

Alison Volpe Holmes, MD, MS, MPH

<u>Office</u> Office of Student Affairs Remsen 303 Hanover, NH 03755	<u>Office</u> Office of Clinical Education Rubin 4 th floor One Medical Center Drive Lebanon, NH 03756
-------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------

I. EDUCATION

MPH, University of Rochester	2004-2006
MD, Stanford Medical School	1996-2000
MS, Genetics, University of Washington	1993-1995
BS, Biology, Haverford College, <i>magna cum laude</i>	1989-1993
Hunter College High School	1983-1989

II. POST-DOCTORAL TRAINING

Fellowship in General Academic Pediatrics, University of Rochester	2004-2006
Residency in Pediatrics, North Carolina Children's Hospital	2001-2004

III. ACADEMIC APPOINTMENTS

Associate Professor of Pediatrics and of the Dartmouth Institute, Geisel School of Medicine at Dartmouth	2015-
Assistant Professor of Pediatrics and of the Dartmouth Institute, Geisel School of Medicine at Dartmouth	2012-2015
Assistant Professor of Community and Family Medicine, Geisel School of Medicine at Dartmouth	2006-2012

IV. INSTITUTIONAL LEADERSHIP ROLES

Associate Dean for Student Affairs, Geisel School of Medicine at Dartmouth	2020-
Medical Director, Interim, Newborn Medicine Service, Dartmouth Health Children's	2022-23
Associate Dean for Career Advising, Geisel School of Medicine at Dartmouth	2019-2020
Director of Residency Advising, Interim, Geisel School of Medicine at Dartmouth	2018-2019
Director of Year 4 MD curriculum, Geisel School of Medicine at Dartmouth	2018
Vice-chair of Pediatrics for Education, Geisel School of Medicine at Dartmouth	2016-2020
Director of Pediatric Medical Education and course director of the pediatric clerkship and inpatient sub-internship, Geisel School of Medicine at Dartmouth	2012-2018
Director of the Pediatric rotation at Concord Hospital, Geisel School of Medicine at Dartmouth	2006-2012

V. LICENSURE AND CERTIFICATION

Diplomate, American Board of Pediatrics (MOC 2011, 2016, 2021)	2004-
New Hampshire Medical License	2006-
New York Medical License	2004-2006

VI. HOSPITAL AND HEALTH SYSTEM EMPLOYMENT

Attending Pediatrician, Children's Hospital at Dartmouth-Hitchcock	2012-
Attending Pediatrician, Concord Hospital	2006-2012
Attending Pediatrician, Golisano Children's Hospital	2004-2006

VII. OTHER PROFESSIONAL POSTIONS

Elected member-at-Large, AAMC Northeast Group on Student Affairs	2023-
Student Life Advisory committee member, Haverford College	2023-
Co-director, APA Quality and Improvement Scholars faculty development program	2019-2022
Core faculty member for APA Quality and Improvement Scholars faculty development program	2017-2019
Academic Pediatric Association (APA) Board of Directors, Chair of Regions and Interest Groups	2016-2019
Core faculty member for AAP/APA APEX medical education faculty development program	2016-2017
Founding Medical Director, NH Pediatric Improvement Partnership, University of New Hampshire	2013-2014
Academic Pediatric Association (APA) region 1 co-chair, region executive committee member	2012-2015
Director of Pediatric Medical Education, Concord Hospital	2011-2012
Academic Pediatric Association (APA) co-chair of community setting teaching interest group	2006-2012
Research Assistant, University of Washington	1994-1995

VIII. PROFESSIONAL DEVELOPMENT ACTIVITIES

Public Voices Thought Leadership Fellows Program for Op-Ed writing	2018
Association of American Medical Colleges (AAMC) Mid-Career Women's Leadership Program	2016
Tuck School of Business and Thayer School of Engineering I-Corp program for commercialization of intellectual property	2016
Accreditation Council for Graduate Medical Education (ACGME) certification course in competency-based assessment	2016
Academic Pediatric Association (APA) Educational Scholars Faculty Development Program with certificate of excellence in educational scholarship, cohort 1	2006-2009

IX. TEACHING ACTIVITIES

These are included in the Educator Portfolio

X. PRIMARY RESEARCH ADVISING

These are included in the Educator Portfolio

XI. ADVISING/MENTORING [OTHER]

These are included in the Educator Portfolio

XII. ENGAGEMENT, ADVOCACY, COMMUNITY SERVICE, COMMUNITY EDUCATION

See section on opioid-exposed newborns in program development, below

XIII. RESEARCH ACTIVITY**A. Sponsored activity**

NAS care at home telemedicine pilot	PI	NH Medicaid	Contract per patient	2023
Wearable device for NAS	PI (0.05 FTE)	CDC	\$35,000	2019
NAS recovery coach	PI	CHaD	\$6,250	2017-18
Let's Go Maine BFHI	Consultant	Harvard Pilgrim Foundation	\$1,000	2012-15
NH Pediatric Improvement Partnership—Program Infrastructure	Co-PI (0.1 FTE)	NH Endowment for Health	\$50,000	2013-14
NH Pediatric Improvement Partnership—Developmental Screening	Co-PI (0.1 FTE)	Federal Medicaid Matching grants	\$83,000	2013-14
NH Pediatric Improvement Partnership—Program Planning	Co-PI (0.05 FTE)	NH Endowment for Health	\$30,500	2013
NH Ten Steps	Co-PI (0.01 FTE)	Let's Go Maine	\$20,000	2012-13
WIC and breastfeeding--CBPR	Consultant (0.02 FTE) PI Dozier	NIH	\$2.5M	2007-12
WIC and breastfeeding	PI (0.05 FTE)	Dyson Foundation	\$3,000	2005-06

XIII. PROGRAM DEVELOPMENT**1. Title: Quality Improvement and improved systems care for opioid-exposed newborns (CHaD)**

Type: Clinical Care Innovation

My role: Team leader

Dates: 2013-2018

Starting for local reasons in 2013, I was the physician lead on an interprofessional team to improve the family-centered care of our many infants with opioid withdrawal that are hospitalized at CHaD. We improved the family experience of and satisfaction with care, provided standardized staff training, shortened length of stay, started a new volunteer program, appropriately reduced pharmacotherapy, and lowered systems costs by half by employing a rooming-in model of care. This team project won national awards from the AAMC and the APA; eight papers and two

Op-Eds have been published. Our family-centered rooming-in model has been broadly adopted as the new standard of care and is highlighted in the newest United States, Canadian and European guidelines. I had the privilege of speaking on this topic at an AAMC Congressional briefing in 2016.

Media coverage of this program:

- Sananes R. New Dartmouth-Hitchcock Research Helps Babies Born With Opiate Dependencies. Vermont Public Radio. <http://digital.vpr.net/post/new-dartmouth-hitchcock-research-helps-babies-born-opiate-dependencies#stream/0>. Published 2016.
- Wickham SK. Dartmouth study offers hope for babies exposed to drugs in the womb. The Union Leader. <http://www.unionleader.com/apps/pbcs.dll/article?AID=/20160524/NEWS12/160529711>. Published 2016.
- Schroeder MO. Helping Babies Overcome Opioid Withdrawal. US News and World Report. <https://health.usnews.com/health-news/patient-advice/articles/2016-07-28/helping-babies-overcome-opioid-withdrawal>. Published 2016.
- Saint Louis C. Rise in Infant Drug Dependence Is Felt Most in Rural Areas. The New York Times. <https://www.nytimes.com/2016/12/12/health/rise-in-infant-drug-dependence-in-us-is-felt-most-in-rural-areas.html>. Published 2016.
- Saint Louis C. A Tide of Opioid-Dependent Newborns Forces Doctors to Rethink Treatment. The New York Times. <https://www.nytimes.com/2017/07/13/health/opioid-addiction-babies.html>. Published 2017.
- Knoy L. Addiction & Motherhood: The Impact Of The Opioid Crisis On Pregnant Women & Those Caring For Them. New Hampshire Public Radio/The Exchange. <http://nhpr.org/post/addiction-motherhood-impact-opioid-crisis-pregnant-women-those-caring-them#stream/0>. Published 2017.
- Diep F. How Kentucky is Leading the Way in Addiction Care for Pregnant Women. The Pacific Standard. <https://psmag.com/social-justice/how-kentucky-is-leading-the-way-in-addiction-care-for-pregnant-women>. Published 2017.
- Rosen M. For babies exposed to opioids in the womb, parents may be the best medicine. Science News. <https://www.sciencenews.org/article/babies-exposed-opioids-womb-parents-may-be-best-medicine>. Published 2017.
- Casey M. Report: Drug crisis taking toll on New Hampshire newborns. The Associated Press, picked up in >20 outlets: example: <http://www.orlandosentinel.com/health/sns-bc-nh--opioids-newborns-20171219-story.html>. Published 2017.
- LeBars S. Dans le New Hampshire, 24 nourissons sur 1000 naissent toxicodépendants. Le Monde. http://www.lemonde.fr/planete/article/2017/12/29/aux-etats-unis-les-effets-deleteries-des-addictions-aux-opiaces-sur-les-nourissons_5235605_3244.html?xtmc=alison&xtcr=4. Published 2017.
- Rapaport L. Babies with opioid withdrawal might do better outside the ICU. Reuters. Picked up in multiple outlets. <https://www.reuters.com/article/us-health-newborns-neonatal-abstinence/babies-with-opioid-withdrawal-might-do-better-outside-the-icu-idUSKBN1FP2QG>. Published 2018.
- Rosen, L. Pregnant women's use of opioids is on the rise. Science news. <https://www.sciencenews.org/article/pregnancy-opioids-women-drug-use>. Published August 9, 2018.
- Snider, A. CDC Report: Vermont has highest rate of opioid use among pregnant women. Vermont Public radio. <http://digital.vpr.net/post/cdc-report-vermont-has-highest-rate-opioid-use-among-pregnant-women#stream/0>. August 13, 2018.

2. Title: Learning Environment QI Implementation Team Leader

Type: Educational Administration

My role: QI Committee chair

Dates: 2020-2022

In 2019, Geisel was faced with two consecutive years of significantly higher than national average rates of student mistreatment on the AAMC GQ, a survey of graduates with national benchmarking. The Dean and CEO commissioned a task force to study the problem, and upon assuming the role of Associate Dean in February 2020, they instructed me to convene an implementation team to continue to work of the task force. Our interprofessional team convened in July 2020 and by January 2021 had created an updated policy, website, and reporting and response infrastructure. We gave two series of Learning Environment Grand Rounds to most departments in 20-21 and 21-22. Subsequent GQ data found a decrease in reported student mistreatment in the graduating classes of '20, '21 and '22. Additionally, student satisfaction with reporting mistreatment increased substantially to 75%, about double the national rate, from a low of 10% satisfaction. To sustain and expand upon the work of this group, a Learning Environment Director was hired in 2022.

3. Title: Geisel Career Advising Improvement**Type: Educational Administration****My role: QI Committee chair****Dates: 2021-**

Residency and career advising is core to the role of Student Affairs. Finding lower than desired student rating of advising services, we convened an interprofessional QI team in August 2021 to examine the status of advising programs and how they could be improved. We now have a formal Careers in Medicine Program that spans all 4 years, integrates the Geisel coaching program and specialty advisors across the curricular continuum, and introduces MD students to specialty support teams much earlier than had been done previously. The program has both required and optional sessions and utilizes the AAMC CiM self-assessments at developmentally appropriate stages in the pathway toward selecting a specialty for residency or a non-clinical career. Student satisfaction with the programming has been very high. In 2022, two assistant deans were added to support advising programs, with one specifically dedicated to medical student research.

4. Faculty Council (Geisel)**Type: Institutional Service****My role: Council Chair****Dates: 2017-18**

This included several firsts: first woman, first mid-career faculty member, first chair with 50% time in clinical effort during tenure. Though only for one year, we were able to accomplish the following: 1) doubled to tripled council member meeting attendance and engagement, 2) improved professionalism of organization at meetings and events, 3) engagement with administrative leaders on topics most important for faculty, 4) revision of by-laws to be in harmony with other Geisel, College and DHMC/VA policies and procedures, and 5) some progress toward increased governance functions, including a role in selection of faculty members for standing Geisel committees.

5. Vice-Chair for Education (Geisel/CHaD)**Type: education, administration, faculty development,****My role: Vice-Chair****Dates: 2016-20**

As vice-chair for education in pediatrics, I supported the transition to a new residency program director in 2017, re-started a dormant faculty development program, and worked with our team to standardize and improve the process, content, and delivery of faculty clinical teaching evaluations within the department. Our GME programs then had substantial improvements for two years on the ACGME survey. We now have monthly faculty development meetings with a third of these covering education topics prioritized by needs assessment and the ACGME survey findings, and an annual education half-day retreat. Faculty evaluations are now distributed for both UME and GME education in a coordinated manner, and our team worked collaboratively to improve our faculty evaluation form based on current best evidence. We have built and operationalized a faculty scholarly activity database modeled after the one in the Department of Radiology. As vice-chair, I enjoy helping my education-focused colleagues through challenges, difficulties, and transitions, and in their educational scholarship.

XIV. ENTREPRENEURIAL ACTIVITIES

Completed i-corp program through Tuck-Thayer in winter 2016 to start work on commercialization of preassembled umbilical vein catheter system through neonatology vendors. Patent made it all the way to U.S. Patent Office and was ultimately denied due to prior similar international product patented in 2001 that was never commercialized. One of the neonatologists and I are currently working with a small neonatal device company since the 20-year window on the other patent has expired. I have also engaged in with Creare on a wearable device to measure newborn opioid withdrawal symptoms.

XV. MAJOR COMMITTEE ASSIGNMENTS, INCLUSIVE OF PROFESSIONAL SOCIETIES

Program Committee AAMC Spring GSA-OSR-CiM conference	2023-2024
Chair, Senior Associate Dean for Medical Education search committee	2020-2021
American Board of Pediatrics General Pediatrics MOCA-PEDS Examination Committee	2019-
SHM/AAP/APA Pediatric Choosing Wisely committee	2018-2021
Chair, Geisel Faculty Council	2017-2018
AAP Ankyloglossia Policy Report Committee member	2017-2023
American Board of Pediatrics Content Development Team—MOCA-PEDS Assessment Pilot	2016-2018
Committee on CME, Dartmouth-Hitchcock Medical Center	2016-2020
Finance committee, member, Geisel School of Medicine	2016
Physician resilience task force, member, DHMC	2016
Academic Cabinet, Department of Pediatrics	2016-2020

Leadership Council, Children's Hospital at Dartmouth-Hitchcock	2016-2020
Program Evaluation Committee, CHaD Pediatric Residency	2016-2020
PHM/APEX national faculty development program, core faculty member	2016-2017
AAP Hyperbilirubinemia Guideline Committee member	2015-2022
Geisel Faculty Council and Steering Committee member	2015-2019
Chair, Neonatal hospitalist subcommittee, AAP Section on Hospital Medicine	2015-2017
APA Education Committee liaison to PHM/APEX faculty development program	2015-2016
APA early career teaching award committee member	2014-2018
Geisel-DHMC Academic Council faculty compensation subcommittee	2014
AAMC Council of Faculty and Academic Societies (CFAS), Geisel faculty representative	2013-2017
Neonatal Abstinence Syndrome QI workgroup committee chair	2013-2015
Geisel curriculum redesign—clinical immersion subcommittee	2013-2014
CHaD Pediatric Residency Clinical Competency Committee (CCC), member	2013-2020
Pediatric Education Council, Geisel Department of Pediatrics, chair 2016-20	2012-2020
Geisel Admissions Committee	2012-2016
Academic Pediatric Association Region 1 co-chair	2012-2015
Governance Council, member, Concord Hospital Medical Group	2012
NH Pediatric Improvement Partnership Steering Committee member, chair 2011-2014	2011-2017
Academy of Breastfeeding Medicine protocol committee member	2011-2013
ACGME duty hours task force, member, NH Dartmouth FM residency	2010-2011
LPMR curriculum redesign committee, member, Leadership Preventive Medicine Residency, DHMC	2010-2011
Finance committee, member, Concord Hospital Medical Group	2010-2012
NH AAP chapter executive committee, treasurer	2008-2012
Clinical Quality Improvement committee, member, Concord Hospital Medical Group	2008-2010
Academy of Breastfeeding Medicine nominating committee member	2008
Curriculum committee, member, NH Dartmouth FM residency	2007-2012
Academic Pediatric Association pediatric teaching in the community special interest group co-chair	2007-2012
Nursery Practice committee, member, Concord Hospital	2006-2012
Pediatric order sets committee, chair, Concord Hospital	2006-2011
Intern selection committee, member, NH Dartmouth FM residency	2006-2011
Chair, Taskforce on Baby Friendly Hospital, Concord Hospital	2006-2010
Young Physician Section member of AAP Committee on CME	2006-2008
NH AAP chapter executive committee, member-at-large	2006-2008
NH Breastfeeding Taskforce, Member-at-large	2006-
Residents and Young Careerists subcommittee, chair, AAP Section on Hospital Medicine	2005-2006
AAP Section on Residents board, executive committee as secretary (2004-2005)	2003-2005

XVII. EDITORIAL BOARDS

<i>Hospital Pediatrics</i> , editorial board member	2016-19
<i>Breastfeeding Medicine</i> , editorial board member	2012-14

XVIII. JOURNAL AND CONFERENCE REFEREE ACTIVITY

Hospital Pediatrics (3-15 reviews/year)	2011-
Academic Pediatrics (1-4 reviews/year)	2010-
Pediatrics (2-4 reviews/year)	2008-
PAS Meeting—Workshops	2007-2023
PAS Meeting abstracts—General pediatrics, human milk, hospital medicine, medical education, QI	2006-
Applications for APA Quality Scholars	2016-2022
COMSEP abstracts and workshops	2014-2016
Applications for APA Educational Scholars	2010-2015
Journal of Hospital Medicine (2 reviews)	2010
AAP Young Physician grants	2009
Pediatric Hospital Medicine Meeting—conundrums, abstracts, workshops	2008, 2012-2016
Breastfeeding Medicine (2-4 reviews/year)	2006-2013
AAP NCE Section on Hospital Medicine (SOHM)	2006
Birth (1 review)	2005

XIX. AWARDS AND HONORS

Elected to American Pediatric Society	2023
Elected to Alpha Omega Alpha	2021
APA Teaching Award for Mid-career Faculty (national)	2020
APA Health Care Delivery Award for the Center for Addiction Recovery in Pregnancy and Parenting (national)	2019
AAP NH Chapter Special Achievement Award for regional work on NAS/NOWS	2019
Mentor for national APA resident research award to Kate MacMillan, MD, MPH	2018
Elected to Geisel Academy of Master Educators	2016
AAP NH Chapter Special Achievement Award for establishment of NHPIP	2015
AAMC Clinical Care Innovation Challenge Award for work in NAS/NOWS (national)	2015
Elected to Society for Pediatric Research	2014
Academy of Healthcare Improvement education award for LPMR developmental journey curriculum	2011
Faculty teaching award, NH Dartmouth family medicine residency	2011
Concord Hospital grateful patient (HALO) awards	2009, 2011
ABM International Meeting Best Platform Presentation	2005
UNC Pediatric Residency Edward Curnan Award (Clinical Excellence and Community Service)	2004
UNC Pediatric Residency Thomas F. Boat Resident Research Scholarship Award	2001, 2004
NSF Predoctoral Fellowship	1994
High Honors, Biology	1993
Phi Beta Kappa	1993

XX. INVITED PRESENTATIONS (*is individually invited, #is through competitive submission process, ^indicates CME) **Workshops and educational seminars not included—these are in the Educator Portfolio**

Clinical Pediatric Hospital Medicine Conference: Three talks—Hyperbilirubinemia, Neonatal opioid withdrawal, and the complex newborn*^	American Academy of Pediatrics	San Antonio, TX	January 2024
Clinical Pediatric Hospital Medicine Conference. Hyperbilirubinemia. *^	American Academy of Pediatrics	Online only	July 2024
Worth the Wait: The 2022 AAP Hyperbilirubinemia Guideline*^	Society for Hospital Medicine	Austin, TX	March 2023
Worth the Wait: The 2022 AAP Hyperbilirubinemia Guideline*^	Northern New England Perinatal QI Network	Bretton Woods, NH	November 2022
Tongue Tie: Truths, Myths and Unknowns *^	Northern New England Perinatal QI Network	Bretton Woods, NH	November 2022
Townsend Visiting Professorship: Worth the Wait: The 2022 AAP Hyperbilirubinemia Guideline*^	UAMS, Arkansas Children's Hospital	Little Rock, AR	November 2022
Quality Improvement, Patient Safety, and Systems-Based Improvement*^	American Academy of Pediatrics PHM Board Review Course	Elk Grove, IL (virtual)	October 2022
Worth the Wait: The 2022 AAP Hyperbilirubinemia Guideline*^	Yale-New Haven regional PHM Grand Rounds	New Haven, CT (virtual)	October 2022
Worth the Wait: The 2022 AAP Hyperbilirubinemia Guideline*^	Children's Hospital at Dartmouth-Hitchcock Grand Rounds	Lebanon, NH	September, 2022
Choosing Wisely in Newborn Medicine*^	Pediatric Academic Societies (International audience)	Denver, CO	April 2022
Updates in the management of newborn jaundice (on-line, on-demand only) *^	Society for Hospital Medicine	Nashville, TN	April 2022
Grand Rounds: Updates on the Clinical Learning Environment*^	Dartmouth-Hitchcock Medical Center (Given 9 times for 9 different departments)	Lebanon, NH	January-October, 2022
Choosing Wisely in Pediatric Hospital Medicine: Discussing five new recommendations for improved healthcare value#^	Pediatric Hospital Medicine	Virtual conference	August 2021
Grand Rounds: Mistreatment of Medical Students and Improving the Clinical Learning Environment *^	Dartmouth-Hitchcock Medical Center (Given 10 times for 10 different departments)	Lebanon, NH	October - December 2020

The 2020 Townshend Visiting Professorship: New approaches to NAS care—achieving the quadruple aim*^	UAMS, Arkansas Children's Hospital	Little Rock, AR (remotely)	October 2020
Clinical Pediatric Hospital Medicine. 2 talks: newborn screening (breakout) and hyperbilirubinemia (plenary) *^	American Academy of Pediatrics	Baltimore, MD (remotely)	August 2020
Rooming in for NAS*	Illinois perinatal care consortium (webinar)*	Chicago, IL	December 2019
Family-centered care for neonatal abstinence syndrome#^	American Academy of Pediatrics NCE	New Orleans, LA	October 2019
Baby-friendly Hospital Initiative: Challenges and Controversies of the Breastfeeding Program#^	American Academy of Pediatrics NCE	New Orleans, LA	October 2019
Geisel and the NRMP Match*	Geisel School of Medicine Alumni Reunion Program	Hanover, NH	October 2019
Department of Pediatrics Grand Rounds: New approaches to newborn opioid withdrawal*^	Weill-Cornell Medical School	New York, NY	May 2019
Neonatal team seminar: New approaches to newborn opioid withdrawal*	NYU-Langone School of Medicine	New York, NY	May 2019
Timing of newborn circumcision: Newborn Hot Topics*^	Pediatric Academic Societies (International audience)	Baltimore, MD	April 2019
Pathways to Leadership—panel member*	DH Women's Leadership event	New London, NH	November 2018
Looking ahead to the NRMP Resident Match-- the view for MD/PhD students*	Geisel MD-PhD annual retreat	Lake Morey, VT	October 2018
Keynote speaker, 2 plenary talks: NAS and ankyloglossia*^	Randall Children's Hospital Annual CME event	Portland, OR	September 2018
Advances in the care of opioid exposed newborns: Rooming-in and triple aim improvements*^	Geisel School of Medicine Alumni Reunion CME	Hanover, NH	September 2018
Platform session moderator: Newborn Medicine*^	Pediatric Academic Societies (International audience)	Toronto, ON	May 2018
Pediatrics PLACE webinar: Family-centered care for neonatal abstinence syndrome*^	UAMS, Arkansas Children's Hospital	Little Rock, AR (remotely)	May 2018
Family-centered care for neonatal abstinence syndrome*^	AAP National Conference	Chicago, IL	September 2017
Invited topic speaker: Achieving the triple aim for opioid-exposed newborns: Innovations in high quality, high-value, family-centered care for neonatal abstinence syndrome (NAS)# ^	Pediatric Hospital Medicine	Nashville, TN	July 2017
Invited science speaker: Achieving the triple aim for opioid-exposed newborns: Innovations in high quality, high-value, family-centered care for neonatal abstinence syndrome (NAS)# ^	Pediatric Academic Societies (International audience)	San Francisco, CA	May 2017
Platform session moderator: Newborn Medicine*^	Pediatric Academic Societies (International audience)	San Francisco, CA	May 2017
The opioid crisis for children and families; supporting recovery through pregnancy and parenting*^	AAMC Council on Faculty and Academic Societies	Orlando, FL	March 2017
Breakout session: All Hands on Deck! Addressing the Opioid Dilemma in Mothers and Infants#^	AAMC Council on Faculty and Academic Societies	Orlando, FL	March 2017
Clinical Pediatric Hospital Medicine. 3 plenary talks: NAS, jaundice and newborn emergencies*^	American Academy of Pediatrics	Tempe, AZ	January 2017
The opioid epidemic: Addressing the patient care continuum through academic medicine*	AAMC Webinar	Washington, DC	January 2017

The 2016 Denny Visiting Professorship: Improving care for opioid-exposed newborns: family-centered care at lower cost*^	University of North Carolina Children's Hospital	Chapel Hill, NC	October 2016
Pediatric Grand Rounds: Improving NAS care: family-centered care at lower cost*^	Moses Cone Hospital	Greensboro, NC	October 2016
Pediatric Grand Rounds: Improving NAS care: family-centered care at lower cost*^	Duke Children's Hospital	Durham, NC	October 2016
Knowledge café session leader (session for early career faculty): Finding your niche*	Pediatric Hospital Medicine	Chicago, IL	July 2016
Rooming-in to treat neonatal abstinence syndrome: Improved family-centered care at lower cost—newborn SIG keynote*^	Pediatric Academic Societies (International audience)	Baltimore, MD	May 2016
Newborn hot topics: jaundice, EOS and weight loss*^	Society for Hospital Medicine	San Diego, CA	March 2016
Rooming-in to treat neonatal abstinence syndrome: Improved family-centered care at lower cost*^	Grand Rounds, Department of Pediatrics, University of New Mexico	Albuquerque, NM	March 2016
Rooming-in to treat neonatal abstinence syndrome: Improved family-centered care at lower cost*^	Grand Rounds, Department of Pediatrics, St. Vincent Regional Medical Center	Santa Fe, NM	March 2016
Newborn symposium co-leader, 2 talks: Hot topics in newborn medicine, (jaundice, EOS, newborn weight loss) and Family centered care for neonatal abstinence syndrome * ^	CHaD annual CME conference	Bretton Woods, NH	March 2016
Rooming-in to treat neonatal abstinence syndrome: Improved family-centered care at lower cost*	AAMC Congressional briefing	Washington, DC	January 2016
Improved family-centered care at lower cost: Rooming-in to treat neonatal abstinence syndrome*^	Pediatric conference, St. Joseph's Hospital	Nashua, NH	October 2015
Beyond Bhutani and Bilitool: Current issues in newborn jaundice*^	NHAAP conference	Concord, NH	September 2015
Improved family-centered care at lower cost: Rooming-in to treat neonatal abstinence syndrome*^	Grand Rounds, Value Institute, DHMC	Lebanon, NH	August 2015
2 talks: The epidemiological evidence for the importance of breastfeeding exclusivity for mothers and infants, and Practical, evidence-based approaches to ankyloglossia*^	Keynote speaker, NH Breastfeeding Taskforce annual conference	Concord, NH	June 2015
Platform session moderator: Hospital Medicine*^	Pediatric Academic Societies (International audience)	San Diego, CA	April 2015
Clinical Pediatric Hospital Medicine. 3 talks: newborn jaundice, late prematurity and newborn screening*^	American Academy of Pediatrics	San Diego, CA	January 2015
The epidemiological evidence for the importance of breastfeeding exclusivity*^	Grand Rounds, Department of OB/GYN, the Geisel School of Medicine	Lebanon, NH	November 2014
The epidemiological evidence for the importance of breastfeeding exclusivity—2 webinars*^	Maine Let's Go	Portland, ME	May and August 2014
Women in Medicine SIG panel: Leaning in without falling over*	Pediatric Academic Societies (International audience)	Vancouver, BC	May 2014
Platform session moderator: Hospital Medicine*^	Pediatric Academic Societies (International audience)	Vancouver, BC	May 2014
NHPIP: Pediatric public health priorities meet clinical practice through QI methods*	Pediatric conference, Concord Hospital	Concord, NH	March 2014

The epidemiological evidence for the importance of breastfeeding exclusivity*^	Grand Rounds, Department of Pediatrics, the Geisel School of Medicine	Lebanon, NH	November 2013
NHPIP: Pediatric public health priorities meet clinical practice through QI methods*	Noon conference, pediatric FQHC	Gorham, NH	November 2013
NHPIP: Pediatric public health priorities meet clinical practice through QI methods*^	Primary Care Grand Rounds, the Geisel School of Medicine	Lebanon, NH	November 2013
NHPIP: Pediatric public health priorities meet clinical practice through QI methods*^	Primary Care Grand Rounds	Nashua, NH	November 2013
The epidemiological evidence for the importance of breastfeeding exclusivity, QI for breastfeeding at your institutions*^	Maine Let's Go conference	Portland, ME	November 2013
NHPIP: Pediatric public health priorities meet clinical practice through QI methods*	Noon conference, pediatric FQHC	Woodsville, NH	October 2013
NHPIP: Pediatric public health priorities meet clinical practice through QI methods*	Morning conference, DH Pediatrics	Keene, NH	September 2013
NHPIP: Pediatric public health priorities meet clinical practice through QI methods*	Morning conference, Monadnock Hospital	Peterborough, NH	September 2013
Topic Symposium speaker: Formula for Breastfed Babies in the Newborn Nursery: Nutritional Alternative or Achilles Heel of Breastfeeding?*^	Pediatric Academic Societies (International audience)	Washington, DC	May 2013
Exclusive breastfeeding and supplementation in the newborn nursery *^	AAP PREP Audio	Recorded for CME podcast	May 2013
Panel participant: Establishing a breastfeeding medicine practice—the hospitalist model *	Academy of Breastfeeding Medicine (International audience)	Chicago, IL	October 2012
The epidemiological evidence for the importance of breastfeeding exclusivity*^	NH Breastfeeding Taskforce	Concord, NH	September 2012
NH Ten Steps to breastfeeding improvement *	NHAAP/NHAAFP/NHHA	Concord, NH	June 2012
Quality Improvement and the Ten Steps*^	NH Breastfeeding Taskforce	Concord, NH	March 2012
Breastfeeding Hot Topics 2011*^	Concord Hospital Grand Rounds	Concord, NH	October 2011
NH Ten Steps to breastfeeding improvement*^	NHAAP/NHAAFP/NHHA	Bedford, NH	March 2011
Panel participant: Breastfeeding Medicine practice models*	Academy of Breastfeeding Medicine (International audience)	San Francisco, CA	October 2010
Quality Improvement for Improved Breastfeeding at Your Institution*^	NH AAP chapter CME day	Concord, NH	May 2009
Women in Medicine SIG panel: Is It Gender or Generation?: Understanding the Issues Facing the Pediatric Workforce*^	Pediatric Academic Societies (International audience)	Honolulu, HI	May 2008
Topic Symposium Moderator: FOPO Task Force on Women in Pediatrics: Considerations for Part-time Training and Employment for Research-Intensive Fellows and Faculty*^	Pediatric Academic Societies (International audience)	Honolulu, HI	May 2008
Poster symposium moderator: Human Milk or Breastfeeding*^	Pediatric Academic Societies (International audience)	Honolulu, HI	May 2008
Creating a Breastfeeding Friendly Office and Hospital*^	Concord Hospital Grand Rounds	Concord, NH	September 2007
Topic Symposium speaker: Pregnancy, Lactation and Parental Leave During Pediatric Training*^	Pediatric Academic Societies (International audience)	San Francisco, CA	May 2006

XXI. BIBLIOGRAPHY (Names of student, resident and fellow co-authors are underlined) [h-index 2023=20].

A1. Most significant peer reviewed publications

1. **Holmes AV**, Atwood EC, Whalen B, Beliveau J, Jarvis JD, Matulis JC, Ralston SL. Rooming-in to treat neonatal abstinence syndrome: Improved family-centered care at lower cost. *Pediatrics*. 2016;137(6):e20152929.
2. MacMilan KL, Rendon CP, Verma K, Washer DB, Riblet N, **Holmes AV**. Rooming-in for neonatal abstinence syndrome: A systematic review and meta-analysis. *JAMA Pediatrics*, 2018;172(4):345-351.
3. Atwood EC, Sollender G, Hsu E, Arsnow C, Flanagan V, Celenza J, Whalen B, **Holmes AV**. A Qualitative Study of Family Experience with Hospitalization for Neonatal Abstinence Syndrome. *Hospital Pediatrics*, 2016; 6(10):626-632.
4. **Holmes AV**, Peltier CB, Hanson JL, Loprieto JO. Writing Medical Student and Resident Performance Evaluations: Beyond "Performed as Expected". *Pediatrics* 2014;133(5):766-768.
5. **Holmes AV**, Yerdon-McLeod A, Kramer S, Thesing C, Howard CR. Physician breastfeeding education leads to practice changes and improved clinical outcomes. *Breastfeeding Med* 2012;7:403-8.

A2. All other peer reviewed publications

1. Franzusoff A, **Volpe AM**, Josse D, Pichuantes S, Wolf JR. Biochemical and genetic definition of the cellular protease required for HIV-1 gp160 processing. *J Biol Chem* 1995;270:3154-9.
2. **Volpe AM**, Horowitz H, Grafer CM, Jackson SM, Berg CA. *Drosophila rhino* encodes a female-specific chromo-domain protein that affects chromosome structure and egg polarity. *Genetics* 2001;159:1117-34.
3. **Holmes AV**, Cull W, Socolar RRC. Part-time residency positions in pediatrics. *Pediatrics* 2005;116:32-37.
4. **Holmes AV**, Chin NP, Kaczorowski J, Howard CR. A barrier to exclusive breastfeeding for WIC enrollees: Limited use of exclusive breastfeeding food package for mothers. *Breastfeeding Med* 2009;4(1): 25-30.
5. Alexander D, Boat T, Britto M, Burke A, **Holmes A**, Sectish T, Stanton B, Stevenson D. Federation of Pediatric Organizations Task Force on Women in Pediatrics: Considerations for part-time training and employment for research-intensive fellows and faculty. *Journal of Pediatrics* 2009;154(1):1-3.
6. **Holmes AV**, Auinger P, Howard CR. Combination feeding of breastmilk and formula: Evidence for shorter breastfeeding duration from the National Health and Nutrition Examination Survey 1999-2006. *Journal of Pediatrics* 2011;159(2):186-191.
7. Daru JA, **Holmes AV**, Starmer AJ, Aquino J, Rauch D. Pediatric Hospitalists' Influences on Education and Career Plans. *Journal of Hospital Medicine* 2012;7(4):282-6.
8. Marinelli KA, Bunik M, Noble L, Brent N, Grawley AE, **Holmes AV**, Lawrence RA, Powers NG, Seo T, Taylor JS. Breastfeeding support for mothers in workplace employment or educational settings: summary statement. *Breastfeed Med*. 2013;8(1):137-42.
9. Grawley AE, Marinelli KM, **Holmes AV**, and the Academy of Breastfeeding Medicine. ABM Clinical Protocol #14: Breastfeeding-friendly physician office: Optimizing Care for Infants and Children, Revised 2013. *Breastfeeding Med* 2013;8(2):237-242.
10. **Holmes AV**, Kennedy M, Yerdon-McLeod A, Bunik M, and the Academy of Breastfeeding Medicine. ABM Clinical Protocol #5: Peripartum Breastfeeding Management for the Healthy Mother and Infant at Term. *Breastfeeding Med* 2013;8(6):469-73.
11. Wight N, Marinelli K, Bunik M, Noble L, Brent N, Grawley AE, **Holmes AV**, Lawrence RA, Seo T, Taylor JS, and the Academy of Breastfeeding Medicine. ABM Clinical Protocol #1: Guidelines for blood glucose monitoring and treatment of hypoglycemia in term and late-preterm neonates, revised 2014. *Breastfeeding Med* 2014;9(4):173-179.

12. Whalen BL, Kelly, J, **Holmes AV**. The New Hampshire Ten Steps to Successful Breastfeeding Collaborative: A Statewide QI Initiative. *Hospital Pediatrics*, 2015;5(6):315-323.
13. Jones HE, Seashore C, Johnson E, Horton E, O'Grady K, Andringa K, Grossman MR, Whalen B, **Holmes AV**. Psychometric Assessment of the Neonatal Abstinence Scoring System and the MOTHER NAS Scale. *American Journal on Addictions*, 2016;25(5):370-3.
14. Rideout M, Held M, **Holmes AV**. The didactic makeover: making the most of active learning strategies. *Pediatrics* 2016; 138(1):e20160751.
15. Ralston SL, Atwood EC, Garber MD, **Holmes AV**. What Works to Reduce Unnecessary Care in Bronchiolitis? A Qualitative Analysis of a National Collaborative. *Academic Pediatrics*, 2017;17(2):198-204.
16. **Holmes AV**, Long M, Stallworth J. We can teach how to bend the cost curve: Lessons in high value healthcare in pediatrics. *Pediatrics*, 2017;139(3):e20164016.
17. Matulis JM, Mecchella JN, Liu SK, North F, **Holmes AV**. Choosing Wisely: A quality improvement project to decrease unnecessary preoperative testing. *BMJ Quality Improvement Reports*, 2017;6(1):u216281.w6691.
18. Andrews CB, Whatley C, Smith M, Brayton E, Simone S, **Holmes AV**. Quality improvement effort to reduce hypothermia among high-risk infants on a mother-baby unit. *Pediatrics*. 2018;141(3):e20171214.
19. Chan PS, Penna F, **Holmes AV**. Gomco vs. Mogen?: No effect on circumcision revision rates. *Hospital Pediatrics*, 2018;8(10):611-14.
20. Gievers LL, **Holmes AV**, Loyal J, Larson IA, Oliveira CR, Waldman EH, Khaki S. Ethical and public health implications of targeted screening for congenital cytomegalovirus. *Pediatrics*, 2020;146(1):e20200617.
21. Weinstein AR, Amerault CJ, Chapman SH, LaMonica AF, **Holmes AV**. Enhancing empathy in medical students: Family-faculty members facilitate patient-centered reflection. *Academic Pediatrics*, 2020;20(7):1037-40.
22. Kilmartin KC, McCarty EJ, Shubkin C, **Holmes AV**. Reducing outpatient infant serum blood draws with transcutaneous measurement of bilirubin. *Pediatr Qual Safety*. 2020;4(5):1-6.
23. Tchou M, Lossius M, Alvarez F, Lee V, **Holmes AV**, Rajbhandari P, O'Callaghan J, Schondelmeyer A, Soung P, Quinonez R. Choosing Wisely, Pediatric Hospital Medicine: Five things physicians and patients should question. American Board of Internal Medicine Foundation: January 11, 2021. Available at: <https://www.choosingwisely.org/societies/pediatric-hospital-medicine-shm-aap-apa/>.
24. Tchou M, Lossius M, Alvarez F, Lee V, **Holmes AV**, Rajbhandari P, O'Callaghan J, Schondelmeyer A, Soung P, Quinonez R. Choosing Wisely in Pediatric Hospital Medicine: five new recommendations to improve value. *Hospital Pediatrics*. 2021;11(11):1179-90.
25. Ralston SR, **Holmes AV**, Suresh G, Hyman D, Brady PW. Do We Really Need a Scholarly Quality Improvement Workforce? *Pediatrics*. 2022;149(S3):e2020045948F.
26. Mondezlewski L, Mu TS, Michal AC, Ward JS, Cheng L, Chen M, Riffenburgh R, **Holmes AV**. Timing of Circumcision and Breastfeeding Frequency: A Randomized Clinical Trial. *Hospital Pediatrics*, 2022;12(6):555-560.
27. Dallaghan GB, Alexander SM, Page C, **Holmes AV**, Byerley J. Reflections on Part-Time Residency Training, 15-25 Years Later: A Qualitative Study on Wellness and Career Impact. *Teach Learn Med*. 2022;17:1-8.
28. Whatley C, Schlogl J, Whalen BW, **Holmes AV**. Reducing newborn falls while preserving rooming-in on a mother-baby unit. *Joint Commission Journal*, 2022;48(10):521-8.
29. Kemper AR, Newman TB, Slaughter JL, Maisels MJ, Watchko JF, Downs SM, Grout RW, Bundy DG, Stark AR, Bogen DL, **Holmes AV**, Feldman-Winter LB, Bhutani VK, Brown SR, Panayotti GM, Okechukwu K, Rappo PD, Russell, TL. Clinical Practice Guideline Revision: Management of Hyperbilirubinemia in the Newborn Infant 35 or More Weeks of Gestation. *Pediatrics*. 2022;150(3):e2022058859.

30. Thomas J, Bunik M, **Holmes AV**, Keels MA, Poindexter B, Meyer A, Gilliland A, Section on Breastfeeding, Council on Quality Improvement and Patient Safety, Section on Oral Health, Committee on Fetus and Newborn, and Section on Otolaryngology. Identification and Management of Ankyloglossia and its Effect on Breastfeeding in Infants. *Pediatrics*. 2024; in press.

A3. All other non-peer reviewed publications

a) **Non-peer reviewed publications**

1. Krugman SD, Tepperberg S, Gauthier C, Middleton D. Eds. Kitteridge D, Rana D, Kuo, D, Williams T, Simasek M, **Holmes AV** et al. Guidelines for the Care of Children for Family Medicine Residents. March 2011. Available from: <http://www.academicpeds.org/education/pdfs/GFCOCforFamilyMedicineResidents.pdf>.
2. **Holmes AV**, Stallworth J, Long M, King MA, et al. The COMSEP curriculum taskforce. High Value Care Resources for pediatric medical student education. Available from: <http://www.comsep.org/educationalresources/highvaluecareresources.cfm>
3. Weinstein AR, **Holmes AV**. Evidence Based Medical Education: Team Based Learning. Formerly available: www.geisel/ebme/tbl. June 2014.
4. **Holmes AV**, Jones HG, Christensen BC. Breastfeeding and Cancer Prevention. Emerging Issues Brief; New Hampshire Comprehensive Cancer Collaboration, April 2017.
5. **Holmes AV**. Newborn Congenital Heart Disease Screening. *Parenting New Hampshire*, May, 2017.

b) **Invited Editorials**

1. **Holmes AV**, Howard CR. How do we support women and families in breastfeeding? *Academic Pediatrics*, 2010;10:1-2.
2. Whalen BL, **Holmes AV**. Neonatal abstinence syndrome and the pediatric hospitalist. *Hospital Pediatrics*, 2013;3(4):324-5.
3. MacMilan KL, **Holmes AV**. Neonatal abstinence syndrome and the pediatric hospitalist: 5 years later. *Hospital Pediatrics*, 2018;8(1):51-52.
4. **Holmes AV**. Is breast still best from a bottle? *Pediatrics*, 2018;142(4):e20182297.

c) **Reviews**

1. **Holmes AV**. Establishing successful breastfeeding in the newborn period. *Pediatr Clin N Am* 2013;60(1):147-68. [Invited by editors].
2. COMSEP Journal Club. Review of: Soares WE et al. Comparison of the multiple-mini-interview with the traditional interview for U.S. emergency medicine residency applicants: A single institution experience. *Acad Med* 2015;90(1):76-81. February 2015.
3. COMSEP Journal Club. Review of: Shah N, Levy AE, Moriates C, Arora VM. Wisdom of the crowd: Bright ideas and innovations from the teaching value and choosing wisely campaign. *Acad Med* 2015;90(5):624-8. June 2015.
4. COMSEP Journal Club. Ferguson CC, Lamb G. Review of: A Scholarly Pathway in Quality Improvement and Patient Safety. *Acad Med* 2015;90(10):1358-62. December 2015.
5. Grossman MR, Seashore C, **Holmes AV**. Neonatal Abstinence Syndrome Management: A Review of Recent Evidence. *Reviews on Recent Clinical Trials: Care of the Hospitalized Child*. Eds. Lindsay Chase and Michael Steiner. 2017;12(4):226-232. [Invited by editors].
6. Whalen BL, **Holmes AV**, Blythe S. Models of care for neonatal abstinence syndrome: What works? *Seminars in Fetal and Neonatal Medicine*, 2019;24:121-132. [Invited by editors].
7. Reese K, **Holmes AV**. Parental Substance Use Disorder and Neonatal Opioid Withdrawal Syndrome in Rural Environments. *Pediatr Clin N Am* 2024;in press [Invited by editor].

d) Book chapter

1. **Holmes AV.** Chapter 16, Neonatal Abstinence Syndrome. In: Pediatric Hospital Medicine Core Competencies. Society for Hospital Medicine: 2020. Eds. F Alvarez and J Maniscalco. [Invited by editors].

e) Case reports

1. **Volpe A,** Willert J, Ihnken K, Treyner E, Moss L. Metastatic appendiceal carcinoid tumor in a young child. *Med Pediatr Oncol* 2000;34(3):218-20.
2. **Holmes AV,** Akintemi O. Pediatric Puzzler: Have you covered all your bases? *Contemporary Peds* 2004;21(9) 29-32.
3. Mirafior AP, Ghajar LD, Subramanian S, de Abreu FB, Castenedo-Tardan MP, Samie FH, Mann JA, **Holmes AV,** Tsongalis GJ, Yan S. Rat-bite fever: An uncommon cause of fever in a 9-year-old-patient. *JAAD* 2015; 24;1(6):371-4.

f) Letter to the editor

1. **Holmes AV,** Loprieto JO, Peltier CB, Hanson JL. An embarrassment of riches. In response to a letter regarding "Writing Medical Student and Resident Performance Evaluations: Beyond "Performed as Expected". *Pediatrics* July 18, 2014. Available online at: http://pediatrics.aappublications.org/content/133/5/766/reply#pediatrics_el_63520.

B. Other scholarly work

a) CME Podcasts

1. Flaherman V, **Holmes AV.** AAP PREP Audio, 2013
2. **Holmes AV,** Shimotake T. #45 Neonatal Hyperbilirubinemia: Their Future's so Bright, They Gotta Wear Shades! The Cribsiders, Pediatric Medicine (Curbsiders) Newborn Jaundice, February, 2022.
3. **Holmes AV.** Reviewing the clinical practice guideline updating the management of hyperbilirubemia in the newborn 35 weeks or more. PHM from Pittsburgh. December, 2022.

b) Op-Eds

1. **Holmes AV.** A plan to treat opioid-addicted newborns that helps families and saves tax dollars. *The Hill.* March 8, 2018.
2. **Holmes AV.** I'm a doctor caring for opioid-addicted newborns. Here's what I need to help them. *Reuters.* June 18, 2018.
3. **Holmes AV,** Abaza MM. Ideas for easing medical students' Match Day 'frenzy'. *STAT News.* March 15, 2019.

C. CONFERENCE ABSTRACTS (#indicates selective review process)

1. **Volpe AM,** Berg CA. *rhino*: a female sterile gene required for dorsal-ventral patterning in the egg. Poster at the 35th Annual *Drosophila* Meeting of the Genetics Society of America. Atlanta, GA, April 1995.#
2. **Volpe AM,** Berg CA. *rhino* is a female sterile, chromobox-containing gene required for proper dorsal-ventral patterning and chromatin condensation in the egg. Poster presentation at the 36th Annual *Drosophila* Meeting of the Genetics Society of America. San Diego, CA, April 1996.#
3. **Volpe AM,** Neale D, Litt IF. Long term menstrual outcome in eating disorders: a 15 year follow up study. Platform presentation at the Western Society for Pediatric Research, Carmel, CA, February 2000.#
4. **Holmes AV,** Cull W, Socolar RRC. Part-time residency positions in pediatrics: Description of current practice. Poster presentation at Pediatric Academic Societies, Washington, DC, May, 2005.#
5. **Holmes AV,** Auinger P, Miyoshi T, Weitzman M, Howard CR. Combination feeding: A first description. Poster Symposium at the 75th American Academy of Pediatrics National Conference and Exhibition, Washington, DC, October, 2005. Platform Presentation at the Academy of Breastfeeding Medicine, Denver, CO, October, 2005. Poster Symposium at the Pediatric Academic Societies, San Francisco, CA, April, 2006.#

6. **Holmes AV**, Chin NP, Kaczorowski J, Howard CR. "I know they offer me only just tuna": Why do breastfeeding mothers enrolled in WIC opt for formula instead of food? Platform Presentation at the Academy of Breastfeeding Medicine, Niagara Falls, NY, September, 2006. Poster Symposium at the Pediatric Academic Societies, Toronto, ON, May, 2007.#
7. Daru JA, **Holmes AV**, Jost A, Aquino J, Rauch D. The effect of pediatric hospitalists on resident career choices: a national survey. Poster presentation at AAP NCE, San Francisco, CA, October, 2007. Poster presentation at Pediatric Academic Societies, Honolulu, Hawaii, May 2008.#
8. Daru JA, Jost A, **Holmes AV**, Aquino J, Rauch D. The effect of pediatric hospitalists on resident education: a national survey. Poster presentation at AAP NCE, San Francisco, CA, October, 2007. Poster presentation at Pediatric Academic Societies, Honolulu, Hawaii, May 2008.#
9. Ward SC, Manning L, Rechisky A, **Holmes AV**, Geffken DG. Improving Immunization Rates of 2-year-olds in a Community Health Center Based Residency Program. Platform presentation at Society for Teachers of Family Medicine Conference on Practice Improvement, Savannah, GA, December, 2008.#
10. **Holmes AV**, Yerdon-McLeod A, Kramer S, Wells M, Thesing C, Howard CR. Physician Breastfeeding Education Leads To Practice Changes, and Improved Clinical Outcomes. Poster presentation at Pediatric Academic Societies, Baltimore, MD, May 2009. Platform presentation at Academy of Breastfeeding Medicine International Conference, Williamsburg, VA, November 2009.#
11. Kelly J, Whalen B, **Holmes AV**. A survey of New Hampshire birthing hospitals maternity care practices affecting breastfeeding. Poster presentation at Academy of Breastfeeding Medicine International Conference, Miami, FL, November 2011.#
12. Morse JM, **Holmes AV**, Valeras A, Geffken D, Eubank D. Improving the Discharge Process from Concord Hospital to Home. Poster presentation at American College of Preventive Medicine National Conference, Orlando, FL, February 2012.#
13. Whatley C, Hsu E, Beaudoin E, Mudge B, Ansari R, Jarvis JD, McCoy C, Koerlein K, **Holmes AV**, Whalen BL. Improving care of the newborn with neonatal abstinence syndrome via a novel inter-rater reliability Finnegan scoring tool. Poster presentation at Vermont Oxford Network Annual Meeting and Quality Congress, Chicago, IL, October 2013.#
14. Sollender G, Whalen BL, Celenza J, Dalle Ore C, LaRock T, Swasey E, Whatley C, **Holmes AV**. Use of a qualitative interview to inform and improve family-centered care of infants at risk for or with Neonatal Abstinence Syndrome. Poster presentation at Vermont Oxford Network Annual Meeting and Quality Congress, Chicago, IL, October 2013.#
15. Kelly J, Whalen BL, **Holmes AV**. The New Hampshire Ten Steps to Successful Breastfeeding Collaborative: A Statewide Quality Improvement Initiative. Poster presentation at Academy of Breastfeeding Medicine International Conference, Philadelphia, PA, November 2013, and at the Pediatric Academic Societies, Vancouver, BC, May 2014.#
16. Alvarez HK, **Holmes AV**, Valeras A, Homa K, Taylor D, Finn P, Orzano JA. Connecting pregnant cigarette smokers to cessation resources. Institute for Healthcare Improvement: The 25th Annual National Quality Forum. Orlando, FL, December 2013.#
17. Sohn JK, Piccioli MR, **Holmes AV**, Weinstein AR. Team-Based Learning in Pediatric Orientation Improves Learner Understanding of Objectives. Poster presentation at COMSEP, Ottawa, ON, March 2014, and at the Pediatric Academic Societies, Vancouver, BC, May 2014.#
18. Atwood EC, Hsu E, Sollender G, Arsnow C, Flanagan V, Swasey E, Celenza J, MA, Whalen B, **Holmes AV**. Improving family-centered care through greater understanding: A qualitative study of family experience with hospitalization for Neonatal Abstinence Syndrome (NAS). Poster symposium presentation at Vermont Oxford Network Annual Meeting and Quality Congress, Chicago, IL, October 2014 and at the Pediatric Academic Societies, San Diego, CA, April 2015; plenary platform presentation at the Pediatric Hospital Medicine conference, San Antonio, TX, July 2015.#
19. Jaramillo C, Weinstein A, Chapman S, **Holmes AV**. Furthering humanism through family faculty members: A qualitative study of written reflections by third-year pediatric clerks. Poster presentation at COMSEP, New

Orleans, LA, March 2015, and poster symposium presentation at the Pediatric Academic Societies, San Diego, CA, April 2015.#

20. Atwood EC, **Holmes AV**, Ralston SL. What Factors Affect Clinical Change? A Qualitative Analysis of Barriers and Success in a National Bronchiolitis Improvement Collaborative. Poster presentation at the Pediatric Academic Societies, San Diego, CA, April 2015.#
21. **Holmes AV**, Atwood EC, Whalen BL, Jarvis JD, Matulis J, Ralston SL. Neonatal Abstinence Syndrome: A Quality Improvement Initiative. Platform presentation at the Pediatric Academic Societies, San Diego, CA, April 2015 and at the Pediatric Hospital Medicine conference, San Antonio, TX, July 2015.#
22. Matulis JM, **Holmes AV**. Choosing Wisely in Primary Care: Re-designing Dartmouth-Hitchcock's General Internal Medicine (GIM) preoperative evaluation process to decrease unnecessary testing and improve efficiency. Poster presentation at Society for General Internal Medicine, regional, Boston, MA, March, 2015 and national, Toronto, ON, April, 2015.
23. Arsnow C, Braga M, **Holmes AV**. Clinical Conundrum: A sleepy baby with a stuffy nose. Poster presentation at the Pediatric Hospital Medicine conference. San Antonio, TX, July 2015.#
24. Martin S, Fay C, **Holmes AV**. Clinical Conundrum: Hungry Eyes: A Case of Nystagmus. Poster presentation at the Pediatric Hospital Medicine conference. San Antonio, TX, July 2015.#
25. Breuer C, Smith M, Beaudoin E, Whatley C, **Holmes AV**. Reducing Hypothermia Among High-Risk Infants on a Mother-baby Unit. Platform presentation at the Academic Pediatric Association Region I meeting, Boston, MA, March, 2016, the Pediatric Hospital Medicine conference, Chicago, IL, July, 2016, and at the Pediatric Academic Societies, San Francisco, CA, May 2017.#
26. Weinstein AR, Loscalzo KL, Emerson MP, **Holmes AV**. Lessons from Peer Feedback on the Pediatrics Clerkship. Platform presentation at the COMSEP annual meeting, Saint Louis, MO, April, 2016, and poster presentation at the Pediatric Academic Societies, Baltimore, MD, May 2016.#
27. Kailani L, Andrews MM, Barns BG, Homa K, Beaulieu DK, **Holmes AV**. Cultures pending at discharge: Systematically closing the loop to improve patient safety. Poster presentation at ID Week 2016, New Orleans, LA, October 2016.#
28. House SA, O'Neil M, Porter J, **Holmes AV**, Olson A, Tutko H. Developmental Screening Quality Improvement Initiative: A Learning Collaborative of the New Hampshire Pediatric Improvement Partnership. Poster presentation at the American Academy of Pediatrics National Conference and Exhibition, San Francisco, CA October 2016.#
29. MacMilan KL, Rendon CP, Verma K, Washer DB, **Holmes AV**. Rooming-in reduces medication use and length of stay in neonatal abstinence syndrome: A systematic review and meta-analysis. Platform presentation at the Pediatric Academic Societies, San Francisco, CA, May 2017, and plenary platform at the Pediatric Hospital Medicine conference, Nashville TN, July 2017.#
30. MacMilan K, Hamel A, Flanagan V, **Holmes AV**, Whalen BL. Implementation of the Eating, Sleeping, Consoling (ESC) function-based care tool for Neonatal Abstinence Syndrome. Poster presentation at Academic Pediatric Association Region 1 conference, Waltham, MA, March 2018, and poster symposium presentation at the Pediatric Academic Societies, Baltimore, MD, April 2019.#
31. Chan PS, Penna F, **Holmes AV**. Gomco or Mogen?: No effect on circumcision revision rates. Poster presentation at the Pediatric Academic Societies, Toronto, ON, May 2018. Featured as a "Top 10" newborn medicine poster.#
32. MacMillan K, Whalen BL, Flanagan V, Chen S, Harris KR, Swasey E, **Holmes AV**. Understanding Family Perspectives: A Follow-Up Qualitative Study of Family Experience with Hospitalization for Neonatal Abstinence Syndrome. Platform presentation at the Pediatric Academic Societies, Toronto, ON, May 2018.#
33. Mondezlewski L, Mu TS, Michal AC, Ward JS, Verma K, Tauber K, **Holmes AV**. Timing of Circumcision and Breastfeeding Frequency: A Randomized Clinical Trial. Platform presentation at the Pediatric Academic Societies, Toronto, ON, May 2018.#

34. Kilmartin KC, McCarty EJ, Shubkin C, **Holmes AV**. Reducing outpatient infant serum blood draws with transcutaneous measurement of bilirubin. Platform presentation at Academic Pediatric Association Region 1 conference, Waltham, MA, March 2019, and poster presentation at the Pediatric Academic Societies, Baltimore, MD, April 2019.#
35. Ricker AD, McAllister S, Jaeger M, Gustafson A, Cook BS, Dick JF, **Holmes AV**. A Team Approach to the Medical Student Performance Evaluation (MSPE): Optimizing IT and Other Skill Sets. Poster presentation at the Association of American Medical Colleges Learn Serve Lead, Phoenix, AZ, November, 2019.#
36. Briggs A, DiBrigida S, Stern R, Jiang Y, Fuson H, Mullaney D, **Holmes AV**. A quality-improvement initiative using oral glucose gel to safely reduce the administration of IV dextrose for neonates with mild or moderate hypoglycemia. Accepted as poster presentation for the Academic Pediatric Association Region 1 conference, Waltham, MA, March 2020, the Pediatric Academic Societies Meetings, Philadelphia, PA, May, 2020 and for the Academic Pediatric Association QI conference, April, 2020 (all cancelled). Due to COVID-19 related conference cancellation, this peer-reviewed abstract and/or presentation was disseminated on 4/30/2020 to PAS 2020 Meeting Program Guide.#
37. Chan P, Bryant MC, Chen M, Holmes MR, House SA, Ralston SR, **Holmes AV**. Pediatric Clerkship Students' Reflections on Value in Healthcare: A Mixed Methods Analysis. Poster presentation at the Academic Pediatric Association Region 1 conference, Waltham, MA, March 2020, and at the Pediatric Academic Societies, Philadelphia, PA, May, 2020 (both cancelled). Due to COVID-19 related conference cancellation, this peer-reviewed abstract and/or presentation was disseminated on 4/30/2020 to PAS 2020 Meeting Program Guide. Presented at the Association for Medical Education in Europe as a virtual poster, September 2020.#
38. Whatley C, Schlogl J, Watkins-Aldrich A, Whalen BW, **Holmes AV**. Successful reduction of newborn falls on a mother-baby unit. Accepted as poster presentation for the Academic Pediatric Association Region 1 conference, Waltham, MA, March 2020, the Pediatric Academic Societies Meetings, Philadelphia, PA, May 2020 and for the Academic Pediatric Association QI conference, April, 2020 (all cancelled). Due to COVID-19 related conference cancellation, this peer-reviewed abstract and/or presentation was disseminated on 4/30/2020 to PAS 2020 Meeting Program Guide.#
39. Tchou M, Lossius M, Alvarez F, Lee V, **Holmes AV**, Rajbhandari P, O'Callaghan J, Schondelmeyer A, Soung P, Quinonez R. Let it Go: Development of the Latest Pediatric Hospital Medicine Choosing Wisely List Using Stakeholder-Identified Priorities. Poster presentation at Pediatric Hospital Medicine, Orlando, FL, July, 2020. Conference cancelled, presented virtually.#
40. Weinstein TC, **Holmes AV**. A qualitative study of resilience in clinical medical students. Poster presentation at the Association of American Medical Colleges Group on Student Affairs conference. Denver, CO. April, 2022.#
41. Lee J, Sherin M, Avery L, **Holmes AV**. Pregnancy, birth, and infancy: A mixed methods analysis of a preclinical elective pairing students with pregnant community partners. Poster presentation for the Academic Pediatric Association Region 1 conference, Waltham, MA, March 2023, the Pediatric Academic Societies Meetings, Washington, DC, April 2023.
42. Suresh A, Wechsler E, Ramin S, Greco K, Colaizzo D, Fairstone J, Ricker A, Kershaw C, Frew J, Crockett S, **Holmes AV**. Creating a Longitudinal Career Advising Program: Medical Student Involvement in a Career Advising Quality Improvement Committee. Platform presentation at the Association of American Medical Colleges Northeast Group on Student Affairs, Philadelphia, PA, April 2023 and poster presentation at the Association of American Medical Colleges Learn Serve Lead, Seattle, WA, November 2023.
43. Bashi A, Carhart B, Fontanet C, Huizenga H, Dick JF, Mishra M, **Holmes AV**. Addressing Learning Environment Concerns with a Student-Centered Closed-Loop Reporting System. Poster presentation at the Association of American Medical Colleges Northeast Group on Student Affairs, Philadelphia, PA, April 2023. Platform presentation at the Association of American Medical Colleges Learn Serve Lead, Seattle, WA, November 2023.

Updated by: Alison Holmes, October 17, 2023

Alison Volpe Holmes, MD, MS, MPH
Associate Professor of Pediatrics and of the Dartmouth Institute
Educator Portfolio
 September 12, 2023

Section A: Amount and diversity of teaching at all levels

UNDERGRADUATE MEDICAL EDUCATION

<u>DATES</u>	<u>INSTITUTION</u>	<u>NAME OF COURSE/ACTIVITY</u>	<u>ROLE</u>	<u>FREQUENCY</u>	<u>HOURS</u>
2003-2004	UNC School of Medicine	Pediatric clerkship	Small group leader	6x/year	6 hrs/yr
2004-2005	University of Rochester School of Medicine and Dentistry	Physician and Patient	Small group leader	6x/year	6 hrs/yr
2004-2005	University of Rochester School of Medicine and Dentistry	Pediatric clerkship	Clinical preceptor (pediatric primary care clinic)	4hrs per week every week	188 hrs/yr
2012-2013	Concord Hospital	Pediatric clerkship (Geisel)	Inpatient and nursery attending	6 weeks per year	216 hrs/yr
2013-17	Geisel School of Medicine at Dartmouth	2 nd year medical school SBM course	Small group leader	1-3 sessions per year	1-3 hr/year teaching, 3-8 hrs/year preparing
2013-2014	Geisel School of Medicine at Dartmouth	2 nd year medical school SBM course	Pediatric theme director	Oversight for 24 sessions per year	10 hrs/year coordinating, evaluating and planning
2013-17	Geisel School of Medicine at Dartmouth	2 nd year medical school SBM course	Large group session	1-3 hours per year on growth and development	1-3 hr/year teaching, 5-15 hrs/year preparing
2014-18	Geisel School of Medicine at Dartmouth	On Doctoring—the pediatric inpatient H&P	Clinical instructor	16-24 students per year	36 hours per year
2017-18	Geisel School of Medicine at Dartmouth	4 th year medical school Health, Society, and the Professions course	Course director	4-week course	180 hours per year
2012-	Geisel School of Medicine at Dartmouth	Pediatric clerkship	Inpatient or nursery attending	6-25 weeks per year	200-1000 hrs/yr
2014-20	Geisel School of Medicine at Dartmouth	4 th year medical school Health, Society and the Professions course	Project group leader	4 week course	30-35 hours per year
2018-19	Geisel School of Medicine at Dartmouth	4 th year medical school capstone course QI theme director	Course co-director	4 week course, QI project over 9 mo longitudinally	180 hours per year

GRADUATE EDUCATION

<u>DATES</u>	<u>INSTITUTION</u>	<u>NAME OF COURSE/ACTIVITY</u>	<u>ROLE</u>	<u>FREQUENCY</u>	<u>HOURS</u>
2007-18	Geisel School of Medicine at Dartmouth	Practicum review board for MPH degree	MPH reviewer	1-6x/yr	3-15 hrs/yr

GRADUATE MEDICAL EDUCATION

<u>DATES</u>	<u>INSTITUTION</u>	<u>NAME OF COURSE/ACTIVITY</u>	<u>ROLE</u>	<u>FREQUENCY</u>	<u>HOURS</u>
2004-2005	University of Rochester	Pediatric primary care clinic	Clinical preceptor	4hrs per week	188 hrs/yr
2004-2005	University of Rochester	Intern report	Facilitator	twice/mo	24 hrs/yr
2006-2007	Concord Hospital	Adolescent Medicine clinic	Clinical preceptor	4hrs per month	48 hrs/yr
2006-2009	NH Dartmouth FM residency	Breastfeeding Medicine curriculum	Develop, teach	4 hrs/week	200 hrs/yr
2006-2012	NH Dartmouth FM residency	Pediatric seminars	Develop, coordinate and teach	2 hrs/week	100hrs/yr
2006-2013	Concord Hospital	Pediatric ward/newborn nursery	Teaching attending	16-32 hours per week	750-1504 hrs/year
2007-2016	DHMC	LPMR classroom sessions	Lead or facilitate	2-4 hours per week	60-100 hrs/yr
2014-15	CHaD	Inpatient unit rotation director	Rotation director	Management of rotation issues	40hrs/yr
2012-	CHaD	Pediatric ward/newborn nursery	Teaching attending	6-25 weeks/yr	200-1200 hrs/yr
2013-	CHaD	Pediatric resident seminars—neonatal sepsis, hyperbilirubinemia, late preterm infant, newborn screening	Session leader	2-4 sessions/year	6-12 hours prep, 2-4 hrs presenting
2018-2029	DHMC	LPMR longitudinal writing seminar	Lead and facilitate	1 hour per week	40 hrs/yr

CONTINUING MEDICAL EDUCATION:

<u>DATES</u>	<u>NAME OF COURSE/ACTIVITY</u>	<u>ROLE</u>	<u>FREQUENCY</u>	<u>HOURS</u>
2009	Breastfeeding Medicine Update	Course coordinator	One day	20 in planning, 9 in event
2011-12	NH Ten Steps to Breastfeeding	Course co-coordinator	2, 1-day conferences	30 in planning, 18 in events
2012-14	Let's Go Maine	Assistant course coordinator	3, 1-hour webinars and 2, 1-day conferences	15 in planning, 12 in events
2013, 2014, 2015	APA region I meeting	Meeting co-coordinator	Full day conference	Annually, 10 in planning, 8 in event
2016	CHaD conference	Planning committee member	3-day conference	4 hours

[Did not include invited research or clinical topic talks at regional or national meetings that provide CME credit. These are listed on CV.]

INTERPROFESSIONAL EDUCATION:

<u>DATES</u>	<u>NAME OF COURSE/ACTIVITY</u>	<u>ROLE</u>	<u>FREQUENCY</u>	<u>HOURS</u>
2006-	Clinical updates for pediatric nursing staff	Speaker	1-6 times/yr	2-12 hr/yr
2014-2016	Neonatal simulation for nursing, pharmacy and medical students	Instructor/Facilitator	6 times/yr	18 hrs/yr
2018-19	IPE portion of capstone course	Theme leader	3 sessions yearly	15 hrs/yr

Section B: Quality of teaching in above activities (Tables followed by narrative for each section)**1. Evaluations of Pediatric Medical Student clinical education, July 2012 to present**

These are the results of student evaluations of my teaching as a pediatric hospital medicine attending physician for since AY 2012-2013. We changed our attending model to morning only in 2019, which was hard for the students. Thankfully, we are back to a full day model starting in 22-23 and it is easier to provide supervision and teaching now.

	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22
global	4.14	4.70	4.76	4.30	4.57	4.54	4.90	4.56	4.45	4.24
clinical role model	4.14	4.40	4.53	4.20	4.36	4.57	4.90	4.72	4.42	4.1
clinical supervisor	4.14	4.50	4.71	4.50	4.50	4.53	4.80	4.71	4.40	3.9
teacher	4.29	4.78	4.88	4.60	4.64	4.63	5.00	4.64	4.41	4.4
mentor	4.29	4.80	4.76	4.40	4.43	4.49	5.00	4.67	4.39	4.3

2. Evaluations of the Geisel Pediatric Clerkship course

	12-13	13-14	AY 14-15	15-16	16-17	17-18
Overall clerkship experience	4.25	4.24	4.51	4.05	4.16	4.05
Objectives were well designed and clearly presented	4.43	4.37	4.44	4.42	4.46	4.37
Expectations of students were clearly presented/evaluation methods clear	4.34	4.27	4.37	4.20	4.11	4.04
Clerkship directors were available and responsive to your concerns	4.60	4.59	4.76	4.55	4.59	4.50

3. Evaluations of PEDS 411, the Geisel pediatric inpatient sub-internship

	AY 12-13	AY 13-14	AY 14-15	AY 15-16	AY 16-17	AY 17-18
Overall sub-internship experience	3.80	4.00	4.80	N/A-low #s	4.60	4.50
Objectives were well designed and clearly presented	3.40	4.50	4.60	N/A-low #s	4.40	4.33
Expectations of students were well designed and clearly presented	3.40	4.50	4.60	N/A-low #s	4.60	4.33
Clerkship directors were available and responsive to your concerns	4.20	4.50	4.60	N/A-low #s	4.80	4.67
Quality of teaching by faculty	3.60	4.00	4.40	N/A-low #s	4.80	4.50

4. Evaluations of 3rd year Geisel medical student seminars

6 different seminar sessions for the pediatric clerkship. They are all interactive and many used team-based learning techniques (TBL), which are demonstrated to improve learner retention and application abilities.

	AY 12-13	AY 13-14	AY 14-15	AY 15-16	AY 16-17	AY 17-18
Orientation	4.38	4.21	4.38	4.28	4.24	N/A
Physical Examination Pearls	4.40	N/A	N/A	N/A	N/A	N/A
Medical Student Report	4.25	3.96	4.20	4.30	4.41	N/A
Fever (TBL)	4.23	4.19	4.21	4.33	4.37	4.25
Nutrition (TBL)	4.24	4.48	4.42	4.48	4.30	4.53
Newborn simulations	N/A	4.39	4.75	4.75	N/A	N/A
High value care in pediatrics	N/A	N/A	N/A	N/A	N/A	4.25

Orientation: in a TBL format.

Physical Examination Pearls: Session of exam skills on children (usually mine).

Medical Student Report: This is an interactive case-based discussion. The students who will be attending send in an interesting case from sometime during the clerkship. We pick one based on what will lead to an interesting

discussion and learning points in either differential diagnosis, knowledge of a particular diagnosis, or controversies in diagnosis and management.

Fever (TBL)—based on AAP guidelines

Nutrition (TBL): based on review article

Newborn simulations: We learn the basics of the Neonatal Resuscitation Program with senior nursing students from Colby-Sawyer.

High value care in pediatrics: Students are provided with the pediatric Choosing Wisely lists. They are asked to be “value detectives” and as such they are on the lookout for instances of low-value care during the clerkship. Near the end, they write a short blog post about their example. We all read each other’s, and then a faculty member leads a 1-hour facilitated discussion during the clerkship seminars.

3. Evaluations of other individual Geisel medical student sessions

I currently teach or have taught in regularly recurring sessions in On-Doctoring, CEI, SBM, and Capstone.

On Doctoring:

--**Inpatient H&Ps:** 10 to 12 afternoons per year, took a group of three 2nd year students to inpatient pediatrics to perform H&Ps. Start 2.5 hour session with an introduction to the pediatric H&P, find patients and families introduce students, hands-on demonstration of PE skills, help gather labs, medications and vital signs, listen to and critique oral presentations in group format.

AYs 2014-15, 2015-16—no evaluation data collected or available

--**Marion Cross Day:** Facilitate a group of 8-10 students as they conduct pediatric H&Ps with kindergarteners

AY 2014-15—no evaluation data collected or available

CEI: Procedure teaching: 2015 summer: 4.63 overall

M4 capstone: Pediatric ward skills:

AY2015-16: 4.36

SBM:

--**Preterm infants:** Facilitate small group session in respiratory physiology on premature infant

AYs 2014-15, 2015-16—no session evaluation data collected or available

--**Team-based learning (TBL) session on developmental milestones.** The students watch 10 iMovies that I have made and pre-recorded on the different early childhood milestones before class. The student groups then visit 10-12 stations with infants and young children for 2 minutes each to stage the child, and then return to the main classroom where I post photos of the children, and they hold up letter card answers of the age they think they are. In AY 13-14 I did a traditional lecture*, before changing to the TBL format in AY 14-15.

	AY 13-14*	AY 14-15	AY 15-16
Overall teaching rating	3.64/4.04	4.28/4.26	4.31/4.06

5. Course evaluations of Health, Society and the Professions/new capstone 2019- small groups [my group/course mean]

	AY 13-14	14-15	15-16	16-17	17-18	18-19
The overall quality of your work in the course	3.43/3.88	4.00/3.69	3.76/3.50	4.50/3.93	Not asked	Not asked
The overall quality of the course organization and planning	4.29/3.69	2.86/3.27	3.25/3.52	4.38/3.90		4.57/3.80
The overall effectiveness of the small group facilitator(s)-student interaction	3.14/4.02	4.29/3.93	4.37/3.97	4.38/3.86	4.50/3.83	4.43/4.15

The overall quality of your learning in the course	3.43/3.26	2.71/3.06	3.00/3.02	3.62/3.40	3.12	
Course effectiveness to Year IV students in the science of health care delivery	3.29/3.18	2.57/2.74	3.00/3.08	N/A		4.00/3.42
Effectiveness of final project presentation	Not asked	Not asked	Not asked	Not asked	Not asked	4.29/3.81
Pace and duration of the QI project effort	Not asked	Not asked	Not asked	Not asked	Not asked	4.29/3.59

6. Evaluations of Pediatric Resident clinical education

My teaching overall:

	AY 12-13	AY 13-14	AY 14-15	AY 15-16	AY 16-17	AY 17-18
Overall rating	3.78	4.41	4.44	4.38	4.25	4.42
clinical role model	N/A	N/A	N/A	4.10	unavail	4.46
clinical supervisor	N/A	N/A	N/A	4.15	unavail	4.46
teacher	N/A	N/A	N/A	4.30	unavail	4.77
mentor	N/A	N/A	N/A	4.09	4.20	4.54

New rating scales starting in 17/18

	17-18	18-19	19-20	20-21	21-22
Overall rating	4.47	4.66	4.95	4.80	4.58
clinical role model	4.46	4.71	4.93	4.88	5.00
professionalism	4.38	4.88	4.93	4.88	4.60
Interprofessional teamwork	4.38	4.57	4.86	4.88	4.60
clinical supervisor	4.46	4.62	4.93	4.75	4.40
teacher	4.77	4.71	5.00	4.88	4.80
coach	4.54	4.43	5.00	4.62	4.40
Rigorous learning environment	4.62	4.71	4.93	4.75	4.40
Supportive learning environment	4.15	4.62	5.00	4.75	4.40

Overall ratings of teaching **settings**:

	12-13	13-14	14-15	15-16	16-17	17-18
nursery	N/A	4.23	4.32	N/A	Not done	3.78
ward	3.77	4.09	4.06	N/A	Not done	3.92

7. Evaluations of Family Medicine Resident clinical education

These are summary clinical evaluations from 7 years (6 full academic years) of clinical teaching and supervised patient care at Concord Hospital in the NH Dartmouth Family Medicine Residency.

	2006-07	07-08	08-09	09-10	10-11	11-12
Explains concepts clearly	4.59	4.50	4.33	4.42	4.75	4.50
Allows hands on practice	4.33	4.43	4.50	4.47	4.65	4.62
Teaches at patient's side	4.50	4.57	4.63	Not inc.	Not inc.	Not inc.
Organizes learning	4.41	4.53	4.29	Not inc.	Not inc.	Not inc.
Provides clear direction and goals	Not inc.	Not inc.	4.25	4.65	4.70	4.47
Interest in learner/enthusiasm	4.55	4.67	4.46	4.73	4.85	4.75
Teaches with EBM	Not inc.	Not inc.	4.50	4.71	4.85	4.75
Overall teaching	4.36	4.20	3.83	Not inc.	4.63	Not inc.

Section C: Curriculum Development

1. **Academic Pediatric Association Quality and Safety Improvement Scholars (QIS) Faculty Development Program.** This is a national program for junior faculty members who are seeking career and skill development in quality improvement scholarship. There is a competitive selection process for faculty scholars and the program runs for three years. The scholars complete a mentored local project and engage in a national curriculum with annual in-person sessions and virtual interactive sessions throughout the year.

Goal: To train pediatric faculty members to be national leaders in scholarly quality, safety, and value improvement science.

Need: Faculty members in academic pediatrics who focus on scholarly clinical quality improvement find it challenging to do so within a scholarly framework that advances the science and their careers.

Objectives:

- Develop and lead a 3-year faculty development program for junior faculty members through the Academic Pediatric Association
- Support and foster academic promotion and advancement for academic pediatricians focused on scholarly QI work

Methods:

- Create a longitudinal QI curriculum for pediatric faculty members across all subspecialties, centering learning on scholarly projects at their home institutions under the mentorship of both an institutional mentor and a QIS program mentor.
- Develop and promote the use of a Quality Portfolio for as part of the academic promotion materials
- Use active learning strategies to provide scholars with the tools to achieve success in Quality and Safety Science

Evaluation: Program completion that includes acceptance of a QI abstract at a national meeting and prefers a peer reviewed manuscript. The program began in 2016 and I was the curriculum leader, moving then to Program co-leader from 2019-2022. Tracking of program graduates longitudinally in career progression, including academic advancement and leadership positions. To date the program has graduated 36 Scholars who have presented national or international abstracts and over 60 peer-reviewed scholarly QI publications. 12 graduates have been promoted to associate professor or higher and 3 are now chief quality officers. The past and present co-directors are currently working on a manuscript regarding these outcomes.

2. **LPMR writing seminar.** This is an academic writing curriculum focused on quality and safety improvement scholarship for Leadership Preventive Medicine residents at Dartmouth-Hitchcock Medical Center. I served as program faculty from 2007 to 2020, leading the writing seminar after the departure of a colleague from 2018-2020.

Goal: To provide preventive medicine residents with the skills to write abstracts, manuscripts and commentaries that become peer-reviewed publications.

Need: Though the LPMR program has a consistent track record of graduates that have completed MPH theses, not as many as expected have been successfully published in the peer reviewed literature.

Objectives:

- Develop and implement an updated monthly scholarly writing seminar for LPMR residents that employs active learning strategies such that residents are working on their own writing during the seminar time.
- Structure the sessions over 24 topics covered over the two-year program, with developmentally appropriate assignments for PGY-1 vs PGY-2 residents.
- Increase success rate of resident publication, particularly peer-reviewed journal articles.

Methods: Monthly seminars in writing skills based on the SQUIRE 2.0 guidelines for scholarly QI publications and other best practices for abstract writing and other types of communications (commentaries, reviews, Op-Eds, posters, etc.)

Evaluation: Increased publication success of LPM residents. For the cohort of (#--seeking data) residents present in the program from 2018-2020 when I was leading the writing seminar, they have produced (#--seeking data) publications.

3. **Faculty development program for career specialty advisors.** Each department or section at DHMC for which there is an ACGME accredited residency has one or more faculty advisors who support the students in setting up their M4 courses and in the application process.

Goal: To keep specialty advisors abreast of current trends and issues in national and Geisel UME Student Affairs the NRMP residency match, and to promote bidirectionality, such that the specialty advisors communicate important information from their specialty organizations to the Student Affairs Office.

Need: Since beginning this effort in 2018, the NRMP and other matches have had significant stress points and much rapid change and adaptation. To best support the Geisel MD students, it was and remains critical to promote cohesion and coordinated advising between Student Affairs and the specialty teams.

Objectives:

- Develop and implement a curriculum of quarterly lunch sessions to support specialty advisors that aligns with each residency Match cycle.
- Improve individualized communication with specialty advisors by having at minimum a once-per-year spring meeting to debrief the prior match and prepare for the upcoming one. Respond to student needs in as timely a manner as possible.
- Share communications such as student newsletters with advising team to improve advising alignment

Methods: Quarterly lunch meetings rotate day to optimize overall attendance due to clinical schedules (OR days, etc.). Structure in a workshop style with an icebreaker, short bursts of information delivery in both directions and time for questions, discussion, and peer mentorship.

Evaluation: Improved communication and information exchange between teams. Advisors in the program before and after implementation of quarterly group meetings and annual 1:1 meetings found much improved satisfaction with coordination between OSA and departments.

4. **Faculty development program for the department of pediatrics.** While vice-chair for education, was asked by chair to develop the education arm of the departmental monthly faculty development seminar, and to plan and execute the annual departmental education retreat and celebration of education.

Goal: Support the academic trajectories of clinician-educators in the department of pediatrics, including clinical teaching skills, educational scholarship, professional development, and academic promotion

Need: Most faculty in clinical departments require continued faculty development in clinical teaching skills. Additionally, clinician educators need support for how to succeed in educational scholarship and to document their scholarly contributions for advancement and promotion.

Objectives:

- Hold an annual education retreat and quarterly noon workshops on key topics to improve education in the department, based on needs identified on Geisel student and ACGME residency surveys
- Support the promotion and advancement of clinician-educators through the development of a scholarly database and through sessions on CV and EP preparation
- Improve the performance of programs in the department across UME, GME and CME

Methods: Quarterly lunch sessions on clinical teaching topics such as feedback, written evaluations, development of an Educator Portfolio. Annual education half-day retreat and Celebration of Education with posters and awards.

Evaluation: Successful academic advancement of through promotion process for residency and fellowship leaders in the department, and for those leading courses in the UME program. Significant improvement on ACGME surveys during this time. Two APDs promoted to associate professor, one course leader promoted to full professor. Annual awards and Celebration of Education continue since my departure 4 years ago.

5. Dartmouth-Hitchcock Women and Leadership Program. DHMC and Geisel had historically low levels of women in leadership positions, particularly in the clinical departments in positions such as chair and section chief. In 2017 I was asked to join the executive committee of a group to develop and implement a leadership program for women MDs and DOs, using my expertise in educational scholarship and curriculum development.

Goal: Create community, foster leadership skills and sponsor qualified women physicians for leadership roles across the DHH system

Need: In 2015, only one of 16 department chairs and a handful of section chiefs at DHMC were women. In 2017, the CMO appointed me to the initial group that began this program

Objectives:

- Provide opportunities for women physicians across DHH to develop leadership skills
- Increase the number of women physicians in clinical and academic leadership positions
- Create improved connections and a sense of community for women physicians

Methods: Started with monthly dinner meetings, then developed and implemented a leadership curriculum based on a model from Yale-New Haven. To date, over 100 junior faculty members and a handful of residents, fellows and medical students have completed the program. Small groups meet monthly with two program facilitators to work through the curriculum. In addition, large community convergences open to all women physicians in the community are held three times per year.

Evaluation: Over 100 women have completed the program, and some have successfully moved into various leadership positions such as section chief, chief quality officer, medical director, fellowship director and associate dean. The proportion of women department chairs, section chiefs and members of the health system executive group has increased dramatically between 2015 and 2023.

6. Geisel Career Advising Curriculum. The LCME requires all schools to have a satisfactory career advising program (element 11.2). In the spring 2021 site visit, Geisel's program was deemed "unsatisfactory".

Goal: To improve student satisfaction with Geisel's Career Advising program and move element 11.2 out of the "unsatisfactory" column

Need: All medical schools are required by the LCME to provide a career advising program that meets student needs. Geisel's program has been rated slightly below the national average on the Graduation Questionnaire for the last 5 years.

Objectives:

- Develop and implement a 4-year career advising program
- Improve student satisfaction with program offerings and with overall career advising experience while at Geisel
- Engage multiple stakeholders collaboratively in the endeavor

Methods: Convened a formal QI team in the summer of 2021 to map out the developmental career advising needs of medical students during the MD curriculum. Partnered with students, staff, the Coaching program, and specialty advisors in this endeavor. Used QI methodology to pinpoint problem areas, make changes and study improvements.

Evaluation: While insufficient time has passed to see improvement on the AAMC Graduation Questionnaire, internal survey data in early 2023 show improved student satisfaction with these programs. Program evaluation data of the offerings are overwhelmingly positive. Results presented at regional and national AAMC meetings.

**Section D: Advising and mentoring:
UNDERGRADUATE STUDENTS**

<u>NAME OF STUDENT</u>	<u>DATE</u>	<u>FACULTY ROLE</u>	<u>PROGRAM</u>	<u>CURRENT ROLE</u>
Stephanie Kramer	2008	Research project	UNH undergraduate summer scholar	Unknown
Erin Fluerant	2010	Research project	Tufts undergraduate summer scholar	4th year resident in OB-GYN, University of Connecticut

Andrew Foley	2013-14	Dartmouth undergraduate	Academic research scholar	Unknown
Grace Sollender	2013-14	Dartmouth Presidential Scholar	Academic research scholar	PGY-4 resident, urology, UCLA
Cecilia Della'Ore	2013-14	Dartmouth College undergraduate	Academic research scholar	PGY-4 resident, neurosurgery, UCSF
Erica Hsu	2013-14	Dartmouth Presidential Scholar	Academic research scholar	MD student, UC Davis
Sarah Chen	2016-18	Dartmouth Presidential Scholar	Academic research scholar	MD'23, Jefferson: IM residency Tufts (2023-26)
Matthew Chen	2018-	Dartmouth College undergraduate	Academic research scholar	Dartmouth College '22, Fulbright Scholar 22-23, Geisel MD entering class 2027

GRADUATE STUDENTS

Joyce Kelly	2011-12	MPH thesis project mentor	Benedictine University	NH breastfeeding task force chair
-------------	---------	---------------------------	------------------------	-----------------------------------

MEDICAL STUDENTS

<u>NAME OF STUDENT</u>	<u>DATE</u>	<u>FACULTY ROLE</u>	<u>PROGRAM FOR ADVISING</u>	<u>CURRENT ROLE</u>
Maryam Ali	2012-2013	Geisel 4 th year advisor	Applying to pediatric residency	General pediatric practice, Southborough, MA
Faith Kim	2013-2014	Geisel 4 th year advisor	Applying to pediatric residency	Assistant Professor, Neonatology, Columbia School of Medicine
Brittany Raffa	2013-2014	Geisel 4 th year advisor	Applying to pediatric residency	2 nd year General Pediatrics fellow, UNC
Kirsten Orloff	2013-2014	Geisel 4 th year advisor	Applying to pediatric residency	Assistant Professor, Pediatric critical care, Tufts/MMC
Michael Piccioli	2013-2014	Research advisor	4 th year Geisel research project	Pediatric hospitalist, Emerson Hospital, Concord, MA
Julia Sohn	2013-2014	Research advisor	4 th year Geisel research project	Pediatric allergy practice, Germantown, MD
Emily Carson Atwood	2013-2016	Geisel 4 th year advisor and research advisor	Applying to pediatric residency and academic scholar year	General pediatric practice, Rockville, MD
Madelyn Keyes	2014-2015	Geisel 4 th year advisor	Applying to pediatric residency	Assistant Professor, Neonatology, Boston Children's
Karl Russ	2014-2015	Geisel 4 th year advisor	Applying to pediatric residency	Staff pediatrician, Kaiser Northern California
Rachel Coombs	2014-2015	Geisel 4 th year advisor	Applying to residency	Family medicine practice, Bethel, VT
Emily Jacobson	2014-2015	Geisel 4 th year advisor	Applying to internal medicine-pediatric residency	Faculty med-peds hospitalist University of Michigan
Tina Amerault	2014-2016	Research advisor	Medical scholars research project	Psychiatrist, private practice, Lexington, MA
Emily Harding-Theobald	2015-2016	Geisel 4 th year advisor	Applying to residency	3 rd year GI fellow, University of Michigan
Victor Laurion	2015-2016	Geisel 4 th year advisor	Applying to pediatric residency	Pediatric Emergency Medicine
Samantha Connell	2015-2016	Geisel 4 th year advisor	Applying to pediatric residency	Pediatric Hospitalist, Akron Children's Hospital
Christine Breuer	2015-2017	Geisel 4 th year advisor and Research advisor	Applying to pediatric residency and academic scholar year	2 nd year pediatric GI fellow, Hasbro/Brown
Kim Betts	2016-2017	Geisel 4 th year advisor	Applying to pediatric residency	General pediatric practice, Holly Springs, NC
Alex Lucas	2016-2017	Geisel 4 th year advisor	Applying to pediatric residency	3 rd year pediatric critical care fellow, MGH

Rifat Zaman	2016-2017	Geisel 4 th year advisor	Applying to pediatric residency	Pediatric hospitalist, Exeter MA
Katie Bean	2016-2017	Geisel 4 th year advisor	Applying to pediatric residency	3rd year fellow in neonatology, Northwestern
Karissa Tauber	2016-2017	Research advisor	Medical scholars research project	PGY-4 surgery resident, University of Pennsylvania
Cassie Rendon	2016-2018	Research advisor	TDI course project	Pediatrician, Bemidji, SD
Kanak Verma	2016-2018	Geisel 4 th year advisor and Research advisor	Applying to pediatric residency and TDI academic scholar year project	2nd year pediatric heme-onc fellow, CHOP
Bianca Williams	2017-18	Geisel 4 th year advisor	Applying to pediatric residency	General pediatric practice, Tinley Park, IL
Katie Stephenson	2017-18	Geisel 4 th year advisor	Applying to pediatric residency and academic scholar project	2nd year pediatric GI fellow, Seattle Children's
Diana Chernikova	2017-18	Geisel 4 th year advisor	Applying to pediatric residency	2nd year pediatric allergy fellow, UCLA
Priscella Chan	2017-18	Research advisor	Medical scholars research project	PGY-3 pediatric resident, Oakland Children's
Hannah Fuson	2017-19	Geisel 4 th year advisor and Research advisor	Applying to pediatric residency and academic scholar year project	Pediatric Hospitalist, Colorado Children's
Aaron Briggs	2018-19	Research advisor	QI abstract for PAS	First year general pediatrics fellow, UCSD
Yike Jiang	2018-19	Geisel 4 th year advisor	Applying to pediatric residency	First year pediatric rheumatology fellow, Duke
Georgia Griffin	2018-19	Geisel 4 th year advisor	Applying to pediatric residency	First year pediatric sports medicine fellow, Seattle Children's
Salma Dali	2018-19	Geisel 4 th year advisor	Applying to pediatric residency	First year PHM fellow, UCSF
Rebecca Stern	2018-19	Geisel 4 th year advisor	Applying to IM-pediatric residency	PGY-4 IM-pediatric resident, University of Chicago
M. Carrie Bryant	2019-20	Research advisor	Med Ed abstract and paper	PGY-3 pediatric resident, Hasbro-Brown
Jessica Lee	2020-	Research advisor	Curriculum development, abstract and paper	Geisel MS4
Maggie Sherin	2020-	Research advisor	Curriculum development, abstract and paper	Geisel MS4
Aya Bashi	2020-	Research advisor	Med Ed QI abstract and paper	PGY-1, OB-GYN resident, Duke
Briggs Carhart	2021-	Research advisor	Med Ed QI abstract and paper	Geisel MS4
Constance Fontanet	2021-	Research advisor	Med Ed QI abstract and paper	Geisel MS3
Arvind Suresh	2021-	Research advisor	Med Ed QI abstract and paper	PGY-1, IM resident, UCSF
Emily Weschler	2021-	Research advisor	Med Ed QI abstract and paper	Geisel MS4
Seth Ramin	2021-	Research advisor	Med Ed QI abstract and paper	Geisel MS4
Derek Colaizzo	2021-	Research advisor	Med Ed QI abstract and paper	Geisel MS3
Ken Greco	2021-	Research advisor	Med Ed QI abstract and paper	Geisel MS3

RESIDENTS/FELLOWS

<u>NAME OF STUDENT</u>	<u>DATE</u>	<u>FACULTY ROLE</u>	<u>PROGRAM</u>	<u>CURRENT ROLE</u>
Sally Ward	2007-08	MPH coach	Leadership Preventive Medicine Residency	QI lead at FM practice, Greenbrae, CA
Deborah Meesarapu	2007-10	Residency advisor	NH Dartmouth Family Medicine residency	DH-Concord Family Medicine group
Pippa Shulman	2008-9	MPH coach	Leadership Preventive Medicine Residency	Senior Chief Innovation Engineer at the Atrius Health Innovation Center
Jackie Morse	2011-12	MPH coach	Leadership Preventative Medicine Residency	Associate PD, NH-Dartmouth FM Residency
Hilary Alvarez	2012-13	Residency advisor and MPH coach	NH Dartmouth Family Medicine Residency	QI clinic leader, Concord Family Medicine
John Matulis	2013-15	MPH coach	Leadership Preventive Medicine Residency	Assistant Professor, Mayo Clinic, Quality Academy director
Mary Fay	2013-2016	Scholarly oversight committee	Neonatology fellowship	Attending neonatologist, Albany, NY
L'uaie Kailani	2014-2016	MPH coach	Leadership Preventive Medicine Residency	Partners in Health, Rwanda
Hillary Spencer	2015-2018	MPH coach	Leadership Preventive Medicine Residency	Assistant Professor, Pediatric ID, Vanderbilt
Kate MacMillan	2016-2018	MPH coach, research advisor	Leadership Preventive Medicine Residency	Assistant Professor, PHM, Brigham and Women's
Cristina Mamolea	2017-20	Residency advisor	Pediatric residency	3rd year pediatric critical care fellow, Boston Children's
Keira Kilmartin	2018-21	Research advisor	Pediatric residency	3rd year neonatology fellow, McGill
Emily McCarty	2018-21	Research advisor	Pediatric residency	PHM practice, Coeur d'Alene, ID
Josia Schlogl	2019-22	Research advisor	Pediatric residency	3rd year pediatric critical care fellow, University of Maryland

FACULTY

<u>NAME OF FACULTY</u>	<u>DATE</u>	<u>FACULTY ROLE</u>	<u>PROGRAM</u>	<u>CURRENT ROLE</u>
Beth Natt	2009-10	Faculty development advisor	PAS Educational Scholars Program, program advisor	Clinical Associate Professor of Pediatrics, UConn, chair of cPHM conference planning committee, 2014-
Lisa Stigler Parnell	2009-13	Faculty development advisor	PAS Educational Scholars Program, program advisor	Assistant Professor of Pediatrics, Duke
Betty Staples	2012-15	Faculty development advisor	PAS Educational Scholars Program, program advisor	Professor of Pediatrics, Duke, pediatric residency director, 2008-2021
Jeremy Kern	2012-16	Faculty development advisor	PAS Educational Scholars Program, program advisor	Associate Professor of Pediatrics, Associate Residency PD, Children's National
Nicholas Potisek	2016-2019	Faculty development advisor	PAS Educational Scholars Program, program advisor	Clinical Assistant Professor of Pediatrics, USC, clerkship director 2015-2020
Colleen Classen	2016-2018	Faculty development advisor	PAS Educational Scholars Program, program advisor	Associate Professor of Pediatrics, Saint Louis University School of Medicine
Samantha House	2016-	Departmental GME faculty	Associate residency director	Associate Professor of Pediatrics, Geisel School of Medicine at Dartmouth, section chief 2019-, CQO 2020-

Cathy Shubkin	2016-	Departmental GME faculty	Associate residency director	Associate Professor of Pediatrics, Geisel School of Medicine at Dartmouth, Vice-chair education, 2020-
Carol Lynn O'Dea	2017-	Departmental GME faculty	Residency program director	Assistant Professor of Pediatrics, Geisel School of Medicine at Dartmouth, pediatric residency PD 2017-
Kimberley Schneider	2017-2020	Faculty development	APA QGIS Program, program advisor	Assistant Professor of Clinical Pediatrics, Indiana University School of Medicine
Brandon Ku	2017-2020	Faculty development	APA QGIS Program, program advisor	Assistant Professor of Pediatrics, CHOP
Jessica Hart	2017-2020	Faculty development	APA QGIS Program, program advisor	Assistant Professor of Pediatrics, CHOP, division director of QI
Eli Sprecher	2018-2021	Faculty development	APA QGIS Program, program advisor	Instructor of Pediatrics, Boston Children's
Kristin Reese	2022-	Faculty development	Section faculty member mentor	Assistant Professor of Pediatrics, Geisel School of Medicine at Dartmouth

Section D: Invited teaching experiences

EDUCATIONAL PROGRAMMING AND TEACHING WORKSHOPS (*is individually invited, #is through competitive submission process, ^indicates CME)

Workshop co-leader: Implementing the 2022 AAP Hyperbilirubinemia Guidelines# ^	New England Pediatric Hospital Medicine Conference	New Haven, CT	June 2023
Workshop co-leader: Teach like Socrates-#^ (28% accepted)	Pediatric Academic Societies (International audience)	Washington, DC	May 2023
Workshop co-leader: Teach like Socrates-#^ (32% accepted)	Pediatric Academic Societies (International audience)	Denver, CO	April 2022
APA Quality Improvement Scholars Boot Camp: sessions on QI frameworks, process mapping, PDSA cycles, and project management*	Academic Pediatric Association	Washington, DC (remotely)	April 2021
Improving Match Outcomes: Creative Ideas for Efficient Alignment of Applicant and Program Preference#^	Association of American Medical Colleges Group on Student Affairs	Washington, DC (remotely)	April 2021
Manuscript Writing for Primary Care*	Dartmouth-Hitchcock Medical Center	Lebanon, NH	November 2019
Workshop co-leader: Going Beyond "Good Job" and "Performed as Expected": How to provide meaningful, effective, and efficient competency-based feedback and evaluation to learners across the continuum. (28% accepted)#^	Pediatric Academic Societies (International audience)	Toronto, ON	May 2018
Time Management for Physicians-101 or 911? (28% accepted)#^	Pediatric Academic Societies (International audience)	Toronto, ON	May 2018
APEX teaching program: teaching clinical reasoning*	Pediatric Hospital Medicine	Nashville, TN	July 2017
Workshop co-leader: Time management for physicians: 101 or 911? Practical strategies to reduce your stress and get more done. (29% accepted)#^	Pediatric Academic Societies (International audience)	San Francisco, CA	May 2017
Workshop co-leader: Transforming formative feedback into effective summative written assessments. (29% accepted)#^	Pediatric Academic Societies (International audience)	San Francisco, CA	May 2017
Workshop co-leader: Active learning strategies-- (29% accepted)#^	Pediatric Academic Societies (International audience)	San Francisco, CA	May 2017
Geisel Academy of Master Educators Conference. 2 sessions: Active Learning	Geisel School of Medicine	Lebanon, NH	January 2017

Strategies and Developing an Educator Portfolio*^			
Workshop leader: You have more time than you think: Time management and goal setting for the pediatric hospitalist#^	Pediatric Hospital Medicine	Chicago, IL	July 2016
Workshop co-leader: It's About PRIME! Transforming Your Notes and Verbal Feedback into an Effective Written Evaluation#^	Pediatric Hospital Medicine	Chicago, IL	July 2016
APEX faculty development program: 102: Clinical teaching*^	Pediatric Hospital Medicine	Chicago, IL	July 2016
Knowledge café session leader (session for early career faculty): Finding your niche*	Pediatric Hospital Medicine	Chicago, IL	July 2016
Workshop leader: Stop lecturing me!: Incorporating active learning strategies into your teaching (27% accepted) # ^	Pediatric Academic Societies (International audience)	Baltimore, MD	May 2016
Workshop leader: Parents are the best teachers: Teaching family-centered care together with family faculty members (27% accepted)# ^	Pediatric Academic Societies (International audience)	Baltimore, MD	May 2016
Workshop co-leader: Teach and assess clinical reasoning using practical, validated written and oral case presentation rubrics: P-HAPEE and PBEAR (27% accepted)# ^	Pediatric Academic Societies (International audience)	Baltimore, MD	May 2016
Workshop co-leader: Clinical breastfeeding medicine for the busy academic pediatrician (27% accepted)# ^	Pediatric Academic Societies (International audience)	Baltimore, MD	May 2016
Invited panel discussant: Successful Active Learning Strategies #	Pediatric Academic Societies (International audience)	Baltimore, MD	May 2016
Workshop leader: Effective feedback and written evaluation# ^	COMSEP	Saint Louis, MO	April 2016
Workshop leader: Parents are the Best Teachers: Teaching Family Centered Care Together with Family Faculty Members#^	COMSEP	Saint Louis, MO	April 2016
Workshop co-leader: Teach and assess clinical reasoning using practical, validated written and oral case presentation rubrics: P-HAPEE and PBEAR#^	COMSEP	Saint Louis, MO	April 2016
Writing effective, efficient medical student evaluations*	Chief Resident retreat	Lebanon, NH	January 2016
Writing effective, efficient medical student evaluations*	OB/GYN department retreat	Lebanon, NH	September 2015
Workshop co-leader: Clinical breastfeeding medicine for the busy pediatric hospitalist#^	Pediatric Hospital Medicine	San Antonio, TX	August 2015
Workshop leader: Stop lecturing me!: Incorporating active learning strategies into your teaching#^	Pediatric Hospital Medicine	San Antonio, TX	August 2015
Workshop leader: Practical breastfeeding medicine for the busy academic pediatrician (29% accepted)# ^	Pediatric Academic Societies (International audience)	San Diego, CA	April 2015
Workshop leader: Going beyond "good job" and "performed as expected": How to train the faculty to give effective, efficient and meaningful competency based feedback to medical students.# ^	COMSEP	New Orleans, LA	March 2015
Workshop leader: Practical breastfeeding medicine for the busy academic pediatrician (31% accepted)# ^	Pediatric Academic Societies (International audience)	Vancouver, BC	May 2014
Writing effective, efficient medical student evaluations*	Pediatric community preceptors faculty development conference	Lebanon, NH	May 2014

Workshop leader: Faculty development in active learning strategies#^	COMSEP	Ottawa, ON	March 2014
Writing effective, efficient medical student evaluations*	Department of Pediatrics Education Retreat	Lebanon, NH	March 2014
A primer in active learning strategies*	Department of Pediatrics Education retreat	Hanover, NH	October 2013
Workshop co-leader: Unraveling the promotions mystery: how to get ahead by getting credit for the work you already do#^	Pediatric Hospital Medicine	New Orleans, LA	August 2013
Workshop leader: Practical breastfeeding medicine for the busy pediatric hospitalist#^	Pediatric Hospital Medicine	New Orleans, LA	August 2013
Workshop: How do I explain the Milestones to my faculty and learners? # ^	APPD/Council on Medical Student Education in Pediatrics (COMSEP)	Nashville, TN	April 2013
Workshop co-leader: Promotion: Getting ahead for doing the work you already do #^	Pediatric Hospital Medicine (APA)	Cincinnati, OH	July 2012
Workshop leader: Part time is not for slackers: Working hard to build flexible academic pediatric positions for yourself, or for pediatricians in your program #^ (24% accepted)	Pediatric Academic Societies (International audience)	Boston, MA	May 2012
Workshop leader: Negotiating for flexible work in academic pediatrics (26% acceptance) #^	Pediatric Academic Societies (International audience)	Denver, CO	May 2011
Workshop leader: Part time is not for slackers: Working hard to build flexible academic pediatric positions for yourself, or for pediatricians in your program (31% acceptance)# ^	Pediatric Academic Societies (International audience)	Vancouver, BC	May 2010
Workshop leader: Working part-time—can it work for you? Can it work in your program? (34% acceptance) #^	Pediatric Academic Societies (International audience)	Baltimore, MD	May 2009
Teaching in the community SIG: Developing an Integrated Breastfeeding Curriculum for Family Medicine Residents*^	Pediatric Academic Societies (International audience)	Toronto, ON	May 2007

Evaluations of lectures/research/CME presentations at national meetings (ABM, PAS, PHM, SHM)
Ratings all 5-point scales

Invited speaker at first ever AAP Hospital Medicine CME, January 2015.

Invited back for 2nd such conference in January 2017

Two virtual conferences during pandemic and then invited for third conference January 2023 (cancelled due to respiratory viral surge), **awaiting 2024 conference**

Sessions: hyperbilirubinemia (plenary), late preterm (breakout), newborn screening (breakout), NOWS (plenary), newborn emergencies (breakout), prenatal screening (breakout)

Overall individual faculty rating: **4.35 in 2015, 4.64 in 2017**

SHM 2016 Newborn Hot Topics session (with Dr. Jim O'Callaghan).

Session rating: 4.30

Regional/national topic talks and Grand Rounds

Hyperbilirubinemia: Overall **4.70**

NAS, mean of all talks: **4.82**

NAS invited science at PHM 4.72

GAME 2017 on educator portfolios: 4.80

2017 department faculty retreat overall (clinical reasoning/educator portfolios): **4.50**

2020 and 2021 Learning Environment Grand Rounds (weighted average): 4.53

Evaluations of education topic workshops at national meetings where available (PAS, PHM, COMSEP)

Academic Promotion

	PHM 2012	PHM 2013
Overall rating	4.14	4.43

Breastfeeding Medicine

	PHM 2013	PAS 2014	PAS 2015	PHM 2015
Overall rating	4.43	4.00	4.71	4.82

Time Management

	PHM 2016	PAS 2018
Overall rating	N/A	4.75

Section E: Formal teaching awards –included on CV

Section F: Educational leadership positions –included on CV

Section H: Medical education research -included on CV