

CURRICULUM VITAE

G. JESSE BENDER III, M.D.

Business Address: Women & Infants' Hospital
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Electronic Mail Address: gbender@wihri.org; gbender124@gmail.com

EDUCATION

Undergraduate Cornell University, College of Engineering, Ithaca NY
Operations Research and Industrial Engineering, 08/20/1985 -
06/15/1989, Bachelor of Science 1989
Other Advanced Degrees George Washington University, Washington DC, 08/20/1991 –
06/15/1993, Masters in Engineering Management 1993
NVCC/George Mason University, Fairfax VA, Post-
baccalaureate Studies 1993, Phi Theta Kappa
Medical School St. Louis University, St. Louis MO, 08/20/1995-05/25/1999,
MD 1999, Alpha Omega Alpha, Honors in Biochemistry,
Physiology, Biostatistics, Microbiology; Neurosciences,
Pediatrics, Internal Medicine

POSTGRADUATE TRAINING

Residency Hasbro Children's Hospital, Providence RI,
Pediatric intern and resident, 06/15/1999 – 06/14/2002
Fellowship Women and Infants' Hospital, Providence RI,
Neonatology fellow, 06/15/2002 – 06/14/2005

POSTGRADUATE HONORS AND AWARDS

Rhode Island Hospital Teaching Award, Pediatrics, 2002
Nominee for 15th Annual NICHD Aspen Maternal-
Fetal-Neonatal-Reproductive Medicine, 2003
Chief Fellow, Neonatology, Women & Infants' Hospital, 2005
Teacher, American Academy of Family Physicians, 2005

Patient Safety Innovation and Quality Award “TESTPILOT Discoveries”, Women & Infants’ Hospital, 2009

Honorable mention “TESTPILOT”, International Society for Simulation in Healthcare, 2010

CARE Award: Transitioning to a new environment of care with TESTPILOT, Care New England, 2010

First Place workshop “Orchestrating *In Situ* Simulation For Safety In New Healthcare Environments” 6th International Pediatric Simulation Symposia, Vienna Austria 2014

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

Pediatric Advanced Life Support provider 1999-2004

Advanced Trauma and Life Support provider 2001

American Board of Pediatrics, Board Certification 2002-2009

Rhode Island Medical License 2005-2016

Neonatal Resuscitation Program Instructor 2005-2016

Neonatology Board Certification 2005-2016

Helping Babies Breathe 2013

Certified Healthcare Simulation Educator 2013-2016

ACADEMIC APPOINTMENTS

Instructor in Pediatrics, Warren Alpert School of Medicine at Brown University, 2002-2005

Assistant Clinical Professor, Warren Alpert School of Medicine at Brown University, 2005-2008

Assistant Professor, Research Scholar Track, Warren Alpert School of Medicine at Brown University, 2008-2015

Associate Professor, Research Scholar Track, Warren Alpert School of Medicine at Brown University, 2016

HOSPITAL APPOINTMENTS

Neonatology Fellow, Women & Infants’ Hospital, 2002-2005

Director of Nursery, Memorial Hospital of Rhode Island, 2005-2007

Staff Neonatologist, Women & Infants’ Hospital, 2007-2015

Associate Director of Neonatal Simulation, Rhode Island

Hospital Medical Simulation Center, 2008-2011
Board of Directors, Rhode Island Hospital Medical Simulation
Center, 2010
Co-Chair Simulation Center Planning Committee,
Women & Infants' Hospital, 2009-2011
Co-Director, Care New England Simulation Program,
2011-2016

OTHER APPOINTMENTS

Founder, Fellows Pathophysiology Conference,
Women & Infants' Hospital, 2002-2004
Member, NICHD Neonatal Research Network
Bilirubin Subcommittee, 2003
Neonatal Simulation Instructor, Center for Advanced Pediatric
and Perinatal Education, Palo Alto CA, 2007
Shape Up RI Advisory Board, 2012
Co-Director, Care New England Quality Fellowship, 2014-5

HOSPITAL COMMITTEES

Nurse Practitioners' Committee, 2002-2003
Nurse Managers' Committee, 2002-2003
Perinatal Mortality Committee, 2002-2008
PERC Line Committee, 2002-2005
Bereavement Council, 2003-2004
Respiratory Therapy Liaison, 2004-2005
Physician Review Group, 2004-2005
ELBW Neonate Resuscitation Education, 2004-2006
NICU Move Committee, 2007
NICU Family Centered Care committee, 2007-2008
Infant code committee, 2008-2015
Hyperoxia Prevention in the Delivery Room, 2008-2010
NICU Medical Model, 2008-2009
Pediatric Surgery Residency internal review, 2010
WIH Quality Council, 2010-2015
WIH Information Technology Steering Committee, 2010-2015
Co-chair, WIH Simulation Council, Operations, 2011-2015
Initiative Lead, S2N Clinical Documentation, 2011-2015
MedTeams Sustainment Advisory, 2012-2015

Database Development Committees

Prospective severity of illness clinical database, 2007-2010
Clinical data warehouse for CNE outcomes, 2007-2009
Retinopathy tracking database, 2009-2012
Pulse Oximetry Database 2011

Electronic Medical Record Development

EMR Steering Committee, 2007-2009
EMR Core Development team, 2007-2009
INET physician Iview/PowerNote design, 2007-2008
NICU Wireless Selection Committee, 2008
ASCOM Communications Liaison, 2009-2010
Staff training for EMR, billing, problem lists, 2009-2010
Resident QI project, ACGME work hours, 2009-2010
Reformulate housestaff training schema, 2009-2010
CCL report design, NICU sign out, subspecialty, 2009-2010
CPOE orderset design, training, implementation, 2010

UNIVERSITY COMMITTEES

ACGME Duty Hours, 2004

EDITORIAL SERVICE

Ad hoc reviewer, Journal of Pediatrics, 2008 - present
Ad hoc reviewer, Journal of Perinatology, 2013-present
Abstract reviewer, Society Simulation Healthcare, 2015
Ad hoc reviewer, Pediatrics, 2016

MEMBERSHIP IN SOCIETIES

American Academy of Pediatrics, 1999-present
Rhode Island Medical Society, 2003-2015
American Medical Association, 2005-2014
Society for Simulation in Healthcare, 2007-present
International Pediatric Simulation Society, 2012-present
Co-chair, Technology & Standards Committee, 2013-2015
Society for Pediatric Research, Fellow, 2014-present

PUBLICATIONS LIST

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. **Bender GJ**, Cashore WJ, Oh W. Ontogeny of bilirubin-binding capacity and the effect of clinical status in premature infants born at less than 1300 grams. *Pediatrics* 2007;120:1067–1073.
2. Oh W, Stevenson DK, Tyson JE, Morris BH, Ahlfors CE, **Bender GJ**, et al. Influence of clinical status on the association between plasma total and unbound bilirubin and death or adverse neurodevelopmental outcomes in extremely low birth weight infants. *Acta Paediatr.* 2010 May;99(5):673-8.
3. Ahlfors CE, Vreman HJ, Wong RJ, **Bender GJ**, Oh W, Morris BH, Stevenson DK.

Effects of sample dilution, peroxidase concentration, and chloride ion on the measurement of unbound bilirubin in premature newborns. *Clin Biochem*. 2007 Feb;40(3-4):261-7.

4. **Bender J**, In-Situ Simulation for Systems Testing in Newly Constructed Perinatal Facilities. *Semin Perinatol*. 2011 Apr;35(2):80-3.

5. **Bender J**, Shields R, Kennally K. Transportable Enhanced Simulation Technologies for Pre-Implementation Limited Operations Testing In the Neonatal Intensive Care Unit TESTPILOT: NICU. *Sim Healthcare* 2011 Aug;6(4):204-212.

6. Lee MO, Brown LL, **Bender J**, Machan JT, Overly FL. A Medical Simulation-based Educational Intervention for Emergency Medicine Residents in Neonatal Resuscitation *Ac Emerg Med*. Volume 19, Issue 5, pages 577–585, May 2012

7. **Bender J**, Kostler D, Ombao H, McCourt M, Alskinis B, Rubin L, Padbury J. Neonatal Intensive Care Unit: Predictive Models for Length of Stay. *J Perinatol* 2012: Jun 7; doi.10.1038/jp.2012.62.

8. Koestler D, Ombao H, **Bender J**. Ensemble-based Methods for Forecasting Census in Hospital Units. *BMC Medical Research Methodology* 2013, 13:67 doi:10.1186/1471-2288-13-67.

9. **Bender J**, Kennally K, Shields R, Overly F. Does simulation booster impact retention of resuscitation procedural skills and teamwork? *J Perinatol* 2014: Apr 24. doi: 10.1038/jp.2014.72.

10. Murphy T, Laptok A, **Bender J**. Sustained Improvement in Neonatal Intensive Care Unit Safety Culture Following Teamwork Training. Accepted *J Patient Safety* 2015.

11. Lechner B, Shields R, **Bender J**. Seeking the Best Training Model for Difficult Conversations in Neonatology. *J Perinatal Med* 2015: Jun 26.

NON-PEER REVIEWED

1. **Bender J**, Shields R, Kennally K. Testing With Simulation Before a Big Move at Women & Infants Hospital. Rhode Island Medical Society. 2010 May; 93 (5): 145-150.

SUBMITTED OR IN PREPARATION

1. **Bender J**, Kennally K. Multidisciplinary Interfacility Simulation in the Development of a Nationwide Neonatal Transport Program in Kosovo. Accepted with revisions *Air Medical Journal* 2015.

2. Murphy T, **Bender J**, Taub M, Laptok A. The Neonatal Preventable Harm Index: A High Reliability Tool. Accepted with revisions *J Perinatology* 2015.

3. Murphy T, Yang S, Collyer H, Kurkchubasche A, **Bender J**. Necrotizing Enterocolitis and Spontaneous Intestinal Perforation in the Neonatal Intensive Care Unit: A spatiotemporal case cluster analysis. Submitted *JC Journal on Quality and Patient Safety* 2015.
4. **Bender J**. Simulation - An Essential Aspect of Designing a New NICU. Invited article in NICU Design edition for *Newborn and Infant Nursing Reviews*.
5. **Bender J**, Maryman J. Clinical Macrosystem Simulation Translates Between Institutions. Manuscript in preparation.
6. Robin B, **Bender J**. Qualitative Analysis using Taxonomy of Latent Safety Threats. Manuscript in preparation.

ABSTRACTS

1. **Bender J**, Cashore W, Oh W. Ontogeny of Bilirubin Binding Capacity in Low Birthweight Neonates. Eastern Society for Pediatric Research, New Haven, March 2004 and Society for Pediatric Research, San Francisco, May 2004.
2. **Bender J**, Cashore W, Oh W. Bilirubin Binding Capacity Is Directly Related to Gestational Age and Clinical Stability in Very Low Birthweight Neonates. Eastern Society for Pediatric Research, New Haven, March 2005 and Society for Pediatric Research, Washington DC, May 2005.
3. **Bender J**, Kennally K, Lindgard S et al. Neonatal Resuscitation Simulation Measurement Tool Development. Eastern Society for Pediatric Research, Philadelphia PA, March 2008 and Society for Pediatric Research, Honolulu HI, May 2008.
4. **Bender J**, et al. Neonatal Intensive Care Unit: Predictive Models for Length of Stay. AAP National Conference and Exhibition, Boston MA, Oct 2008.
5. **Bender J**, Shields R. Simulation to assess NRP Compliance. International Meeting Simulation in Healthcare, Orlando FL, Jan 2009.
6. **Bender J**, Shields R. Transportable Enhanced Simulation Technologies for Pre-Implementation Limited Operations Testing in the Neonatal Intensive Care Unit: TESTPILOT—NICU. International Meeting Simulation Healthcare, Phoenix AZ, Jan 2010.
7. **Bender J**. Transportable Enhanced Simulation Technologies for Pre-Implementation Limited Operations Testing in the Neonatal Intensive Care Unit: TESTPILOT—NICU, New England Perinatal Society, Newport RI, Mar 2010
8. **Bender J**, Shields R., Kennally K. High Fidelity Simulation Improves Neonatal Procedural Skills and Team Behaviors. Eastern Society for Pediatric Research, Philadelphia PA, Mar 2010
9. **Bender J**, Teaching Neonatal Resuscitation To Emergency Medicine Residents: Does A Simulation-Enhanced Intervention Improve Knowledge And Skills? Pediatric Academic Society, Vancouver BC, May 2010.

10. **Bender J**, Wielding Technology to Change Healthcare Delivery: Large Scale Operations Testing Feasible in Simulation-Naïve Institutions. New England Quality Collaborative, Waltham MA, Sep 2012.
11. **Bender J**, Padbury J. Wielding Technology to Change Healthcare Delivery. Children's Hospital Association, Washington DC, Oct 2012.
12. **Bender J**. Wielding Technology to Transform Models for Care: Practice Before You Move into Your New Single Family Room NICU. Graven's Conference on the Physical and Developmental Environment of the High Risk Infant, Clearwater FL, Feb 2013.
13. **Bender J**, Shields R, Maryman J, Padbury J. Wielding Technology To Transform NICU Model of Care: Large Scale Operations Testing Is Feasible with Little Prior Simulation Experience. Pediatric Academic Society, Washington DC, May 2013
14. Murphy T, **Bender J**, Laptook A. Teamwork and Communication Training Improves Staff Perceptions of Culture of Safety in the Neonatal Intensive Care Unit (NICU). AAP Perinatal Section New England Conference Perinatal Research, Newport RI, Oct 2013.
15. **Bender J**, Caffrey A, Murphy T, Shields R, Taub M. Establishing Sustained Culture Change through Team Training. International Society for Simulation in Healthcare, San Francisco CA, Jan 2014.
16. Robin B, **Bender J**. Rush Safely Into A New NICU, International Pediatric Simulation Symposia and Workshop, Vienna Austria, Apr 2014.
17. **Bender J**, Robin B. Qualitative Analysis: Development Of A Classification System For Latent Safety Threats. ESPR March 2014, repeat at International Pediatric Simulation Symposia and Workshop, Vienna Austria, April 2014.
18. Murphy T, Yang S, Collyer H, **Bender J**. Necrotizing Enterocolitis and Spontaneous Intestinal Perforation in the Neonatal Intensive Care Unit: A Case Cluster Analysis. New England Neonatology Quality and Safety Forum, Waltham MA, May 2014.
19. Murphy T, **Bender J**, Taub M, Laptook A. The Neonatal Preventable Harm Index: A Practical Tool for High Reliability Organizations. Pediatric Academic Societies, San Diego CA, April 2015. Repeat at NeoQIC, Mass Med Quality, Waltham MA, June 2015.
20. **Bender J**, Robin B. Immerse Experts in New Healthcare Environments To Expose Safety Threats with In Situ Simulation. International Pediatric Simulation Symposia Workshop, Vancouver BC, May 2015.
22. Lechner B, Shields R, Tucker R, **Bender J**. Seeking Best Training Model for Difficult Conversations in Neonatology. International Pediatric Simulation Symposia Workshop Vancouver BC, May 2015.
23. Wieler M, Murphy T, Mehta H, **Bender J**. Contact-Free Neonatal Heart Rate Measurement Using an Inexpensive Video Camera. NeoQIC, Mass Med Quality, Waltham MA, June 2015.

24. McGowan D, **Bender J.** Clinical Documentation Improvement Achieved Through Electronic Medical Record Improved Problem List Documentation in a NICU. VON Annual Quality Congress, Chicago IL, October 2015.

INVITED PRESENTATIONS

1. **Bender J.** Ontogeny of Bilirubin Binding Capacity. Rhode Island Hospital Research Colloquium, Providence RI, November 2002.
2. **Bender J.** Extrauterine Adaptation and Brainstem Maturation Velocity in the LBW Infant. Rhode Island Hospital Research Colloquium, Providence RI, February 2003.
3. **Bender J,** Cashore W, Oh W. Ontogeny of Bilirubin Binding Capacity and Effect of Clinical Status. AAP New England Conference on Perinatal Research, Chatham MA. Oct 2004.
4. **Bender J.** Treating Compromised Newborns with Simulation. Laerdal Regional Simulation Users Network Meeting, Foxwoods CT, Aug 2008.
5. **Bender J,** Padbury J. Neonatal Intensive Care Unit: Predictive Models for Length of Stay. AAP New England Conference on Perinatal Research, Chatham MA, Oct 2008.
6. **Bender J,** Padbury J. Neonatal Intensive Care Unit: Predictive Models for Length of Stay. AAP National Conference Exhibition, Boston MA, Oct 2008.
7. **Bender J.** TESTPILOT - NICU Discoveries: Transportable Enhanced Simulation Technologies for Pre-Implementation Limited Operations Testing in the Neonatal Intensive Care Unit. Perinatal Research Colloquium, Women & Infants Hospital, Providence RI, Sep 2009.
Repeated at New England Perinatal Society, Newport RI, Mar 2010.
8. **Bender J.** Principles of Neonatal Resuscitation for the Emergency Room Physician. Rhode Island Hospital Medical Simulation Center, Providence RI, May 2009.
9. Brown L, **Bender J,** Koboyashi L, Overly F. TESTPILOT Workshop: Advanced Medical Simulation as a Tool to Assess New Clinical Settings and Systems. Panel discussion, International Meeting Simulation Healthcare, Phoenix AZ, Jan 2010.
10. **Bender J.** Weiner G, Halamek L, Perlman J. Save the Baby! Integrating Simulation into the Neonatal Resuscitation Program: Workshop. International Meeting for Simulation in Healthcare, New Orleans LA, Jan 2011.
11. **Bender J,** Kennally K, Opekin C. Roles and Expectations for Neonatal Transport Service. Teleconference with UCKK, Pristina Kosovo, Sept 2010.
12. **Bender J.** Debriefing Skills: Train the trainer workshop. Women & Infants Hospital Risk Management, Providence RI, May 2011.
13. Lindquist D, **Bender J.** Debriefing the Newborn Resuscitation Workshop, AAP National Conference Exhibition, Boston MA, Oct 2011.

14. **Bender J**, Obrien J, Shields R. Difficult Conversations in Obstetrics and Neonatology. Regional Simulation Users Network, Framingham MA, Oct 2011.
Repeated for International Meeting Simulation Healthcare, San Diego CA, Jan 2012.
15. **Bender J**, Kennally K. TESTPILOT Kosovo: Using Simulation to Implement a Nationwide Neonatal Transport System. International Meeting Simulation Healthcare, San Diego CA, Jan 2012.
16. **Bender J**. Promoting Safe Patient Care Practices in the Neonatal Intensive Care Unit: IView, Problem Lists, Handoff tools. North Atlantic Regional User Group, Warwick RI, May 2012.
17. **Bender J**. Wielding Technology to Transform Models for Care: Large Scale Operations Testing Feasible in Simulation-Naïve Institutions. AAP New England Conference on Perinatal Research, Chatham MA, Oct 2012.
18. Lindquist D, **Bender J**. Debriefing Pearls and Strategies for NRP, two workshops. AAP National Conference and Exhibition New Orleans, Oct 2012.
19. Padbury J, **Bender J**, Taub M. Millennium Neonatology: A Building for the Future. From Form to Function in Healthcare Design. Environmental Design Research Association, Providence RI, May 2013.
20. **Bender J**, Kennally K. Using simulation to implement a neonatal transport system in Kosovo. Council of International Neonatal Nurses, Belfast Ireland, Sept 2013.
21. Lindquist D, **Bender J**. Neonatal Resuscitation: Debriefing Structure and Strategies workshop, AAP National Conference and Exhibition, Orlando FL, Oct 2013.
22. **Bender J**. Resuscitation Principles. Memorial Hospital Rhode Island, Pawtucket RI, Dec 2013.
23. **Bender J**, Wohlrab K. The Simulation Paradigm. Kent Grand Rounds, Warwick RI, Jan 2014.
24. **Bender J**. Establishing Sustained Culture Change Through Team Training. 6th International Pediatric Simulation Symposia and Workshop, Vienna AT April 2014
25. **Bender J**, Testani P. Think Tank On The Improvement Of Paediatric And Neonatal Mannequin Fidelity And Functionality. 6th International Pediatric Simulation Symposia and Workshop, Vienna AT April 2014.
26. **Bender J**. Fellow Career Paths. RI Hospital Pediatric Core Curriculum, Providence RI, Aug 2014.
27. Lechner B*, Bender J. Difficult Conversations Simulation Training in the NICU. International Fetal Medicine and Surgery Society Conference. Chatham MA, Sept 2014.
28. **Bender J**. *Ex officio* Medical Expert “Inquiry into the alleged miraculous healing attributed to the Servant of God” Office of the Tribunal, Diocese of Providence, RI, Sept 2014.
29. Robin B, Pocius A, Lawrence C, Dimond M, **Bender J**. The Environment That Best Supports the High-risk Infant: Closing the Gap on “What is” and “What Should Be”

Through In Situ Simulation. Gravens Developmental Conference, Clearwater FL, Feb 2015.

30. Yang S*, Murphy T, Collyer H, Kurkchubasche A, Bender J. Necrotizing Enterocolitis and Spontaneous Intestinal Perforation in the Neonatal Intensive Care Unit: A Case Cluster Analysis. Platform, New England Perinatal Society, Newport RI, March 2015.
31. **Bender J**, Dadiz R. Difficult Conversations Workshop. Rochester University Medical Center, Rochester NY, May 2015.
32. Robin B, Dadiz R, **Bender J**. Enhanced Simulation to Identify Latent Safety Hazards in Your NICU Vermont Oxford Network Annual Quality Congress, Chicago IL, October 2015.
33. Robin B, **Bender J**. *In Situ* Simulation: Identifying Safety Threats and Gaps in Family Centered Care in the Single Family Room Neonatal ICU Environment. International Meeting Simulation Healthcare, San Diego CA, Jan 2016.
34. **Bender J**, Robin B. Know the Gaps: Immerse Your Experts Before Moving Into Your New Environment. Roundtable, International Pediatric Simulation Society, Glasgow Scotland, May 2016.
35. **Bender J**, Robin B, Dadiz R. Simulation to Identify Latent Safety Threats in Healthcare Environments. Workshop, PAS/SPR, Baltimore MD, May 2016.
36. Odonnell M, Froehlich R, Slusarski J, **Bender J**. Honoring Patients' Decisions When You Don't Agree: An Exploration of Ethical Dilemmas. WIH, Providence, Jan 2016.

GENERALIZING TESTPILOT PRESENTATIONS

The listed institutions requested visits to WIHRI and a presentation by Dr. Bender.

1. BC Women's Hospital, Vancouver BC 2009, 2011
2. UMass Memorial, Worcester MA 2010
3. Long Island Jewish, Hyde Park NY 2010
4. Geisinger Health System, Danville PA 2010
5. Stonybrook SUNY, Stonybrook NY 2010, 2011
6. Tripler Army Medical Center, Honolulu HI 2010
7. McGill University Health Center, Montreal QB 2010, 2012, 2013
8. University Maryland Medical Center, Baltimore MD 2011
9. University of Rochester, Rochester NY 2011
10. Johns Hopkins Medical Center, Baltimore MD 2011
11. Brigham Women's Hospital, Boston MA 2011, 2013, 2015
12. Capital Health Medical Center, Trenton NJ 2011
13. Albany Medical Center, Albany NY 2011, 2013
14. Woman's Hospital, Baton Rouge LA 2012
15. West Penn Hospital, Pittsburgh PA 2012, 2013
16. Women & Children's Hospital, Buffalo NY 2012
17. Children's Hospital, Milwaukee WI 2012
18. Gold Coast Hospital, Australia 2012
19. Rush University Medical Center, Chicago IL 2013

20. Christiana Hospital, Newark DE	2013
21. Yale New Haven Hospital, New Haven CT	2013
22. All Children's Hospital, St. Petersburg FL	2013
23. Parkland Hospital, Dallas TX	2013
24. Florida Hospital for Children, Orlando FL	2013
25. Presbyterian / Cornell-Weill, New York NY	2015
26. Oslo University Hospital, Oslo Norway	2015

OTHER HOSPITAL TEACHING PRESENTATIONS

1. Persistent Pulmonary Hypertension. Women & Infants' Perinatal Management Conference, Providence RI, Aug 2002.
2. Organ Transplant in Neonates. Pathology Conference, Women and Infants' Hospital, Providence RI. January 2003.
3. Neonatal Hyperbilirubinemia. Women & Infants' Perinatal Management Conference, Providence RI, January 2003.
4. Chronic Respiratory Failure. Perinatal Management Conference, Women & Infants' Hospital, Providence RI, September 2003.
5. Spondyloepiphyseal Dysplasia. Women & Infants' Perinatal Management Conference, Providence RI, February 2004.
6. Surfactant Prophylaxis. Women & Infants' Perinatal Management Conference, Providence RI, July 2004.
7. Congenital Syphilis. Pathology Conference at Women and Infants' Hospital, Providence RI, July 2004.
8. Limits of Viability in 2004. ELBW Committee, Women & Infants Hospital, Providence RI, March 2004.
9. Parenteral nutrition and Growth. FP residents and nurses, Memorial Hospital, Pawtucket RI, 2005-2006.
10. Enteral Nutrition for the Premature Neonate. Memorial Hospital, Pawtucket RI, June 2006.
11. Towards Effective Education and Delivery of Neonatal Resuscitation. Perinatal Management Conference, Women and Infants' Hospital, March 2006. Repeat at Memorial Hospital, Pawtucket RI, April 2006.
12. Care of the Near Term Neonate. Association of Women's Health Obstetric and Neonatal Nurses, Warwick RI, September 2006.
13. Neonatal Mechanical Ventilation. Newport Hospital Grand Rounds, Newport RI, September 2006.
14. Neonatal Resuscitation Program Simulation. Memorial Hospital Pediatric Grand Rounds, Pawtucket RI, May 2007.

15. Simulation: to Err is Human. Women & Infants' Perinatal Management Conference, Providence RI. May 2007.
16. NICU SNAPPE LOS: From Length of Stay Predictions for Individual Neonates to Estimated NICU Census. Women & Infants Hospital, Providence RI, March 2008.
17. Neonatal Resuscitation Team Training: In situ simulation, measuring patient outcomes. Risk Management, Women & Infants Hospital, Providence RI, Jan 2008.
18. Debriefing the Difficult Simulation, directed a 2-day workshop, Women & Infants Hospital, Providence RI Nov 2008
19. Space Allocation for Simulation Center: Public Health Service Act Section 481A. Senior Leadership Team, Women & Infants Hospital, Providence RI, May 2009.
20. Neonatal Simulation Program. Millennium Conference at Women & Infants Hospital, Providence RI, Apr 2010.
21. Putting Together a Simulation Experience for Your Students. Women & Infants Hospital, Providence RI, April 2010.
22. Medical Simulation Center Demonstration. Women & Infants Hospital, Providence RI, April 2010.
23. Methicillin Resistant Staphylococcus Aureus. Women & Infants Quality Council, Providence RI, May 2010.
24. Transportation System Development, Medical Outreach in Kosovo. Women & Infants' Perinatal Management Conference, Providence RI, May 2010.
25. Transport simulations for regionalization contingent from Russia, Women & Infants' Hospital, Providence RI, October 2010.
26. NICU MedTeams: Who Benefits from Better Teamwork? Women & Infants' Perinatal Management Conference, Providence RI, March 2012
27. MedTeams Training and Utilization, Women & Infants' Hospital, Providence RI, August 2012.
28. WIH Simulation Program Updates, SLT July 2012, CNE Nov 2012, WIH Operations Aug 2013, CNE Quality Apr 2013; Care New England Simulation Program Update, CNE Board of Directors, Providence RI, Jan 2014
29. NICU Heat Map: Raising Situational Awareness. Women & Infants' Hospital, Providence RI, September 2012.
30. Simulation: The Rising Tide. Women & Infants' Perinatal Management Conference, Providence RI, Aug 2013.
31. Difficult Conversations in Neonatology. Women & Infants' Perinatal Management Conference, Providence RI, Oct 2014.
32. Neonatal Quality Update: Show me the Data. Women & Infants' Perinatal Management Conference, Providence RI, July 2015

GRANTS

1. Research Fellow, PHS Perinatal Biology Training Grant (T32-HD07511-05) \$89,312, 2003-2005.
2. Co-Investigator, Trial of Aggressive Versus Conservative Phototherapy in Infants <1,000 Grams Birth Weight, NICHD Cooperative Multicenter Neonatal Research Network Grant (2 U10 HD27904) \$485,431, 2006.
3. Co-Investigator, Improving Maternal and Child Health Services in Kosovo, USAID/AIHA (U-KO-XXX-09-P-PPA-PR), 2009-2012
(Funding amount unknown; no direct benefit to me.)
4. Principal Investigator, Generalizing TESTPILOT, Agency for Healthcare Research in Quality (R18 HS 023460-01) \$694053, 2014-2017

POSTDOCTORAL TRAINEES

Thomas Murphy, M.D., 2012-2015

HOSPITAL TEACHING ROLES

Neonatal Core Curriculum for Residents and Medical Students

2002-2008	Meconium Aspiration Syndrome
2004-2010	Infant of Diabetic Mother
2003-2006	Seizure Management in the NICU
2002-2015	Neonatal Hyperbilirubinemia
2002-2006	NICU Ventilator Management
2005-2006	GBS sepsis
2008-2015	Retinopathy of Prematurity
2008-2010	Intraventricular Hemorrhage
2008-2015	Resuscitation in the Delivery Room

Simulation-Based Medical Education programs

2008, 2012	Neonatal Nurse Practitioner Procedural Skills
2008-2015	Code Leadership for Fellows
2009-2015	Difficult Conversations for Neonatal Fellows
2011-2015	JIT-NRP for pediatricians, nursing, respiratory therapists
2013	NRP for Obstetricians
2012	MedTeams Training
2013-2015	QUEST/TeamSteps Sustainment
2014-2015	Neonatal Fellow Boot Camp
2006-2014	Mock Codes case review
2005	Pediatric Emergency Procedures Workshop
2008-2010	Chronic Lung Disease and Neurodevelopmental Outcomes
2011-2012	Educational rollout of WIH Infant Code / NRP changes

2013-2014 Fundamentals of Debriefing: faculty development series

TEACHING SETTINGS

2002-present Neonatal Intensive Care Unit clinical attending: 3 months/year
Teaching medical students, residents, fellows, NPs

2004-2011 RIH Medical Simulation Center

2011-present WIH Simulation Program

2006-present Neonatal Resuscitation Program Course Director

2007-present Electronic Medical Record NICU Implementation, Change
Management, Core Trainer

RESEARCH SETTINGS

Bilirubin

2002-2004 Ontogeny of Bilirubin Binding Capacity and Effect of Clinical Status

2004-2006 NICHD Neonatal Research Network RCT of Aggressive or Conservative
Phototherapy in ELBW Neonates, Secondary Study: Ontogeny of Bilirubin
Binding Capacity and Effect of Clinical Status

Simulation-Based Medical Education

2006-2008 Impact of High Fidelity Delivery Room Simulation on Resident Education
and Retention

2008-2009 NRP Enhanced by High Fidelity Simulation Reduces Skill Extinction at One
Year

2008-2009 Emergency Medicine Residents taught Neonatal Resuscitation using
Simulation Enhanced Training have Improved Resuscitation skills

2009-present Difficult Conversations

2011-present Post-simulation Debriefing

Systems Evaluation

2008-2013 NICU Census Prediction Model

2008 Transportable Enhanced Simulation Technologies for Pre-Implementation
Limited Operations Testing (TESTPILOT) in the Neonatal Intensive Care
Unit

2010-present Generalizing TESTPILOT

2012 Regional Disaster Planning and NICU Evacuation