

Martha A.Q. Curley, RN, PhD, FAAN
Ruth M. Colket Endowed Chair in Pediatric Nursing

December 2020

BUSINESS ADDRESS

University of Pennsylvania
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EDUCATION

Ph.D.	1997	Boston College Chestnut Hill, MA 02467
M.S.N.	1987	Yale University Clinical Nurse Specialist: Pediatric Acute Care Nursing New Haven, CT 06536
B.S.	1985	University of Massachusetts – Amherst, Nursing Amherst, MA 01003
Diploma	1973	Springfield Hospital Medical Center, Nursing Springfield, MA 01199

Fellowships

1994-1997	Fellow, Nursing Research Boston College; Chestnut Hill, MA 02467
1986-1988	Louise Mellen Fellow Critical Care Nursing Yale University; New Haven, CT 06536

PROFESSIONAL EXPERIENCE

ACADEMIC POSITIONS

2010-present	Professor of Nursing Ruth M. Colket Endowed Chair in Pediatric Nursing (2018-present) Ellen and Robert Kapito Professor in Nursing Science (2011-2017) School of Nursing Secondary Appointment: Anesthesia and Critical Care Medicine
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- Perelman School of Medicine
University of Pennsylvania, Philadelphia, PA
- 2007-2017 Lecturer (part time) - Anesthesia
Harvard Medical School, Boston, MA
- 2007-2010 Associate Professor (with tenure)
Killebrew-Censits Endowed Term Associate Professor (2008-2010)
School of Nursing
Secondary Appointment: Anesthesia and Critical Care Medicine
Perelman School of Medicine
University of Pennsylvania, Philadelphia, PA
- 2006-2007 Adjunct Associate Professor - Pediatric Nursing
Associated Faculty, School of Nursing
University of Pennsylvania, Philadelphia, PA
- 2004-2007 Assistant Clinical Professor - Anesthesia
Harvard Medical School, Boston, MA
- 2001-2004 Instructor in Anesthesia
Harvard Medical School, Boston, MA
- 2000-2007 Visiting Scholar
School of Nursing, Boston College, Boston, MA
- 1997-2006 Adjunct Assistant Professor - Pediatric Nursing
Associated Faculty, School of Nursing
University of Pennsylvania, Philadelphia, PA

CLINICAL POSITIONS

Children's Hospital of Philadelphia, Philadelphia, PA

2018-present Ruth M. Colket Endowed Chair in Pediatric Nursing

Boston Children's Hospital, Boston, MA

- 2007-2017 Nurse Scientist, Critical Care & Cardiovascular Nursing
- 2005-2007 Faculty, Program for Patient Safety and Quality
- 2000-2007 Director Nursing Research, Critical Care & Cardiovascular Nursing
- 2000- 2001 Director, Center for Clinical Innovation and Scholarship in Pediatric Nursing

- 1992-1993 Interim Nurse Director, Multidisciplinary ICU
1987- 2001 Clinical Nurse Specialist, Multidisciplinary ICU

Baystate Medical Center, Springfield, MA

- 1981-1985 Critical Care Instructor, Pediatric Intensive Care Unit
1973-1981 Staff Nurse, General and Pediatric Intensive Care Units

LICENSURE

- 2007-present Pennsylvania License (Nursing) #RN582079
1973-present Massachusetts License (Nursing) #119733

HONORS AND AWARDS

- 2021 Drs. Vidyasagar and Nagamani Dharmapuri Award
Society of Critical Care Medicine
- 2019 Marion Barrett Lecture 2019
The University of Melbourne, Victoria, Australia
- 2017 Thomas Vargo Lecture (First Nurse Recipient)
Texas Children's Hospital
- 2016 National Academy of Medicine
Member
- 2016 Hugh P. Davis Lecture
Nell Hodgson Woodruff School of Nursing
Emory University
- 2015 Anna Reynvaan Lecture
Amsterdam, Netherlands
- 2015 Distinguished Contributions to Nursing Research Award
ENRS - Eastern Nursing Research Society
- 2014 Nurse Researcher Hall of Fame
Sigma Theta Tau International Honor Society of Nursing
- 2013 Presidential Citation
Society of Critical Care Medicine

- 2013 Selected as one of “90 Nurses for 90 Years”
Yale University School of Nursing
- 2013 Claire M. Fagin Distinguished Researcher Award
University of Pennsylvania School of Nursing
- 2013 ACCM Distinguished Investigator Award
Society of Critical Care Medicine
- 2012 Distinguished Research Lecturer Award
American Association of Critical Care Nurses
- 2011 Elizabeth McWilliams Miller Award for Excellence in Research
Sigma Theta Tau International Foundation for Nursing
- 2011 Research Award
University of Pennsylvania School of Nursing
Department of Family & Community Health - award to a department faculty member who demonstrates evidence of significant, outstanding and sustained contributions to an evolving scientific base for the discipline of nursing with translation of knowledge for application.
- 2010 Barbara J. Lowery Doctoral Student Organization Faculty Award –award given by the doctoral students to a member of the faculty that has advanced nursing science through exemplary doctoral student mentorship.
- 2009 1st Annual Memorial Lecture Mary Beth Esposito-Herr
Synergy: The Unique Relationship between Nurses and Patients.
- 2009 2009 International Award; Best of Book Award; Sigma Theta Tau International
Synergy: The Unique Relationship between Nurses and Patients.
- 2009 Marcia Kay Gillece Lecture; Chicago Memorial Hospital, IL
Parent presence during invasive procedures and resuscitation - Making change happen
- 2009 New England Finalist and Winner Advancing and Leading the Profession
Nursing Spectrum’s Excellence Award
- 2009 Silver Remi Award; Training videos; Worldfest Houston
Training Parent Facilitators
- 2007 Endowed Lecture - Mercy Children’s Hospital, Kansas City
- 2007 Second Annual T. Garrett Rauch Memorial Lecture
Children’s Hospital of Philadelphia

- 2006 Visiting Scholar - Children's Hospital of Wisconsin
- 2005 Visiting Scholar - Center for Research in Chronic Disorders
University of Pittsburgh School of Nursing
- 2005 Named Speaker; 7th Annual Convocation
Center for Excellence in Chronic Illness Care; Yale University School of Nursing
- 2002 Norma J. Shoemaker Award; Society of Critical Care Medicine
- 2002 Book of the Year; American Journal of Nursing
Critical Care Nursing of Infants and Children, Second edition
- 2000 Special Contributor Award; American Association of Critical Care Nurses
- 1998 Fellowship; American Academy of Nursing
- 1998 Nursing Research Award; Baystate Medical Center Nurses Alumni
- 1997 Distinguished Alumna Award; Yale University School of Nursing
- 1997 Book of the Year; American Journal of Nursing
Critical Care Nursing of Infants and Children, First edition
- 1996 Lifetime Membership; American Association of Critical Care Nurse
- 1989 Media-Electronic Award; Sigma Theta Tau International
- 1988 "125 Alumni to Watch"; University of Massachusetts - Amherst
- 1987 Andrew A. Veckerelli Prize; Yale University School of Nursing

RESEARCH

Doctoral Dissertation

Curley, M.A.Q. (1997). *Clinical predictors of progress in weaning pediatric patients with acute respiratory failure from mechanical ventilation*. (Doctoral dissertation). Boston College, Boston, MA. Dissertation Supervisor: Mary E. Duffy, R.N., PhD DAI: 2000013709.

Funded Research Grants

Principal Investigator: \$38M Co-Investigator: \$34.8M

Eunice Kennedy Shriver National Institute of Child Health & Human Development
Post-Intensive Care Syndrome Pediatrics, Longitudinal Cohort study
R01 HD 098269

2020-2025

Multiple Principal Investigators: M.A.Q. Curley & R.S. Watson
\$3.2 million

Leveraging Biomarkers to Identify Subphenotypes in Children with Acute Respiratory Distress Syndrome

R21 HD097387

2019-2021

Principal Investigators: Mary K. Dahmer, PhD; Heidi Flori, MD

Co-investigator: M.A.Q. Curley (5% effort)

\$459,479

Endotypes in Children with Severe Acute Respiratory Distress Syndrome: Impact on Response to Treatment (ENSNARE)

R01 HL149910

2019-2024

Principal Investigators: Mary K. Dahmer, PhD; Heidi Flori, MD

Co-investigator: M.A.Q. Curley (3% effort)

\$3.5 million

PROSpect: Prone and Oscillation Pediatric Clinical Trial

UH3HL141736 – U24HL141723

2018-24

Principal Investigators: M.A.Q. Curley (50%; Contact PI); I. Cheifetz; M.C.J. Kneyber

\$1.7 Million (Year 1); \$15 Million (Years 2-6)

Identifying and preventing ventilator induced diaphragm weakness in children

R01 HL134666

2017-2022

Principal Investigator: Robinder G. Khemani, MD

Co-investigator: M.A.Q. Curley (10% effort years 1-5)

\$2.8 Million

Eunice Kennedy Shriver National Institute of Child Health & Human Development

RESTORE resilience in critically ill children

R21 HD093369

2017-2019

Multiple Principal Investigators: M.A.Q. Curley, S.R. Kudchadkar, A.F. Zuppa, (2.5% effort years 1-2)

\$275,000

Eunice Kennedy Shriver National Institute of Child Health & Human Development

Sedation Strategy and Cognitive Outcome after Critical Illness in Early Childhood

R01 HD074757

2013-2019

Multiple Principal Investigators: M.A.Q. Curley & R.S. Watson (25% effort years 1-5)

\$3.1 Million

2013 AACN Impact Research Grant

Predicting Immobility-related and Medical Device-related Pressure Ulcer Risk in Pediatric Patients

2013-2014

Principal Investigator: M.A.Q. Curley

\$49,135

National Institute of Nursing Research

Transitional Telehealth Home Care: REACH

R01 NR002093

2011-2016

Principal Investigator: Barbara Medoff-Cooper

Co-investigator: M.A.Q. Curley (5% effort years 1-5)

\$3.4 Million

National Heart, Lung, and Blood Institute (NHBLI)

HALF-PINT: Heart And Lung Failure – Pediatric INSulin Titration trial

R01 HL107681 and R01 HL108028

2011-2016

Principal Investigators: M. Agus, MD; V. Nadkarni, MD

Co-investigator: M.A.Q. Curley (10% effort years 1-5)

\$13.4 Million

National Heart, Lung, and Blood Institute (NHBLI)

Impact of pharmacokinetics and pharmacogenetics on the duration of mechanical ventilation in pediatric patients with acute respiratory failure

R01 HL098087

2009-2013

Principal Investigator: A. F. Zuppa, MD

Co-investigator: M.A.Q. Curley (10% effort years 1-5)

\$1.7 Million

[Ancillary to: *Sedation management in pediatric patients supported on mechanical ventilation for acute respiratory failure* 1 U01 HL086622-01A1 and 1 U01 HL086649-01A1]

National Heart, Lung, and Blood Institute (NHBLI)

Genetic variation and biomarkers in children with acute lung injury

R01 HL095410

2009-2014

Principal Investigators: M. Quasney, MD and H. Flori, MD

Collaborator: M.A.Q. Curley

\$1.5 Million

[Ancillary to: *Sedation management in pediatric patients supported on mechanical ventilation for acute respiratory failure* 1 U01 HL086622-01A1 and 1 U01 HL086649-01A1]

National Heart, Lung, and Blood Institute (NHBLI)

National Institute of Nursing Research (NINR)

RESTORE: Sedation management in pediatric patients supported on mechanical ventilation for acute respiratory failure

U01 HL086622 and U01 HL086649

2008-2015

Principal Investigator: M.A.Q. Curley (60% effort years 1-5)

DCC Principal Investigator: D. Wypij

\$12 Million

Agency for Healthcare Research and Quality (AHRQ)

Children's Hospital Boston Center of Excellence for Quality Measurement

U18 HS020513

2011-2013

Principal Investigator: M. Schuster, MD, PHD

Co-investigator: M.A.Q. Curley (5% effort years 1-2)

\$8.0 Million

National Institute of Nursing Research

Toward optimal end-of-life care in the PICU

R01 NR09298

2005-2009

Principal Investigator: Robert Truog, MD

Co-investigator: M.A.Q. Curley (3% effort years 1, 2, 4)

\$2.1 Million

Gustavus and Louise Pfeiffer Foundation

Sedation management in pediatric patients supported on mechanical ventilation for acute respiratory failure

2004-2008

Principal Investigator: M.A.Q. Curley

\$225,000

Eunice Kennedy Shriver National Institute of Child Health & Human Development

Sedation management in pediatric patients supported on mechanical ventilation for acute respiratory failure

R21 HD045020

2001-2006

Principal Investigator: M.A.Q. Curley

\$371,425

Society of Critical Care Medicine

2003 Norma J. Shoemaker Grant for Critical Care Nursing Research

Does the use of a moisture chamber decrease the incidence of corneal abrasions in critically ill pediatric patients?

2003-2004

Principal Investigator: L. Sorce; Chicago Memorial Hospital

Senior Investigator: M.A.Q. Curley

\$15,000

American Association of Critical Care Nursing Critical Care Grant

Does the use of a moisture chamber decrease the incidence of corneal abrasions in critically ill pediatric patients?

2003-2004

Principal Investigator: L. Sorce; Chicago Memorial Hospital

Senior Investigator: M.A.Q. Curley

\$15,000

National Institute of Nursing Research

Prone positioning in pediatric acute lung injury

R01 NR05336

2001-2006

Principal Investigator: M.A.Q. Curley

\$2,268, 279

AACN Certification Corporation Research Grant

Phase one instrument development: "Parents perceptions of being cared for well"

2001-2002

Principal Investigator: M.A.Q. Curley

\$10,000

AACN Certification Corporation Research Grant

Patients' and families perceptions of being cared for well.

2000-2001

Co-Principal Investigators: D. Stannard and M.A.Q. Curley

\$10,000

Society of Critical Care Medicine

1998 Norma J. Shoemaker Grant for Critical Care Nursing Research

Phase one study of early repeated prone positioning on clinical outcomes in pediatric patients with acute respiratory failure.

1998-2000

Principal Investigator: M.A.Q. Curley

\$15,000

AACN-Sigma Theta Tau International Critical Care Grant

Phase one study of early repeated prone positioning on clinical outcomes in pediatric patients with acute respiratory failure.

1998-1999

Principal Investigator: M.A.Q. Curley
\$10,000

Sigma Theta Tau International/Virginia Henderson Clinical Research Grant
Phase one study of early repeated prone positioning on clinical outcomes in pediatric patients with acute respiratory failure.
1997-1998 (1st recipient)
Principal Investigator: M.A.Q. Curley
\$5,000

Advisory Board

Care Transitions and Teamwork in Pediatric Trauma: Implications for HIT Design
AHRQ
Principal Investigator: A.P. Gurses, PhD
Johns Hopkins University

Data Safety Monitoring Board

KL-4 AHRF-01 Protocol

A multicenter, randomized, masked, placebo-controlled trial to assess the safety and efficacy of LUCINACTANT in acute hypoxemic respiratory failure in children up to two years of age
Principal Investigator: C. Guardia, MD, Discovery Laboratories Inc.
Chair DSMB: M.A.Q. Curley

Funded Program Grants - Educational

Educational Initiatives/Investing in The Future
PENN Nursing
Undergraduate curriculum revision project
2009-2010
Award: P. D'Antonio & M.A.Q. Curley, Co-Chairs, Undergraduate Curriculum Committee
\$20,000

Hahnemann Hospital Foundation
Parent presence during a child's invasive procedure and/or resuscitation
2006-2007
Principal Investigator: M.A.Q. Curley
\$35,000

PUBLICATIONS

Scopus: 7005220720
Orcid: 0000-0001-5228-6694
ResearcherID: F-3579-2016

Journal Articles: Research, Peer Reviewed (* indicates data-based)

*Carlton, E.F., Weeks, H., Dahmer, M., Quasney, M., Sapru, A., Curley, M.A.Q., Flori, H. (in review) Inflammatory Biomarkers Are Associated with a Decline in Functional Status at Discharge in Children with Acute Respiratory Failure: An Exploratory Analysis

*Costa Monteiro, A.C., Flori, H., Dahmer, M.K., Sim, M.S., Quasney, M.W., Curley, M.A.Q., Matthay, M.A., Sapru, A. (in review). Thrombomodulin is Associated with Increased Mortality and Organ Failure in Mechanically Ventilated Children with Respiratory Failure.

*Kachmar, A.G., Wypij, D., Curley, M.A.Q. (in review). The association of socioeconomic status with illness severity upon PICU admission in children with acute respiratory failure.

*Rad, L., Carter, B., Curley, M.A.Q., Copnell, B., Tume, L.N. (in review). Endotracheal Suctioning by PICU Nurses does not always reflect best-available evidence: An International E-Cross Sectional Survey of Practice.

*Monteiro, A.C., Flori, H., Dahmer, M.K., Sim, M.S., Quasney, M.W., Curley, M.A.Q., Matthay, M.A., Sapru, A. (in review.) Thrombomodulin is Associated with Increased Mortality and Organ Failure in Mechanically Ventilated Children with Respiratory Failure.

*Kopp W, Gedeit RG, Asaro LA, McLaughlin GE, Wypij D, Curley MAQ for the RESTORE Investigators. (in press). The Impact of Pre-intubation Noninvasive Ventilation on Outcomes in Pediatric Acute Respiratory Distress Syndrome. *Crit Care Med*.

*Staveski, S.L., Pickler, R.H., Khourdy, P Curley, M.A.Q. (2021) Prevalence of ICU Delirium in Postoperative Pediatric Cardiac Surgery Patients. *Pediatr Crit Care Med. ediatr Crit Care Med. Jan 1;22(1):68-78*. (PMID: 33065733)

*Natale JE, Asaro LA, Joseph JG, Ulysse C, Ascenzi J, Bowens C, Wypij D, Curley MAQ. for the Randomized Evaluation of Sedation Titration for Respiratory Failure (RESTORE) Study Investigators (2021). Association of Race and Ethnicity with Sedation Management in Pediatric Intensive Care. *Ann Am Thorac Soc*;18(1):93-102. (PMID: 32776853; PMCID: PMC7780975)

*Lebet, R., Hasbani, N.R., Sisko, M.T., Agus, M.S.D., Nadkarni, V.M., Wypij, D., Curley, M.A.Q. (2021). Nurse Perceptions of Workload Burden in Pediatric Critical Care. *Am J Crit Care*; 30:27-35.

*Sorce, L.R., Schoeny, M.E., Curley, M.A.Q., Meier, P.P. (2020) Are mothers certain about their perceptions of recalled infant feeding history? *J Pediatr Health Care*.S0891-5245(20)30232-7. (PMID: 33020013)

*Kohne, J.G., Dahmer, M.K., Weeks, H.M., Kaciroti, N., Quasney, M.W., Sapru, A., Curley, M.A.Q., Matthay, M., Flori, H.R. (2020) Impact of bilateral infiltrates on inflammatory biomarker levels and clinical outcomes of children with oxygenation defect. *Crit Care Med* 2020; 48:e498–e504.

- *Stellar, J.J., Hasbani, N.R., Kulik, L.A., Shelley, S.S., Quigley, S., Wypij, D., Curley, M.A.Q. (2020). Medical Device–Related Pressure Injuries in Infants and Children. *J Wound Ostomy Continence Nurs*; 47(5): 459-469.
- *Ward, S.L., Dahmer, M.K., Weeks, H.M., Sapru, A., Quasney, M.W., Curley, M.A.Q., Liu, K.D., Matthay, M.A., Flori, H.R., (2020). Association of patient weight status with plasma surfactant protein D, a biomarker of alveolar epithelial injury, in children with acute respiratory failure. *Pediatr Pulmonology*. 2020; 55: 2730–2736. <https://doi-org.proxy.library.upenn.edu/10.1002/ppul.24990>
- *Medoff-Cooper, B., Marino, B.S., Fleck, D.A., Lisanti, A.J., Golfenshtein, N., Ravishankar, C., Huang, L., Hanlon, A.,L., Curley, M.A.Q. (2020) Telehealth home monitoring post-cardiac surgery for congenital heart disease: REACH; *Pediatr*. 146(3): e20200531 (PMID: 32817266; PMCID: PMC7461139)
- *Lincoln, P.A., Whelan, K., Hartwell, L.P., Gauvreau, K., Dodsens, B.L., LaRovere, J.M., Thiagarajan, R.R., Hickey, P.A., Curley, M.A.Q., (2020) Nurse-implemented goal-directed strategy to improve pain and sedation management in a pediatric cardiac intensive care unit. *Pediatr Crit Care Med*. 21(12):1064-1070. (PMID: 32740188)
- *Dahmer, M., Flori, H., Sapru, A., Kohne, J., Weeks, H., Curley, M.A.Q. Matthay, M., Quasney, M. (2020). Surfactant Protein D is Associated with Severe Pediatric Acute Respiratory Distress Syndrome, Prolonged Ventilation, and Death in Children with Acute Respiratory Failure. *CHEST*;158(3):1027-1035. (PMID: 32275979 PMCID: PMC7478231)
- *Clapp, J.T., Diraviam, S.P., Lane-Fall, M.B., Szymczak, J.E., Muralidharan, M., Chung, J.J., Gutsche, J.T., Curley, M.A.Q., Berns, J.S., Fleisher, L.A. (2020). The Nephrology Consultant in the Intensive Care Unit: A Qualitative Study of 1 Interdisciplinary Interaction. *AJKD*; 75(1): 61-71.
- *Kulik, L.A., Hasbani, N.R., Stellar, J.J., Quigley, S.M., Shelley, S.S., Wypij, D., Curley, M.A.Q. for Braden QD Study Group (2019). Hospital-Acquired Pressure Injuries in Children with Congenital Heart Disease: Prevalence and Associated Factors. *Pediatr Crit Care Med* 2019; 20:1048–1056. (PMID: 31385861)
- *Solodiuk, J.C., Greco, C.D., O'Donnell, K.A., Morrill, D.R., Curley, M.A.Q. (2019). Effect of a Sedation Weaning Protocol on Safety and Medication Use among Hospitalized Children Post Critical Illness. *J Peds Nsg*; 49: 18–23. <https://doi.org/10.1016/j.pedn.2019.08.001>
- *Watson, R.S., Asaro, L.A., Hutchins, L., Bysani, G.K., Killien, E.Y., Angus, D.C., Wypij, D., Curley, M.A.Q., (2019). Risk Factors for Functional Decline and Impaired Quality of Life after Pediatric Respiratory Failure. *Am J Respir Crit Care Med*. (PubMed: 31034245; PMCID: PMC6812438)
- *Flori, H., Sapru, A., Quasney, M.W., Gildengorin, G., Curley, M.A.Q. Matthay, M.A., Dahmer,

M.K., and for the BALI and RESTORE Study Investigators and Pediatric Acute Lung Injury and Sepsis (PALISI) Network. (2019). A Prospective Investigation of Interleukin-8 Levels in Pediatric Acute Respiratory Failure and Acute Respiratory Distress Syndrome. *Critical Care*; 23:128. (PMID: 30995942; PMCID: PMC6471952)

*de Jager, P., Kamp, Y., Dijkstra, S.K., Burgerhof, Markhorst, D.G., Curley, M.A.Q., Cheifetz, I.M., Martin C.J. Kneyber, M.C.J. (2019) Feasibility and safety of a physiologic, open-lung high – frequency oscillatory ventilation approach in children. *Ann Intensive Care*. 18;9:9. (PMID: 30659380; PMCID: PMC63386133)

*Zuppa, A.F., Benitez, G.R., Zane, N.R., Curley, M.A.Q., Bradfield, J., Hakonarson, H., Gastonguay, M.S., Moorthy, G., Prodell, J., Gastonguay, R.R. (2019). Morphine Dose Optimization in Critically Ill Pediatric Patients with Acute Respiratory Failure: A Population Pharmacokinetic-Pharmacogenomic Study. *Crit Care Med*; 47:e485–e494. (PMID: 30920410)

*Zuppa, A.F., Conrado, D.J., Zane, N.R., Curley, M.A.Q., Bradfield, J., Hakonarson, H., Gastonguay, M.S., Moorthy, G., Prodell, J., Gastonguay, R.R. (2019). Midazolam Dose Optimization in Critically Ill Pediatric Patients with Acute Respiratory Failure: A Population Pharmacokinetic-Pharmacogenomic Study. *Crit Care Med*. 47(4):e301-e309. (PMID: 30672747)

*Best, K.M., Asaro, L.A., Curley, M.A.Q. for the RESTORE Study Investigators. (2019). Sedation management for critically ill children with pre-existing cognitive impairment: Is it different? *J Pediatr*. 206; 204-211. (PMID: 30527750; PMCID: PMC6389364)

*Dahmer, M.K., Quasney, M.W., Sapru, A., Gildengorin, G., Curley, M.A.Q. Matthay, M.A., and Flori, H., for the BALI and RESTORE Study Investigators and Pediatric Acute Lung Injury and Sepsis (PALISI) Network. (2018). Interleukin-1 receptor antagonist is associated with pediatric acute respiratory distress syndrome and worse outcomes in children with acute respiratory failure. *Pediatr Crit Care Med*. 19(10):930-938. (PMID: 30095747; PMCID: PMC6170680)

*Staveski, S.L., Pickler, R.H., Lin, L., Shaw, R.J., Meizen-Derr, Redington, A. Curley, M.A.Q. (2018). Management of Pediatric Delirium in Pediatric Cardiac Intensive Care Patients: An International Survey of Current Practices. *Pediatr Crit Care Med*; 19:538–543. (PMID: 29863637)

*Barbaro, R.P., Xu, Y., Borasino, S., Truemper, E.J., Watson, R.S., Thiagarajan, R.R., Wypij, D., Curley, M.A.Q., for the RESTORE Study Investigators. (2018). Extracorporeal Membrane Oxygenation in severe pediatric acute respiratory failure – a matched analysis. *Am J Respir Crit Care Med*. 197(9):1177-1186. (PMID: 29373797; PMCID: PMC6019927)

*Lebet, R., Asaro, L.A., Zuppa, A.F. Curley, M.A.Q. (2018). Face and Content Validity of Variables Associated with the Difficult-to-Sedate Child in the Pediatric Intensive Care Unit: A Survey of Pediatric Critical Care Clinicians. *Australian Critical Care*; 31(3): 167-173. (PMID: 29567042; PMCID: PMC5936660).

Watson, R.S., Asaro, L.A., Hertzog, J.H., Sorce, L., Kachmar, A.G., Dervan, L.A., Angus, D.C., Wypij, D., Curley, M.A.Q., for the RESTORE Study Investigators and the Pediatric Acute Lung

Injury and Sepsis Investigators (PALISI) Network. (2018). Long-term outcomes after protocolized sedation vs usual care in ventilated pediatric patients. *Am J Respir Crit Care Med.* 197(11):1457-1467. (PMID: 29313710; PMCID: PMC6005554)

*Curley, M.A.Q., Hasbani, N.R., Quigley, S.M., Stellar, J.J., Pasek, T.A., Shelley, S.S., Kulik, L.A., Chamblee, T.B., Dilloway, M.A., Caillouette, C.N., McCabe, M.A., Wypij, D., (2018) Predicting pressure injury risk in pediatric patients: the Braden QD Scale. *J Pediatr* 2018;192:189-95). (PMID: 29246340)

*Froh, E.B., Deatrck, J.A., Curley, M.A.Q., and Spatz, D.L. (2017). Mothers of infants with congenital diaphragmatic hernia describe “Breastfeeding” in the Neonatal Intensive Care Unit: “As long as it’s my milk, I’m happy”. *Journal of Human Lactation: Official Journal of International Lactation Consultant Association*; 33(3):524-532. (PMID: 28609176)

*Schneider, J.B., Sweberg, T., Asaro, L.A., Kirby, A., Wypij, D., Thiagarajan, R.R., Curley, M.A.Q. for the RESTORE Study Investigators. (2017). Sedation Management in Children Supported on Extracorporeal Membrane Oxygenation for Acute Respiratory Failure. *Crit Care Med*; 45(10): e1001–e1010 (doi: 10.1097/CCM.0000000000002540).

*Lebet, R., Hayakawa, J., Chamblee, T.B., Tala, J.A., Singh, N., Wypij, D., Curley, M.A.Q. for the RESTORE Study Investigators. (2017). Maintaining Interrater Agreement of Core Assessment Instruments in a Multisite Randomized Controlled Clinical Trial. *Nursing Research*, 66(4), 323–329. (PMID: 28654569; PMCID: PMC5488692)

*Natale JE, Lebet R, Joseph JG, Ulysse C, Ascenzi J, Wypij D, Curley MAQ. for the Randomized Evaluation of Sedation Titration for Respiratory Failure (RESTORE) Study Investigators (2017) Racial and ethnic disparities in parental refusal of consent in a large, multisite pediatric critical care clinical trial. *The Journal of Pediatrics.* *J Pediatr*, 184, 204-208. (PMID: 28410087)

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- *∞ Cheifetz IM, Sherwin JI, Asaro LA, Wypij D, Cassidy A, Kneyber MCJ, Curley MAQ. (2018). Pediatric intensivists' perceptions of a clinically meaningful improvement in ventilator-free days. 47th Critical Care Congress, Society of Critical Care Medicine, San Antonio, TX (Feb, 2018)
- *∞ Walsh L, Carter B, Copnell B, Curley MAQ, Tume LN. (2017) An international survey of endotracheal suctioning by nurses in PICU. ESPNIC 2017
- *∞ Snyder M, Garcia M, Hutchins L, Lee C, Curley MAQ. (2016). Circadian rhythms in the PICU from the parent's perspective. 8th World Congress on Pediatric Intensive and Critical Care, Toronto, Canada (June)
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Curley, M.A.Q. (2007). *Facilitating parent presence during a child's invasive procedure and/or resuscitation*. [DVD]. Boston, MA: Fanlight Productions.

Curley, M.A.Q. (2006). *Assessing sedation levels of mechanically ventilated pediatric patients* [Pod cast]. iCritical Care. SCCM Pod-26.

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Curley, M.A.Q. (1989). *Red flags in the critically unstable pediatric patient* [videocassette]. New York, NY: American Journal of Nursing.

CONSULTATION: RESEARCH/EDUCATIONAL

2016	Pediatric Intensive Care	Ministry of Health, Singapore
2015	Subject Matter Expert – SBS	Hospira
2014	Subject Matter Expert – WAT-1	Bracket/AstraZeneca

2013-	Associate Faculty member	CRISMA and CRISMAkids (Clinical Research, Investigation, and Systems Modeling of Acute illness) University of Pittsburgh Department of Critical Care Medicine
2013	Synergy Model	Dana Farber Cancer Institute, Boston, MA
2011-2012	Synergy Model	Harris County Hospital District, Houston, TX
2007-2009	Inhalational Anesthetics/Sedation	Ad Hoc Study Group
2007-2009	Synergy Model	Dana Farber Cancer Institute, Boston, MA
2007	Synergy Model	Children's Hospital Wisconsin, Milwaukee, WI
2005	Professional Advancement Program	Mercy Hospital, Miami, FL
2004	Models of Care	Children's Medical Center of Dallas, TX
2004	Models of Care	Acibadem Healthcare Group, Istanbul, Turkey Harvard Medical International
2002	Pediatric Standards of Care	Doernbecher Children's Hospital, Portland, OR
2001-2003	Synergy Model	Clarian Healthcare System, Indianapolis, IN
2002	Synergy Model	San Diego Children's Hospital, CA
2000	Pediatric Critical Care	Miami Children's Hospital, FL
1999	Pediatric Intensive Care	Royal Children's Hospital University of Melbourne Monash University Melbourne, Australia
1999	Models of Care Delivery	Doernbecher Children's Hospital, Portland, OR
1998	Pediatric Intensive Care	Ministry of Health, Singapore
1998	Family-Centered-Care	Lucile Packard Children's at UCSF. San Francisco, CA

1998	Family-Centered-Care	San Diego Children's Hospital, CA
1997	Pediatric Critical Care	Hospital for Sick Children, Toronto, Ontario
1997	PICU Clinical Research	Children's Memorial Hospital, Chicago, IL
1996	Family-Centered-Care	Children's Hospital of Wisconsin, Milwaukee, WI
1993	Pediatric Critical Care	Children's Hospital, Oakland, CA

RECENT LECTURES

International Invited Lectures (past 12 years)

- 2020 *Creating a healing environment in our PICU; Building a Program of Research – from scratch!* 10th World Congress on Pediatric Intensive and Critical Care. Mexico City (Virtual; December)
- 2020 *Advancing Nursing Science North American perspective;* EAPS 2020 Virtual Congress (European Academic Pediatric Society); Barcelona (Virtual; Oct)
- 2020 *International Year of the Nurse: Inspiring the future Workforce: Research/Science;* e-PICS 2020 (virtual); London, UK (Virtual; Oct)
- 2020 *Novel factorial design,* Critical Care Clinical Trialists Workshop; French Embassy, Washington, DC (Feb)
- 2019 *Involve the Family- Relationships that Sustain Patients, Families (and Nurses); Too Sick to be in the ICU? Toxic or Healing Environments;* Critical Care Canada Forum, Toronto, Canada (November)
- 2019 *Paediatric Critical Care Research,* University of Tasmania's Hobart, Australia (October)
- 2019 *Building a programme of research, Prone positioning in severe P/ARDS, Clinical trials in pARDS,* World Congress of Intensive Care, Melbourne, Australia (October)
- 2019 *Surviving pediatric critical illness; Opportunities to improve long-term Outcomes;* Marion Barrett Lecture 2019; University of Melbourne, AU (October)
- 2019 *Reducing research waste: making pediatric studies more efficient; Developing yourself as a researcher and your program of research;* 4th International multidisciplinary pediatric and neonatal acute and critical care research summer school Bristol, United Kingdom (July)

- 2018 *Innovative Trial Designs – It’s all about efficiency and precision. How to build a research program? Optimize Sedation - Minimize Mechanical Ventilation*; 9th Congress of the World Federation of Pediatric Intensive & Critical Care Societies. Singapore (June, 2018)
- 2017 *Opening Plenary: Moving your research career forward. Small grants, big grants: Show me the money!* 3rd International Multidisciplinary Paediatric & Neonatal Acute and Critical Care Research School. Rome, Italy (October)
- 2017 *Opening Plenary: Weaning sedation and delirium; The art and science of paediatric critical care rehab and outcomes: where have we come from and where should we be going?* (Surviving Paediatric Critical Care Preconference). 2017 Annual Meeting of the Paediatric Intensive Care Society, Nottingham, UK (October)
- 2017 *Pathway Outcomes: Do they really improve care?* World Congress of Pediatric Cardiology and Cardiac Surgery 2017. Barcelona, Spain (July)
- 2016 *Embedding the Science in PICU/NICU Nursing; Sedation Protocols in Children with Acute Respiratory Failure*. EAPS: European Academy of Paediatric Societies. Geneva, Switzerland (October)
- 2016 *Sedation and the ICU Environment (Plenary); Life After Critical Illness – State of the Science and Future Directions (Convener: Preconference workshop); Specific Aims: The basis for any grant proposal (Preconference workshop: First Steps in a Clinical Research Career); Challenges of Establishing and Funding clinical trial (Parallel session)*. 8th World Congress on Pediatric Intensive and Critical Care. Toronto, CA (June)
- 2016 *Team Science - complex clinical problems require interprofessional investigation; Presence during a child’s invasive procedure or resuscitation; Managing comfort in the pediatric patient; Improving the ICU environment*. 36th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium (March)
- 2016 *Measure to improve Nursing Care Across a Healthcare System*. CHUV L’Institut universitaire de formation et de recherche en soins – IUFRS; Lausanne, Switzerland (January)
- 2016 *Team Science: Creating a “dream team” for research; Protocol and grant writing*; 2nd International Multidisciplinary Paediatric and Neonatal Acute and Critical Care Research School. Lausanne, Switzerland (January)
- 2015 *Toxic or Healing Intensive Care Environments? (Plenary); Leading Change-Science Supporting the Future of Paediatric Nursing Practice; Synergy: The Unique Relationship between Nurses and Families in the PICU; RESTORE – Nurse Implemented Goal – Directed Sedation in Paediatric Patients on Mechanical Ventilation; Parents' Right to Dictate Treatment (Panel Discussion)*; ANZICs 40th annual meeting, Auckland, NZ (Oct)

- 2015 Subject Matter Expert meeting, Hospira. *State Behavioral Scale*. Osaka, Japan (August)
- 2015 Anna Reynvaan Lecture; *Involve the family: Relationships that sustain patients, families and nurses*. Amsterdam, Netherlands (May)
- 2015 American Thoracic Society, 2015 International Conference; *Pediatric ARDS Symposium, Nonpulmonary therapies*. Denver, CO, USA (May)
- 2014 Invited Distinguished Scholar, 1st International and multidisciplinary children's critical care research summer school, *Designing your program of research; The art of argument: How to 'sell' your research; How to write successful research grants; Evaluating scoring tools*; The University of Central Lancashire, Preston, UK (August)
- 2014 25th International Nursing Research Congress, Sigma Theta Tau International Honor Society for Nursing. Special Session: *Science supporting the practice of acute/critical care nursing*. Hong Kong, China (July)
- 2014 Naloxegol Pediatric trial Principal Investigator meeting, Bracket/AstraZeneca. *Withdrawal Assessment Tool – Version 1*. Barcelona, Spain (June)
- 2014 12th European Conference of Pediatric and Neonatal Ventilation. Preconference: *RESTORE – Nurse-implemented Goal-directed Sedation in pediatric patients supported on mechanical ventilation*; Breakout: *Prone positioning in ARDS: Update and future research questions*. Montreux, Switzerland (May)
- 2014 7th World Congress on Pediatric Intensive and Critical Care, Preconference: *WFPICCS Clinical Science Supporting the Practice of Pediatric Critical Care Nursing*, Breakout: *Sedation and comfort issues in the ventilated infant and child, Prone positioning: Why, how, and does it work?* Evidence-Based Practice: Myths, dreams or actual reality, Istanbul, Turkey, (May)
- 2013 *How to introduce changes in a pediatric hospital to promote the presence of parents in invasive procedures and CPR* (by teleconference). Avedis Donabedian Research Institute. Autonomous University of Barcelona, Spain (November)
- 2013 *Using the Braden Q Scale to Predict Pressure Ulcer Risk in Pediatric Patients* (by teleconference). APTFeridas Congress 2013-15^o Anniversary. Porto, Portugal (November)
- 2013 Breakout: *How to hook a study onto the back of a clinical trial; Preventing pressure ulcers in the NICU/PICU- Aare we getting anywhere? Paediatric staff perspectives on organ donation following cardiac death*. 24th Annual Meeting of the European Society of Paediatric and Neonatal Intensive Care (ESPNIC), Rotterdam, Netherlands (June)
- 2013 Breakout: *Nursing Year in Review: Pediatric Critical Care*. American Thoracic Society, Philadelphia, PA (May)

- 2012 Breakout: *Maintaining Skin Integrity; Nursing Quality Metrics*. Critical Care Canada Form, Toronto, CA (October)
- 2012 Plenary: *Nursing's innovative contributions to the evolution of pediatric critical care; Innovations in the critical care of children with Acute Respiratory Distress Syndrome; Translational research and nursing care innovation*. 3rd International Symposium of Pediatric and Neonatal Critical Care Nursing. Federal University of São Paulo, Brazil (October)
- 2012 Plenary: *Challenges to conducting multicenter clinical research; Assessing pain and sedation critically ill infants and children*. World Federation of Critical Care Nurses. Sibenik, Croatia (April)
- 2011 Plenary: *The Braden Q Today*; Education Course: *The risk on the modern era: Clinical evidence* (with Sandy Quigley). 1st ISPEW International Symposium on Pediatric Wound Care. Rome, Italy (October)
- 2011 *Opening Nursing Debate: Intensive Care is an Art; not a Science (con); Sedation in children with Brain Injury* (expert panel). 6th World Congress in Pediatric Critical Care; Sydney, Australia (March)
- 2009 *Mentorship: Developing clinical leaders in critical care*. 6th Annual Congress of the World Federation of Critical Care Nurses, Florence, Italy (August)
- 2009 *Begin with the End in Mind –Nurse sensitive quality outcomes (Keynote)*; 4th International Congress on Innovations in Nursing 2009, Perth, Australia (May)
- 2009 *The RESTORE clinical trial: Pain & sedation in paediatrics (Plenary); Parent presence during procedures and resuscitation; Protocols to optimize sedation in infants and children*. Cardiology in the Young 2009. Great Ormond Street Hospital for Children NHS Trust and UCL Institute of Child Health, London, England (April)
- 2008 *Pressure ulcers in newborns: The Nurse Researcher point of view; (Plenary); Where, when and how to prevent skin lesions in children admitted to the ICU (preconference symposium)*. AISLeC: EBP E Wound Care, Nuove Frontiere; Naples, Italy (November)
- 2007 *Data that supports nursing practice in pediatric critical care; Challenges in setting up a multicenter study; Nightingale metrics: Measuring nursing care that impacts patient outcomes; Simulation education: Facilitating parent presence at the bedside; Site selection in multisite clinical trials*. 5th World Congress in Pediatric Intensive Care. Geneva, Switzerland. (June)
- 2006 *Pediatric and neonatal critical care nursing: Advances and challenges; Family centered care – USA state of the art; Nursing care of children with ALI; Prone positioning children with ALI; Nursing acute interventions in shock; Pain and sedation assessment in PICU;*

- Synergy Model of Care; Research in nursing practice.* 1st International Symposium of Pediatric and Neonatal Critical Care Nursing. Sao Paulo, Brazil (June)
- 2005 “*Ventilator Bundle*” practices that limit iatrogenic injury: *State Behavioral Scale (SBS) instrument development; Nurse-implemented pain and sedation Algorithm.* 15th Annual Meeting of the European Society of Pediatric and Neonatal Intensive Care (ESPNIC). Antwerp, Belgium (September)
- 2004 *Utilizing clinical nursing research to promote evidence-based nursing practice.* First International Nursing Management Symposium, Shanghai, China (November)
- 2004 *Practice guideline, Enteral nutritional support; Assessment of pain and agitation in the CV surgical patient; Hazards of immobility: Predicting and preventing pressure ulcers.* Professional advancement of pediatric cardiac surgical nurses; Shanghai Children’s Medical Center, China (November)
- 2004 *The Synergy Model.* Acibadem Healthcare Group and Harvard Medical International. *Developing expertise in clinical inquiry.* International Nurses Day Celebration. Sponsored by Acibadem Healthcare Group and Harvard Medical International. Istanbul, Turkey (May)

National Invited Lectures (past 10 years)

- 2020 2020 State of the Science Congress on Nursing Research; *Healing the Acute Care Environment, Remedy 2020; Closing Keynote* (Virtual, Washington, DC; September)
- 2020 *Pressing Issues Surrounding Global Pediatric Critical Care Medicine Research: Regional Challenges and Opportunities* (joint session of SCCM and WFPICCS). North America perspective; Society of Critical Care Medicine, Orlando, FL (February)
- 2019 *Lessons Learned From Special Issues in Pediatric Critical Care Trials;* American Thoracic Society, Dallas, Tx (May)
- 2019 *Controversies in Pediatric ARDS: Prone Positioning; Outcomes and Opportunities in the Pediatric ICU: Functional and Neurodevelopmental Outcomes in Survivors.* Society of Critical Care Medicine, San Diego, CA (February)
- 2018 *Pediatric Patients on Mechanical Ventilation - Targeted Symptom Management* (Breakout session); American Thoracic Society, San Diego, CA (May)
- 2017 *Pediatric Year in Review: Clinical; Integrating Practices to Promote a Healing Environment in the Pediatric ICU.* Society of Critical Care Medicine, Honolulu, Hawaii (January)
- 2016 *What’s the Evidence? Can Multi-Institutional Clinical Trials Provide the Answer?* The 23rd Pediatric Critical Care Colloquium: Foundations and Innovations, NY, NY (November)

- 2016 *The Art of Argument Grant Application Page I; Clinical Research Pathway from Fellow to R01.* PALISI Fellow / Junior Investigator Course; Washington, DC (September)
- 2016 *Managing Comfort in the PICU: Does Comfort Come at the Expense of Withdrawal or Delirium?* Society of Critical Care Medicine, Orlando, FL (February)
- 2015 *Pediatric Critical Care Research: From Early Beginnings to New Horizons* (Panel). Advancing Pediatric Trauma and Critical Illness Research: Building the Field – Advancing the Science; Pediatric Trauma and Critical Care Branch; NICHD, Bethesda, MD (December)
- 2015 *Toxic or healing PICU environments?* Connect-Share-Impact Critical Care Nursing Summit. Boston, MA (September)
- 2015 *What's new with sedation? How results from the RESTORE trial impact ECMO patients.* (Plenary). 26th Annual ELSO Conference, Atlanta, GA (September)
- 2015 *Team Science: Answering Complex Clinical Questions Together.* National Pediatric Nursing Scientist Collaborative, Pediatric Nursing Research Fly-In held at Lurie Children's, Chicago, IL (June)
- 2015 *What if there were no research dollars? Central IRB for multi-center trials. Managing comfort in the critically ill pediatric patient.* Simultaneous presentation/publication: *Protocolized sedation vs usual care in pediatric patients mechanically ventilated for acute respiratory failure: A randomized clinical trial;* Society of Critical Care Medicine 44th Congress; Phoenix, AZ. (January)
- 2014 *Specific Aims: the Art of Argument; How to Write Successful Research Grants.* PALISI Fellow Course: Launching Your Clinical Research Career; Montreal, Canada (October)
- 2014 *Prone Positioning Revisited; Sedation Management of the Ventilated Patient;* 12th Optimizing Mechanical Ventilation for Infants and Children Conference; The Duke University School of Medicine, Durham, NC. (March)
- 2014 *Year in Review: Pediatrics. Current Clinical Research.* Society of Critical Care Medicine. Congress. San Francisco, CA (January)
- 2013 *Leading Change-Science Supporting the Future of Nursing Practice.* 20th Pediatric Critical Care Colloquium, Washington, DC (November)
- 2013 *Specific Aims: The Basis for Any Grant Proposal.* PALISI Fellow Course: Launching Your Clinical Research Career; New Orleans, LA (October)
- 2013 *Parental Presence during Invasive Procedures and Resuscitation (plenary); Nurse-Sensitive Outcomes: Examples from the Boston Nightingale Metrics Project; Opiate and Benzodiazepam Exposures in the NICU: Monitoring Infants for Iatrogenic Withdrawal*

- Syndrome Using the New Withdrawal Assessment Tool (WAT-1)*. 2013 Neonatal Advanced Practice Nursing Forum, Washington, DC (May)
- 2013 *Research in Pediatric Critical Care - Why Is It So Difficult?* Invited Lecture, PALISI 2013, Snowbird, UT (March)
- 2013 *The Nature of Critical Care Nursing Science; Secrets of Successful Research: How the Experts Do It? Interprofessional Collaborative Research; Developing an Idea into a Research Submission; How Do I Do Clinical Research on a Shoestring Budget*. SCCM's 2013 Critical Care Congress, San Juan, Puerto Rico (January)
- 2012 *Shifting Paradigms: Pain & Sedation Management in the PCICU; Hiring new graduates in PCICU – It matters (Pro)*. The Pediatric Cardiac Intensive Care Society, 9th annual meeting, Miami Beach, FL (December)
- 2012 *Specific Aims: The Basis for Any Grant Proposal*. PALISI Fellow Course: Launching Your Clinical Research Career; Chicago, IL (September)
- 2012 *Distinguished Research Lecture 2012: Together, Stronger, Bolder Clinical Research. Clinical judgment; Clinical inquiry, CCNS review course; Caring and ethical practice, Pediatric CCRN Review course*. 2012 National Teaching Institute, Orlando, FL (May)
- 2012 *Novel Approaches to the Nursing Management of the Child with Acute Lung Injury; Research and the Advanced Practice Nurse, Building Measures to Illuminate Your Practice and Securing Funding* (with Marilyn Hravnak PhD, RN). Society of Critical Care Medicine's 41st Critical Care Conference, Houston, TX (January)
- 2011 Scientific Speaker: *RESTORE – multisite clinical trial testing nurse-implemented goal-directed sedation in pediatric critical care*. National Institute of Nursing Research 25th Anniversary Concluding Symposium, Bringing Science to Life A Healthier Tomorrow, Washington, DC (October)
- 2011 *Clinical judgment; Clinical inquiry, CCNS review course*; 2011 National Teaching Institute, Chicago, IL. (May)
- 2011 *About the Synergy Model – Situating the Practice of Nursing within Healthcare Organizations*. Professional Practice Models, Baylor Healthcare System, Dallas Tx (March)
- 2010 *Respiratory Research - Why is it so Difficult?* 47th RESPIRATORY CARE Journal Conference on Neonatal and Pediatric Respiratory Care: What Does the Future Hold? Scottsdale, Az. (November)
- 2010 *Clinical judgment; Clinical inquiry, CCNS review course*; 2010 National Teaching Institute, New Orleans, LA. (May)

- 2010 *Clinical inquiry, not for the faint of heart (Plenary)*; Society of Critical Care Medicine's 39th Critical Care Conference, Miami, FL; *Intensive insulin therapy, Impact on nursing workload*. Post Conference on Hyperglycemia and Critical Illness. Key West, FL (January)
- 2009 *Clinical judgment; Clinical inquiry*, CCNS review course; *The caring and ethical practice*, Pediatric CCRN Review course. 2009 National Teaching Institute, New Orleans, LA. (May)
- 2009 *Debate – Government mandated nurse patient ratios are necessary for good patient care; Parent presence during invasive procedures and resuscitation; Nightingale metrics: How can we measure and improve nursing across a cardiovascular program?* Cardiology 2009, 12th Annual Update on Pediatric Cardiovascular Disease; Children's Hospital of Philadelphia, Nassau, Bahamas. (February)
- 2008 *Begin with the end in mind...Quality outcomes in pediatric critical care; Sedation assessment in critically ill infants and children - The State Behavioral Scale*. Eliza Fernie Critical Care Symposium; Denver Children's Hospital, Denver, CO (January)
- 2008 *Awake and comfortable, best practices in ICU sedation*. 37th Critical Care Congress, Society of Critical Care Medicine Congress. Honolulu, HI (January)
- 2008 *Nursing research, using quality of life assessments. Pediatric staff perspectives on organ donation after cardiac death in children*. Cardiology 2008, 11th Annual Update on Pediatric Cardiovascular Disease; Children's Hospital of Philadelphia, Scottsdale, AZ. (February)
- 2008 *Begin with the end in mind...Quality outcomes in pediatric critical care; Implementing clinical practice guidelines – sepsis panel*; Phoenix Children's Hospital, Phoenix, AZ (April)
- 2008 *Clinical judgment; Clinical inquiry*. CCNS review course. 2008 National Teaching Institute, Chicago, IL (May)
- 2008 *Prone Positioning – Is it really worth the risk? Protocols to optimize sedation for infants and children*. 54th American Association for Respiratory Care International Conference, Anaheim, CA. (December)
- 2007 *Sedation and mechanical ventilation; Pro: Open visiting hours in the ICU; Implementing protocols in the PICU*; 36th Critical Care Congress, Society of Critical Care Medicine Congress. Orlando, FL. (February)
- 2007 *Of legends and legacy: What we learn from our mentors; Experienced nurses + autonomy = improved patient outcomes*. Cardiology 2007, 10th Annual Update on Pediatric Cardiovascular Disease; Children's Hospital of Philadelphia, Lake Buena Vista, FL (February)

- 2007 *Leading the way, using the Synergy Model to achieve stellar results. 5th Annual Leadership Excellence: Management Solutions for Neonatal, Obstetric and Pediatric Nursing, Contemporary Forums, New Orleans, LA (March)*
- 2006 *Pediatric acute lung injury: Results of therapeutic trials and future directions. Plenary Chair and Speaker: Prone positioning in the pediatric ICU: Where are we? Pediatric Academic Society, San Francisco, CA (April)*
- 2006 *A randomized trial of prone positioning for acute lung injury in children. Clinical studies in pediatric ICU. American Thoracic Society, San Diego, CA (May)*
- 2006 *The pragmatics of conducting multisite clinical trials in critical care; Technology - New solutions for old problems. 2006 National Congress on the State of the Science in Nursing Research: Improving Life: Development and Dissemination of Nursing Innovation. Washington, DC (October)*

Regional Invited Lectures (past 5 years)

- 2019 *Creating Healing ICU Environments: Are we there yet? 74th Annual Meeting of the Massachusetts Pulmonary Section, Newton, MA (April).*
- 2018 *Reflections on the Synergy Model: Transcending Clinical Practice, Education and Research (plenary); Owning Your Nursing Practice (plenary); Children's Hospital of Alabama, Birmingham, AL (April)*
- 2016 *Team Science: Answering Complex Clinical Questions Together; Cincinnati Children's Hospital. (February)*
- 2015 *Protocolized Sedation vs Usual Care in Pediatric Patients Mechanically Ventilated for Acute Respiratory Failure: A Randomized Clinical Trial. Children's Hospital at Dartmouth. (Oct)*
- 2014 *Keynote: Leading change - Science supporting the future of nursing practice. Reflections on 15 Years of Synergy Transcending Practice and Education to Clinical Research. Berks Regional Nursing Research Alliance 5th Annual Nursing Research and Evidence-based Best Practice Symposium. (Oct)*
- 2014 *Keynote: Leading change - Science supporting the future of nursing practice. Beta Zeta Chapter, Scholarship Day, Keynote, Holyoke, MA (April)*
- 2013 *Keynote: Leading change - Science supporting the future of nursing practice. 25th Annual Scientific Sessions: Nursing Research: A Bridge to the Future of Healthcare Eastern Nursing Research Society (ENRS); Opening Keynote: Boston, MA (April)*

- 2013 *Owning Your Nursing Practice: Making a Difference for Patient's & Families (Keynote); Assessing Pain, Agitation, and Withdrawal in the Critically Ill Patient (breakout)*. Jill Davis Critical Care Nursing Conference, Minneapolis, MN (April)
- 2012 *Clinical Research, My Story and I'm Sticking With It! Reflections on 15 Years of Synergy: Transcending Practice and Education to Clinical Research*; 7th Annual Nursing Research Conference, Christiana Hospital, Wilmington, DE (Nov)
- 2012 *Nightingale 2012: Knowing, describing and measuring how nurses make a difference*. 2nd Annual Orlando Health Lecture. University of Central Florida, Orlando, FL (October)
- 2012 *Building on the Legacy of Florence Nightingale: How Nurses put the Patient in the Best Condition for Nature to Act*. The 4th Annual Nursing Research Conference: Innovations in Nursing Research. Long Beach Memorial Medical Center, CA (May)
- 2010 *Design and conduct of the RESTORE clinical trial*. 3rd Annual Ron Lemire NW Symposium on Contemporary Pediatric Critical Care: Alleviation of Pain and Anxiety; Seattle Children's Hospital, Seattle, WA (August)
- 2009 *Good death and a new beginning*. ACCCN, ACCYPN, Princes Margaret Hospital; Perth, Australia (May)

Hospital-Based Grand Rounds/University Invited Lectures (past 5 years)

- 2018 *Reflections on the Synergy Model, Owning Your Nursing Practice, Pressure Injury Risk Assessment*. Children's Hospital Alabama, Birmingham (April)
- 2017 *Parental Presence in the OR, Procedures and Resuscitation; Healing or Toxic Environments and Nurse Led Therapies*; 2017 Pediatric Nursing Conference, Cohen Children's Hospital (November)
- 2017 *Pressure Injury Risk Assessment in Infants and Children: The Braden Q and new Braden QD Scale*. Children's National Medical Center, DC (November)
- 2017 *Team Science: Answering complex clinical questions together. Toxic or Healing PICU Environment*. Texas Children's Hospital, Houston, TX (September)
- 2017 *Team Science: Answering complex clinical questions together*. Critical Care Services, Cedar Sinai Hospital, LA (August)
- 2017 *Managing Sedation in Critically-ill Infants and Children: the RESTORE clinical trial*. Mattel Children's Hospital UCLA (February)
- 2016 *Managing Comfort in Critically-ill Children: the RESTORE Clinical Trial*. Sinai Hospital of Baltimore, MD. (December)

- 2016 *Nurse-implemented Goal-directed Sedation in Critically Ill Children: The RESTORE Clinical Trial*. Children's Hospital Of Wisconsin, Milwaukee, IL (October)
- 2016 *Managing Sedation in Critically-ill Infants and Children: the RESTORE Clinical Trial*. Grand Rounds. Children's Hospital & Medical Center, Omaha, Nebraska. (September)
- 2016 *Protocolized Sedation vs Usual Care in Pediatric Patients Mechanically Ventilated for Acute Respiratory Failure: A Randomized Clinical Trial*. Grand Rounds. UCSF Benioff Children's Hospital. (May)
- 2016 *Comfort management in critically-ill pediatric patients*. Department of Pediatrics Grand Rounds. University of Chicago and Comer Children's Hospital. (April)
- 2015 *Protocolized Sedation vs Usual Care in Pediatric Patients Mechanically Ventilated for Acute Respiratory Failure: A Randomized Clinical Trial*. Boston's Children's Hospital, Nursing Grand Rounds. (June)
- 2014 *Comfort management in critically-ill pediatric patients*. University of Michigan, Pediatric critical care medicine. (November)
- 2013 *Responsible Conduct of Research (RCR) Collaboration* with Eileen Lake. Office of Nursing Research, PENN Nursing. (November).
- 2013 *The Perfect Storm - Exponential Change in the Practice of Nursing*. Virginia Mason Medical Center, Seattle, WA (April).
- 2013 *Nursing's innovative contributions to the evolution of pediatric critical care*. Massachusetts General Hospital, Boston, MA (January)
- 2012 *Clinical Inquiry, Answering Your Research Question*. Miller Children's Hospital Long Beach, CA (May)
- 2011 *About the Synergy Model - Situating the Practice of Nursing within Healthcare Organization*. Group Health, Seattle, WA (October)
- 2011 *Pediatric Critical Care Research, Not for the Faint of Heart; Pediatric Grand Rounds; Synergy: The Unique Relationship between Nurses and Patients*, Special Nursing Grand Rounds. Dartmouth-Hitchcock Medical Center. Lebanon, NH (October)

CONFERENCE ORGANIZING ROLES

World Federation of Societies of Intensive and Critical Care Medicine

2013-2014	Member	Scientific Committee (Pulmonary)
2008-2009	Member	Scientific Committee (Nursing)

World Federation of Pediatric Intensive and Critical Care Societies

2020-2022	Member	Scientific Committee - 11 th World Congress
2018-2020	Member	Scientific Committee - 10 th World Congress
2016-2018	Member	Scientific Committee - 9 th World Congress
2000-2003	Co-Chair	Scientific Committee - 4 th World Congress

MEMBERSHIPS IN PROFESSIONAL & SCIENTIFIC SOCIETIES

2000-present	American Thoracic Society
1998-present	American Academy of Nursing
1996-present	Eastern Nursing Research Society
1991-present	Society of Critical Care Medicine
1990-present	Society of Pediatric Nurses
1985-present	Sigma Theta Tau -Delta Mu and Beta Zeta
1983-present	American Nurses Association
1981-present	American Association of Critical Care Nurses

SELECTED PROFESSIONAL ACTIVITIES

Editorial Boards

2014-present	ad hoc reviewer	<i>Critical Care Medicine</i>
2007-present	Associate Editor	<i>Pediatric Critical Care Medicine</i>
2005-present	Ad hoc Reviewer	<i>Nursing Research</i>
2001-present	Ad hoc Reviewer	<i>Critical Care Medicine</i>
2000-2007	Member	<i>Pediatric Critical Care Medicine</i>
1999-2000	Ad hoc Reviewer	<i>Critical Care Nurse</i>
1999-present	Member	<i>Clinical Intensive Care</i>
1997-present	Member	<i>American Journal of Critical Care</i>
1996-1997	Ad hoc Reviewer	<i>American Journal of Critical Care</i>
1995-2000	Ad hoc Reviewer	<i>Journal of the Society of Pediatric Nurses</i>
1993-1995	Member	<i>AACN Nursing Scan in Critical Care</i>
1992-1994	Member	<i>AACN Clinical Issues in Critical Care Nursing</i>
1991-1994	Ad hoc Reviewer	<i>American Journal of Maternal/Child Nursing</i>

International Activities

Pediatric Acute Lung Injury Consensus Conference (PALICC)

2012-2014	Content Expert: Non-Pulmonary Treatment
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Birmingham Children's Hospital's Research Foundation, England

2012	Outside Grant Reviewer
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ISPEW – International Society for Pediatric Wound Care

2011-2013	Member	Advisory Committee
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IPOKRATES

2003-2008 Chair Nursing Section

National Activities

National Academy of Medicine

2017-present Member

National Institute of Health

2018	Participant	Eunice Kennedy Shriver NICHD; NICHD Strategic Planning Working Group Meeting
2016	Participant	NHLBI Implementation Science in Critical Care Workshop
2015	Participant	Eunice Kennedy Shriver NICHD; Pediatric Trauma and Critical Illness Branch Pediatric Multiple Organ Dysfunction Syndrome
2014	Participant	Eunice Kennedy Shriver NICHD; Pediatric Trauma and Critical Illness Branch Pediatric Critical Care Research Expert Panel
2014	Participant	Eunice Kennedy Shriver NICHD; Pediatric Trauma and Critical Illness Branch Strategic Planning Meeting
2013-2017	Member	NHLBI Clinical Trials Review Committee (CLTR)
2012	Temporary Member	NHLBI Clinical Trials Review Committee (CLTR)
2012	Member	FDA: Clinical Development Programs for Sedation Products: Public Workshop (May) <i>ICU Sedation, Pediatric-Specific Issues</i>
2011	Temporary Member	NHLBI Clinical Trials Review Committee (CLTR)
2011	Member	NIH Director's New Innovator Applications Review Committee
2009	Member	NINR RC2/GO RFA Review Committee
2003	Member	NICHD panel: Pulmonary Critical Care: Pulmonary Processes and Informatics Solutions

American Thoracic Society

2016 Participant Critical Care Assembly Project Committee: Determining the Outcome Measures for Assessment after Critical Illness

Pediatric Cardiac Intensive Care Society (PCICS)

2015
Member PCICS Research Committee

Institute of Medicine (IOM) Committee to Review the Clinical and Translational Science Awards Program (CTSA) at National Center for Advancing Translational Sciences (NCATS)

2013 Speaker Future Directions for Using CTSA Programs and Resources

Robert Wood Johnson Foundation Interdisciplinary Nursing Quality Research Initiative (INQRI)

2010 Full Proposal Reviewer
9/15/2010 Stakeholder Guest; 5th Annual Meeting

Multi-Society Strategic Planning Task Force for Critical Care Research

2010 Member Task Force

Society of Critical Care Medicine

2015-present Member THRIVE
2007-2015 Member Pediatric Sedation Guideline Committee
1999-2004 Member Guidelines and Levels of Care for PICU

Child Magazine

2006-2007 Member Hospital-based Measurement Advisory Board

Pediatric Acute Lung Injury and Sepsis Investigator Network (PALISI)

2015- Member Executive Committee
2004 Discussant International Forum on Sepsis
Outcome measures for clinical trials.
2003 Member Founding Steering Committee

Cerner Corporation

2003-2006 Member Critical Care Transformation Council

Sigma Theta Tau International

2002 Member Investing in Maternal Child Health:
Defining Nursing's Contributions.

American Association of Critical Care Nursing

1997-1998 Member Certification Corporation: Strategic Think Tank
1997 Chair Certification Corporation Nomination Committee
1996 Chair Certification Corporation
1996 Chair Outcomes of Certified Practice Think Tank
1995-1997 Member Certification Corporation Subject Matter Expert
1995 Chair-Elect Certification Corporation
1994 Mentor Wyeth-Ayerst Nursing Fellows Reporter Program
1994 Participant Joint Work Group of ANA-AACN
Acute Care Nurse Practitioner
1993-1994 Member Certification Corporation Think Tank
1993-1994 Director Certification Corporation
1993 Participant Neonatal and Pediatric Strategic Thinking Meeting
1993 Member Pediatric CCRN Exam Cut Score Committee
1992 Member Pediatric CCRN Exam Development Committee
1991-1992 Member Item Writer Task Force, Pediatric CCRN Exam

1989-1990	Member	Role Delineation Study Task Force
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Society of Pediatric Nurses

1995-1996	Member	Program Planning Committee
1994-1998	Member	Advanced Practice Task Force

Regional Committees

Institute for Nursing Healthcare Leadership

2003-2011	Associate	Research
2001-2006	Member	Research Steering Committee
2000	Member	International Leadership and Management Curriculum Development

Boston Children's Hospital Center of Excellence for Quality Measurement

2013-2014	Member	Scientific Advisory Board
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SERVICE ACTIVITIES (University of Pennsylvania)

University of Pennsylvania

2013-2014	Chair	Faculty Grievance Commission
2012	Member	John Morgan Society
2012-2013	Chair-Elect	Faculty Grievance Commission
2012-2013	Member	Scholarly Commons Advisory Committee
2009-2010	Member	Hearing Board for the Student Disciplinary System and the Code of Academic Integrity
2009-2010	Member	Senate Committee on Students and the Educational Policy subcommittee

School of Nursing Committees

2016-2018	Member	Faculty Search Committee
2015-2016	Chair	Faculty Search Committee
2014-2016	Member	Strategic Planning Research Subcommittee
2014-2017	Member	PhD Curriculum Committee
2013-2015	Chair	Personnel Committee
2013-2015	Chair	Research Committee
2012-2014	Member	Hillman Section Committee
2012-2013	Chair-Elect	Personnel Committee
2012-2013	Chair-Elect	Research Committee
2010-2011	Member	Taskforce, Developing Data Systems
2009-2010	Member	Advisory Taskforce for the Division Chair Search
2009	Member	Search Committee; CHOP; Senior Vice President Patient Services & Chief Nursing Officer
2008-2010	Co-Chair	Undergraduate Curriculum Committee
2008-2010	Member	Doctoral Curriculum Committee
2008-2012	Member	Nurse Anesthesia Advisory Board

2007	Member	Retreat planning committee
2007-2008	Member	Undergraduate Curriculum Committee
2007-present	Member	Graduate Group in Nursing

Living Independently for Elders (LIFE)

2010-2013 Faculty Advisor

CLINICAL AGENCY ACTIVITIES

Children's Hospital Boston

Committee Activities

2012-2017	Member	Academy for Clinical Scholarship and Innovation in Pediatric Nursing
2006-2007	Member	Senior Clinical Quality Committee
2005-2008	Member	Donation after Cardiac Death Committee
2005-2007	Member	Program for Patient Safety and Quality Measurement Committee
2005-2007	Co-Chair	Nursing Research Council
2004-2005	Chair	Nursing Research Council
2004-2005	Manager	Virtual Pediatric Intensive Care (PICU)
2003-2007	Member	Core Metrics Committee
2003-2005	Member	Data Collection and Auditing Committee
2003-2004	Member	Magnet Application Committee
2002-2004	Member	Nursing Research Council
2000-2002	Member	Pain Standards Committee
2000-2002	Chair	Nursing Research Council
2000-2003	Chair	Core Metrics Committee
1999-2007	Member	Professional Advancement Committee
1998-2001	Co-Chair	Sedation Committee
1993-1997	Co-Chair	Clinical Practice Guideline Committee
1990-1993	Co-Chair	Cardiopulmonary Resuscitation Committee

Children's Hospital Philadelphia

2009	Collaborator	NICHD: Clinical Trials Cooperative PI: Robert A. Berg, MD Division Chief, Critical Care Medicine
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DOCTORAL DISSERTATION COMMITTEES AND POST DOCS MENTORED

International Dissertation Committees

Jacqueline Jauncey-Cooke
Optimising Paediatric Ventilation
The University of Queensland, Brisbane, Australia
2012
Examiner

Sharon Bridget Kinney

A study of a systems approach to reducing mortality and morbidity in a tertiary paediatric hospital.

Melbourne School of Graduate Research, Melbourne, Australia

2008

Examiner

Fiona Maxton

Absence is worse – Sharing and surviving the resuscitation – Parental presence during resuscitation of a child in PICU

University of Western Sydney, Sydney, Australia

2005

Examiner

National Dissertation Committees

Lauren Sorce

Impact of human milk on pediatric acute respiratory failure

University of Chicago

F31 - Human Milk Feeding and Severity of Illness in Children with Respiratory Failure: Impact score 30

2012-2019

Member

Jean C. Solodiuk

Pain assessment in nonverbal children with profound intellectual disability

Boston College. Boston, MA

2009-2010

Member

Laura A Mylott

Weaning patterns in mechanically ventilated patients with acute myocardial infarction.

Boston College. Boston, MA

2000

Member

University of Pennsylvania Dissertation Committees

Alicia Kachmar (Hillman Scholar)

Socioeconomic Status in Pediatric Health Research and its Association with Critical Illness and Outcomes

2016-2019

Chair

Ruth Lebet

Defining the Difficult-to-Sedate Clinical Phenotype in Critically Ill Children
2015-2017
Chair

Kaitlin Best (Hillman Scholar)
Defining risk for iatrogenic withdrawal syndrome in critically ill children
1F31NR015172-01
2014-2015
Chair

Elizabeth Froh
Breastfeeding the Infant Born with a Congenital Diaphragmatic Hernia: A Grounded Theory Study
2012-2014
Member

M. Melanie Lyons
A putative novel treatment, TAT-HSP70, in a rodent model of Sepsis Induced Acute Respiratory Distress Syndrome: attenuating lung injury, decreasing mortality and increasing locomotor activity
2009-2013
Member

Elaine Siow
The Continuity of care index and patient outcomes in the Pediatric Intensive Care Unit (PICU)
2009-2012
Chair

Sharon Irving
Energy expenditure and growth in infants post cardiac surgery
2009-2011
Member

Heather Tubbs Cooley
The impact of nursing workforce organization on outcomes of hospitalized children
2009-2010
Member

Desiree Fleck
Correlates of Self-Care in Emerging Adults with Congenital Heart Disease: A Mixed-Methods Study
2010
Reader

Danica Fulbright Sumpter
The effects of parenting stress on growth and development in infants with congenital heart defects during the first year of life

2008-2009

Member

PhD Qualifying Exams

Alicia Kachmar – Chair (10/16)

Boyden, Jackelyn Yu-Kui – Chair (9/16)

Ruth Lebet – Chair (11/14)

Kaitlin Best- Chair (7/13)

Lisa Kohr – Chair (11/09)

Lit Soo Ng (11/09)

Elaine Siow (11/08)

Melanie Lyons (10/08)

Ashley E. Darcy (9/08)

Sharon Irving (4/08)

Pre-Docs Mentored

Elizabeth Broden (Hillman Scholar)

F31 NR018104 (2018)

Caring for Actively Dying Children and their Parents in the Pediatric ICU: A Mixed Methods Study

Marion Leary

Laura Beth Cook

F31 NR018586 (2019)

Ohio State

Sleep Disruption and Delirium in Critically Ill Children

Post Docs Mentored

Mallory Perry, PhD, RN, CPN, CCRN

Postdoctoral Research Fellowship for Academic Diversity

Children's Hospital of Philadelphia

7/1/2019 – 6/30/22

K23 Mentored Research Career Development Award

Elizabeth Killien, MD

Multisite clinical trials

Seattle Children's Hospital

9/2020 -

K23 Mentored Research Career Development Award

Jennifer Lay Walter, MD

Improving Family Meetings in the Pediatric Cardiac Intensive Care Unit

Children's Hospital of Philadelphia

01/19 – 12/23

K23 Mentored Research Career Development Award
Robinder G. Khemani, MD MsCI
Childrens Hospital Los Angeles
Dept. of Anesthesia and Critical Care Medicine
Consultant, multi-center trials
08/2012- 07/2017

K24 NR010244-01
PI: Mary Beth Happ, PhD, RN
Associate Professor, Acute/Tertiary Care Department
University of Pittsburgh School of Nursing
Symptom Management, Patient-Caregiver Communication, and Outcomes in ICU
04/01/07-03/31/10

DNP Committees

Kirsten A. Hickerson MSN, RN, CEN
Enhancing the effectiveness of preceptors in pediatrics
Johns Hopkins University, MD
2014-2015

Jennifer M. Cohen, RN, PCNS-BC, CNRN, CCRN
Implementation of the State Behavioral Scale: Standardizing the sedation assessment of mechanically ventilated infants and children
University of San Francisco, CA
2011-2012

MENTORED PROFESSIONALS

Catherine C. McDonald, PhD, RN
Associate Professor (tenure)
University of Pennsylvania, School of Nursing
2014-2020

Sharon Y Irving, PhD, MSN
Associate Professor of Pediatric Nursing
University of Pennsylvania School of Nursing
2012-2020

Sandra Staveski PhD, RN, CPNP-AC
Assistant Professor
University California San Francisco
2015-2019

Bridgette Brawner, RN, PhD

Associate Professor (tenure)
University of Pennsylvania School of Nursing
2012-2019

Peggy Doyle Settle RN, PhD
Nurse Scientist
Nursing Director Newborn Intensive Care Unit/Pediatric Transport Team
Massachusetts General Hospital
2012-2014