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 Department of Health Professions Education Program
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Education

Harvard School of Public Health, Boston, MA, **Sc.D.** (1995) **Health Policy & Management**. Managerial & Political Analysis track with work in economics, decision sciences, quantitative policy analysis, statistics, quality of care, regulation, ethics, management, and policy; field study in Belfast, Northern Ireland of reforms in British National Health Service.

Stanford University, Stanford, CA, **M.S.** (1984) **Health Services Research**. Individually designed multidisciplinary curriculum with work from Schools of Medicine, Engineering, and Humanities & Sciences focused on quantitative and policy analysis of the diffusion and implementation of medical innovations.

Stanford University, Stanford, CA, **A.B.** (1981) with *University Distinction and Departmental Honors* in **Human Biology** with concentration in health care organizations and policy. Additional coursework in industrial engineering, business, statistics, psychology, French, and European history. Summer 1980 Overseas study of the British National Health Service, Cliveden, England.

Academic Appointments

Professor, Department of Health Professions Education, School of Healthcare Leadership/School of Health and Rehabilitation Sciences, MGH Institute of Health Professions, Boston, MA	2022-present
Professor of Interprofessional Studies, MGH Institute of Health Professions, Health Professions Education Program, Center for Interprofessional Studies and Innovation, Boston, MA	2021-2022
Associate Professor of Interprofessional Studies, MGH Institute of Health Professions, Health Professions Education Program, Center for Interprofessional Studies and Innovation, Boston, MA	2017-2021
Lecturer, MGH Institute of Health Professions, Health Professions Education Program, Center for Interprofessional Studies and Innovation, Boston, MA	2015-2016
Assistant Professor, Department of Pharmacy & Health Systems Sciences/School of Pharmacy and Department of Health Sciences, Bouvé College of Health Sciences, Northeastern University, Boston, MA	2008-2015
Instructor, Harvard Medical School, Boston, MA	1996-1998

Administrative Appointments

Chair, Department of Health Professions Education, School of Healthcare Leadership/School of Health and Rehabilitation Sciences, MGH Institute of Health Professions, Boston, MA	2022-present
MGB Pillars of Excellence Award for Department of Health Professions Education Committee Chair	2022-2023
Director, Health Professions Education Program, MGH Institute of Health Professions, Center for Interprofessional Studies and Innovation, Boston, MA	2018-2021
Associate Director, Health Professions Education Program, MGH Institute of Health Professions, Center for Interprofessional Studies and Innovation, Boston, MA	2017-2018
Vice-President, Health Services Consulting Corporation (Consultant to The Breastfeeding Center, Boston Medical Center, Boston, MA)	2015-2018
Managing Consultant, PA Consulting Group, Cambridge, MA	2005-2008
Director, Life Sciences, TIAX LLC, Cambridge, MA	2002-2005
Vice President, Marketing & Business Development, Phase-1 Molecular Toxicology, Inc., Santa Fe, NM	2000-2001
Self-Employed, Health Services Consulting Corporation, Santa Fe, NM	1998-1999
Research Consultant, Rocky Mountain HMO, Grand Junction, CO.	1996-2002
Research Consultant, Telemedicine Center, Massachusetts General Hospital, Boston, MA.	1995-1998
Research Consultant, Center for Alternative Medicine Research, Division of General Medicine and Primary Care, Beth Israel Hospital, Boston, MA	1991-1995
President and Founder, Intervention Technologies, Inc. (ITI), Pittsburgh, PA	1988-1991
Research Associate, Health and Human Services Robotics Laboratory, The Robotics Institute, Carnegie-Mellon University, Pittsburgh, PA	1986-1989
Research Health Scientist, Robotic Evaluation, Research & Training Specialist, Palo Alto Veterans Administration Medical Center, Palo Alto, CA	1982-1985

Scholarship/Research

Publications

Peer-Reviewed Articles

1. Clarke MJ, Lund S, White BAA, Gerberi D, **Edwards RA**. Incorporating Intraoperative Assessments of Surgical Trainees Performing Open Surgery Into Summative Trainee Evaluations: A Scoping Review. J Surg Educ. 2025 Aug;82(8):103546. doi: 10.1016/j.jsurg.2025.103546. Epub 2025 May 24. PMID: 40414175.

2. Clarke MJ, **Edwards RA**, White BAA. Surgical Assessments: Current State, Ideal State, and Considerations for Implementation. A Qualitative Interview Study of Faculty and Trainees. *J Surg Educ*. 2025 Jul;82(7):103534. doi: 10.1016/j.jsurg.2025.103534. Epub 2025 May 19. PMID: 40393345.
3. **Edwards RA**, White BAA, Findyartini A. Editorial: Innovations in teaching and learning for Health Professions Educators. *Front Med (Lausanne)*. 2025 May 20;12:1611578. doi: 10.3389/fmed.2025.1611578. PMID: 40463973; PMCID: PMC12129989.
4. **Edwards RA**, White BAA, Findyartini A (eds) e-book: Research Topic [Innovations in Teaching and Learning for Health Professions Educators!](#) May 2025. *Front Med (Lausanne)*.
5. Howard, N., **Edwards, R.**, Boutis, K., Alexander, S., & Pusic, M. (2023). Twelve Tips for using Learning Curves in Health Professions Education Research. *MedEdPublish*, 13, 269. <https://doi.org/10.12688/mep.19723.1>
6. Kumar, Anshul PhD; DiJohnson, Taylor BA; **Edwards, Roger A.** ScD; Walker, Lisa MPAS, PA-C. The Application of Adaptive Minimum Match k-Nearest Neighbors to Identify At-Risk Students in Health Professions Education. *The Journal of Physician Assistant Education* 34(3):p 171-177, September 2023. | DOI: 10.1097/JPA.0000000000000513
7. Kay HG, Mahoney MR, **Edwards RA**. (2023) The Objective Structured Teaching Encounter (OSTE) in health professions education: A systematic review, *Medical Teacher*, 2023; 45(8):893-905. DOI: 10.1080/0142159X.2023.2189539.
8. Porter-Stransky KA, Gibson K., VanDerKolk K, **Edwards RA**, Grave, LE, Smith E, & Dickinson BL (2022). How Medical Students Apply Their Biomedical Science Knowledge to Patient Care in the Family Medicine Clerkship. *Medical science educator*, 33(1), 63–72. <https://doi.org/10.1007/s40670-022-01697-5>
9. Jafri FN, Yang CJ, Kumar A, Ahmed ST, Seneviratne, N, Zarowin D, Bajaj K, **Edwards RA**. (2022) In Situ Simulation as a Tool to Longitudinally Identify and Track Latent Safety Threats in a Structured Quality Improvement Initiative for SARS-CoV-2 Airway Management: A Single-Center Study. *Simul Healthc*. 2022 Jan 26. doi: 10.1097/SIH.0000000000000633. Epub ahead of print. PMID: 35085181.
10. Kua, J., Lim, W., Teo, W., **Edwards, R.A.** (2020). A scoping review of adaptive expertise in education. *Medical Teacher*, 2021 Mar;43(3):347-355. doi: 10.1080/0142159X.2020.1851020. Epub 2020 Nov 28. PMID: 33251895.
11. Palaganas J.C. & **Edwards R.A.** (2020). 6 common pitfalls of feedback conversations. *Academic Med*, 2021 Feb 1;96(2):313. doi: 10.1097/ACM.00000000000003767. PMID: 33003041 epub 29 Sep 2020.
12. Jafri F.N., Mirante D., Ellsworth K., Shulman J., Dadario N., Williams K., Yu S., Thomas J., Kumar A., **Edwards, R.A.**, Torres R., & Straff D.J. (2020). A microdebriefing crisis resource management program for simulated pediatric resuscitation in a community hospital: A feasibility study. *Simulation in Healthcare*. epub 24 Aug 2020
13. Jenkins, L., Barnes K., Latter A., & **Edwards R.A.** (2020). Examining the Baby Café model and mothers' breastfeeding duration, meeting of goals, and exclusivity. *Breastfeed Med*, 15(5), 31-334.
14. Umer A., Hamilton C., **Edwards R.A.**, Cottrel L., Glacobb P., Innes K., John C., Kelley G.A., Nea W. & Lilly C. (2019). Association between breastfeeding and childhood cardiovascular disease risk factors. *Maternal and Child Health Journal*. 23(2), 228-239.

15. Merewood A., Bugg K., Burnham L., Krane K., Nickel N., Broom S., **Edwards R.A.** & Feldman-Winter L. (2019). Addressing racial inequities in breastfeeding in the southern United States. *Pediatrics*, 143(2).
16. Ribeiro I.B., Ngu J.M.C., Lam N.B.K., & **Edwards, R.A.** (2017). Simulation-based skill training for trainees in cardiac surgery: A systematic review. *The Annals of Thoracic Surgery*, 105(3), 972-982.
17. **Edwards R.A.**, Venugopal S., Navedo D., & Ramani S. (2017). Addressing needs of diverse stakeholders: Twelve tips for leaders of health professions education programs. *Medical Teacher*, 41(1),17-23.
18. Carrick, F.R., Abdulrahman, M., Hankir, A., Zayaruzny, M., Najem, K., Lungchukiet, P., & **Edwards, R.A.** (2017). Randomized controlled study of a remote flipped classroom neuro-otology curriculum. *Frontiers in Neurology*, 8(349).
19. Colchamiro, R., **Edwards, R.A.**, Nordstrom, C., Eshelman, J., Ghiringhelli, K., Forgit, J., Tolan, E., Mainello, K., & Foley, J. (2015). Mobilizing community resources to enhance post-discharge support infrastructure for breastfeeding in Massachusetts – results of a catalyst grant approach. *Journal of Human Lactation*, 31(4), 631-40.
20. Eshelman, J., **Edwards, R.A.**, Ghiringhelli, K., Mainello, K., Colchamiro, R., Forgit, J., Tolan, E., & Nordstrom C. (2015). Breastfeeding resources at Massachusetts maternity hospitals and birth centers—A content analysis of discharge packets. *Journal of Human Lactation*, 31(4), 641-50.
21. **Edwards, R.A.**, Colchamiro, R., Tolan, E., Browne, S., Foley, M., Jenkins, L., Mainello, K., Vallu, R., Hanley, L.E., Boisvert, M.E., Forgit, J., Ghiringhelli, K., & Nordstrom, C. (2015). Online continuing education for expanding clinicians' roles in breastfeeding support. *Journal of Human Lactation*, 31(4), 582-86.
22. Campbell, C.T., Hoffman, J.M., Carlson, A.A., Besignano, A.R., Lento, G.M., & **Edwards, R.A.** (2014). Cost-effectiveness of aclidinium bromide compared with tiotropium bromide from the perspective of COPD patient populations. *International Journal of Medicine and Pharmacy*, 2(2), 11-36.
23. Bioc J., Magee, C., Cucchi, J., Fraser G., Dasta, J., **Edwards, R.A.**, & Devlin J. (2014). Cost-effectiveness of benzodiazepine vs. non-benzodiazepine sedation for mechanically ventilated, critically ill adults. *Journal of Critical Care*, 29(5), 753-757.
24. **Edwards R.A.**, Kirwin J., Gonyeau M., Matthews S.J., DiVall M., & Lancaster J. (2014). A reflective teaching challenge to motivate educational innovation. *American Journal of Pharmacy Education Theme Issue on Faculty Development*,78(5).
25. **Edwards R.A.**, Dee D., Umer A., Perrine C., Shealy K.R., & Grummer-Strawn L.M. (2014). Using benchmarking techniques and the 2011 Maternity Practices Infant Nutrition and Care (mPINC) survey to improve performance among peer groups across the United States. *Journal of Human Lactation*, 30(1), 31-40.
26. **Edwards R.A.** (2013). Pharmacists as an underutilized resource for improving community-level support of breastfeeding. *Journal of Human Lactation*, 30(1), 14-19.
27. Woolley A.B., Berds C.A., **Edwards R.A.**, Copeland D., & DiVall M.V. (2013). Potential cost avoidance generated from patient care activities of student pharmacists during advanced pharmacy practice experiences. *American Journal of Pharmacy Education*, 77(8).
28. Umer A., & **Edwards R.A.** (2013). Expanding public health professionals' roles in promoting and supporting breastfeeding as optimal infant feeding: A pilot study with online tutorial implications. *Open*

Journal of Preventive Medicine, 3(2), 184-190.

29. Kirwin J.L., & **Edwards R.A.** (2013). Helping patients articulate end-of-life wishes: a target for interprofessional participation. *Annals of Palliative Medicine*.
30. **Edwards R.A.**, Bickmore T., Jenkins L., Foley M., & Manjourides J. (2013). Use of an interactive computer agent to support breastfeeding. *Maternal and Child Health Journal* 17(10), 1961-1968.
31. **Edwards R.A.** (2013). Expanding pharmacists' roles in breastfeeding support: a pilot study of an online breastfeeding tutorial for student pharmacists. *Currents in Pharmacy Teaching and Learning*, 5(2), 129-133.
32. DiVall M., **Edwards R.A.**, Stevens C., Zilberman E., Watanabe M., & Kirwin J. (2013). Student perceptions about developing an evidence-based public health program directed toward a vulnerable population. *Currents in Pharmacy Teaching and Learning*, 5(2), 76-84.
33. Newman M.J., Jones L.T., Kraft J.M., Lee A.R., Lech G.M., Farrell N.M., Phantumvanit V., & **Edwards R.A.** (2012). Cost-effectiveness of fulvestrant 250 mg versus 500 mg in postmenopausal women with estrogen receptor-positive metastatic breast cancer and disease progression after antiestrogen therapy. *Journal of Oncology Pharmacy Practice*, 18(4), 394-401.
34. Bartick M., **Edwards R.A.**, Walker M., & Jenkins L. (2010). The Massachusetts Baby-Friendly Hospital Collaborative: lessons learned from an innovation to foster implementation of best practices. *Journal of Human Lactation*, 26(4), 405-411.
35. **Edwards R.A.** & Philipp B.P. (2010). Using maternity practices in infant nutrition and care (mPINC) survey results as a catalyst for change. *Journal of Human Lactation*, 26(4), 399-404.
36. **Edwards R.A.**, Graham A., Williams M., Amati M., Wright C., Lee M., Walsh D., & Hughes N. (2009). Quantifying a strategic view of diabetes technology impacts: a system dynamics approach. *Diabetes Technology & Therapeutics*, 11(7), 411-418.
37. Chadwick A.C. & **Edwards R.A.** (2009). Smart planner: radically accelerating R&D to combat a biothreat. *Drug Development Research—Special Issue on Biodefense*, 70, 335-348.
38. **Edwards R.A.** (2004). The relationship between market-based pricing and biopharmaceutical innovation. *Supplement to Managed Care*, 13(6), 23-25.
39. Samsa G., Matchar D.B., Dolor R.J., Wiklund I., Hedner E., Wygant G., Hauch, O., Marple C.B., & **Edwards R.A.** (2004). New instrument for measuring anticoagulation-related quality of life: Development and preliminary validation. *Health and Quality of Life Outcomes*, 2, 22-33.
40. Gross C.P., Vogel E.W., Abhay J.D., Marple C.B., **Edwards R.A.**, Hauch O., Demers E.A., & Ezekowitz M. (2003). Factors influencing physicians' reported use of anticoagulation therapy in nonvalvular atrial fibrillation: A cross-sectional survey. *Clinical Therapeutics*, 25(6), 1750-1764.
41. Sox C.M., Burstin H.R., **Edwards R.A.**, O'Neil A.C., & Brennan T.A. (1998). Hospital admissions through the emergency department: Does insurance status matter? *American Journal of Medicine*, 105(6), 506-512.
42. Wirthlin D., Buradagunta S., **Edwards R.A.**, Brewster D.C., Cambria R.P., Gertler J.P., LaMuraglia G.M., Jordan D.E., Kvedar J.C., & Abbott W.M. (1998). Telemedicine in vascular surgery: Feasibility of digital imaging for remote management of wounds. *Journal of Vascular Surgery*, 27, 1089-1100.

43. **Edwards R.A.** (1998). Research and the goal of improving patient care. *Forsch Komplementarmed*, 5(Suppl 1), 116-120.
44. Kvedar J.C., **Edwards R.A.**, Menn E.R., Mofid M., Gonzalez E., Dover J., & Parrish J.A. (1997). The substitution of digital images for dermatologic physical examination. *Archives of Dermatology*, 133, 161-167.
45. Rucker D.W., **Edwards R.A.**, Burstin H.R., O'Neil A.C., & Brennan T.A. (1997). Patient-specific predictors of ambulance use. *Annals of Emergency Medicine*, 29(4), 484-491.
46. **Edwards R.A.** (1996). Robotics in hospitality. *Journal of the International Association of Hospitality Accountants*, 6(4), 20-23.
47. **Edwards R.A.** (1990). Diffusion of robotic innovations in health care environments using the interactive evaluation methodology. *International Journal of Robotics*, 241-250.
48. **Edwards R.A.** & Engelhardt K.G. (1986). Microprocessor-based innovations and older individuals: AARP survey results & their implications for service robotics. *International Journal of Technology and Aging*, Spring.
49. Engelhardt K.G., & **Edwards R.** (1986). Increasing independence for the aging: Robotic aids and smart technology can help us age less dependently. *The Small Systems Journal*, 11(3), 191-196.
50. **Edwards R.**, Engelhardt K.G., Van der Loos H.F.M., & Leifer L.J. (1985). Interactive evaluation of voice control for a robotic aid. *Journal of the American Voice Input/Output Society*, 2.

Non-Refereed Articles / Editorials

1. **Edwards RA**, Amati M, Williams M, Graham A, Wright C, Lee M, Walsh D, Hughes N. Burden of Diabetes Demands Integrated Approaches to Innovation: Next Generation Tools. IMPACTS, November 2007.
2. **Edwards RA** & Robinson D. Impossible Dream or Essential Task: Integrating Personal Health and Electronic Medical Records. IMPACTS, September 2006.
3. **Edwards RA**, Mayo D, Els S, Kaczmarek L. Avian Flu – Pandemic Prevention. European Biopharmaceutical Review, Spring 2006.
4. **Edwards RA**, Mayo D, Els S, Kaczmarek L. Meeting the Threat of an Avian Flu Pandemic: How Simulation Models Point to Bold Action. IMPACTS, March 2006.
5. **Edwards RA**, Zhang K, Firth L. Benchmarking Chemistry Functions with Pharmaceutical Drug Discovery and Preclinical Development. *Drug Discovery World* 2002;3(3):67-71.
6. **Edwards RA**. Our Research Methods Must Meet the Goal of Improving Patient Care. *Alternative Therapies in Health & Medicine* 1997;3(1):99-100.
7. Engelhardt KG, **Edwards RA**, Sample WS, Sandrof M. The Robotic Vocational Workstation. *Annual Research Review of The Robotics Institute* 1988;67-78.

Book Chapters

1. **Edwards RA** & Maxworthy J, Writing and Implementing a Strategic Plan in *Defining Excellence in Simulation 2nd Edition* (2021 in press). Philadelphia, PA: Walters Kluwer.

2. Kaptchuk TJ, **Edwards RA**, Eisenberg DM. Complementary Medicine: Efficacy Beyond Placebo. In Complementary Medicine-- An Objective Appraisal, E. Ernst (ed.) Oxford: Butterworth Heinemann, 1996:42-70.

Abstracts:

Please see oral and poster presentations below

Patents

U.S. Patent No. 5,019,112 Engelhardt, KG, **Edwards, RA**, Sample, WS, Sandrof M, issued May 28, 1991 entitled "Robotic Food Service Packaging System" for institutional kitchens including hospitals and airline food service.

Presentations

International

1. White BA, Thompson A, Palaganas JC, **Edwards RA**. "Using System Dynamics to Evaluate Team Conflict in Interprofessional Education" Poster Presentation for the International Conference on Communication in Healthcare, virtual, Sep 2021.
2. Navedo D, Flynn MA, Pittmann R, Inzana RS, Grobecker PA and **Edwards RA**, "*One Size Does Not Fit All: A mixed-methods approach to focusing faculty development needs assessment.*" Poster presented at the Royal College Simulation Summit 2018, Ottawa, Canada on September 28, 2018.
3. Burnham L, Taylor E, Bugg K, Krane K, Feldman-Winter L, Boynton-Jarrett R, **Edwards R**, Carothers C, Patel A, Burton D, Goldhammer C, Logan-Hurt T, Merewood A. "Catalyzing Change: The Champs Initiative." Poster presentation at Academy of Breastfeeding Medicine 21st Annual International Meeting. Washington D.C. October 2016.
4. Krane K, Bugg K, Burnham L, Taylor E, Feldman-Winter L, Carothers C., Goldhammer C, Patel A., **Edwards R.**, Boynton-Jarrett R., Burton D., Logan-Hurt T, Merewood A. "CHAMPS: Narrowing the Racial Gap in Maternity Practices in the Southern USA." Abstract presentation at the 28th International Congress of Pediatrics. Vancouver, Canada. August 2016.
5. Shi, L, Bickmore, T, **Edwards, R** "A Feminist Virtual Agent for Breastfeeding Promotion." Accepted Short Paper and Oral Presentation, 15th International Conference on Intelligent Virtual Agents, Delft, Netherlands, August, 2015.
6. Zhang, Z, Bickmore, T, Mainello, K, Mueller, M, Foley, M, Jenkins, LJ, **Edwards, RA** "Maintaining Continuity in Longitudinal, Multi-Method Health Interventions Using Virtual Agents: The Case of Breastfeeding Promotion" Short Paper & Oral Presentation, 14th International Conference on Intelligent Virtual Agents, Boston, MA, August 2014.
7. Elitsur N., **Edwards R.**, Blanco M., Volpe M. "Lactation and Breastfeeding Knowledge Gap Identified in Incoming Pediatric Interns and Second Year Residents" Poster Presentation, Annual meeting of the Pediatric Academic Society (PAS); Vancouver, Canada, May 2014.
8. **Edwards RA**. "What is the Appropriate Place for Outcomes Studies in Documenting Efficacy" Workshop Leader, 3rd Scientific Symposium: Placebo and Other Non-Specific Effects, Einsiedeln, Switzerland, October, 1997.
9. **Edwards RA**. "International Integrative Primary Care Outcomes Study: Rationale & Concepts" at "What to Do if a Randomized Trial is Not Possible: An International Symposium", Munich, Germany, October, 1996.
10. **Edwards RA**. "Applying Meta-Analysis and Other Research Methods in Clinical Research" workshop, Conference on Research & Education, Consortium for Chiropractic Research, San Diego, CA, June, 1996.

National

1. Thompson A, White BA, Palaganas JC, **Edwards RA**. "A Systems Dynamics Approach to Prevent and Resolve Interprofessional Team Conflict" Seminar, NEXUS Summit 2021 virtual, Sep-Oct 2021.
2. **Edwards RA**, "*Getting from My Burning Question to Specific Research Questions: Applying Mixed Methods to Educational Research.*" Workshop conducted at the American Association of Colleges of Pharmacy Annual Meeting, Boston, MA on July 24, 2018.
3. Narayan M, **Edwards RA**. "Practice-Based Learning & Improvement Assessment of a Core ACGME Competency" QuickShot Presentation, 13th Academic Surgical Congress, Jacksonville, FL, January 2018.
4. Bugg K, **Edwards RA**, Taylor E, Krane K, Burnham L, Serano A, Merewood A. "Reducing MCH Disparities with The CHAMPS Initiative." Poster Presentation, Addressing Health Disparities: The Role of Translational Research Center Conference, Nashville, TN, November 2016.
5. Bugg K, **Edwards RA**, Burnham L, Serano A, Patel A, Punnose J, Merewood A. "CHAMPS Initiative: Integrating Communities for Reducing Breastfeeding Disparities." Oral presentation at American Public Health Association's 2016 Annual Meeting and Expo. Denver, Colorado, November 2016.
6. Burnham L, Taylor E, Bugg K, Krane K, Feldman-Winter L, Boynton-Jarrett R, **Edwards R**, Carothers C, Patel A, Burton D, Goldhammer C, Logan-Hurt T, Merewood A. "Catalyzing Change: The CHAMPS Initiative." Oral presentation at American Public Health Association's 2016 Annual Meeting and Expo. Denver, Colorado, November 2016.
7. Bugg K, **Edwards R**, Burnham, L, Krane, K, Serano, A, Patel, A, Punnose, J, Feldman-Winter, L, Merewood, A. "The CHAMPS Initiative: Integrating Communities for Reducing Breastfeeding Disparities Poster presentation at Academy of Breastfeeding Medicine 21st Annual International Meeting. Washington D.C. October 2016.
8. Carothers C, Burnham L, Taylor E, Bugg K, Krane K, Feldman-Winter L, Boynton-Jarrett R, **Edwards R**, Patel A, Burton D, Goldhammer C, Logan-Hurt T, Merewood A. "CHAMPS: Catalyzing Baby-Friendly change across the US." Breakout Panel, Success for All Families: Emphasizing Racial Equity in Breastfeeding Support, at the Sixth National Breastfeeding Coalitions Conference. August 2016.
9. Bugg K, Burnham L, Taylor E, Krane K, Feldman-Winter L, Boynton-Jarrett R, **Edwards R**, Carothers C, Patel A, Burton D, Goldhammer C, Logan-Hurt T, Merewood A. "The CHAMPS Initiative: Integrating Communities for Reducing Breastfeeding Disparities and Improving Racial Equity". Breakout Panel, Success for All Families: Emphasizing Racial Equity in Breastfeeding Support at the Sixth National Breastfeeding Coalitions Conference. August 2016.
10. Goldhammer C, Merewood A., Bugg K, Burnham L, Krane K, Taylor, E, Feldman-Winter L, Carothers C, Patel A, **Edwards R**, Boynton-Jarrett R, Burton D, Logan-Hurt T. "CHAMPS: Narrowing the Racial Gap in Maternity Practices in the Southern USA." Round Table presentation at the Reaching Our Sisters Everywhere Conference. New Orleans, Louisiana. July 2016.
11. Elitsur N, **Edwards R**, Vallu R, Mainello K, Davidson J, Blanco M, Volpe M. "Lactation Education in MSIII- A Pilot Study of a Novel Education Tool" Poster presentation, The Annual Meeting of the Pediatric Academic Society (PAS); San Diego, CA. April 2015.
12. Bartick, MC, MS, **Edwards, RA**, Boisvert, ME "Massachusetts Baby-Friendly Collaborative: Synergy on a Shoestring" Oral Presentation, American Public Health Association Annual Meeting, New Orleans, LA, November 2014.
13. Elitsur, N, **Edwards, RA**, Vallu, R, Mainello, K, Blanco, Volpe, M "Improving Medical Students Knowledge and Comfort with Lactation Topics: A pilot study" Poster Presentation, American Academy of Pediatrics Annual Meeting, San Diego, CA, October 2014.
14. Eshelman J, **Edwards RA**, Colchamiro R, Tolan ER, Forgit J, Nordstrom C, Mainello K, "Wellness at Every Age: Incorporating Breastfeeding Support Organizations into Obesity Prevention Programs and Healthier

Communities" Oral Presentation, American Sociological Association Annual Meeting, San Francisco, CA, August 2014.

15. Madison K & **Edwards RA**, "The Use of Breastfeeding-Related Reporting Requirements to Improve Health Care Quality" Oral Presentation, Law & Society Association Annual Meeting, Minneapolis, MN, May 2014.
16. **Edwards, RA** "Baby-Friendly Community Development" Round Table, Maternity Care & Infant Feeding in Indian Country Conference, Albuquerque, NM April 2014.
17. **Edwards, RA** "Alaska-the Next BFHI Frontier for Native Hospitals" Round Table, Maternity Care & Infant Feeding in Indian Country Conference, Albuquerque, NM April 2014.
18. Bioc J, Magee, C, Cucchi, J, Fraser G, Dasta, J, **Edwards, RA**, Devlin J. Cost-Effectiveness of Benzodiazepine vs. Non-Benzodiazepine Sedation for Mechanically Ventilated, Critically Ill Adults. Society of Critical Care Medicine Annual Meeting, San Francisco, CA January 2014. *Selected for Clinical Pharmacy & Pharmacology Student Travel Award for Highest Blinded Abstract Score.*
19. **Edwards RA**, Lenell A, Cardarelli, T Expanding Pharmacists' Roles in Promoting and Supporting Breastfeeding Through Partnerships. Oral presentation, Academy of Breastfeeding Medicine Annual Meeting, Philadelphia, PA November 2013. *Selected for Best Oral Presentation.*
20. **Edwards RA**, Tolan ER, Colchamiro R, Nordstrom C, "Massachusetts: Enabling Continuity of Care for Breastfeeding Support" Oral Presentation, American Public Health Association Annual Meeting, Boston, MA, November 2013.
21. Colchamiro, R, **Edwards RA**, Nordstrom C, Corliss, J. "Model Partnership Approaches for Community Breastfeeding Support: Making "the Healthy Choice the Easier Choice"" Oral Presentation, American Public Health Association Annual Meeting, Boston, MA, November 2013.
22. Gonyeau M, Kirwin J, **Edwards RA**, Matthews SJ, DiVall MV, Zgarrick DP. "Reflective Teaching Challenge to Motivate Educational Innovation and Improve Teaching and Learning" Poster Presentation, American Association of Colleges of Pharmacy Annual Meeting, Chicago IL, July 2013.
23. **Edwards RA**, Bickmore T, Jenkins L, Foley M. "Pilot study of the use of a computer agent to provide information and support to breastfeeding mothers" Oral Presentation, American Public Health Association Annual Meeting, San Francisco, CA, October 2012.
24. Umer A & **Edwards RA**. "Expanding public health professionals' roles in promoting and supporting breastfeeding as optimal infant feeding: A pilot study using an online tutorial" Oral Presentation, American Public Health Association Annual Meeting, San Francisco, CA, October 2012.
25. **Edwards RA**. "Engaging Pharmacists in Supporting Breastfeeding" Breakout Session, 4th National Conference of State/Territorial/Tribal Breastfeeding Coalitions, US Breastfeeding Committee, Arlington, VA, August, 2012.
26. Woolley AB, **Edwards RA**, Berds CA, DiVall MV. "Patient care impact and potential cost avoidance generated by student pharmacists during Advance Pharmacy Practice Experiences" Poster Presentation, American College of Clinical Pharmacy Annual Meeting, Hollywood, FL, October, 2012.
27. DiVall M, Van Amburgh J, Derderian C, Gingras D, Barr J, Chou CH, Douglass M, **Edwards RA**, Kirwin J, Rickles N, Skirvin JA, Zgarrick D. "An inventory of interprofessional activities and collaborations at Northeastern University School of Pharmacy" Poster Presentation, American Association of Colleges of Pharmacy Annual Meeting, Kissimmee, FL, July 2012.
28. **Edwards RA**. "Best Practices for Integration of Public Health in the Pharmacy Curriculum: Part 1--Health Promotion and Health Policy" Oral Presentation, American Association of Colleges of Pharmacy Annual Meeting, Kissimmee, FL, July 2012.
29. **Edwards RA**, DiVall M, Stevens C, Zilberman E, Kirwin J, Watanabe M. "Teaching pharmacy students to develop an evidence-based public health program directed toward a vulnerable population" Oral Presentation, American Public Health Association Annual Meeting, Washington DC, November 2011.

30. **Edwards RA.** "Expanding awareness of breastfeeding as a vital health behavior through education of allied health professionals" Oral Presentation, American Public Health Association Annual Meeting, Washington DC, November 2011.
31. **Edwards RA.** "The Surgeon General's Call to Action to Support Breastfeeding 2011: Progress Report" Session 4094.0 Organizer and Moderator, American Public Health Association Annual Meeting, Washington DC, November 2011.
32. **Edwards RA.** "Expanding student pharmacists' awareness of breastfeeding as a vital health behavior" Poster Presentation, American Association of Colleges of Pharmacy Annual Meeting, San Antonio, TX, July 2011.
33. DiVall M, **Edwards RA,** Stevens C, Zilberman E, Watanabe M, Kirwin J, "Teaching pharmacy students to develop an evidence-based public health program directed toward a vulnerable population" Poster Presentation, American Association of Colleges of Pharmacy Annual Meeting, San Antonio, TX, July 2011.
34. **Edwards RA.** "Economic Implications of 'Omics' Technologies" AcademyHealth Genomics/Personalized Medicine Interest Group Webinar, December 2010.
35. **Edwards RA,** Preer GL, Pisegna JM, Philipp BL. "Maternity Facility Readiness for New Joint Commission Perinatal Care Core Measure on Exclusive Breastfeeding: Massachusetts Case Study" Poster Presentation, American Public Health Association Annual Meeting November 2010 Denver, CO, Nov 2010.
36. **Edwards RA,** and Philipp BL. "Using Maternity Practices in Infant Nutrition and Care (mPINC) Survey Results as a Catalyst for Change: Massachusetts Case Study" platform presentation at American Public Health Association Annual Meeting, Denver, CO, Nov 2010.
37. Preer GL, **Edwards RA,** Pisegna JM, Philipp BL. "Asking the Right Question on the Massachusetts Birth Certificate" Poster Presentation, Academy of Breastfeeding Medicine Annual Meeting, San Francisco, CA, October 2010.
38. **Edwards RA.** "Expanding Pharmacists' Roles in Preventive Health related to Infant Feeding" Poster Presentation, AcademyHealth Annual Research Meeting, June 2010, Boston, MA.
39. **Edwards RA & Shelly A.** "Expanding Pharmacists' Roles in Breastfeeding Support" Poster Presentation, American Pharmacists Association Annual Meeting, March 2010, Washington DC.
40. Shelly A & **Edwards RA.** "Analysis of Health Professional Organizations' Policy Statements on Breastfeeding from the Pharmacist Perspective" Poster Presentation, American Pharmacists Association Annual Meeting, March 2010, Washington DC.
41. **Edwards RA.** "System-level pathways to overcoming barriers to optimal infant feeding practices in maternity care" Oral Presentation, American Public Health Association Annual Conference, November 2009, Philadelphia, PA.
42. **Edwards RA.** U.S. Surgeon General's A Call to Action to Support Breastfeeding Expert Panel "Mother and Infant Care in Medical Settings" Oral Presentation, Washington DC, April 2009.
43. **Edwards RA.** "Facing the Pandemic Influenza: Impacts on Corporations and Infrastructure, Safe America Foundation Summit "Prepared. Not Scared." Oral Presentation, Chicago, IL, May 2006 and New York, NY, September 2006.
44. **Edwards RA.** "System for Evaluating Neurological Stress with Objective and Remote Sensors (SENSORS): Briefing for Technical Advisory Group Meeting 53" Oral Presentation, Department of Defense Human Factors Engineering Technical Advisory Group, Panama City, FL May 2005.
45. **Edwards RA & Kuesten CL.** "Methodological Considerations in Conducting Sensor-Based and Self-Report-Based Research on Food-Related Activities" Oral Presentation, North American Association for the Study of Obesity Annual Scientific Meeting, Las Vegas, NV November, 2004.
46. **Edwards RA.** "The Relationship Between Market-Based Pricing and Biopharmaceutical Innovation" Oral Presentation, University of Michigan Center for Medication Use, Policy and Economics Symposium: Reimportation of Pharmaceuticals, Washington DC, April, 2004.

47. **Edwards RA.** "Leveraging the Relationship between Market-Based Pricing and Bio-Pharmaceutical Innovation" Oral Presentation, Forum on Pharmaceutical Pricing, Center for Business Intelligence, Alexandria, VA, October, 2002.
48. **Edwards RA.** "Benchmarking Chemistry Functions with Pharmaceutical Drug Discovery and Preclinical Development" Oral Presentation, 4th Annual New Technologies to Increase Drug Candidate Survivability, Strategic Research Institute, Philadelphia, PA, March, 2002.
49. **Edwards RA.** "Placebo: Definitions and Challenges" Oral Presentation, The Clinical Trials Workshop, Bloomington, MN, February, 2000.
50. **Edwards RA.** "Research Methods" Workshop Chair, Alternative Therapies in Health and Medicine Symposium, Orlando, FL, April, 1997.
51. **Edwards RA.** Panelist, "Redefining and Expanding Clinical Research: Improving Effectiveness" Oral Presentation, Institute of Medicine Town Meeting on Clinical Research in the Public Interest, Washington DC, July, 1997.
52. **Edwards RA.** "Options for Evaluating Effectiveness in Integrated Care" Alternative Medicine: Fringe, Fad, or Frontier, Oral Presentation, 14th Annual Meeting of Association for Health Services Research, Chicago, IL, June, 1997.
53. **Edwards RA & Kvedar JC.** "The Substitution of Digital Images for Dermatologic Physical Examination" Oral Presentation, American Telemedicine Association, Second Annual Conference, Atlanta, GA, April, 1997.
54. **Edwards RA** "International Integrative Primary Care Outcomes Study" Oral Presentation, Alternative Therapies in Health and Medicine Symposium, Orlando, FL, April, 1997.
55. **Edwards RA, Penovich P, Tedeschi A, Guerrero CB.** "Incremental Cost-Effectiveness of New Generation Anti-Epileptic Drugs as Add-On Treatment for Refractory Partial Epilepsy" Poster Presentation, American Epilepsy Society Annual Conference, Baltimore, MD, Dec. 1995.

Regional

1. **Edwards RA, Zeind CS, Weaver A, Caron R.** "Implementation of Student-Centered Doctoral Training in the "Post-COVID-19" Era: Maintaining Excellence and Addressing Challenges in a New PhD Program in Health Professions Education" New England Commission of Higher Education (NECHE) Annual Meeting, Boston, MA, December 2023.
2. Kumar, A & **Edwards, RA** "Using Predictive Analytics to Identify At-Risk Learners" MGH Executive Committee on Teaching & Education (ECOTE) Education Forum, virtual, September 2021.
3. **Edwards, RA** "Update on Massachusetts Department of Public Health Breastfeeding-Related Efforts" Commonwealth of Massachusetts Perinatal Team, Boston, MA, December 2015.
4. **Edwards, RA & Boisvert, ME** "Improving Continuity of Care for Breastfeeding Mothers: Hospital-WIC Collaboration" Massachusetts WIC Breastfeeding Coordinator Quarterly Meeting & Workshop, Framingham, MA, September 2015.
5. Elitsur N., **Edwards R.**, Blanco M., Volpe M. "Lactation and Breastfeeding Knowledge Gap Identified in Incoming Pediatric Interns and Second Year Residents" Oral Presentation, Annual Meeting of the New England Perinatal Society (NEPS); Newport, RI, March 2014.
6. **Edwards, RA,** "Expanding the Pharmacist's Role in Breastfeeding Support" Northeastern University School of Pharmacy Professional Development Days, Boston, MA, December 2013.
7. **Edwards, RA** "Breastfeeding as a Public Health Priority" Oral Presentation, Cambridge Health Alliance Conference on Delivering Optimal Care for Breastfeeding Mothers in an Integrated Delivery System, Cambridge, MA, November 2013.

8. Nordstrom C, **Edwards RA**, Colchamiro, R, Buszkiewicz J, "Preventing Childhood Obesity Through Catalyzing Continuity of Care for Breastfeeding Mothers" Poster Presentation, Childhood Obesity in the Community: Turning Science into Care Conference, Boston, MA, October 2013.
9. **Edwards RA**. "Breastfeeding 201: Beyond the Basics" Family Medicine Grand Rounds, Cambridge Health Alliance, Cambridge, MA, June 2013.
10. **Edwards RA**., Madison K "The Use of Breastfeeding-Related Reporting to Improve Health Care Quality" Program on Health Policy & Law Seminar, Northeastern University School of Law, April 2013.
11. **Edwards RA**. "Hospital Experiences with PDSAs & The First Hour" Oral Presentation, Massachusetts MotherBaby Summit, Needham, MA, April 2013.
12. **Edwards RA**. "Engaging Pharmacists in Supporting Breastfeeding Families" Plenary Presentation, Ohio Lactation Consultant Association 20th Annual Conference, Columbus, OH, March 2013.
13. **Edwards RA**. "Ethics, Marketing and the WHO Code" Break-Out Session Presentation and Session Chair, Ohio Lactation Consultant Association 20th Annual Conference, Columbus, OH, March 2013.
14. **Edwards RA**. "Using Computer Agents to Provide Information and Support to Breastfeeding Mothers" Beth Israel Deaconess Medical Center Neonatal ICU Epidemiology and Clinical Research Seminar, Boston, MA, January 2013.
15. **Edwards RA**. "Improving Supportive Maternity Care for Breastfeeding Mothers" Oral Presentation, Massachusetts Department of Public Health Perinatal Advisory Committee, Boston, MA, December 2012.
16. **Edwards RA**. "Breastfeeding Education Using Computer Agents" Newborn Medicine Grand Rounds, Tufts Medical Center, Boston, MA, November 2012.
17. **Edwards RA**. "Evolving Maternity Practices to Provide Greater Support for Breastfeeding Mothers" Department of Pediatrics Seminar, Milford Regional Medical Center, Milford, MA, September 2012.
18. **Edwards RA**. "Introduction to New York City Hospital Breastfeeding Collaborative Assessment Tool" Oral Presentation, New York City Department of Health & Mental Hygiene's Maternal Infant Reproductive Health Baby-Friendly Hospital Initiative, New York, NY, June 2012.
19. **Edwards RA**. "The Massachusetts Baby-Friendly Hospital Collaborative: Lessons Learned from an Innovation to Foster Implementation of Best Practices and Interprofessional Exchange" Oral Presentation, Fifth Annual School of Nursing Research Symposium, Bouvé College of Health Sciences, Northeastern University, Boston, MA, April 2012.
20. **Edwards RA**. "Establishing and Measuring Care Quality Standards and Benchmarks: Getting the Next Generation Off to the Best Start Possible" Keynote Presentation, Indiana Perinatal Hospital Summit: Linking Science with Practice" September 2011.
21. **Edwards RA**. Town Hall Moderator at The Massachusetts MotherBaby Summit 3: Change the State, April 2011, Framingham, MA.
22. **Edwards RA**. "Application of Continuous Quality Improvement Approaches in Addressing Maternity Care Practices that Interfere with Breastfeeding" Invited Visiting Lecture, Cincinnati Children's Hospital Human Milk and Lactation Seminar Series, February 2011, Cincinnati, OH.
23. **Edwards RA**. "Application of Continuous Quality Improvement Approaches in Addressing Maternity Care Practices that Interfere with Breastfeeding" Invited Workshop, Cincinnati Children's Hospital Human Milk and Lactation Seminar Series, February 2011, Cincinnati, OH.
24. **Edwards RA**. "Here comes the Joint Commission: How to Measure Your Rates" Platform Presentation at The Massachusetts MotherBaby Summit 2, April 2010, Lowell, MA.
25. **Edwards RA**. CDC National Center for Chronic Disease and Health Promotion, Division of Nutrition, Physical Activity and Obesity Briefing for representatives from state programs: Maternity Practices in Infant Nutrition and Care (mPINC) Survey: Using State Reports to Inform, Influence, and Monitor Change -- Invited Presentation "MA MotherBaby Summit" August 2009.

26. **Edwards RA.** “The Next Steps: Improving Maternity Infant Feeding Practices with QI Methods” Platform Presentation at The MA Mother-Baby Summit: Understanding Your mPINC Score, Lowell, MA, April 2009.
 27. **Edwards RA.** “Second Life: Healthcare Enters the Virtual World” Panelist, Fourth Annual Partners Healthcare’s Center for Connected Health Symposium, Boston, MA, October 2007.
 28. **Edwards RA.** “Introducing PlaceLab: PlaceLab Research” Oral Presentation, Changing Homes: Design+Technology for Health & Well-Being Conference, Cambridge, MA, September, 2004.
 29. **Edwards RA.** “Build versus Buy: Lessons from Pharmaceutical Discovery and Preclinical Development” Oral Presentation, Massachusetts Biotechnology Council Technology Committee, Cambridge, MA, August, 2002.
 30. **Edwards RA.** “Organizational Models of Integrated Health Care” Oral Presentation, Alternative Medicine: Implications for Clinical Practice, Harvard Medical School Department of Continuing Education, Boston, MA, March, 1996.
- 53 additional Professional Conference-Related Presentations & Publications (including 1 keynote) and 9 other community presentations prior to 1996.

Grants at Northeastern University (Total June 2012- June 2014: \$534,825)

- Add-on subcontracts to Massachusetts DPH grant from CDC in April 2013, “Becoming Baby Friendly Technical Assistance Project” (April 1, 2013-June, 2014). Role: Project Director.
- Subcontract to Massachusetts DPH grant from CDC in July 2012, “Enabling Continuity of Care for Breastfeeding Support in Massachusetts” (subcontract September 30, 2012-December 29, 2013). Role: Subcontract Project Director.
- Principal Investigator “Expanding Use of a Computer Agent to Support Breastfeeding” Charles H. Hood Foundation Child Health Research Awards Program (August 2012-December 2014; extension to May 2015). Role: Principal Investigator.
- Tufts 2013 Innovations in Education Intramural Grant Program. “Improving Medical Student Training in Lactation Practices through an Interactive Computer-Based Curriculum for Medical Students” (July 1, 2013-June 30, 2014). Role: Subcontract Project Director.
- University of North Carolina “The Interstate Collaborative: Supporting Widespread Implementation to the Ten Steps to Successful Breastfeeding” and “Interstate Collaboration on Breastfeeding Support in Child Care” Program Evaluation (May-August, 2013).
- Technical Assistance “Maternal Infant Reproductive Health Baby-Friendly Hospital Initiative” New York City Department of Health & Mental Hygiene Community Transformation Grant, June-September 2012. Role: Technical Consultant.

Technical Assistance & Consulting

- 2015: Massachusetts Department of Public Health Technical Assistance for: improving staff capacity to support birth hospitals to enhance breastfeeding-friendly maternity care practices, updating state breastfeeding guidelines, and updating toolkit for hospitals.
- 2014-2017: Faculty Consultant, The Breastfeeding Center at Boston Medical Center, Boston, MA for W.K. Kellogg Foundation-funded CHAMPS (Communities and Hospitals Advancing Maternity Practices), a breastfeeding-focused initiative geared toward improving maternal and child health

outcomes through the promotion of Baby-Friendly practices in New Orleans, Louisiana, Mississippi, Texas, and Southern Tennessee for work with 25 hospitals and the communities that surround them to improve maternity care practices.

Educational Activities

Courses Taught at MGH Institute of Health Professions

School of Health & Rehabilitation Sciences & School of Healthcare Leadership & Center for Interprofessional Studies & Innovation

HE906 Applying Improvement Science at the System Level	SU 2025
HE906 Applying Improvement Science at the System Level	SU 2024
HE942 PhD Innovations Seminar	FA 2023
HE906 Applying Improvement Science at the System Level	SU 2023
HE942 PhD Innovations Seminar	FA 2022
HE906 Applying Improvement Science at the System Level	SU 2022
HE806 Applying Improvement Science to Health Professions Education	SU 2022
HE942 PhD Innovations Seminar	FA 2021
HE906 Applying Improvement Science at the System Level	SU 2021
HE806 Applying Improvement Science to Health Professions Education	SU 2021
HE943 Scholarship of Teaching and Learning Seminar	SU 2021
HE991-992 PhD Mentored Research	2020-2023
HE942 PhD Innovations Seminar	FA 2020
HE742 MS Innovations Seminar	FA 2020
HE717A/B Foundations of Teaching, Learning, and Assessment	SU-FA 2020
HE743/HE747 Scholarship & Capstone Seminar	SU 2020
HE906 Applying Improvement Science at the System Level	SU 2020
HE806 Applying Improvement Science to Health Professions Education	SU 2020
HE992 PhD Mentored Research	SP 2020
HE717A/B Foundations of Teaching, Learning, and Assessment	SP-SU 2020
HE991 PhD Mentored Research	FA 2019
HE942 PhD Innovations Seminar	FA 2019
HE742 MS Innovations Seminar	FA 2019
HE806 Applying Improvement Science to Health Professions Education	SU 2019
HE807 Systematic Reviews in Health Professions Education	SU 2019
HE743/HE747 Scholarship & Capstone Seminar	SU 2019
HE795 Scholarly Project Supervisor	SP 2020
HE795 Scholarly Project Supervisor	SP 2019
HE742 MS-HPed Innovations Seminar	FA 2018
HE743 Convocation Scholarship Seminar	SU 2018
HE795 Scholarly Project Supervisor	SP 2018
HE744 Research Methods in Education, Health Professions Education Program	FA 2017
HE795 Scholarly Project Supervisor	SP 2017
HE744 Research Methods in Education, Health Professions Education Program	FA 2016
HE744 Research Methods in Education, Health Professions Education Program	FA 2015

Courses Taught at Northeastern University

School of Pharmacy – Doctor of Pharmacy Program (PharmD)

PHMD6270 Economic Evaluation of Pharmaceuticals and Pharmacy Practice	SP 2015
PHMD6270 Economic Evaluation of Pharmaceuticals and Pharmacy Practice	SP 2014
PHMD6270 Economic Evaluation of Pharmaceuticals and Pharmacy Practice	SP 2013
PHMD6270 Economic Evaluation of Pharmaceuticals and Pharmacy Practice	SP 2012
PHMD6270 Economic Evaluation of Pharmaceuticals and Pharmacy Practice	SP 2011

This is a 4 SH required course that includes the undergraduate Capstone for students in the PharmD program. The course contains a notable public health and policy scholarship component that requires students to adopt a population-level perspective to: (1) describe the principles of economic evaluation; and (2) apply economic evaluation principles to critically assess pharmaceuticals, technologies, and services related to pharmacy practice. Population-level critical thinking is challenging for student clinicians focused on learning about direct patient care delivery. The capstone project, completed by 5-6 member groups, requires students to use existing published literature to conduct a novel clinical and economic appraisal of an intervention. During 2011, 2012, and 2013 I was the only faculty member responsible for the course and had a total of 407 5th-year PharmD students comprising 67 groups complete the group project. Each year, many students prepare abstracts for poster presentation at the American Society of Health System Pharmacists (ASHP) Midyear Clinical Meeting. A total of 52 groups (79%) have submitted abstracts during these three years and, of these, 49 (94%) have had abstracts accepted through the main professional poster mechanism (not the student mechanism) at ASHP. The students were awarded \$9,690 through the Provost's Undergraduate Research Program grant for conference registrations during 2012 and 2013. In addition, one of the cost-effectiveness projects was one of five finalists in the student poster competition (80+ submissions) at the American College of Clinical Pharmacy (ACCP) Annual Meeting in October 2012. Several projects have been published in peer-reviewed journals.

PHMD4992, Directed Study	FA 2012
1 student PharmD program faculty advisor for a 2013 US Public Health Service Excellence in Pharmacy Practice Award to Jillian Casale "for her dedication to helping pharmacists learn how they can support breastfeeding women and improve the lifelong health of infants and mothers"	
PHMG440 Advanced Pharmacy Practice Experience (APPE) Elective	SP 2011
PHMG440 Advanced Pharmacy Practice Experience (APPE) Elective	FA 2010
PHMG440 Advanced Pharmacy Practice Experience (APPE) Elective	SP 2010
PHMG440 Advanced Pharmacy Practice Experience (APPE) Elective	FA 2009

Department of Health Sciences Master of Public Health (MPH) Program

PHTH5212 Public Health Administration & Policy	FA 2014
PHTH5212 Public Health Administration & Policy	FA 2013
PHTH5212 Public Health Administration & Policy	FA 2012
PHTH5212 Public Health Administration & Policy	FA 2011
PHTH5212 Public Health Administration & Policy	FA 2010
PHTH5212 Public Health Administration & Policy	SP 2010
PHTH5212 Public Health Administration & Policy (newly developed course)	SP 2009
PHTH7976 Directed Study	SU 2013
PHTH7976 Directed Study	SU 2012
PHTH7976 Directed Study	SU 2010
PHTH7976 Directed Study	SU 2009

Master of Health Informatics (MHI) Program

HI-G330 Emerging Technologies in Healthcare	FA 2008
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Guest Lectures

CAEP6370 Seminar in Health Psychology, "Health Policy, Insurance, & Cost of Care"	SP 2014
PHMD3600 Leadership & Advocacy in the Health Professions Course, "Advocacy, Framing Policy and Coalition Building"	SP 2014
PHTH6228 Public Health Nutrition, "Breastfeeding: Exploring Why Existing US Rates Are What They Are"	SP 2014

HLTH1555 Honors Special Topics in Health, "Pharmacoeconomics & Comparative Effectiveness"	FA 2013
PHMD3600 Leadership & Advocacy in the Health Professions Course, "Advocacy, Framing Policy and Coalition Building"	SP 2013
HLTH1555 Honors Special Topics in Health, 4 SH, "Pharmacoeconomics & Comparative Effectiveness"	FA 2012
PHMD3600 Leadership & Advocacy in the Health Professions Course, "Advocacy, Framing Policy and Coalition Building"	SP 2012
CAEP6370 Seminar in Health Psychology, "Health Policy, Insurance, & Cost of Care"	SP 2012
HLTH1555 Honors Special Topics in Health, "Pharmacoeconomics & Comparative Effectiveness"	FA 2012
PHMD6223 Drug Information and Evaluation, "Health Informatics"	SU 2011
PHMD6223 Drug Information and Evaluation, "Health Informatics"	SU 2010
PHMD6223 Drug Information and Evaluation, "Health Informatics"	SU 2009
PHMD6255 Comprehensive Disease Management 5, "Applications of Marketing Principles to Public Health"	FA 2012
PHMD6255 Comprehensive Disease Management 5, "Applications of Marketing Principles to Public Health"	FA 2011
PHMD4585 Research Methods in Health Systems, "Evaluating New Pharmacy Technology"	FA 2010
School of Pharmacy seminars: "Emerging Technologies in Pharmacy Practice: The US Context" and "Drivers of Electronic Medical Records and ePrescribing: Implications for Future Pharmacists"	FA 2008

Curriculum Development

PhD in Health Professions Education, MGH Institute of Health Professions, Boston, MA	2018-2019
PharmD-MPH Joint Degree Program, Northeastern University, Boston MA	2014-2015

External Educational Activities

"Expanding Clinicians' Roles in Breastfeeding Support: Focus on Maternal & Infant Care Prenatally and During the Hospital Stay: Continuing Medical Education (CME) Online Tutorial" (1.5 CME credits and 1.5 nursing contact hours available August 2014 at: http://www.northeastern.edu/breastfeedingcme/index.html ; now available at http://www.hriainstitute.org/breastfeedingcme/)	2014-Present
Tufts University School of Medicine Scholarship Oversight Committee, Fellowship Program in Neonatal-Perinatal Medicine (Fellow Noeet Elitsur, MD)	2013-2015
"Expanding Pediatricians' Breastfeeding Support: Online Continuing Medical Education Tutorial" (1.5 CME credits and 1.5 nursing contact hours available August 2013 at: http://www.northeastern.edu/breastfeedingcme/index.html now available at http://www.hriainstitute.org/breastfeedingcme/)	2013-Present
Continuing Pharmacy Education (CPE) Online Tutorial: "Expanding the Pharmacist's Role in Breastfeeding Support"	2013
AHRQ Impact Study (Effective Health Care, Academic Curriculum, Comparative Effectiveness Portfolio) based on use of AHRQ online modules in SoP Economic Evaluation of Pharmaceuticals and Pharmacy Practice (available at: http://www.ahrq.gov/about/casestudies/compeff/ce2011d.htm)	2011-2013

Mentoring Students

Michelle Clarke, MD, PhD Dissertation Chair	FA 2024
Hannah Kay, M.D, HE795 Scholarly Project Supervisor	SP 2022
Joanna Bonsall, M.D, HE795 Scholarly Project Supervisor	SP 2022
Neva Howard, M.D., HE795 Scholarly Project Supervisor	SP 2021
Adrian Koh, M.D., HE795 Scholarly Project Supervisor	SP 2020
Qinghui (Sarah) Lu, M.D., HE795 Scholarly Project Supervisor	SP 2019
Samantha Baker, M.D., HE795 Scholarly Project Supervisor	SP 2019
Joanne Kua, M.D., HE795 Scholarly Project Supervisor	SP 2019
Debra Hillier, M.D., HE795 Scholarly Project Supervisor	SP 2019
Steven Chen, M.D., HE795 Scholarly Project Supervisor	SP 2019
Bonny Dickinson, PhD, HE795 Scholarly Project Supervisor	SP 2019
Jeffrey Silpe, M.D., HE795 Scholarly Project Supervisor	SP 2019
Stephanie Mann, M.D., HE795 Scholarly Project Supervisor	SP 2019
Joshua Merson, MS, PA-C, HE795 Scholarly Project Supervisor	SP 2018
Amy Whigham, M.D., HE795 Scholarly Project Supervisor	SP 2018
Frederick (Ted) Carrick, M.D., HE795 Scholarly Project Supervisor	SP 2017
Mayur Narayan, M.D., HE795 Scholarly Project Supervisor	SP 2017
Igo Ribeiro, M.D., HE795 Scholarly Project Supervisor	SP 2017
Kari Furtek, PharmD, MPH Capstone, Graduate Project Supervisor	SP 2015
Heba Abolaban, MPH Capstone, Graduate Project Supervisor	SP 2015
Kristin Mainello, MPH Capstone, Graduate Project Supervisor	SP 2014
Felicia Ovin, Undergraduate Health Sciences Capstone, Project Supervisor	SP 2014
Lindsay Mancini, MPH Capstone, Graduate Project Supervisor	FA 2013
Jillian Johnson, MPH Capstone, Graduate Project Supervisor	SP 2013
Patrician Killoran, MPH Capstone, Graduate Project Supervisor	SP 2013

Lauren Hart, MPH Capstone, Graduate Project Supervisor	FA 2012
Giselle Bonzi, MPH Capstone, Graduate Project Supervisor	SP 2012
Amna Umer, MPH Capstone, Graduate Project Supervisor	FA 2011
Padraig Tangney, MPH Capstone, Graduate Project Supervisor	FA 2011
Laura Desrochers, MPH Capstone, Graduate Project Supervisor	SP 2011
Christina Jeffrey, MPH Capstone, Graduate Project Supervisor	SP 2011
Karla Corapi, MPH Capstone, Graduate Project Supervisor	FA 2010
Erica Abbey, MPH Capstone, Graduate Project Supervisor	SU 2010
Rory Cusack, MPH Capstone, Graduate Project Supervisor	FA 2009

Service and Professional Development

Service at MGH Institute of Health Professions

2024	New England Commission of Higher Education (NECHE) Interim Report Peer Reviewer
2022-2024	MGH Slavin Academy for Applied Learning in Healthcare, Education Scholarship Committee
2023	Provost's Office Institutional Research & Effectiveness Working Group & Faculty Subgroup
2023	Provost's Office Curriculum Design Group
2022	IHP Wellness Council Implementation Subcommittee
2021	Employer Partnerships Initiative
2021	Clinical Education Redesign Initiative
2019-2021	Faculty Mentor, IHP New Faculty Mentoring
2019-2020	IHP New England Commission on Higher Education Standard 8 (Assessment) Co-Standard Bearer for IHP Accreditation
2018	IHP School of Nursing Faculty Workshop: Scholarship of Teaching and Learning
2018	IHP School of Health & Rehabilitation Sciences Faculty Workshop: Scholarship of Teaching and Learning
2018	IHP Strategic Planning Strategic Priority 3 (Establish IHP as leader in scholarship and research) Scholarship of Teaching and Learning Subcommittee
2016-2017	Health Professions Education Program, Master of Health Professions 5-Year Program Review

Service at Northeastern University

Department

2013-2014	Department of Pharmacy Practice Faculty Search Committee
2012-2013	Department of Pharmacy Practice Faculty Search Committee
2011-2013	Department of Pharmacy Practice Strategic Planning Committee on Curriculum
2010	Department of Pharmacy Practice Professional Development Taskforce
2009	Department of Pharmacy Practice, Medication Therapy Management Program Evaluation
2011-2012	Department of Health Sciences MPH Program, Student Policy, Promotion, and Discipline Committee
2009-2011	Department of Health Sciences, MPH program, Council on Education for Public Health Self-Study Subcommittee Chair
2009	Department of Health Sciences, MPH program student recruitment

School

2009-2014	Steering Committee
2013-2014	PharmD-MPH Program leader
2011-2013	PharmD-MPH Joint Degree Program planning committee

2008-2009 Accreditation Council for Pharmacy Education Self Study Subcommittee (Stds 1-8)

College & University

2013-2014 Curriculum Committee, School of Pharmacy representative
 2012-2013 Faculty, PhD in Personal Health Informatics (with College of Computer & Information Sciences)
 2013 Faculty Senate *ad hoc* Committee, Tenure/Promotion and Annual Performance Evaluation for Faculty Members with Joint Appointments
 2008 NU Alumni Dinner Insights Lecture "Emerging Health Care Technologies: Real Hope or More Hype?"

Service to the Discipline/Profession

2008-2014 Massachusetts Breastfeeding Coalition (including "Baby-Friendly Hospital Collaborative" Faculty)
 2009-2014 American Public Health Association, Scientific Program Chair, Breastfeeding Forum 2010-2012 (including APHA Education Board Achievement Award in Continuing Education), Breastfeeding Forum Leadership Team 2010-2013
 2013-2014 National Collaborative for Advancing the Ten Steps to Successful Breastfeeding" Measures Taskforce Chair, Return-on-Investment Committee member
 2009-2013 Massachusetts MotherBaby Summit Planning Committee
 2011-2012 Weight of the Nation 2012 Conference Planning (Medical Care Subcommittee)
 2012 Program Evaluation Director, "Becoming Baby-Friendly: Practical Solutions" Massachusetts Department of Public Health
 2012 American Association of Colleges of Pharmacy, Public Health SIG Program Committee
 2011 American Public Health Association Policy Statement Co-Author (Policy#201115: APHA Endorses the Surgeon General's Call to Action to Support Breastfeeding)
 2011 Invited Expert Participant, The Carolina Global Breastfeeding Institute's project entitled, "The Interstate Collaborative for Widespread Implementation of the Ten Steps to Successful Breastfeeding" funded by AHRQ
 2009 U.S. Surgeon General's A Call to Action to Support Breastfeeding Expert Panelist
 1998-2002 NIH/NCCAM Consortial Center for Chiropractic Research Advisory Board
 1989-1993 National Service Robot Association Board of Directors
 1997-1998 Chair, Scientific Program, 2nd & 3rd Annual Alternative Therapies Symposium
 1991 Chairman, International Service Robot Congress
 Vice Chairman, Robots, Vision, & Automation Conference
 1989-1991 Robotic Assisted Employment Project Advisory Board and Executive Committee
 1990 American Association of Retired Persons, New Roles in Society Program
 1990 Rehabilitation Engineering Society of North America, Paper Review Committee for Robotics Special Interest Group
 1989 Gerontological Society of America, Annual Conference Paper Review
 1987 Industrial Advisory Committee, Vocational Rehabilitation. Ctr. Project with Industry
 1986-1987 Technology and Aging Forum (sponsored by AARP)

Professional Development

Membership in Professional Organizations

2009-2014 American Public Health Association
 2010-2014 American Association of Colleges of Pharmacy
 2010-2011 AcademyHealth
 2009-2010 American Pharmacists Association

2005-2007	Center for Integration of Medicine & Innovative Technology (CIMIT) (TIAX rep.)
2004-2005	North American Association for the Study of Obesity
2005-2006	MassMEDIC Society (TIAX rep.)
2002-2004	Massachusetts Biotechnology Council (TIAX rep.)
1995-2000	American Public Health Association
1993-2000	Association for Health Services Research
1998-2000	Drug Industry Association
1985-1993	National Service Robot Association, charter member
1989-1990	Rehabilitation Engineering Society of North America
1984-1985	Rehabilitation Engineering Society of North America
1988-1989	Gerontological Society of America
1982-1987	American Society on Aging
1984-1986	American Voice Input/Output Society

Reviewing Activities

2023-2025	<i>Frontiers in Medicine-Health Professions Education Section</i> , Associate Editor
2023	<i>Journal of Medical Systems</i>
2022	<i>Journal of Interprofessional Care</i>
2018	<i>Advanced Emergency Nursing Journal</i> , reviewer.
2015, 2018	<i>American Journal of Pharmaceutical Education</i> , reviewer
2013-2015	<i>Journal of Human Lactation</i> , Editorial Review Board
2013-2015	Patient Centered Outcomes Research Institute (PCORI) Stakeholder Reviewer for grants in Improving Healthcare Systems Funding Announcement (Winter & Spring 2014 cycles, Large Pragmatic Studies, Winter 2015 cycle)
2012-2015	<i>Maternal and Child Health Journal</i> , reviewer
2011-2014	<i>American Journal of Public Health</i> , reviewer
2011-2015	<i>Journal of Human Lactation</i> , reviewer
2013	<i>Journal of Pharmaceutical Health Services Research</i> , reviewer
2012-2014	<i>Journal of the American Pharmacists Association</i> , reviewer
2011-2012	<i>Currents in Pharmacy Teaching and Learning</i> , reviewer
2010-2011	<i>Breastfeeding Medicine</i> , reviewer
2010	<i>BMC Pregnancy and Childbirth</i> , reviewer
1997-2000	Foundation for Chiropractic Education and Research, grant reviewer
1996-1998	<i>Alternative Therapies in Health & Medicine</i> , Science & Methodology Editor
1995	<i>Health Affairs</i> , reviewer
1991	Ben Franklin Technology Program, Commonwealth of PA, grant reviewer