma of
	Newborn Drug and Alcohol Exposure and Pandemics." Pediatric
	Academic Societies Conference. Virtual.
Abstracts Platf	orm Presentations at National Meetings
5/2010	Patrick SW , Freed GL. "Medicaid: A Program for Children?
5/2010	Trends From 1991-2005." Peer reviewed, platform presentation.
	Pediatric Academic Societies Annual Meeting. Vancouver, British
	Columbia.
5/2012	Patrick SW, Choi H, Davis MM. "The Effect of Federal
J/ 2012	Financing on Medicaid Enrollment for Children." Peer reviewed,
	Financing on vicultate Enforment for Children. Feel leviewed,

	platform presentation. Pediatric Academic Societies Annual
	Meeting. Boston, Massachusetts.
6/2012	Patrick SW, Davis, MM, Meddings JA, Hieber S, Lee GM,
	Stillwell TL, Chenoweth, CE, Espinosa C, Schumacher RE.
	"Accuracy of Hospital Administrative Data in Reporting Central-
	Line Associated Bloodstream Infections in Newborns." Peer
	reviewed, platform presentation and panel discussion.
	AcademyHealth Annual Research Meeting. Orlando, Florida.
05/2014	Patrick SW, Dudley J, Cooper WO. "Higher Dose and Duration
03/2014	of Maternal Prescription Opioid Use Increases Risk of Neonatal
	1 1
	Abstinence Syndrome." Peer reviewed, platform presentation.
	Pediatric Academic Societies Annual Meeting. Vancouver, British
4/2015	Columbia.
4/2015	Patrick SW, Davis MM, Lehmann CU, Cooper WO. "Increasing
	Incidence and Geographic Distribution of Neonatal Abstinence
	Syndrome: United States 2009-2012." Peer reviewed, platform
	presentation. Pediatric Academic Societies Annual Meeting. San
	Diego, California.
4/2015	Patrick SW, Warner KE, Pordes E, Davis MM. "Increases in
	Cigarette Taxes Are Associated With Decreases in Infant
	Mortality." Peer reviewed, platform presentation. Pediatric
	Academic Societies Annual Meeting. San Diego, California.
11/2015	Patrick SW, Fry CE, Jones TF, Buntin MB. "Prescription Drug
	Monitoring Programs and Opioid-Related Overdose Deaths." Peer
	Reviewed, platform presentation. Robert Wood Johnson
	Foundation Clinical Scholars Program Annual Meeting. Seattle,
	Washington.
5/2016	Patrick SW, Bauer A, Warren MD, Jones TF, Wester C.
	"Prevalence of Hepatitis C Among Pregnant Women." Peer
	reviewed, platform presentation. Pediatric Academic Societies
	Annual Meeting. Baltimore, Maryland.
5/2016	Patrick SW, Scott T, Reese JJ. "Patent Ductus Arteriosus Surgical
	Ligations in the US, 2000 to 2012: Less Frequent, Higher Risk
	Infants." Peer reviewed, platform presentation. Pediatric Academic
	Societies Annual Meeting. Baltimore, Maryland.
5/2017	Maalouf FI, Cooper WO, Slaughter C, Dudley J, <u>Patrick SW</u> .
	"Outpatient Treatment of Neonatal Abstinence Syndrome
	Associated with Longer Treatment and Higher Rates of Healthcare
	Utilization". Peer reviewed, platform presentation. Pediatric
	Academic Societies Annual Meeting. San Francisco, California.
6/2017	Maalouf FI, Cooper WO, Slaughter C, Dudley J, Patrick SW.
	"Outpatient Treatment of Neonatal Abstinence Syndrome
	Associated with Longer Treatment and Higher Rates of Healthcare
	Utilization". Peer reviewed, platform presentation. Child Health
	Services Research Interest Group Meeting. AcademyHealth. New
	Orleans, Louisiana.
6/2017	Academic Societies Annual Meeting. San Francisco, California. Maalouf FI, Cooper WO, Slaughter C, Dudley J, <u>Patrick SW</u> .
6/2017	Maalouf FI, Cooper WO, Slaughter C, Dudley J, Patrick SW.
	•

6/2017	Sanlorenzo LA, Cooper WO, Dudley JA, Stratton S, Maalouf FI, <u>Patrick SW</u> . "Identifying Risk of Severe Neonatal Abstinence
	Syndrome Among Poly-substance Exposed Infants." Peer
	reviewed, platform presentation. AcademyHealth. New Orleans,
	Louisiana.
5/2018	<u>Patrick SW</u> , Faherty LJ, Dick A, Scott TA, Dudley J, Stein BD. "Economic Downturns Associated with Increases in Neonatal Abstinence Syndrome." Peer reviewed, platform presentation, American Academy of Pediatrics Presidential Plenary. Pediatric Academic Societies Annual Meeting. Toronto, Ontario. Canada.
5/2018	Patrick SW , Slaughter C, Harrell F, Hartmann K, Martin P, Dudley J, Stratton S, Cooper WO. "Development and Validation of a Clinical Prediction Tool for Neonatal Abstinence Syndrome." Peer reviewed, platform presentation. Pediatric Academic Societies Annual Meeting. Toronto, Ontario. Canada.
4/2019	Goyal N, Rohde JF, Chung EK, Short V, <u>Patrick SW</u> . "Well Child Care Use After Intrauterine Opioid Exposure in the First 18 Months of Life." Peer reviewed, platform presentation. Pediatric Academic Societies Annual Meeting. Baltimore, Maryland.
4/2019	Brown C, Williams DJ, Hall M, Freundlich K, Johnson DP, Lind C, Rehm K, Frost P, Doupnik SK, Ibrahim D, <u>Patrick SW</u> , Sartori L, Howard L, Gay J. "Trends in Length of Stay and Readmissions in Children's Hospitals." Peer reviewed, platform presentation. Pediatric Academic Societies Annual Meeting. Baltimore, Maryland.
Abstracts Postar Pro	sentations at National Meetings
	õ
5/2011	Patrick SW , Schumacher RE, Schachinger S, Davis MM. "Regional Variation in Lumbar Punctures for Early Onset Neonatal Sepsis." Peer reviewed, poster presentation. Pediatric Academic Societies Annual Meeting. Denver, Colorado.
10/2011	Patrick SW , Davis MM, Schumacher RE. "Implications of Neonatal Abstinence Syndrome for Health Care Utilization and Expenditures." Peer reviewed, poster presentation. American Academy of Pediatrics National Conference and Exhibition. Boston, Massachusetts.
11/2011	Patrick SW, Davis MM, Schumacher RE. "Implications of
11/2011	Neonatal Abstinence Syndrome for Health Care Utilization and
	Expenditures." Peer reviewed, poster presentation. Robert Wood
	Johnson Foundation Clinical Scholars Program National Meeting.
	Washington, D.C.
11/2011	Patrick SW, Choi H, Davis MM. "The Effect of Federal Financing on Medicaid Enrollment for Children." Peer reviewed, poster presentation. Robert Wood Johnson Foundation Clinical Scholars Program National Meeting. Washington, D.C.

04/2012	<u>Patrick SW</u> , Davis, MM, Meddings JA, Hieber S, Lee GM, Stillwell TL, Chenoweth, CE, Espinosa C, Schumacher RE. "Lack
	of Accuracy of Hospital Administrative Data in Reporting Central-
	Line Associated Bloodstream Infections in Newborns." Peer
	reviewed, poster presentation. Pediatric Academic Societies
	Annual Meeting. Boston, Massachusetts.
04/2012	Patrick SW, Schumacher RE, Benneyworth BD, Krans EE,
04/2012	McAllister JM, Davis MM. "Neonatal Abstinence Syndrome and
	Associated Healthcare Expenditures – United States, 2000-2009."
	Peer reviewed, poster presentation. Pediatric Academic Societies
	Annual Meeting. Boston, Massachusetts.
05/2013	Patrick SW, Benneyworth BD, Schumacher RE, Davis MM.
03/2013	"Variation in Hospital Type in Treatment of Neonatal Abstinence
	Syndrome in the United States." Peer reviewed, poster
	presentation. Pediatric Academic Societies Annual Meeting.
	Washington, D.C.
05/2013	Patrick SW, Kaplan H, Passarella M, Davis MM, Lorch SA.
03/2013	"Variation in Treatment of Neonatal Abstinence Syndrome in US
	Children's Hospitals." Peer reviewed, poster presentation. Pediatric
	Academic Societies Annual Meeting. Washington, D.C.
05/2013	Patrick SW, Tse A, Jin R, Gay C, Kassler W, Lee GM. "Trends in
03/2013	Pediatric Hospital Acquired Infections, 2007-2011." Peer
	reviewed, poster presentation. Pediatric Academic Societies
	Annual Meeting. Washington, D.C.
10/2013	Patrick SW, Kaplan H, Passarella M, Davis MM, Lorch SA.
10/2013	"Variation in Treatment of Neonatal Abstinence Syndrome in US
	Children's Hospitals." Peer reviewed, poster presentation. Vermont
	Oxford Network Annual Meeting. Chicago, Illinois.
05/2014	Patrick SW, Burke J, Cooper WO. "Risk of Hospital Readmission
00/2011	Among New York Infants With Neonatal Abstinence Syndrome."
	Peer reviewed, poster presentation. Pediatric Academic Societies
	Annual Meeting. Vancouver, British Columbia.
05/2014	Buus-Frank ME, Ferrelli K, Morrow K, Edwards E, <u>Patrick SW</u> ,
	Schumacher RE, Horbar JD, Soll RF. "VON Day Quality Audit /
	Neonatal Abstinence Syndrome." Peer reviewed, poster
	presentation. Pediatric Academic Societies Annual Meeting.
	Vancouver, British Columbia.
4/2015	Patrick SW, Dudley J, Martin PR, Harrell FE, Warren MD,
	Hartmann KE, Ely EW, Grijalva GC, Cooper WO. "Higher Dose
	and Duration of Maternal Prescription Opioid Use Increases Risk
	of Neonatal Abstinence Syndrome." Peer reviewed, poster
	presentation. Translational Science 2015. Washington, D.C.
4/2015	Patrick SW, Schumacher RE, Horbar J, Buus-Frank M, Edwards
	E, Morrow K, Ferrelli K, Soll R. "Improving Care for Infants with
	Neonatal Abstinence Syndrome: Results of a Large Multicenter

6/2015	Collaborative." Peer reviewed, poster symposium. Pediatric Academic Societies Annual Meeting. San Diego, California. <u>Patrick SW</u> , Fry CE, Jones TF, Buntin MB. "Prescription Drug Monitoring Programs and Opioid-Related Overdose Deaths." Peer reviewed, poster presentation. AcademyHealth Annual Research
5/2016	Meeting. Minneapolis, Minnesota. Charles MK, Cooper WO, Jansson LJ, Dudley J, Slaughter J, <u>Patrick SW</u> . Infant Sex and Risk of Neonatal Abstinence Syndrome. Peer reviewed, poster presentation. Pediatric Academic
5/2017	Societies Annual Meeting. Baltimore, Maryland. Hatch LD, Scott TA, Walsh WF, Blakely ML, <u>Patrick SW</u> . "National and Regional Trends in Gastrostomy and Fundoplication in Very Low Birth Weight Infants in the US: 2000-2012." Peer reviewed, poster
5/2017	symposium. Pediatric Academic Societies. San Francisco, California. Sanlorenzo LA, Cooper WO, Dudley JA, Stratton S, Maalouf FI, <u>Patrick SW</u> . "Identifying Risk of Severe Neonatal Abstinence Syndrome Among Poly-substance Exposed Infants." Peer
5/2017	reviewed, poster symposium. Pediatric Academic Societies. San Francisco, California. Maalouf FI, Cooper WO, Stratton S, Dudley J, Ko J, Mukherjee A, <u>Patrick SW</u> . "Validation and Development of Algorithms to Identify Neonatal Abstinence Syndrome in Public Health Systems." Peer reviewed, poster symposium. Pediatric Academic
4/2019	Societies. San Francisco, California. Hatch LD, Scott TA, Slaughter J, Xu M, Smith A, Stark AR, <u>Patrick SW</u> , Ely EW. "Unplanned Extubations in Preterm Infants Prolong Mechanical Ventilation and Increase Hospital Costs." Peer reviewed, poster symposium. Pediatric Academic Societies.
4/2019	Baltimore, Maryland. Lopata SM, Wester C, Cooper WO, Carlucci JG, Espinosa C, Dudley JA, McNeer E, <u>Patrick SW</u> . "Disparities in Testing of Hepatitis C Exposed Infants." Peer reviewed, poster symposium. Pediatric Academic Societies. Baltimore, Maryland.
Academic Institutions	5
10/2012	Patrick SW . "Policy to Practice: Health Services Research in Neonatology." Invited speaker, research seminar. Cincinnati Children's Hospital Medical Center. Cincinnati, Ohio.
11/2012	<u>Patrick SW</u> . "Policy to Practice: Health Services Research in Neonatology." Invited speaker, research seminar. Vanderbilt
12/2012	University (prior to faculty appointment). Nashville, Tennessee. <u>Patrick SW</u> . "Policy to Practice: Health Services Research in Neonatology." Invited speaker, research seminar. University of Florida. Gainesville, Florida.

04/2013	<u>Patrick SW</u> . "Neonatal Abstinence Syndrome: Scope and Evolving Issues." Invited speaker, Grand Rounds. Beaumont
03/2014	Children's Hospital. Royal Oak, Michigan. <u>Patrick SW</u> . "NAS: Epidemiology, Economics and Management." Invited speaker, NeoFest 2014. Cincinnati Children's Hospital
	Medical Center. Cincinnati, Ohio.
12/2015	Patrick SW. "The Prescription Opioid Epidemic and Neonatal Abstinence Syndrome - A Public Health Approach." Invited
	speaker. Dartmouth University Geisel School of Medicine, Department of Pediatrics, Grand Rounds. Hanover, New
12/2015	Hampshire. <u>Patrick SW</u> . "How to Have an Academic Career with Impact." Invited speaker. Dartmouth University Geisel School of Medicine, Department of Pediatrics, Resident Noon Conference. Hanover,
	New Hampshire.
3/2016	<u>Patrick SW</u> . "Neonatal Abstinence Syndrome - A Public Health Approach." Neonatal Grand Rounds Speaker, Tufts University.
5/2016	Boston, Massachusetts. <u>Patrick SW</u> . "The Prescription Opioid Epidemic and Neonatal
	Abstinence Syndrome." Marie McCormick Lectureship in Neonatal Health Services Research and Epidemiology, Harvard Medical School, Beth Israel Deaconess Medical Center,
5/2016	Department of Neonatology. Boston, Massachusetts. <u>Patrick SW</u> . "Improving Care for Neonatal Abstinence
	Syndrome." Newborn Medicine Research Seminar Series, Boston Children's Hospital, Division of Neonatology. Boston, Massachusetts.
5/2016	<u>Patrick SW</u> . "The Prescription Opioid Epidemic and Neonatal Abstinence Syndrome." Invited speaker, PedsPLACE. University
10/2016	of Arkansas for Medical Sciences. Little Rock, Arkansas. <u>Patrick SW.</u> "The Prescription Opioid Epidemic and Neonatal Abstinence Syndrome." Invited speaker. Neonatal Abstinence Syndrome Workgroup, East Tennessee State University,
2/2017	Department of Pediatrics. Johnson City, Tennessee. <u>Patrick SW.</u> "The Prescription Opioid Epidemic and Neonatal Abstinence Syndrome." Invited speaker. University of Michigan,
4/2017	Department of Pediatrics, Grand Rounds. Ann Arbor, Michigan. <u>Patrick SW.</u> "The Prescription Opioid Epidemic and Neonatal Abstinence Syndrome." Invited speaker, The Wanda L. Jones-
4/2017	Phillips Memorial Lecture, Neonatology 2017, Emory University Department of Pediatrics. Atlanta, Georgia. <u>Patrick SW</u> . "Long-Term Outcomes for Neonatal Abstinence
	Syndrome: What We Know and What We Don't." Invited speaker, Neonatology 2017, Emory University Department of Pediatrics. Atlanta, Georgia.

5/2017	Patrick SW . "The Opioid Epidemic and Neonatal Abstinence Syndrome." Invited speaker, Children's National Medical Center
	Grand Rounds. Washington, D.C.
10/2017	Patrick SW. "The Opioid Epidemic and Neonatal Abstinence
	Syndrome." Invited speaker, The Children's Hospital of
	Philadelphia Neonatology Research Seminar, The Children's
	Hospital of Philadelphia. Philadelphia, Pennsylvania.
5/2017	Patrick SW. "The Opioid Epidemic and Neonatal Abstinence
	Syndrome." Invited speaker, University of Louisville, Department
	of Pediatrics Grand Rounds. Louisville, Kentucky.
6/2018	Patrick SW, Warren M, Remley K, Bharel M. "Understanding &
	Responding to the Lifelong Effects of Opioid Exposure for Infants,
	Children & Families." Invited speaker and panelist, Association of
	States and Territorial Officials in association with The Forum at
	the Harvard T.H. Chan School of Public Health. Boston,
	Massachusetts.
	https://theforum.sph.harvard.edu/state-health-leadership-
	understanding-responding-to-the-lifelong-effects-of-opioid-
	exposure-for-infants-children-families/
4/2019	Patrick SW. "Improving Outcomes for Opioid-Exposed Infants."
	Invited speaker, Infants' Aid Endowment Fund Lecture
	Northwestern University Feinberg School of Medicine,
	Department of Pediatrics. Chicago, Illinois.
5/2019	Patrick SW. "Optimizing Outcomes for Pregnant Women and
	Infants Affected by the Opioid Crisis." Invited speaker, Richard A.
	Ehrenkranz Symposium: Nutrition, Neurodevelopment, and
	Outcomes. Yale University Department of Pediatrics. New Haven,
	Connecticut.
9/2019	Patrick SW. "The Opioid Crisis and Maternal Child Health:
	Research to Inform Policy and Practice." Invited speaker,
	Children's Hospital of Los Angeles/University of Southern
	California, Division of Neonatology Grand Rounds. Los Angeles,
	California.
12/2019	Patrick SW. "The Science and Politics of Neonatal Abstinence
	Syndrome." Invited speaker, John Hopkins Bloomberg School of
	Public Health. Baltimore, Maryland.
2/2020	Patrick SW. "Improving Outcomes for Pregnant Women and
	Infants Affected by the Opioid Crisis." Annie Terry Grand Rounds
	Speaker, Oregon Health and Science University. Portland, Oregon.
10/2020	Patrick SW. "Improving Outcomes for Pregnant Women and
	Infants Affected by the Opioid Crisis: Generating Evidence to
	Inform Public Health Policy." Invited speaker, Sixth Annual Gale
	and Ira Drukier Lecture in Children's Health, Weill Cornell
	Medicine. New York, New York.

11/2020	<u>Patrick SW.</u> "Improving Outcomes for Pregnant Women and Infants Affected by the Opioid Crisis." Invited Speaker, Pediatric
9/2021	Grand Rounds, University of Michigan. Ann Arbor, Michigan. <u>Patrick SW.</u> "Improving Outcomes for Pregnant Women and
	Infants Affected by the Opioid Crisis." Invited Speaker, Pediatric Grand Rounds, East Tennessee State University, Johnson City,
4/2022	Tennessee. <u>Patrick SW</u> . "Improving Outcomes for Families Affected by the Opioid Crisis." Distinguished Scholar Seminar, The Dartmouth Institute, Dartmouth Hitchock Medical Center, Lebanon, New
9/2022	Hampshire. <u>Patrick SW</u> . "Improving Systems that Serve Families Affected by the Opioid Crisis Context & Guidance from AAP." Speaker,
11/2022	Florida State University College of Medicine Reunion. Orlando, Florida. <u>Patrick SW</u> . "Addressing Opioid Use Disorder Among Pregnant
	Women (and my path along the way)." Speaker, Florida State University Chapter of the American Medical Association Advocacy Week. Florida State University College of Medicine. Tallahassee, Florida (virtual).
2/2023	Patrick SW. "Substance Use in Pregnancy: Improving Outcomes for Families." Grand Rounds, West Virginia University Charleston Campus, Department of Pediatrics, Charleston, West Virginia.
State Perinatal Qualit	ty Improvement Meetings
02/2013	<u>Patrick SW</u> . "Neonatal Abstinence Syndrome: Scope and Evolving Issues." Invited speaker, Tennessee Initiative for Perinatal Quality Care Annual Meeting. Franklin, Tennessee.
01/2014	<u>Patrick SW</u> . "Neonatal Abstinence Syndrome: Scope and Evolving Issues." Invited speaker and panelist, Perinatal Quality Collaborative of North Carolina Annual Meeting. Durham, North Carolina.
12/2015	Patrick SW . "Improving the Care of NAS from the Bedside to Capitol Hill." Invited speaker, Caring for Newborns Born to Women with Perinatal Opioid Exposure, Neonatal Abstinence Syndrome Project of the Neonatal Quality Improvement Collaborative of Massachusetts (NeoQIC) and the Northern New England Perinatal Quality Improvement Network (NNEPQIN) Fall
12/2015	Meeting. Westborough, Massachusetts. <u>Patrick SW</u> , Tilley P, Record K. "Advocating for Policy Change Locally, Regionally, and Statewide: What Each of Us Can Do." Panelist. Caring for Newborns Born to Women with Perinatal Opioid Exposure, Neonatal Abstinence Syndrome Project of the Neonatal Quality Improvement Collaborative of Massachusetts (NeoQIC) and the Northern New England Perinatal Quality

	Improvement Network (NNEPQIN) Fall Meeting. Westborough,
1/2016	Massachusetts.
1/2016	<u>Patrick SW</u> . "Improving the Care of NAS from the Bedside to the Capitol." Invited speaker, Perinatal Quality Collaborative of North
	Carolina. Raleigh, North Carolina.
3/2016	<u>Patrick SW</u> . "Improving the Care of NAS from the Bedside to the
	Capitol." Invited speaker, Tennessee Initiative to Improve Perinatal Quality Care. Franklin, Tennessee.
3/2017	Patrick SW. "Targets to Reduce Morbidity." Invited speaker and
	panelist, Tennessee Initiative to Improve Perinatal Quality Care.
9/2017	Franklin, Tennessee. <u>Patrick SW</u> . "The Prescription Opioid Epidemic and Neonatal
)/2017	Abstinence Syndrome." Invited speaker. Oklahoma Perinatal
	Quality Improvement Collaborative Summit. Oklahoma City,
3/2019	Oklahoma. Borders A, <u>Patrick SW</u> , Devoe M, Young, J. "Opioid Exposed
5/2019	Newborns (OEN)/Opioid Use Disorder (OUD) Panel Discussion."
	Invited panelist, Tennessee Initiative for Perinatal Quality Care
00/0001	Annual Meeting. Franklin, Tennessee.
03/2021	<u>Patrick SW.</u> "Updates In Perinatal Opioid Exposure." Invited speaker, TIPCQ Annual Meeting. Vanderbilt University School of
	Medicine, Nashville, TN.
04/2021	Patrick SW. "Improving Public Health Systems for Pregnant
	Women and Infants Affected by the Opioid Crisis." Colorado Hospitals Substance Exposed Newborn Quality Improvement
	Collaborative (CHoSEN QIC). Department of Pediatrics,
	University of Colorado School of Medicine, Aurora, Colorado.
Webinars	
01/2013	Patrick SW. "Opiates and Infants: Neonatal Abstinence
	Syndrome, Epidemiology and Scope." Invited speaker and
05/2013	panelist, Vermont Oxford Network Webinar. Burlington, Vermont. Patrick SW . "Neonatal Abstinence Syndrome: Presentation and
05/2015	Typical Course." Invited speaker and panelist, Vermont Oxford
	Network Webinar. Burlington, Vermont.
05/2014	Patrick SW. "Neonatal Abstinence Syndrome." Invited
	presentation, webinar. Association for Community Affiliated Plans. Washington, D.C.
2/2015	Patrick SW. "Neonatal Abstinence Syndrome: Continued Increase
	and Geographic Variation." Invited speaker and panelist, Vermont
6/2015	Oxford Network Webinar. Burlington, Vermont. <u>Patrick SW</u> . "The National Landscape – Trends Toward
0,2010	Legalization of Marijuana." Invited speaker and panelist, Vermont
	Oxford Network Webinar. Burlington, Vermont.
9/2016	Patrick SW , Write T, Mittal LP, Hersey ML. "The Emerging
	Crisis of Opioid Addiction – Implications for Home Visiting."

	Invited speaker and panelist, U.S. Department of Health and
	Human Services, Health Resources and Services Administration,
	HV-Impact. Rockville, Maryland.
8/2017	<u>Patrick SW</u> . "Understanding Neonatal Abstinence Syndrome for the General Pediatrician." Invited speaker, The American
	Academy of Pediatrics. Elk Grove Village, Illinois.
12/2017	Page K, <u>Patrick SW</u> , Sanders K, Schillie S. "Hepatitis C Virus
	Among Pregnant Women." Invited speaker, National Viral
2/2010	Hepatitis Roundtable. Washington, D.C.
3/2019	Kasehagen K, <u>Patrick SW</u> , John C. "NAS Policy and Practice."
9/2010	Invited speaker, OMNI Learning Community ASTHOconnects #3
8/2019	Patrick SW . "Improving Outcomes for Families Affected by
	Opioids." Invited speaker, Office of Head Start. National Webinars
1/2021	on Opioid Misuse and Substance Use Disorders.
1/2021	Patrick SW. "Improving Systems that Serve Families Affected by
	the Opioid Crisis: Context and Guidance from the AAP." Invited
1/2021	speaker, National Center on Substance Abuse and Child Welfare.
1/2021	Patrick SW , Christian CW. "CAPTA and legislative testimony:
	How to be an effective advocate." Invited speaker, Child Welfare Policy Pediatric Learning Collaborative, American Academy of
	Pediatrics.
04/2021	Patrick SW. "Health Equity and NAS." Invited speaker, QI Grand
04/2021	Rounds – Neonatal Abstinence Syndrome and Health Equity,
	Vermont Oxford Network.
05/2021	Patrick SW. "Prenatal Neuroscience." Invited speaker, Early Head
03/2021	Start Rising Summer Series. Virtual.
12/2022	Patrick SW. "Newborns Exposed to Substances: Understanding
12,2022	Their Needs and Supporting Their Caregivers." Keynote Speaker.
	Policy Academy, The National Center on Substance Abuse and
	Child Welfare. Virtual

State Government and Local Communities

8/2012	Patrick SW. "Neonatal Abstinence Syndrome." Invited speaker,
	Iosco County Department of Human Services. Conference entitled,
	"Substance Abuse and Families." Hale, Michigan.
11/2012	Patrick SW. "Opiates and Infants: Neonatal Abstinence
	Syndrome." Invited speaker, 12th Annual Multidisciplinary Child
	Abuse Conference Prosecuting Attorney's Association of
	Michigan. Bay City, Michigan.
04/2013	Patrick SW. "Neonatal Abstinence Syndrome: Scope and
	Evolving Issues." Invited speaker, 21 st Annual Conference of the
	Southeastern Michigan Association of Neonatal Nurses.
	Frankenmuth, Michigan.
09/2013	Patrick SW. "Neonatal Abstinence Syndrome: Scope and
	Evolving Issues." Invited speaker, Tennessee Public Health
	Association Annual Meeting. Franklin, Tennessee.
	-

03/2014	Patrick SW . "Neonatal Abstinence Syndrome." Invited Speaker, 2014 Early Intervention Conference, Building Best Practice: Partnering, Coaching, Leading. Tennessee Early Intervention
11/2014	Services. Murfreesboro, Tennessee. <u>Patrick SW</u> . "Neonatal Abstinence Syndrome: Current Issues in Tennessee and Beyond." Invited speaker, Learning for Babies - A Conference to Benefit the March of Dimes. Franklin, Tennessee.
9/2015	Patrick SW. "The Prescription Opioid Epidemic and Neonatal Abstinence Syndrome - A Public Health Approach." Invited Speaker, Tennessee Annual Pediatric Conference, Tennessee Chapter of the American Academy of Pediatrics. Franklin, Tennessee.
12/2015	Patrick SW. "Neonatal Abstinence Syndrome - A Public Health Approach." Invited speaker. New Hampshire Governor's Task Force on Perinatal Substance Exposure. Concord, New Hampshire.
1/2016	Patrick SW. "Neonatal Abstinence Syndrome - A Public Health Approach." Invited speaker. Neonatal Abstinence Syndrome Community Collaborative. Nashville, Tennessee.
7/2016	Patrick SW. "Neonatal Abstinence Syndrome - A Public Health Approach." Invited speaker. Tennessee Hospital Association Annual Meeting. Miramar Beach, Florida
2/2017	Patrick SW. "The Prescription Opioid Epidemic and Neonatal Abstinence Syndrome." Keynote speaker. Orange County Drug Abuse Summit, Winnie Palmer Hospital for Women & Babies. Orlando, Florida.
11/2017	Patrick SW . "The Opioid Epidemic and Neonatal Abstinence Syndrome." Invited speaker. Mid-Cumberland Council on Children and Youth. Franklin, Tennessee.
08/2021	Patrick SW. Young J. "Improving Outcomes for Pregnant Women and Infants Affected by the Opioid Crisis." Panelist, Tennessee Association of Alcohol, Drug, and other Addition Services. Virtual.
09/2021	Patrick SW. "Supporting Newborns Experiencing Neonatal Opioid Withdrawal Syndrome and Women Living with Opioid Use Disorder." Invited Speaker, Annual Maine Maternal Child Health and Substance Exposed Infant Conference. Virtual.
02/2023	<u>Patrick SW</u> . "Caring for Pregnant Women & Infants Affected by Substance Use Disorder." Tennessee Second Look Commission, Tennessee Commission on Children and Youth. Nashville, Tennessee