

KAREN K. GIULIANO, PhD, RN, MBA, FAAN

Curriculum Vitae

University of Massachusetts at Amherst
<https://www.umass.edu/marieb-nurse-engineer/>

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EDUCATION

National Institute of Nursing Research T-32 Postdoctoral Research Fellowship, Yale University, 2014-16
Mentor: Dr. Marjorie Funk, Helen Porter Jayne and Martha Prosser Jayne Emerita Professor of Nursing

MBA Master of Business Administration, Global Management Concentration, Babson College, 2009

PhD Boston College, PhD in Nursing, 2005

ANP Post-Master's Certificate, Ambulatory Nurse Practitioner Program, University of Massachusetts, Worcester, 1998

MSN Master of Science in Nursing, University of Rhode Island, 1989

BS Bachelor of Science, Boston College, 1983, Major: Nursing

ACADEMIC POSITIONS

Employment & Appointments

Professor, Institute for Applied Life Sciences & Elaine Marieb College of Nursing (Joint Appointment), University of Massachusetts, Amherst MA (2022-present)

Advisory Board, Institute of Diversity Sciences, University of Massachusetts, Amherst MA (2022-present)

Co-Director, Elaine Marieb Center for Nursing and Engineering Innovation. University of Massachusetts, Amherst MA (2021-present) <https://www.umass.edu/marieb-nurse-engineer/>

Associate Professor, Institute for Applied Life Sciences & College of Nursing (Joint Appointment), University of Massachusetts, Amherst MA (2019-2022)

Faculty, Center for Personalized Health Monitoring, Institute for Applied Life Sciences (2019-present)

Executive Director, Healthcare Innovation & Entrepreneurship, Northeastern University Bouvé College of Health Sciences, Boston MA (2018-2019)

Courtesy appointment, D'Amore-McKim School of Business, Northeastern University, Boston MA (2018-2019)

Faculty scholar, Tufts University Clinical and Translational Science Institute (CTSI), Boston MA (2018-2019)

Faculty appointment, Center for Health Policy and Healthcare Research, D'Amore-McKim School of Business (2017-2019)

Associate Professor, Northeastern University Bouvé College of Health Sciences, School of Nursing, Boston, MA (2017-2019)

Adjunct Faculty, Endicott College School of Nursing, Beverly, MA (2013-2016)

Adjunct Research Faculty, Boston College School of Nursing, Chestnut Hill, MA (2005-2007)

Academic Partnerships

2022- Mentor, Memorial Sloan Kettering Nursing Research Fellowship, <https://www.mskcc.org/hcp-education-training/fellowships/nursing-research-fellowship>

2022- Per diem Nurse Scientist, Baystate Medical Center, Springfield, MA

2021-2022 Consulting Nurse Scientist, Melrose-Wakefield Hospital, Melrose, MA

2018- Consulting Nurse Scientist, Center for Nursing Research and Advanced Practice, Orlando Health, Orlando, FL

2018-2021 Clinical Research Associate, Regenstrief Center for Healthcare Engineering (RCHE), Purdue University, West Lafayette, IN.
<https://www.purdue.edu/discoverypark/rche/people/faculty-clinical-affiliates.php>

2017-2019 External Faculty Nurse Scientist, Yvonne L. Munn Center for Nursing Research, Massachusetts General Hospital, Boston, MA

CLINICAL POSITIONS

2022- Per diem Nurse Scientist, Baystate Medical Center, Springfield, MA
 2015-2018 Per Diem Nurse Scientist, Hallmark Health, Medford, MA
 1994-1999 Clinical Nurse Specialist, Critical Care, Baystate Medical Center, Springfield, MA
 1991-1994 Clinician 4/5, University of Virginia Health Sciences Center, Charlottesville, VA
 1988-1991 Clinical Nurse Specialist, Critical Care, Miriam Hospital, Providence, RI
 1985-1988 Critical Care Staff Nurse, Miriam Hospital, Providence, MA
 1983-1985 Medical-Surgical Staff Nurse, Tufts Medical Center, Boston, MA

LICENSURE

2018- Registered Nurse, New Hampshire Multistate Nursing License (license no: 077277)
 1983- Registered Nurse, Massachusetts (license no: 166431)

CERTIFICATIONS/PROGRAM COMPLETIONS (since 2003)

2016 Association for the Advancement of Medical Instrumentation (AAMI). Human Factors for Medical Devices Certificate.
 2015 National Science Foundation iCorps Program (Team Leader). 8 Week Commercialization Boot Camp through the Consortia for Improving Medicine with Innovation & Technology (CIMIT), Boston MA
 2012 Certified Professional Marketer, American Marketing Association
 2010 Center for Creative Leadership, Executive Leadership Development Program
 2005 Six Sigma Green Belt
 2003 Fellow, American Academy of Nursing (FAAN)

ADVISORY BOARDS

2022- Advisory Board, Product Innovation, Marketing & Business Development, Bravida Medical, Geneva, IL.
 2022-2024 Advisory Board, Product Innovation, Marketing & Business Development, Atlas Lift Tech, San Ramon, CA
 2019- Nursing Innovation Advisory Board, Vice-Chair, American Nurses Association, Silver Spring, MD
 2020-2021 Advisory Board, Product Innovation, Marketing & Business Development, TagCarts, Sacramento, CA
 2019 - Advisory Board, Product Innovation, Marketing & Business Development. Roddy Medical, Madison WI
 2019-2021 Advisory Board, Marketing & Business Development. Viven Health, St Louis MO
 2018-2019 Nursing Innovation Advisory Board, American Nurses Association, Silver Spring, MD
 2017-2022 Advisory Board, Clinical Research, Regenstrief National Center for Medical Device Informatics (REMEDI) at the Regenstrief Center for Healthcare Engineering (RCHE), Purdue University, West Lafayette, IN

AWARDS AND HONORS

2023 Fulbright Faculty Scholar, 2023-2024 Academic Year. Will spend 6 months as a visiting research scholar at Edinburgh Napier University School of Health and Social Care.
<https://www.umass.edu/news/article/nurse-innovator-awarded-fulbright-develop-international-program-university-scotland>
<https://www.umass.edu/news/article/seven-selected-umass-amherst-receive-prestigious-2023-24-fulbright-us-scholar-awards>
 2023 Legislative Award for Western MA, Manufacturer of the Year. The Elaine Marieb Center for Nursing and Engineering Innovation. Nominated by district legislator Mindy Domb.

- 2023 Eastern Nurses Research Society 2023 ENRS Distinguished Contributions to Nursing Research Award
- 2022 Business West HealthCare Hero in Innovation, the Elaine Marieb Center for Nursing and Engineering Innovation
- 2022 AAMI Excellence in Research Publication Award, <https://array.aami.org/content/news/aami-recognizes-authors-cloud-computing-cybersecurity-and-smart-pumps>. Giuliano, KK., Blake, J. (2021). Medication Safety at the Frontlines: Nurse and Pharmacist Knowledge of Secondary Medication Administration. *Biomedical Instrumentation & Technology. Biomed Instrum Technol.* 55 (1): 51–58. <https://doi.org/10.2345/0890-8205-55.1.51>
- 2021 Selected as University of Rhode Island College of Nursing Luminary in recognition of contributions in practice, education and research.
- 2020 APIC/AJIC Excellent in Publication Award: Giuliano, K., Baker, D., Quinn, B. (2018). The epidemiology of nonventilator hospital-acquired pneumonia in the United States. *American Journal of Infection Control*, 46(3): 322-327. DOI: 10.1016/j.ajic.2017.09.005
The award recognizes “an author who has published an article in the ‘*American Journal of Infection Control*’ which was widely read and cited during the previous year”
- 2020 Institute for Social Science Research Scholar/Fellowship, University of Massachusetts Amherst
- 2020 UManage Center Research Fellow, University of Massachusetts Amherst, National Institute of Nursing Research of the National Institutes of Health under Award Number P20NR016599.
- 2020 Distinguished Researcher Lecturer, American Association of Critical Care Nurses. To be delivered at the AACN NTI National Conference, May 4, Indianapolis IN
- 2019 Evidence-based Practice Award, Eastern Nursing Research Society (ENRS). Presented at ENRS Conference, Providence RI
- 2018 The Massachusetts Technology Transfer Center. MA Acorn Award Finalist.
- 2018 Research Abstract Award, American Association of Critical Care Nurses (AACN). Presented at AACN National Teaching Institute (NTI), Boston MA
- 2012 Professional Achievement Award, Association for the Advancement of Medical Instrumentation (AAMI). Presented at AAMI National Conference, Charlotte NC
- 2011 Global Winner, Product Development Award, R& D Category, Philips Healthcare
- 2007 Ovation Award, Philips Healthcare
- 2005 Excellence in Research, American Association of Critical Care Nurses
- 2005 Research Abstract Award, American Association of Critical Care Nurses
- 2004 Clinical Research Grant, Sigma Theta Tau
- 2004 Clinical Practice Grant, American Association of Critical Care Nurses
- 2003 Fellow, American Academy of Nursing (FAAN)
- 2003 Evidence-Based Practice Award, University of Rochester
- 2002 National Clinical Nurse Specialist Award, American Association of Critical Care Nurses
- 2002 Wyeth-Ayerst Fellowship (Mentor), American Association of Critical Care Nurses
- 2000 National Innovision Award, American Association of Critical Care Nurses
- 2000 National Research-based Practice Award, American Nephrology Nurses Association
- 1999 National Clinical Practice Award, American Nephrology Nurses Association
- 1997 Innovision Grant, American Association of Critical Care Nurses
- 1997 Clinical Practice Award, Colonial Chapter ANNA
- 1995 Clinical Inquiry Grant, American Association of Critical Care Nurses
- 1995 Nurse-in-Washington Fellow, American Nephrology Nurses Association
- 1993 Nurse of the Year, University of Virginia
- 1990 Staff Development Award, Miriam Hospital, Providence, RI
- 1990 Award for Nursing Excellence, Sigma Theta Tau

NATIONAL PROFESSIONAL GUIDELINES/POSITION PAPERS/THINK TANKS/RECOMMENDATIONS

- 2023 Centers for Disease Control Healthcare-associated Infections. **Oral Health in Healthcare Settings to Prevent Pneumonia Toolkit.** [Oral Health in Healthcare Settings to Prevent Pneumonia Toolkit | HAI | CDC](#)
- 2021 The Joint Commission. Quick Safety Issue #61. Preventing Non-ventilator Hospital-Acquired Pneumonia. *Safety alert based largely on the work of our NVHAP team.
- 2021 Shannon Munro PhD, APRN, NP-BC (corresponding author); Dian Baker PhD, APRN; **Karen K. Giuliano PhD**, MBA, RN; Sheila Sullivan PhD, RN, Judith Haber PhD APRN-BC, FAAN; Barbara Jones MD, MSc; Matthew Crist MD, MPH; Richard Nelson PhD; Evan Carey PhD; Olivia Lounsbury BSc; Michelle Lucatorto DNP, FNP-C, Ryan Miller MSN, RN; Brian Pauley MSN, RN; Michael Klompas MD, MPH* (senior author) (2021). Non-Ventilator Hospital-Acquired Pneumonia: A Call to Action. Recommendations from the National Organization to Prevent Hospital Acquired Pneumonia (NOHAP) among Non-Ventilated Patients. *Infection Control and Hospital Epidemiology*, (2021), 42, 991–996.
- 2021 Invited Reviewer, 2021 Infusion Therapy Standards of Practice, Infusion Nurses Society.
- 2020 Invited contributor, Actionable Patient Safety Solutions (APSS): Pediatric and Neonatal Airway Safety. Patient Safety Movement. https://patientsafetymovement.org/wp-content/uploads/2020/03/3136A_February-APSS-Blueprints_Pediatric-and-Neonatal-Airway-Safety-1.pdf
- 2020 Invited contributor, Veterans Administration (VA) Innovation Ecosystem. National Think Tank on NV-HAP Prevention. Washington DC, January 14, 2020
- 2020 Invited contributor, National Organization for NVHAP Prevention (NOHAP). A national level working group consisting of VA leadership and external representatives from academia, non-profits, industry, and other government agencies. <https://www.va.gov/INNOVATIONECOSYSTEM/views/solutions/national-organization.html>
- 2019 Invited contributor, Institute for Safe Medical Practices (ISMP) National IV Smart Infusion Pump Guidelines. <https://www.ismp.org/guidelines/safe-implementation-and-use-smart-pumps>
- 2019 Invited contributor. Association for Professionals in Infection Control (APIC). Implementation Guide: Non-ventilator Hospital-Acquired Pneumonia Prevention. <https://apic.org/apic-publishes-implementation-guide-on-nv-hap/>

PUBLICATIONS**Doctoral Dissertation**

Giuliano, KK (2005). Physiologic monitoring for critically ill patients: Testing a predictive model for the early identification of sepsis. ProQuest, UMI Dissertation Services: 3161708.

Peer-Reviewed Journal Articles (Refereed)

***with undergraduate student, **with graduate student**

In Development

Scott, S; Vital, C; Fernandez, G; St. Jean, G.; **Giuliano, K.** The 2017 Joint Commission Regulations on Medication Titration: Do They Help or Hinder Patient Safety?

Blake, J., Lee, S., Georgadarellis, G., Gupta, R., Sup, F., **Giuliano, K.**, Roberts, S. The Use of Eye-tracking Technology to Measure Cognitive-Behavioral Processes During IV Medication Administration

Giuliano, K. Venous Thrombosis Prevention: Improving Compliance to Optimal Use with a Novel Device for External Mechanical Compression.

Giuliano, K, Vital, C., Romaine, S. Flow Rate Accuracy of the Baxter Sigma IV Smart Pump During Actual Clinical Use in the Critically Ill.

In Press

Davis, C., Beeson, T., Porter, H., **Giuliano, K.** Evaluation of a Novel Mechanical Compression Device in Adult Acute Care and Critical Care. *American Journal of Nursing*.

Published

- Benjamin, E., & **Giuliano, K. K.** (2024). Empowerment Through Academia. *AJN The American Journal of Nursing*, 124(2), 61-63.
- Vollman, K., Black, J., **Giuliano, K.** (2024) Early and Progressive Mobility in the ICU: A Balanced Approach to Improve Outcomes for Both Patients and Staff. *Journal of Nursing Care Quality*. 39(1): 7-9.
DOI: 10.1097/NCQ.0000000000000722
- Baker, D., **Giuliano, K.**, Desmarais, M., Worzala, C., Cloke, A., & Zawistowich, L. (2023). Impact of hospital-acquired pneumonia on the Medicare program. *Infection Control & Hospital Epidemiology*, 1-6.
doi:10.1017/ice.2023.221
- Giuliano, K. K.**, Mahuren, R. S., & Balyeat, J. (2023). Data-based program management of system-wide IV smart pump integration. *American Journal of Health-System Pharmacy*, zxad245.
- Benjamin, E. ** **Giuliano, K. K.** (2023). Improving Bruise Detection in Patients with Dark Skin Tone. *AJN, American Journal of Nursing*, 123(7), 46-47.
- Giuliano, K. K.**, Bilkovski, R. N., Beard, J., & Lamminmäki, S. (2023). Comparative analysis of signal accuracy of three SpO2 monitors during motion and low perfusion conditions. *Journal of Clinical Monitoring and Computing*, 1-11.
- Gabele, D., Mendez, S., **Giuliano, K. K.** (2023). Early and progressive mobility in a community hospital: A new interdisciplinary safe patient handling and mobility model. *Nursing Management*, 54(3), 22-27.
- Kainec, K. A., Spencer, R. M., Benjamin, E., Searles, M. E., & **Giuliano, K. K.** (2023). Maintaining Sleep while Improving Overnight Mobility and Comfort with a Novel Lower Limb External Mechanical Compression System. *Human Factors in Healthcare*, <https://doi.org/10.1016/j.hfh.2023.100043>.
- Giuliano, K. K.**, Baker, D., & Benjamin, E. (2023). Preventing Non-Ventilator Hospital-Acquired Pneumonia: A Survey of Medical-Surgical Nurses. *Medsurg Nursing*, 32(2), 118-133.
- Penoyer, D., **Giuliano, K.**, & Middleton, A. (2023). Comparison of Three Reconstitution Devices: A Simulated Time and Use Study. *International journal of pharmaceutical compounding*, 27(2), 169-174.
- Giuliano, K.**, Baker, D., Benjamin, E. (2023). Preventing Non-Ventilator Hospital-Acquired Pneumonia: A Survey of the Academy of Medical Surgical Nurses. *MedSurg Nursing*, 32(2):118-124.
- Landsman, K., & **Giuliano, K. K.** (2023). Nurse–Engineer Partnerships in Academia. *AJN The American Journal of Nursing*, 123(3), 44-46.
- Gabele, D., Mendez, S., & **Giuliano, K. K.** (2023). Early and progressive mobility in a community hospital: A new interdisciplinary safe patient handling and mobility model. *Nursing Management*, 54(3), 22-27.
- Giuliano, K. K.**, Blake, J. W., Bittner, N. P., Gamez, V., & Butterfield, R. (2022). Intravenous Smart Pumps at the Point of Care: A Descriptive, Observational Study. *Journal of Patient Safety*, 18(6), 553-558.
https://journals.lww.com/journalpatientsafety/Fulltext/2022/09000/Intravenous_Smart_Pumps_at_the_Point_of_Care_A.7.aspx
- Giuliano, K. K.**, Landsman, K. (2022). The Power of Collaborative Nurse–Engineer Product Innovation. *AJN The American Journal of Nursing*, 122(7), 59-61.
https://journals.lww.com/ajnonline/Fulltext/2022/07000/Collaborative_Nurse_Engineer_Product_Innovation.29.aspx?context=LatestArticles
- Baker, D., **Giuliano, K. K.**, Thakkar-Samtani, M., Glick, M., Restrepo, M. I., Scannapieco, F. A., Glick, M., Heaton, L., & Frantsve-Hawley, J. (2022). The association between accessing dental services and nonventilator hospital-acquired pneumonia among 2019 Medicaid beneficiaries. *Infection Control and Hospital Epidemiology (ICHE)*. <https://www.doi.org/10.1017/ice.2022.163>
- Giuliano, K. K.**, Baker, D., Thakkar-Samtani, M., Glick, M., Restrepo, M. I., Scannapieco, F. A., Glick, M., Heaton, L., & Frantsve-Hawley, J. (2022). Incidence, Mortality, and Cost Trends in Non-Ventilator Hospital-Acquired Pneumonia in Medicaid Beneficiaries, 2015-2019. *American Journal of Infection Control*. <https://doi.org/10.1016/j.ajic.2022.06.016>

- Benjamin, E.,** Roddy, L., **Giuliano, K.** (2022). The Impact of Patient Tubes and Lines on Early Mobility in the Intensive Care Unit. *Human Factors in Healthcare*. 2, 100017.
<https://doi.org/10.1016/j.hfh.2022.100017>
- Blake, J.,** , Fiske, S.** , **Giuliano, K.** (2022). IV Smart Pump Usability: A Qualitative Descriptive Analysis. *Nursing Open*. <https://doi.org/10.1002/nop2.1227>
- Giuliano, K.**, Sup, F., Benjamin, E.,** Kristnamurty, S. (*invited*). (2022) INNOVATE: Preparing Nurses to be Healthcare Innovation Leaders. *Nursing Administrative Quarterly*, 46(3): 255.
- Baker, D., **Giuliano, K.**, Worzala, C., Cloke, A., Zawistowich, Lu. (2022) Hospital-Acquired Pneumonia Threatens Patient Safety—Policy Makers Must Act to Confront It. *Health Affairs Forefront*.
<https://www.healthaffairs.org/doi/10.1377/forefront.20220418.65994>
- Gill, C.,** **Giuliano, K.** (2022). Gabapentinoids and Acetaminophen as Adjuvants for Managing Postoperative Pain. *American Association of Nurse Anesthetists*.
- Scannapieco, F., **Giuliano, KK.**, Baker, D. (2022). The role of oral health in the prevention of nonventilator hospital-acquired pneumonia. **Invited contributor** for special issue of *Dental Clinics of North America*. doi.org/10.1111/prd.12423
- Penoyer, D., **Giuliano, K.**, & Middleton, A. (2022). Comparison of safety and usability between peristaltic and pneumatic large-volume intravenous smart pumps during actual clinical use. *BMJ Innovations*, 8(2).
- Giuliano, K.**, Baker, D. (2022). Best Practices for Cardiac Monitoring During Neonatal Resuscitation. *Journal of Neonatal Nursing*.
- Baker, D., **Giuliano, K.** (2021). Prevention practices for nonventilator hospital-acquired pneumonia: A survey of the Society for Healthcare Epidemiology of America (SHEA) Research Network (SRN). *Infection Control & Hospital Epidemiology*, doi:10.1017/ice.2021.427.
- Pryor, L., **Giuliano, K.**, Gallagher, S. (2021). Creating a Culture of Worker Safety: Evidence-Based Safe Mobility in the ICU. *The Journal of the Association of Occupational Health Professionals in Healthcare*. 41(3): 34-37.
- Shannon Munro PhD, APRN, NP-BC (corresponding author); Dian Baker PhD, APRN; **Karen K. Giuliano PhD**, MBA, RN; Sheila Sullivan PhD, RN, Judith Haber PhD APRN-BC, FAAN; Barbara Jones MD, MSc; Matthew Crist MD, MPH; Richard Nelson PhD; Evan Carey PhD; Olivia Lounsbury BSc; Michelle Lucatorto DNP, FNP-C, Ryan Miller MSN, RN; Brian Pauley MSN, RN; Michael Klompas MD, MPH* (senior author) (2021). Non-ventilator hospital-acquired pneumonia: A call to action: Recommendations from the National Organization to Prevent Hospital-Acquired Pneumonia (NOHAP) among nonventilated patients. *Infection Control & Hospital Epidemiology*, (2021), 42, 991–996.
- Blake, J.,** **Giuliano, K.**, Butterfield, R. D., Vanderveen, T., & Sims, N. M. (2021). Extending tubing to place intravenous smart pumps outside of patient rooms during COVID-19: an innovation that increases medication dead volume and risk to patients. *BMJ Innovations*, 7(2). Special Call: BMJ Innovations, “Innovations during COVID”.
- Blake, J.,** Butterfield, R., **Giuliano, K.** (2021). Clinical Implications of IV Extension Tubing with Titratable Medications. *AACN Adv Crit Care* (2021) 32(2): 153–155. <https://doi.org/10.4037/aacnacc2021149>
- Giuliano, KK.**, Blake, J.,** (2021). Medication Safety at the Frontlines: Nurse and Pharmacist Knowledge of Secondary Medication Administration. *Biomedical Instrumentation & Technology*. *Biomed Instrum Technol*. 55 (1): 51–58. <https://doi.org/10.2345/0890-8205-55.1.51> ***winner of BI&T 2021 research paper publication award**
- Giuliano, KK.**, Blake, J.,** Butterfield, RB. (2021). Secondary Medication Administration and IV Smart Pump Setup. *AJN The American Journal of Nursing*, 121(8), 46-50.
- Labropoulos, N., **Giuliano, K. K.**, Tafur, A. J., & Caprini, J. A. (2021). Comparison of a Non-Pneumatic Device to Four Currently Available Intermittent Pneumatic Compression Devices on Common Femoral Blood Flow Dynamics. *Journal of Vascular Surgery: Venous and Lymphatic Disorders*.
<https://doi.org/10.1016/j.jvsv.2021.01.008>
- Giuliano, K.**, & Pozzar, R. (2021). Achieving Noise Reduction with a Novel Lower Limb External Mechanical Compression System. *Ergonomics in Design*, 30(1), 26-32.
<https://doi.org/10.1177/10648046211016690>.

- Giuliano, K. K.**, Penoyer, D., Middleton, A., & Baker, D. (2021). Oral Care as Prevention for Nonventilator Hospital-Acquired Pneumonia: A Four-Unit Cluster Randomized Study. *AJN The American Journal of Nursing*, 121(6), 24-33. *Featured research article, June 2021
- Giuliano, K. K.**, Penoyer, D., Mahuren, R. S., & Bennett, M. (2021). Intravenous Smart Pumps During Actual Clinical Use: A Descriptive Comparison of Primary and Secondary Infusion Practices. *Journal of Infusion Nursing*, 44(3), 128.
- Golden, S. L., Blake, J. W., & **Giuliano, K. K.** (2020). Parental decision-making: infant engagement with smartphones. *Infant Behavior and Development*, 61, 101497.
- Blake, J.,** **Giuliano, K.** (2020). Flow Accuracy of IV Infusion Pumps Outside Patient Rooms During COVID-19. *AACN Adv Crit Care*, 31(4): 357-363. <https://doi.org/10.4037/aacnacc2020241>
- Giuliano, K.** (2020). Challenging precedent: Critical care nursing and medical product innovation. *American Journal of Critical Care*. 29(4), 253-261.
- Quinn, B., **Giuliano, K.**, Baker, D. (2020) Non-ventilator healthcare acquired pneumonia (NV-HAP): Best practices for the prevention of NV-HAP. *American Journal of Infection Control*. 48(55): A25-A30. [https://www.ajicjournal.org/article/S0196-6553\(20\)30129-2/fulltext](https://www.ajicjournal.org/article/S0196-6553(20)30129-2/fulltext)
- Ackerman, M., **Giuliano, K.**, Malloch, K. (2020). The Novation Dynamic: Clarifying the work of change, disruption, and innovation. *Nursing Leader*. <https://doi.org/10.1016/j.mnl.2020.01.003>
- Giuliano, K.**, Baker, D. (2020). Sepsis in the context of non-ventilator hospital-acquired pneumonia. *American Journal of Critical Care*. 29(1), pp.9-14. doi: 10.4037/ajcc2020402.
- Giuliano, K.**, Hatch, C., Pozzar, R**. (2019). Thrombophylaxis after hospitalization for joint replacement surgery. *Journal for Healthcare Quality*. DOI: 10.1097/JHQ.000000000000204. PMID:31082932.
- Marwitz, K, **Giuliano, K.**, Wan-Ting Su., Degnan, D., Zink, R., DeLaurentis, P. (2019). High-Alert Medication Administration and Intravenous Smart Pumps: A Descriptive Analysis of Clinical Practice. *Research in Social and Administrative Pharmacy*. <https://doi.org/10.1016/j.sapharm.2019.02.007>
- Baker, D., Quinn, B. Ewan, V., **Giuliano, K.** (2018). Sustaining quality improvement: Long-term reduction of non-ventilator hospital-acquired pneumonia. *Journal of Nursing Care Quality*. 9(6), DOI: 10.1097/NCQ.0000000000000359. PMID: 30198950
- Giuliano, KK.** (2018). IV smart pumps and error-prone programming tasks: Comparison of four devices. *Biomedical Instrumentation & Technology*. 52(s2):7-16. PMID: 29775384
- Giuliano, K.** (2018). Non-ventilator hospital-acquired pneumonia: Where do we go from here? *American Journal of Infection Control*. 46(6): 730. DOI: 10.1016/j.ajic.2018.02.017. PMID: 29655668
- Giuliano, K.** (2018). Non-ventilator hospital-acquired pneumonia: Epidemiology to support prevention strategies. *American Journal of Infection Control*. 46(7): 847-848. DOI: 10.1016/j.ajic.2018.03.007. PMID: 29661623.
- Giuliano, K.**, Baker, D., Quinn, B. (2018). The epidemiology of nonventilator hospital-acquired pneumonia in the United States. *American Journal of Infection Control*, 46(3): 322-327. DOI: 10.1016/j.ajic.2017.09.005.
- Giuliano, K.**, Wan-Ting Su., DeLaurentis, P., Degnan, D., Zink, R., Fitzgerald, K. (2018). Intravenous smart pump drug library compliance: A descriptive study of 44 hospitals. *Journal of Patient Safety*. 14: e76-e82. Doi: 10.1097/PTS.00000000000000383. PMID: 2857495.
- Gray, M., **Giuliano, K.** (2018). Incontinence-associated dermatitis, characteristics and relationship to pressure injury: A multisite epidemiologic analysis. *JWOCN*, 45(1): 63-67. DOI: 10.1097/WON.0000000000000390. PMID: 29300291.
- Schoener B, Baird P, Dorn L, **Giuliano K**, Ho M, Jump M, Sahiner B, Zink R. (2018). Using Data-Based Decisions to Transform Health Technology and Improve Patient Care. *Biomedical Instrumentation & Technology*. 2018; 52(s2):7-16. DOI: 10.2345/0899-8205-52.s2.7. PMID: 29775385.
- Giuliano, K.** (2018). Intravenous smart pumps: Usability issues, intravenous medication administration error, and patient safety. *Critical Care Nursing Clinics of North America*. 30: 215-224. DOI: 10.1016/j.cnc.2018.02.004. PMID: 29724440. *Invited for special issue on human factors in healthcare.*
- Giuliano, K.**, Hendricks, J. (2017). Nursing knowledge of inadvertent perioperative hypothermia. *AORN Journal*, 105, 453-463. PMID: 28454611.

- Giuliano, K.** (2017). Improving patient safety and clinical outcomes through nursing surveillance. *AAMI Horizons, Spring*, 34-43.
- Giuliano, K.** (2017). Improving patient safety and clinical outcomes through nursing surveillance. *Biomedical Instrumentation & Technology*. 51(2): 34-43. DOI: 10.2345/0899-8205-51.s2.34. PMID: [28296456](#)
- Campoe, K,** **Giuliano, K.** (2017). Impact of Frequent Interruption on Nurses' Patient-Controlled Analgesia Programming Performance. *Human Factors and Ergonomics Society Journal*. 59(8):1204-13. DOI: 10.1177/0018720817732605. PMID: [28925730](#).
- Giuliano, K., Ruppel, H.**** (2017). Are IV smart pumps smart enough? *Nursing 2017*. 41(3). 64-66.
- Giuliano, K, Danesh, V, Funk, M.** (2016). The relationship between nurse staffing and 30-day readmission for adults with heart failure. *JONA*, 46: 25-29. DOI: 10.1097/NNA.0000000000000289. PMID: [26579974](#).
- Giuliano, K.** (2015). IV smart pumps: The impact of a simplified user interface on clinical use. *Biomed Instrum Technol*. 13(s.4): 13-21. DOI: 10.2345/0899-8205-49.s4.13. PMID: [26444045](#).
- Giuliano, K, Niemi, C.** (2015). The urgent need for innovation in IV smart pumps. *Nursing Management*, 46(3). 17-19. DOI: 10.1097/01.NUMA.0000461066.79777.06. PMID: [25692639](#).
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- Giuliano, K.,** Higgins, T., Pysznik, E., Tynan, C., Perkins, S., Jaciow, D. (1999). Cost-effectiveness and Laboratory Turnaround Time using expanded Point-of-Care Testing in the ICU. *AACN National Teaching Institute Conference Proceedings.*
- Giuliano, K.,** Goerd, P., Higgins, TL., Elliot, S., Anderson, T., Circeo, L., McGee, W. (1998). Using the Juran quality improvement model to improve the management and reduce costs in patients on neuromuscular blocking agents in the ICU. *Critical Care Medicine, S26(1).* A88.
- Giuliano, K.,** Stetler, C., Bloniasz, E., Elliot, S., Brunton, M. (1998). Using the Stetler RU model to meet the needs of critically ill patients and their families. *AACN National Teaching Institute Conference Proceedings.*
- Giuliano, K.,** Bloniasz, E. (1998). Implementation of a pet visitation program in critical care. *AACN National Teaching Institute Conference Proceedings.*
- Giuliano, K.,** Scott, S., Elliot, S., Pysznik, E. (1998). Temperature measurement in critically ill orally intubated adults: A comparison of PA core, oral and tympanic methods. *AACN National Teaching Institute Conference Proceedings.*
- Giuliano, K.,** Scott, S., Elliot, S., Pysznik, E. (1998). Temperature measurement in critically ill orally intubated adults: A comparison of PA core, oral and tympanic methods. *AACN National Teaching Institute Conference Proceedings.*
- Scott, S., **Giuliano, K.** (1997). The relationship of triple lumen catheter port site on central venous pressure readings in critically ill adults. *AACN National Teaching Institute Conference Proceedings.*
- Sims, TW, **Giuliano, K.** (1994). A team approach for reviewing ethical cases. *ANNA National Conference.*
- Giuliano, K.** (1993). What Does A "DNR" Order Really Mean--A Checklist to Clarify What Should and Should Not Be Done. *AACN Clinical Issues Advanced Practice in Acute and Critical Care, 4(3).*
doi:10.1097/00044067-199308000-00011
- Sims, TW, **Giuliano, K.** (1993). An innovative approach to transplant patient teaching. *ANNA Journal. 20(3).*
- Kaye, W., Mancini, M., **Giuliano, K.** (1992). Early defibrillation in the hospital by staff nurses using automated external defibrillators: Training and retention issues. *Critical Care Medicine 20(4).* S59.
- Giuliano, K.,** Giuliano, A. (1992). Cardiovascular response to family visitation and nurse-physician collaborative rounds. *Heart and Lung. 21(3).* 290.

PRESENTATIONS (Invited)

- Giuliano, K.** (2024). Developing the Next Generation of Nurses as Healthcare Innovation Leaders, Dartmouth Hitchcock Annual Innovation Conference Keynote Speaker, October 24, 2024.
- Giuliano, K.** (2024). Important Considerations in IV Smart Pump Use in Acute and Critical Care. Bainbridge Health Safety Webinar, June, 2023.
- Downing, N., **Giuliano, K.,** Oerther, D. (2023). Nurse Engineers: Building What Health Care Really Needs. ANA Innovation Lounge Presentation, September 20, 2023.
- Giuliano, K.** (2023). Challenging Precedent: Unleashing Nurse-led Innovation with Nurse-Engineer Teams. Nursing Grand Rounds, University of Illinois Hospital & Health Sciences System, May 17.
- Giuliano, K.** (2022). IV Smart Pumps: Evidence to Guide Practice and Patient Safety. University of Michigan Center for Healthcare Engineering and Patient Safety (CHEPS), Seminar Series, November 7.
- Baker, D., **Giuliano, K.,** Scannapieco, F. (2022). The Connection Between a Healthy Mouth and Prevention of Hospital-Acquired Pneumonia. CareQuest Webinar, September 29.
- Blake, J., **Giuliano, K.** (2022). Safety, Usability and Flow Rate Accuracy of IV Smart Pumps. Institute for Safe Medication Practices Medication Safety Webinar, August 29.
- Giuliano, K.,** Blake, J. (2022). Safety, Usability and Flow Rate Accuracy of IV Smart Pumps. Institute for Safe Medication Practices and ECRI, July 14, Plymouth Meeting PA.
- Baker, D., **Giuliano, K.,** Scannapieco, F. Oral Hygiene as Prevention: Discovering the Links Between Oral Health, Respiratory Infection, and Sepsis. Sepsis Alliance National Webinar, June 22, 2022.
- Giuliano, K.,** Blake, J.** (2022). How "Smart are IV Smart Pumps. UMass Center for Clinical and Translational Science (UMCCTS) Research Webinar. April 22.

- Giuliano, K.** The Unconventional Journey of a Nurse Innovator. AACN Dallas Chapter, January 4, 2022
- Giuliano, K.** The Unconventional Journey of a Nurse Innovator. AACN Houston Chapter, December 9, 2021.
- Baker, D., **Giuliano, K.**, Scannapieco, F. (2022). The Connection Between a Healthy Mouth and Prevention of Hospital-Acquired Pneumonia. National Sepsis Alliance Webinar, June 22.
- Baker, D., **Giuliano, K.** (2021). Sepsis in the context of nonventilator hospital-acquired pneumonia. National Sepsis Alliance Healthcare-acquired Infection Summit, December 16, 2021.
- Giuliano, K.** Landsman, K, Andersen, Erik (2021). UPenn Nursing Innovation Colloquium: The Need for Nurse-Engineers. November 10, 2021.
- Giuliano, K.** (2021). Accelerating Healthcare Innovation: Nursing Perspectives and Medical Product Development. Adelphi University Webinar, April 27.
- Giuliano, K.** (2021). The Role of the Nurse in Medical Product Innovation. New York University Webinar, March 9.
- Giuliano, K.**, Littman, R. (2021). How Visibility on Infusion Pump Data Can Promote Better Use of Clinical Decision Support in the Perioperative Setting, National Webinar, April 12.
- Baker, D., **Giuliano, K.** Sepsis in the context of nonventilator hospital-acquired pneumonia. National Sepsis Alliance Healthcare-acquired Infection Summit, December 10, 2020 (Virtual).
- Giuliano, K.** Challenging precedent: Critical care nursing and medical product innovation. American Association of Critical Care Nurses National Teaching Institute. May, 2021 (*COVID-19 virtual*).
- Giuliano, K.** Challenging precedent: Critical care nursing and medical product innovation. American Association of Critical Care Nurses National Teaching Institute. May 4, 2020 (*COVID-19 cancellation*).
- Giuliano, K.** The use of eye tracking technology as a measure IV smart pump programming complexity. Regenstrief National Center for Medical Device Informatics (REMEDI) Annual Conference. April 16, 2019, Chicago IL (*COVID-19 cancellation*).
- Giuliano, K.** Innovative approach to enhancing patient mobility and preventing DVT. Advocate Health System Innovation Conference, April 24, Madison WI (*COVID-19 cancellation*).
- Giuliano, K.** The unconventional journey of a nurse researcher: Leading nursing innovation. Hackensack Meridian Health 15th annual Anna May Center Nursing Research Conference, December 3, 2019, Hackensack, NJ.
- Clipper, B., Eckmann, D., Hanners, A., Gill, **M., Giuliano, K.** Non-traditional pathways in healthcare. Healthcare Innovation & Entrepreneurship Workshop. The Ohio State, September 24, 2020.
- Vanderveen, T., **Giuliano, K.**, Suess, T. Secondary medication administration using IV smart pumps and other high-risk tasks. ICU Medical National Webinar, October 29, 2019.
- Giuliano, K.** Unleashing the power of nurses as innovators. Innovation Learning Network “Going Rogue”, September 26, 2019, Boston MA.
- Giuliano, K.** The power of nurses as innovators. Distinguished Plenary Speaker, The National Academy of Medicine Future of Nursing 2020-2030 Regional Meeting. Co-sponsored by The Robert Wood Johnson Foundation & AARP. August 7, 2019, Seattle WA.
- Giuliano, K.** Innovation & EntpreNURSEship. Endnote Address, Long Beach Memorial Hospital Research Conference: Focus on Innovation. May 9, 2019, Long Beach CA.
- Giuliano, K.**, Vermace, B., Hirschy, S. The Team Approach to Improving Medication Infusion Safety using IV Smart Pumps. Regenstrief National Center for Medical Device Informatics (REMEDI) Annual Conference. April 13, 2019, Chicago IL.
- Baker, D., Quinn, B., Munro, S., **Giuliano, K.** What is your hospital doing about the #1 hospital-acquired infection? American Hospital Association/American Organization of Nurse Executives National Webinar. March 27, 2018 (1pm EST).
- Giuliano, K.**, Baker, D., Quinn, B. Non-ventilator hospital acquired pneumonia and sepsis outcomes. AACN National Teaching Institute. Boston, MA. May 23, 2018. **Research Abstract Award Winner**
- Giuliano, K.** The future of work. Exponential Medicine/Singularity University National Conference. San Diego, CA. November 6, 2018.
- Giuliano, K.** Non-ventilator hospital acquired pneumonia: The hidden epidemic. APIC National Conference, Minneapolis, MN. June 13, 2018.

Giuliano, K. Unconventional journey. From bedside nurse to nurse scientist. Hallmark Health. Hallmark Health, Melrose, MA. 2010.

Giuliano, K. Evidence-based practice in the care of the critically ill. Stanford Cardiovascular Symposium. Palo Alto, CA. 2007.

KEY CONFERENCE PRESENTATIONS (with graduate student)**

Vital, C., & **Giuliano, K.** Journey to Magnet 5! Enhancing Nursing Research in the Clinical Setting. October 31, 2024, New Orleans LA.

Blake, J., & **Giuliano, K.** Crucial Issues in Critical Care: Do We Trust Our IV Smart Pumps Too Much to Provide Accurate Flow? American Association of Critical Care Nurses Horizons Conference. April 5, 2024, Portland ME.

Giuliano, K., Laine, T., Pekarske, M., Luchetti, M., Beard, JW. 'Byndr™ communication protocol provides reliable wireless physiologic data flow. 2023 MIT IEEE Undergraduate Research Technology Conference, Boston MA, October 6, 2023.

Giuliano, K, Vital, C. (2023). Academic-Clinical Practice Partnerships: Engaging Clinical Nurses in Research and Healthcare Innovation. ANCC Magnet Research Conference, October 11, Chicago IL.

Giuliano, K., Baker, D. (2023). Preventing Non-Ventilator Hospital Acquired Pneumonia: What's New from SHEA/IDSA/APIC Practice Recommendations. AACN National Teaching Institute, May 24, 2023.

Blake, J.,** **Giuliano, K.** (2023). Peripheral Vascular Access Devices and IV Smart Pump Flow Rate Accuracy. Cleveland Clinic Research Conference, April 24, 2023.

Blake, J.,** **Giuliano, K.** (2023). COVID-19 Practice Assessment. IV Smart Pumps Placed Outside of Patient Rooms. Infusion Nurses Society National Conference, April 2, Boston MA.

Giuliano, K., Baker, D. (2023). Eastern Nursing Research Society. Incidence, Mortality and Cost of Non-ventilator Hospital-Acquired Pneumonia in Medicaid Beneficiaries, 2015-2019. March 23, Philadelphia PA.

Penoyer, D., **Giuliano, K,** Middleton, A (2022). Comparison of two IV Smart Pumps for safety and usability during actual clinical use. Society of Critical Care Medicine International Conference, San Juan, Puerto Rico, February 6-9.

Giuliano, K., Blake, J.** IV "Smart" Pumps: Evidence to Guide Practice and Patient Safety. AACN Horizons Conference. Portland ME. April 17, 2022.

Giuliano, KK., Blake, J.** How smart are IV smart pumps. American Medical-Surgical Nurses National Conference, October 2, 2021.

Blake, J.,** **Giuliano, K.** Flow Rate Accuracy of Secondary Medication: A Laboratory Study Comparing Four IV Smart Pump Models. Sigma Theta Tau Region 15 Conference. October 1, 2021.

Giuliano, KK., Blake, J.** Penoyer, D. The state of the science of IV medication administration safety using IV smart pumps. Eastern Nurses Research Society Symposium, March 2021.

Baker, D., **Giuliano, K.** A cluster randomized trial of NVHAP prevention. Association for Professionals in Infection Control (APIC). June, 2021.

Giuliano, K., Blake, J.** How smart are IV smart pumps? American Association of Critical Care Nurses National Teaching Institute, May 2021.

Giuliano, K., Radersdorf, T., Ackerman, M. Leading Healthcare Innovation: Opportunities for Critical Care Nurses. National Teaching Institute Mastery session, May 2021.

Giuliano, K. The implementation of NVHAP prevention in your hospital. American Association of Critical Care Nurses National Teaching Institute. May 5, 2020 (*COVID-19 cancellation*).

Giuliano, K., Baker, D. A cluster randomized trial of NVHAP prevention. ID week National Conference, October, 2020 (*COVID-19 virtual*).

Giuliano, K. How smart are IV smart pumps? American Association of Critical Care Nurses National Teaching Institute. May 5, 2020 (*COVID-19 cancellation*).

Giuliano, K. Penoyer, D., Middleton, A., Baker, D. Oral care as prevention for nonventilator hospital-acquired pneumonia: A four-unit cluster randomized trial. ID Week National Conference (Virtual), October 21, 2020.

- Giuliano, K.** Penoyer, D., Middleton, A., Baker, D. Oral care as prevention for nonventilator hospital-acquired pneumonia: A four-unit cluster randomized trial. CANS National Conference (Virtual), September 16, 2020.
- Giuliano, K.** How smart are IV Smart Pumps? AACN Horizons Conference. Portland ME. April 2, 2020 (*COVID-19 cancellation*).
- Giuliano, K.** The implementation of NVHAP prevention in your hospital. American Association of Critical Care Nurses National Teaching Institute. May 5, 2020 (*COVID-19 cancellation*).
- Giuliano, K.** Challenging precedent: Critical care nursing and medical product innovation. American Association of Critical Care Nurses National Teaching Institute. May 4, 2020 (*COVID-19 cancellation*).
- Giuliano, K.** How smart are IV smart pumps? American Association of Critical Care Nurses National Teaching Institute. May 5, 2020 (*COVID-19 cancellation*).
- Baker, D., **Giuliano, K.** The hidden epidemic of nonventilator hospital-acquired pneumonia. American Association of Critical Care Nurses National Teaching Institute. May 5, 2020 (*COVID-19 cancellation*).
- Campoe, K., **Giuliano, K.** Smart pumps & patient safety: A decade of evidence to guide practice, decision-making, and leadership. Association for Medical-Surgical Nursing National Conference. Orlando, FL. September 15, 2018.
- Giuliano, K.,** Baker, D., Quinn, B. Non-ventilator hospital acquired pneumonia and sepsis outcomes. AACN National Teaching Institute Preconference. Boston, MA. May 20, 2018.
- Giuliano, K.,** Baker, D., Quinn, B. Hidden in Plain Sight: Non-ventilator hospital acquired pneumonia. AONE National Conference. AONE National Conference. April 12, Indianapolis, IN. 2018.
- Giuliano, K,** Pozzar, R.** V Smart Pump Drug Library Use and Compliance: A Descriptive study in 44 Hospitals. ENRS Regional Conference. April 12, Newark NJ. 2018.
- Giuliano, K.** IV Smart Pump Drug Library Use and Compliance: A Descriptive study in 44 Hospitals. Magnet National Conference. October 12, Houston, TX. 2017.
- Giuliano, K.,** Baker, D., Quinn, B. Non-ventilator hospital acquired pneumonia: The hidden epidemic. AACN National Teaching Institute. May 22, Houston, TX. 2017.
- Giuliano, K,** Baker, D., Quinn, B. Non-ventilator hospital acquired pneumonia: The hidden epidemic. APIC. June 16, Portland, OR. 2017.
- Giuliano, K.** IV Smart Pump Drug Library Use and Compliance: A Descriptive study. AAMI IV infusion safety coalition. September 28, Chicago. 2016.
- Giuliano, K.** Usability issues with IV smart pumps. Smart Monitoring. August 12, Orlando. 2016.
- Giuliano, K.** IV Infusion Safety: The Impact of a Simplified User Interface. Human Factors Engineering and Usability Summit. February 10-11, San Francisco. 2016.
- Giuliano, K.** Non-ventilator hospital acquired pneumonia: The hidden epidemic. AACN National Teaching Institute. May 18, New Orleans, LA. 2016.
- Giuliano, K.** Non-ventilator hospital acquired pneumonia in the US: Incidence and Cost. ENRS. April 13-15, Warwick, RI. 2016.
- Giuliano, K.** Every nurse a leader: Clinically based nursing research. Cameron Conference Keynote Speaker. May 18. Boston, MA. 2016.
- Giuliano, K.** IV smart pumps: Human factors considerations. National IV Safety Coalition. May 13, Alexandria VA. 2015.
- Giuliano, K.** Use-errors with IV smart pumps. Human Factors and Ergonomic Society. April 10, Baltimore, MD. 2015.
- Giuliano, K.** Evidence-based practice for clinical decision-making. AACN, Portland, OR. 2009.
- Giuliano, K.** Measuring the impact of clinical information systems in critical care. AACN National Teaching Institute. Chicago, IL. 2008.
- Drew, B., Funk, M, **Giuliano, K.** ST segment analysis in the critically ill. AACN National Teaching Institute. Atlanta, GA. 2007.
- Drew, B., Funk, M., Hanneman, S., Moser, D., **Giuliano, K.** A decade plus: Contributions to science from AACN-Philips Research Grants. AACN National Teaching Institute. Atlanta, GA. 2007.

- Henneman, E., **Giuliano, K.** Surveillance monitoring in the critically ill. AACN National Teaching Institute. 2006.
- Ackerman, M., Richards, N., **Giuliano, K.** Critical care clinicians as experts in product development: How to get involved in the product development cycle. AACN National Teaching Institute. 2006.
- Giuliano, K.**, Johannessen, A., Leighton, K. Virtual Reality Clinical Simulation: Caring for a critically ill patient with sepsis. Medical Education Technologies Annual Conference on Medical Simulation. Tampa, FL. 2006.
- Giuliano, K.** Pet visitation in critical care: What the evidence shows. SCCM National Conference, San Francisco, CA. 2006.
- Giuliano, K.** Physiologic monitoring for critically ill patients at risk for sepsis. National Teaching Institute. New Orleans, LA. 2005.
- Henneman, B., **Giuliano, K.** Surveillance: The Key to Patient Safety. AACN National Teaching Institute. New Orleans, LA. 2005.
- Magee, T., Lee, S., **Giuliano, K.**, Munro, B. Research using large datasets-What are the issues. ENRS Annual Conference. Panel Symposium, New York City. 2005.
- Giuliano, K.** Physiologic monitoring for critically ill patients at risk for sepsis. ENRS Annual Conference. New York City. 2005.
- Giuliano, K.**, Ackerman, M., Richards, N., Tigner, V. State of the science of new generation SpO₂ measurement. AACN National Teaching Institute. Orlando, FL. 2004.
- Giuliano, K.**, Ackerman, M., Richards, N., Tigner, V. Partnering with industry for clinical research. AACN National Teaching Institute. Orlando, FL. 2004.
- Wood, R., **Giuliano, K.**, Liu, L. Patterns of mammography use related to age and functional limitations among older women. Eastern Nursing Research Society. Boston, MA. 2004.
- Giuliano, K.** Utilization-focused research reviews for use in clinical practice. AACN National Teaching Institute. ½ day Mastery Session. San Antonio, TX. 2003.
- Giuliano, K.** A review of the research on the new motion-tolerant SpO₂ devices. AACN National Teaching Institute. Atlanta, GA. 2002.
- Giuliano, K.** Continuous cardiac output measurement at varying head-of-bed heights. Eastern Nursing Research Society. College Station, PA. 2002.
- Giuliano, K.**, Bilodeau, ML. Continuous veno-venous hemodiafiltration. AACN National Teaching Institute. ½ Day Mastery Session, Anaheim, CA. Anaheim, CA. 2001.
- Giuliano, K.** Effects of degrees of backrest elevation on cardiac output using the CCO method. AACN National Teaching Institute. Orlando, FL. 2000.
- Giuliano, K.** Thermometry in the Critically Ill. AACN National Teaching Institute. New Orleans, LA. 1999.
- Giuliano, K.**, Pysnik, E, Tynan, C, Thomas, D, Manning, C. Paving the way for improvements in patient care: Expanded point-of-care testing in critical care. AACN National Teaching Institute, full-day pre-conference Workshop. New Orleans, LA. 1999.
- Stetler, C., **Giuliano, K.** The implementation of evidence-based nursing practice in a nursing service. Eastern Nursing Research Society. New York, NY. 1999.
- Stetler, C., Riley, J., **Giuliano, K.** Utilization-focused integrative reviews: An overview and identification of the issues. Eastern Nurses Research Society. New York, NY. 1999.
- Giuliano, K.** Research Utilization in the Intensive Care Unit. 2nd Annual Nursing Research Utilization Conference, University of Hartford. Hartford, CT. 1998.
- Giuliano, K.** Point-of-care testing in the ICU. AACN National Teaching Institute. Los Angeles, CA. 1998.
- Giuliano, K.** Point-of-care testing in the ICU. National Laboratory Conference, oral research presentation, Portland, ME. 1997.
- Stetler C, **Giuliano, K.** Guidelines based nursing practice. University of Iowa research utilization conference. Iowa City, Iowa. 1997.
- Stetler C, **Giuliano, K.** Integrated review in a nursing Service. University of Iowa research utilization conference. Iowa City, Iowa. 1997.

- Scott, S, **Giuliano, K.** The relationship of triple lumen catheter port site on central venous pressure readings in critically ill adults. AACN National Teaching Institute, oral research presentation, Orlando, FL. 1997.
- Giuliano, K.** Beyond the boundaries: Critical care nursing in the year 2000. AACN National Teaching Institute. Orlando, FL. 1997.
- Giuliano, K.** Issues and controversies in solid organ transplantation. AACN National Teaching Institute. Anaheim, CA. 1996.
- Ackerman, M., Hendricx, L., **Giuliano, K.** Critical care experience preferred: Beyond traditional boundaries. AACN National Teaching Institute. Anaheim, CA. 1996.
- Giuliano, K.** Professional Development Committee AACN National Teaching Institute, New Orleans, LA. 1995.
- Giuliano, K.** Overview of pancreas transplantation. SVAACN Annual Conference. Hershey, PA. 1995. **Invited.**
- Edwards, H., **Giuliano, K.**, Cohen, B. Valuing cultural diversity in nursing practice. National NNSA Conference. Charlottesville, VA. 1994.
- Sims, TW., **Giuliano, K.** A team approach for reviewing ethical cases. ANNA National Conference. Dallas, TX. 1994.
- Giuliano, K.** Pancreas transplantation: Critical care nursing in the 90's. AACN National Teaching Institute. Atlanta, GA. 1994.
- Giuliano, K.** Overview of transplantation: Issues and controversies. Feature speaker, ANNA National winter audio-conference series. 1994.
- Sims, TW., **Giuliano, K.** An innovative approach to transplant patient teaching. ANNA National Conference. Orlando, FL. 1993.
- Giuliano, K.**, Giuliano, A. Cardiovascular response to family visitation and nurse-physician collaborative rounds. AACN National Teaching Institute. New Orleans, LA. 1992.
- Kaye, W., Mancini, M., **Giuliano, K.**, Wynne, G. Early defibrillation in the hospital by staff nurses using AED's. National Emergency Cardiac Care Conference. Seattle, WA. 1992.
- Giuliano, K.** Case presentation in thrombolytic therapy. AACN National Teaching Institute. Boston, MA. 1991.
- Matrone, J., McKenna, M., **Giuliano, K.** Quality in the 1990's depends on nursing case management. Annual Cardiovascular Case Management Conference. Charleston, SC. 1991.
- Giuliano, K.**, Kaye, W. Do-Not-Resuscitate: What does that really mean? Selected to participate in the Society of Critical Care Medicine Landmark Consensus Conference on Fostering Humanism in Critical Care. Snowbird, Utah. 1990.
- Kaye, W., Dublin, H., Rallis, S., Linhares, K., **Giuliano, K.**, Wynne, G. A modified ACLS Course. Emergency Cardiac Care Update Conference. Albuquerque, NM. 1990.

Selected PRESENTATIONS (Poster since 2000, *with undergraduate, **with graduate)

- Giuliano, K., Richlen, W., Buscemi, C. (2024). Modified Sodium Hypochlorite Wound Cleansing for Chronic Wounds: Focused Clinical Literature Review. Symposium on Advanced Wound Care (SAWC), May 14, Orlando FL.
- Correll-Yoder, N., Pryor, L., **Giuliano, K.** (2023). Early Mobility: Improving Outcomes for ICU Patients & Staff. ANCC Magnet Conference, October 12, Chicago IL.
- Gabele, D., **Giuliano, KK.** (2022). Early and Progressive Mobility: Improving Quality While Reducing Cost. American Organization of Nurse Leaders (AONL), June 7.
- Mahuren, R., **Giuliano, K.** (2022). Data-based Program Management of System-Wide IV Smart Pump Integration. American Society of Healthcare Pharmacists (ASHP) Summer Meeting, June 12.
- Walker, R., Briere, C., **Giuliano, K.**, Iradukunda, F., Mwalingo, T.** (2022). Redefining Objectives for a Transformative Nursing PhD Curriculum Using An Equity-Centered Community Design Process. Sigma Theta Tau 33rd International, Edinberg Scotland, July 22.
- Giuliano, K., Baker, D. (2022). Patient Safety and Quality Care: Time to Focus on Nonventilator Hospital-Acquired Pneumonia. SHEA National Conference, April 12-14, Colorado Springs. ****selected to be highlighted during poster rounds***

- Penoyer, D., **Giuliano, K.**, Middleton, A., Blake, J.** Performance and Usability Evaluation of Three IV Medication Reconstitution Devices. ASHP National Midyear Clinical Conference. December 5-9, 2021.
- Blake, J.,** **Giuliano, K.** Flow Rate Accuracy of Secondary Medication: A Laboratory Study Comparing Four IV Smart Pump Models. Council for the Advancement of Nursing Science Advanced Methods National Conference. October 6, 2021 (virtual).
- Blake, J.,** **Giuliano, K.** Innovations in Emergency Care: Nursing Perspectives on Code Cart Operation. Arizona Nurses Association Regional Conference. October 2, 2021 (virtual)
- Giuliano, K.**, Penoyer, D., Middleton, A., Baker, D. IV Smart Pumps Non-ventilator hospital-acquired pneumonia prevention: A four-unit cluster randomized study. American Association of Critical Care Nurses National Teaching Institute. May 24-27, 2021 (Virtual).
- Giuliano, K.**, Penoyer, D. IV Smart Pumps: A Descriptive Comparison of Primary and Secondary Infusion Practices. American Association of Critical Care Nurses National Teaching Institute. May 24-27, 2021 (Virtual).
- Blake, J.,** Fiske, S.,** **Giuliano, K.** IV Smart Pump Usability: A Qualitative Analysis. American Association of Critical Care Nurses National Teaching Institute. May 24-27, 2021 (Virtual).
- Giuliano, K.** Innovations to Protect Healthcare Workers: Using Safe Patient Handling and Mobility for Decision-Making. Association of Safe Patient Handling Professionals National Conference. March 5, 2021 (virtual)
- Blake, J.,** Fiske, S.,** **Giuliano, K.** IV Smart Pump Usability: A Qualitative Analysis. Eastern Nursing Research Society. March 27, 2020, Boston MA. (*COVID-19 cancellation*)
- Giuliano, K.** Mobile Active Compression: A novel device for mobility, DVT prevention and hospital noise reduction. Eastern Nursing Research Society. March 27, 2020, Boston MA. (*COVID-19 cancellation*)
- Bannish, S**;; Anania, C**;; **Giuliano, K.** Emergency Department Utilization by Children of Somali Immigrants in Lewiston, Maine. Maine Medical Society, September 6, 2019, Bar Harbor, ME.
- Baker, D, Quinn, B, **Giuliano, K.** Non-ventilator hospital acquired pneumonia: Nurse sensitive outcome for the #1 hospital-acquired infection. ANA Quality & Innovation Conference, April 24, 2019, Orlando FL.
- Giuliano, K.** The use of a novel device to reduce downstream occlusion alarms on IV smart pumps. Eastern Nursing Research Society. April 3, 2019, Providence RI.
- Giuliano, K**, Pozzar, R,** Hatch, C. Thrombophylaxis following hospitalization for joint replacement surgery. Massachusetts General Hospital Nursing Research Day, May 8, 2019, Boston MA.
- Giuliano, K**, Pozzar, R,** Hanley, C.* Thrombophylaxis following hospitalization for joint replacement surgery. Northeastern University RISE conference, April 4, 2019.
- Giuliano, K**, Hornstein, P.* An implementation science approach to reduce non-ventilator hospital-acquired pneumonia. Northeastern University RISE conference, April 4, 2019.
- Giuliano, K.** The use of a novel device to reduce downstream occlusion alarms on IV smart pumps. American Association of Critical Care Nurses Horizons Conference. October 9, 2018, Manchester NH.
- Giuliano, K**, Salinas, C. Surgical Smoke evacuation: A survey of OR nurses. Association of Operating Room Nurses National Conference. March 24, 2018, New Orleans LA.
- Giuliano, K.** How “Smart” are IV Smart Pumps? Human Factors and Ergonomic Society National Conference, March 27, 2018, Boston MA.
- Giuliano, K.** How “Smart” are IV Smart Pumps? National Patient Safety Foundation National Conference, May 24, 2018, Boston MA.
- Giuliano, K**, Quinn, B., Baker, D. Non-ventilator hospital acquired pneumonia versus pneumonia as an admission diagnosis in patients who develop sepsis: incidence and cost. Massachusetts General Hospital, May 10, 2018. Boston, MA.
- Giuliano, K**, Quinn, B., Baker, D. Non-ventilator hospital acquired pneumonia versus pneumonia as an admission diagnosis in patients who develop sepsis: incidence and cost. APIC, Institute for Healthcare Improvement (IHI) National Conference. December 11, 2017, Orlando Florida.
- Giuliano, K**, Quinn, B., Baker, D. Non-ventilator hospital acquired pneumonia versus pneumonia as an admission diagnosis in patients who develop sepsis: incidence and cost. APIC, June 16, 2017, Portland OR.

- Campos, K, **Giuliano, K** & Wagner, R. Tell Me What You Think About Interruptions: Medical-Surgical Nurses' Perceptions of Interruption during PCA Administration. American Medical-Surgical Nurses Association. October 1, 2016, Washington, D.C.
- Giuliano, K**, Quinn, B., Baker, D. Non-ventilator hospital acquired pneumonia: The hidden epidemic. AACN National Teaching Institute. May 18, 2016, New Orleans, LA.
- Giuliano, K**. IV Smart Pumps: The impact of a simplified user-interface on clinical use. AACN National Teaching Institute. May 18, 2016, New Orleans, LA.
- Giuliano, K.**, Funk, M., & Ruppel, H. Patient safety and IV line mix-up: Strategies to reduce IV medication error. ENRS. April 13-15, 2016, Warwick, RI.
- Giuliano, K.**, & Hendricks, J. Unintentional hypothermia: A survey of perioperative nursing knowledge. AORN conference, April 2-7, 2016, Anaheim, CA.
- Giuliano, K**, Quinn, B., Baker, D. Non-ventilator hospital acquired pneumonia in the US: Incidence and Cost. AACN Horizons. April 5-7, 2016, Warwick, RI.
- Giuliano, K**. IV Infusion Safety: The Impact of a Simplified User Interface on Programming Times for IV Smart Pumps. ENRS. April 17, 2015, Washington, DC.
- Giuliano, KK**, & Gray, M. Incontinence Associated Dermatitis and Immobility as Pressure Ulcer Risk Factors: A Multisite Epidemiologic Study. Canadian Association of Critical Care Nurses, 2015, Toronto, CA.
- Giuliano, KK**, Giuliano, AJ. Physiologic response to family visitation and nurse-physician collaborative rounds. AACN National Teaching Institute, 2008, Chicago, IL.
- Giuliano, KK**, Raber, G, Case, J, Drew, T, Donahue, J, Hillsgrove, D, Manning, S. Optimization of Blood Pressure Management with Vasoactive Medications using Horizon Trends. World Congress of Anesthesia, 2008, Capetown, South Africa.
- Giuliano, KK**, Cummings, E, Tivig, G, Staul, L, Lecardo, M. Using clinical decision support to improve the care of patients with sepsis. World Congress of Anesthesia, 2008, Capetown, South Africa.
- Giuliano, KK**, Giuliano, AJ. Blood pressure response to family visitation and nurse-physician collaborative rounds. Society of Critical Care Medicine, 2008, Honolulu, HI.
- Giuliano, KK**. Cummings, E, Tivig, G, Staul, L, Lecardo, M. Using clinical decision support to improve the care of patients with sepsis. International Sepsis Forum, 2007, Paris, France.
- Giuliano, KK**. Using clinical decision support to improve the care of patients with sepsis. European Society of Critical Care Medicine, 2007, Berlin, Germany.
- Giuliano, KK**. The identification and use of common physiologic monitoring parameters in the care of critically ill patients at risk for sepsis. International Sepsis Forum, 2007, Brussels, Belgium.
- Giuliano, KK**. Clinical simulation: Caring for a patient with sepsis. European Society of Critical Care Medicine, 2006, Barcelona, Spain.
- Giuliano, KK**, Johannessen, A, Leighton, K. Virtual reality clinical simulation: Caring for a critically ill patient with sepsis. Society for Medical Simulation, 2006, San Diego, CA.
- Giuliano, KK**. Physiologic monitoring for critically ill patients at risk for sepsis. European Society of Intensive Care Medicine, 2005, Amsterdam, The Netherlands.
- Giuliano, KK**. Physiologic monitoring for critically ill patients at risk for sepsis. Sigma Theta Tau International, 2005, Indianapolis, IN.
- Giuliano, KK**. Physiologic monitoring for critically ill patients at risk for sepsis. Society of Critical Care Medicine National Conference, 2005, Phoenix, AZ.
- Giuliano, KK**. Physiologic monitoring for critically ill patients at risk for sepsis. Eastern Nursing Research Society National Conference, 2005, New York, NY.
- Wood, R, **Giuliano, KK**, Liu, L. Patterns of mammography use related to age and functional limitations among older women. Eastern Nurses Research Society, 2004, Boston, MA.
- Ackerman, M, Graves, B, **Giuliano, KK**. A comparison of the accuracy of the Phillips Fast and Masimo Set pulse oximeters in patients following cardiac surgery. SCCM National Conference, 2004, Orlando, FL.
- Appavu, S, **Giuliano, KK**, Duller, B. How reliable are the new generation pulse oximeters in the detection of hypoxemia in the SICU. SCCM National Conference, 2004, Orlando, FL.

- Richards, N, **Giuliano, KK**, Jones, P., Krentz, K, Basinger, S. A Comparison of Three New Generation SpO₂ Devices During Ambulation after Open Heart Surgery. AACN National Teaching Institute, 2004, Orlando, FL.
- Ackerman, M. Graves B, **Giuliano, K.**, Athilingam, P. Yeager, C. Comparison of oxygen saturation values between two new generation pulse oximeters in patients following cardiac surgery. AACN National Teaching Institute, 2004, Orlando, FL.
- Wood, R, **Giuliano, KK**. An evaluation of the use of the MMSE as a screening tool for dementia in community-dwelling, low-education, black and white elderly women. Eastern Nurses Research Society, 2003, New Haven, CT.
- Giuliano, KK**, Jahrsdoerfer, M, Stevens, D. The clinical usefulness of the EASI 12 Lead ECG monitoring system. Eastern Nurses Research Society, 2003, New Haven, CT.
- Giuliano, KK**, Brown, V, Olson, M. Effects of degrees of backrest elevation on cardiac output using the CCO method. SCCM National Conference, 2000, Orlando, FL.
- Giuliano, KK**, Brown, V, Olson, M. Effects of degrees of backrest elevation on cardiac output using the CCO method. AACN National Teaching Institute, 2000, Orlando, FL.
- Giuliano, KK**, Perkins, S. Point-of-Care validation using the HP/iSTAT system in critical care. AACN National Teaching Institute, 2000, Orlando, FL.
- Giuliano, K**, Scott, S, Elliot, S, Giuliano, A. Temperature measurement in critically ill orally intubated adults: A comparison of PA core, oral and tympanic methods. Eastern Nursing Research Society, 1999, New York, NY.

RESEARCH

Active

- 2024 **Consultant.** IV Smart Pumps During Actual Clinical Use: A Descriptive Study of multiple channel IV smart pumps during actual clinical use. ICU Medical, \$150,000.
- 2024 **Principal Investigator.** The Use of Eye-tracking Technology to Measure Cognitive-Behavioral Processes During Real-World IV Medication Administration. Interdisciplinary UMass Faculty Grant, \$50,000. Submitted April 6, 2023.
- 2022-2025 **Co-investigator.** Reducing Preventable Medication Errors through Minimizing Work Distractions: Evaluating Smart Pump Data Usage in Health-Systems across the Midwest. FDA BAA number: 21-00123. \$607,510.
- 2021-2025 **Consultant.** The NEVER Trial (**N**ursing **E**xcellence to a**V**oid **p**n**E**umonia **R**andomized Trial). CDC Epicenter V: Harvard Pilgrim Health Care Institute Center for Excellence in HAI Surveillance and Prevention. \$1.56M

In Review

- 2023 **Co-Investigator.** Rechargeable Antimicrobial Textiles to Reduce Occupational Risk of Healthcare Personnel. NIOSH R01. \$1.2M. Resubmitted for November 5, 2023. Scored and awaiting a funding decision.

Submitted-Not Awarded

- 2023 **Co-Investigator.** Rechargeable Antimicrobial Textiles to Reduce Occupational Risk of Healthcare Personnel. NIOSH R01. \$1.2M. Submitted for February 5, 2023.
- 2023 **Principal Investigator.** Safe Patient Handling and Patient Mobility in Real-World Acute Care Practice: Optimizing the Safety Needs of Both Patients and Nurses. National Safety Council MSD Solutions Lab, \$75K. Submitted March 31, 2023.
- 2022 **Consultant.** A Usability Study for Novel SecureMove-TLC Device. AAMI Foundation, \$80K.
- 2021 **Principal Investigator.** A Comparison of a Novel Line Management Device to Standard of Care During Actual Clinical Use. AACN Research Impact Grant. \$50K, Submitted November 1, 2021.
- 2021 **Consultant.** Portable Bedside Sink. NIH SBIR Phase 1 Award. Submitted September 5, 2021.

- 2021 **Principal Investigator.** The American Nurses Foundation Reimaging Nursing Initiative: Technology-enabled Nursing Practice. \$1.5M. Submitted October 25, 2021. <https://www.nursingworld.org/foundation/programs/rninitiative/>
- 2021 **Co-investigator.** IV smart pumps: The impact of venous access device use on flow rate accuracy. AHRQ Health Services Research Dissertation Program (R36): submission May 1, 2021. <https://grants.nih.gov/grants/guide/pa-files/pa-18-765.html>
- 2021 **Principal Investigator.** Improving Patient Safety: Intravenous Medication Administration Flow Rate Accuracy using IV Smart Pumps. Anesthesia Patient Safety Foundation. \$150K.
- 2021 **Co-Investigator.** Broadening Participation in STEM Fields through an Integrated Innovation & Entrepreneurship Certificate Program (INNOVATE). NSF Limited Submission. \$1.5M. Submission date: April 7, 2021.
- 2021 **Principal Investigator.** Nurse-Engineer Training Fellowship. Medline, Inc. \$253,000
- 2021 **Principal Investigator.** The Use of Eye-Tracking to Measure Cognitive Load during IV Smart Pump Programming. JSMF Foundation. \$250,000.
- 2021 **Principal Investigator.** IV smart pump flow rate accuracy using clinically-relevant system configurations. Burroughs Wellcome Foundation, \$500,000. Submission date: February 12, 2021. <https://www.bwfund.org/funding-opportunities/regulatory-science/innovation-in-regulatory-science/>
- 2021 **Principal Investigator.** Interdisciplinary Collaboration to Enhance the Prevention of Non-Ventilator Hospital-Acquired Pneumonia. Heilbrunn Nurse Scholar, \$25,000.
- 2020 **Co-investigator and Innovation Ecosystem Core Director.** Technology Research for User Safety and Trust (TRUST). NSF Engineering Research Center (ERC) Pre-proposal, submission October 2020. Lead University: University of Massachusetts Amherst; Collaborators: MIT, Texas A&M, Indiana University, University of Michigan, San Jose University.
- 2020 **Principal Investigator** Patient safety and intravenous multiple infusions: Proof of concept of a prototype IV line organizer. NIH SBIR Phase 1 Award. Submitted January 5, 2020.
- 2019 **Consultant.** SMART Diabetic Shoe to Improve Tissue Perfusion. NIH SBIR Phase 1 Award, \$410,108. Submitted September 5, 2019.

Completed

- 2023-2024 **Co-investigator.** Development and Design of a Novel IV Infusion Device. UMass IALS-Manning Grant. \$100,000.
- 2022-2024 **Co-investigator.** IV Smart Pump Flow Rate Accuracy in the Real World. Baystate Health Learning Health System (LHS) Award. \$30K.
- 2021-2024 **Principal Investigator.** The Role of Enhanced Oral Care in Non-Ventilator Hospital-Acquired Pneumonia Prevention. Delta Dental Foundation of Illinois. \$750,000.
- 2022-2023 **Co-Investigator.** The Use of Eye-tracking Technology to Measure Cognitive-Behavioral Processes During IV Medication Administration using IV Smart Pumps. Beta Zeta Chapter Sigma Theta Tau Graduate Mentoring Grant. \$1500.
- 2020-2023 **Consultant.** Exploration of the oral microbiome in non-ventilated hospitalized patients. University of Central Florida, F31 (Kimberly Rathbun), National Institutes of Health Award Number NR019518.
- 2021-2022 **Co-Investigator.** Flow Rate Accuracy During Secondary Medication Administration: A Laboratory Study Comparing Four Intravenous Smart Pump Models. IALS Midgrant, \$18,000.
- 2020-2022 **Principal Investigator and UManage Center Research Fellow.** Lower limb mechanical compression device usability: A comparison of two devices on sleep quality, UManage Center (P20) pilot research grant, University of Massachusetts, Amherst, \$79,750. National Institute of Nursing Research of the National Institutes of Health under Award Number P20NR016599.

- 2020-21 **Principal Investigator.** IV Smart Pumps During Actual Clinical Use: A Descriptive Study of Primary and Secondary Infusion Practices using the Baxter/Sigma IV Smart Pump. ICU Medical, \$52,000.
- 2020-21 **Co-Investigator.** Large Volume IV Smart Pumps: A Comparison of the BD/Alaris and the Ivenix Infusion System During Actual Clinical Use, Orlando Regional Medical Center. Ivenix, \$90,000.
- 2020-21 **Principal Investigator.** Flow Accuracy of IV Infusion Pumps Outside Patient Rooms During COVID-19. Institute for Applied Life Sciences Midgrant. \$17,600
- 2020-21 **Co-Investigator.** COVID-19: Flow rate acute with remote IV infusion. Beta Zeta Chapter Sigma Theta Tau Graduate Mentoring Grant. \$2179.
- 2020-21 **Co-investigator.** National survey of nonventilator hospital-acquired pneumonia prevention. Medline, \$46,500.
- 2020 **Principal Investigator.** Usability testing: RF Health MAC System. RF Health, \$20,000.
- 2019-2024 **Principal Investigator** (subaward). Mobile technology to reduce risk of DVT and increase patient compliance, NIH SBIR Phase 2. National Heart, Lung and Blood Institute of the National Institutes of Health under Award Number R44HL132624. \$1.8M.
- 2019 **Principal Investigator.** A pre-post comparison of clinical use between BD/Alaris, and ICU Medical/Plum 360 large-volume IV smart pumps, Orlando Regional Medical Center and Parkview Health. ICU Medical, \$60,000.
- 2019 **Principal Investigator,** Patient safety and intravenous multiple infusions: Pilot testing of a prototype IV line organizer. Northeastern University, \$5,000.
- 2019 **Consultant,** Doppler ultrasound blood Flow analysis while using the RF Mobile Active Compression (MAC) device among varied leg sizes, Recovery Force, \$5000.
- 2018 **Principal Investigator.** Comprehensive oral care for the prevention of non-ventilator hospital-acquired pneumonia, Orlando Regional Medical Center. Medline, \$180,000 (Direct funds); \$120,000 (Product Support).
- 2018 **Principal Investigator.** A comparison of two commercially available endotracheal tube holders on usability and device-related facial pressure injury, Orlando Regional Medical Center. Dale Medical, \$40,000
- 2018 **Principal Investigator,** OnCore RF2400 Back Device Qualitative Interview Study, Recovery Force, \$35,000.
- 2018 **Principal Investigator,** A Qualtrics survey of at-home compliance with post-discharge instructions after total hip and knee replacement. Recovery Force, \$4000.
- 2018 **Principal Investigator,** OnCore RF2400 Back Device Validation Study, Recovery Force, \$35,000.
- 2018 **Principal Investigator,** OnCore RF2400 Back Device Usability Study, Recovery Force, \$35,000.
- 2018 **Consultant,** Wearable technology to reduce risk of DVT and increase patient compliance. NIH SBIR Phase 1 Award. National Heart, Lung and Blood Institute of the National Institutes of Health under Award Number R44HL132624, \$250,000.
- 2017 **Principal Investigator,** IV Smart Pump Workflow Mapping: A Comparison of Four Devices, Ivenix, \$50,000.
- 2015 **Co-investigator,** Qualitative responses to IV-line setup: A pilot study, Yale University, \$1,500.
- 2014 **Principal Investigator,** Comparison of programming times across 3 different Smart IV pump platforms, Ivenix \$60,000.
- 2004 **Principal Investigator,** Continuous monitoring predictors of sepsis in critically ill patients, AACN Clinical Inquiry Grant, \$2,300.
- 1998 **Principal Investigator,** Comparison of PA, tympanic and oral temperatures in critically ill patients, Welch-Allyn, \$10,000.
- 1995-97 **Principal Investigator,** Comparison of PA, tympanic and oral temperatures in critically ill orally-intubated adults, Welch-Allyn, \$10,000.

- 1995-96 **Principal Investigator**, Comparison of CVP readings between three ports of a triple lumen catheter, Arrow Medical, \$5,000, and an AACN Clinical Inquiry Grant, \$1000.
- 1992 **Co-investigator**, Infection related to the use of electronic thermometry, Tempadot, \$3,000.
- 1991 **Co-investigator**, Early defibrillation in the hospital by staff nurses using automated external defibrillators, Laerdal Corporation, \$26,000.

RESEARCH (Funded during industry employment)

Completed

- 2016 **Principal Investigator**, Using the HCUP database to determine the national incidence, cost, and mortality of non-ventilator hospital acquired pneumonia, Sage Medical, \$5,000.
- 2015 **Project Director**, Incidence of non-ventilator hospital acquired pneumonia in 21 U.S. hospitals, Sage Medical, \$500,000.
- 2012 **Project Director**, A controlled trial of electronic automated advisory vital signs monitoring in general hospital wards, Philips Healthcare, \$500,000.
- 2009 **Project Director**, Understanding the risk factors associated with alarm generation in critically ill children, Philips Healthcare, \$120,000.
- 2008 **Project Director**, The value of automated QT monitoring in progressive and intensive care units, Philips Healthcare, \$150,000.
- 2007 **Principal Investigator**, The impact of Protocol Watch on compliance with the Surviving Sepsis Campaign, Philips Healthcare, \$50,000.
- 2007 **Project Director**, Association of the availability of ST Map with the quality of care for cardiac patients, Philips Healthcare, \$50,000.
- 2006 **Principal Investigator**, The incidence of ST segment elevation in critically ill patients on vasoactive medications, Philips Healthcare, \$25,000.
- 2005 **Principal Investigator**, The impact of clinical advisories on compliance with ICU core measures, Philips Healthcare, \$25,000.
- 2005 **Principal Investigator**, Advanced event surveillance for critically ill patients with sepsis, Philips Healthcare, \$30,000.
- 2004 **Principal Investigator**, The use of SpO2 for rapid weaning after open-heart surgery, Philips Healthcare, \$10,000.
- 2003 **Project Director**, Outcomes related to the use of the Jupiter Clinical Information System in the MICU and the PICU, Philips Healthcare, \$100,000.
- 2003 **Principal Investigator**, A comparison of three new Generation SpO2 devices during ambulation after open-heart surgery, Philips Healthcare, \$6,000.
- 2003 **Project Director**, A comparison of the Philips FAST and Masimo SET SpO2 for clinical use in the NICU, Philips Healthcare, \$5,000.
- 2003 **Principal Investigator**, Pulse oximetry measurement in critically ill patients with low perfusion, Philips Healthcare, \$5,000.
- 2003 **Principal Investigator**, A comparison of the accuracy of the Phillips Fast and Masimo Set pulse oximeters in patients following cardiac surgery, Philips Healthcare, \$8,000.
- 2002 **Principal Investigator**, The clinical usefulness of the EASI 12 lead ECG system, Philips Healthcare, \$5,000.
- 2002 **Project Director**, How reliable are the new generation pulse oximeters in the detection of hypoxemia in the SICU, Philips Healthcare, \$25,000.
- 2002 **Co-Principal Investigator**, Patterns of mammography use related to age and functional limitations among older women, Boston College faculty research incentive grant, \$30,000.
- 1999 **Principal Investigator**, Comparison of cardiac output measurements at variations in head-of-bed heights, Baxter Healthcare, \$5,000.
- 1998 **Principal Investigator**, The use of expanded point-of-care testing in the ICU, Hewlett-Packard Medical, \$10,000.

- 1997 **Principal Investigator**, Beta testing of the Hewlett-Packard Blood Analysis Module, Hewlett-Packard Medical, \$7,000.
- 1990 **Principal Investigator**, The physiologic effects of family visitation on the heart rate, blood pressure, and cardiac rhythm of cardiac versus non-cardiac patients

TEACHING and ADVISING

University of Massachusetts Amherst Coursework

- 2023 (fall) NSG 420 (3 credits). Introduction to Research (UG, 64 students).
- 2022 (spring) NSG 710 (3 credits). Quantitative Methods (Doctoral, 4 students).
- 2021 (fall) NSG 420 (3 credits). Introduction to Research (UG, 61 students).
- 2020 (fall) NSG 420H (1 credit). Introduction to Research Honors (UG, 15 students).
- 2021 (spring) NSG 710 (3 credits). Quantitative Methods (Doctoral, 9 students).
- 2020 (fall) NSG 420 (3 credits). Introduction to Research (UG, 70 students).
- 2020 (fall) NSG 420H (1 credit). Introduction to Research Honors (UG, 12 students).
- 2020 (spring) NSG 420 (3 credits). Introduction to Research (UG, 64 students).

Northeastern University Coursework

- 2019 (spring) NRSNG 7712 (3 credits). Quantitative Research Methods (PhD, 7 students)
- 2018 (fall) ENTR 4501 (3 credits). Technology Ventures Capstone. Mentored 3 UG students to complete a business plan for a Human Factors Usability Testing business (Jonathan Norcott: Computer Science/Business Admin; Madison Mailey: Business Admin/Entrepreneurship; Khalifa Algozaibi: Business Admin/Entrepreneurship). Course instructor: Kevin Scanlon.
- 2018 (fall) NRSNG5976 (3 credits). Business Fundamentals for Healthcare Innovation (Graduate Directed Study). Lindsay Crossley.
- 2018 (fall) NRSNG 5120 (3 credits). Healthcare Statistics (Undergraduate, 22 students)
- 2018 (sum) NRSNG 5976 (3 credits). Quantitative Healthcare Research (Undergraduate Directed Study). Alexandria Bosenberg
- 2018 (spring) NRSNG 5120 (3 credits). Healthcare Statistics (Undergraduate, 23 students)
- 2017 (fall) NRSNG 5120 (3 credits). Healthcare Statistics (Undergraduate, 26 students)

Endicott College

- 2012-2014 HST 489 Senior Thesis (Undergraduate)

Supervision/Advising of Undergraduate Students

- 2023-2025 University of Massachusetts Amherst, Primary Honors Thesis Advisor, Katie Fortnam
- 2022-2024 University of Massachusetts Amherst, Primary Honors Thesis Advisor, Juliana Ochacher
- 2021-2023 University of Massachusetts Amherst, Primary Honors Thesis Advisor, Olivia Teh
- 2020-2022 University of Massachusetts Amherst, Primary Honors Thesis Advisor, Samvit Pisal
- 2020-2022 University of Massachusetts Amherst, Primary Honors Thesis Advisor, Clarissa Norton
- 2020-2022 University of Massachusetts Amherst, Primary Honors Thesis Advisor, Gianna Martin
- 2020-2022 University of Massachusetts Amherst, Secondary Honors Thesis Advisor, Gianna Martin
- 2019-2021 University of Massachusetts Amherst, Primary Honors Thesis Advisor, Erin Murphy
- 2017-2019 Northeastern University Student Nurses Association (NUSNA), Faculty Co-Advisor
- 2017-2019 UG Research Assistant: Charina Hanley, Northeastern University

Independent Study Direction

- 2022 Emily Lugdon, RN (Doctoral student), Research Practicum. University of Massachusetts.
- 2021 Kristyn Gordon, RN (Doctoral Student). Human Factors, University of Massachusetts Amherst
- 2020 Jeannine Blake, RN (Doctoral Student). Human Factors, University of Massachusetts Amherst
- 2015 John Kenney, Business Case Development, Yale University
- 2015 Heather Johnson, RN, Doctoral Student, Quantitative Analysis, Endicott College
- 2012 Erin Langille, Master of Public Health Student, Thesis, University of New Hampshire

2010	Alexis Whittaker, Master Nurse Practitioner Student, Clinical Trials
2011-12	Zachary Orzowski, Marketing Intern, Northeastern University
2009	Caroline Constantino, Marketing Independent Study, Stonehill College
2008	Mary Jahrsdoerfer, RN, Doctoral Student, Quantitative Analysis, University of Massachusetts, Amherst
2007	Christy Harris, Finance Independent Study, Drexel University
2007	Christy Harris, Clinical Trial Intern, Drexel University

Student Supervision/Advising of Graduate Students

2023-present	PhD Advisor: Brenda Nyarko
2023-present	PhD Advisor: Lindsey Dubois
2021-2023	PhD Advisor: Ellen Benjamin, MSN, RN, University of Massachusetts CON
2021-2023	Graduate Research Assistant: Ellen Benjamin, MSN, RN, University of Massachusetts, IALS/EMCON
2022-2023	IALS MBA Advisor: Market Analysis of IV Pole Market. Joan Perreault, Syed Mohammed Jasim Akhtar, Sterling Cohen, University of Massachusetts Isenberg School of Business
2021-2022	IALS MBA Internship Director: Nicole Anderson, RN, University of Massachusetts Isenberg School of Business
2021-2023	PhD Advisor: MaryAnn Hogan, MSN, RN, University of Massachusetts CON
2021-present	PhD Advisor: Emily Lugdon, DNP, RN, University of Massachusetts CON
2021-2022	PhD Advisor: Kristyn Gordon, RN, University of Massachusetts CON
2020-present	PhD Advisor: Lindsey Roddy MSN, RN, University of Wisconsin-Madison CON
2019-present	PhD Advisor: Jeannine Condon, MS, RN, University of Massachusetts CON
2019-present	Graduate Research Assistant: Jeannine Condon, MS, RN, University of Massachusetts IALS/CON
2017-2019	Graduate Research Assistant: Rachel Pozzar, PhD, RN, Northeastern University CON

Student Supervision/Advising of Undergraduate Students

2022-2023	Senior Engineering Capstone. Henry Hiles, University of Massachusetts Amherst
2021-2022	Senior Engineering Capstone. Cassidy Teng, Luciano Alvarez-Sanchez, Joseph Stapleton, Michelle Tran, Danny Pena. University of Massachusetts Amherst.
2020-2021	Senior Engineering Capstone. Samvit Pisal, Ryan Murray, Andrew Hamel, Chloe Smith, Andrew Harrington, Sarah Kim. University of Massachusetts Amherst

Dissertation Committees

2021-2023	Ellen Benjamin, MS, RN. Chair, University of Massachusetts, Amherst MA
2021-2022	MaryAnn Hogan, MS, RN. Committee Member, University of Massachusetts, Amherst MA
2021-present	Emily Lugdon, DNP, RN. Chair, University of Massachusetts, Amherst MA
2019-2022	Jeannine Blake, RN, MS. Chair, University of Massachusetts, Amherst MA
2020-present	Lindsey Roddy, RN. Committee Member, University of Wisconsin, Milwaukee MN
2019-2021	Christopher Gill, RN, MS, Committee Member, Northeastern University, Boston MA.
2012-2015	Kristi Campoe, RN, MSN, Outside Committee Member, Nova Southeastern University, Tampa FL.
2005-2007	Annie Lewis O'Connor, Outside Committee Member, Boston College, Boston MA.

Research Practica

2019 (summer)	NRS 7110 (2 credits) Evidence-Based Practice Research Application, Northeastern University NP Students: Maria Albrecht, Abby Clinton, Claire Dillio, Morgan Doherty, Holly Foster, Brandon Pankiewicz.
2019 (spring)	NRS 7110 (2 credits) Evidence-Based Practice Research Application, Northeastern University CRNA Students: Jennifer Vaughn, Laura Budemeyer, Caroline Smith, Joy Wise, Emily Kucher, Julianne McGowan.

- 2019 (spring) NRS 6520 Nursing Leadership Role Practicum, 2 credits, Northeastern University. Lindsay Crossley.
- 2018 (sum) NRS 7110 (2 credits) Evidence-Based Practice Research Application, Northeastern University NP Students: Amelia Hansen, Phillip Tyler Wallace.
- 2018 (spring) NRS 7110 (2 credits) Evidence-Based Practice Research Application, Northeastern University NP Students: Kathleen Peck, Melissa Wynne, Kate Parrot, Jeffrey Keating, Caroline Swet.
- 2017 (fall) NRS 7110 (2 credits) Evidence-Based Practice Research Application, Northeastern University NP Student: Meghan Harrington.
- 2015-16 Halley Ruppel, RN, Doctoral Student, Research Assistant, Yale University.
- 2016 Katherine McCuster, RN, Masters' Student, Research Assistant, Yale University.

SELECTED SERVICE TO UNIVERSITY OF MASSACHUSETTS AMHERST

College of Engineering

Search Committee, 2021-2022

Healthcare Engineering Tenure Track Faculty Hire

College of Nursing/Institute for Applied Life Sciences

Search Committee Chair, 2021-present

Joint CON/IALS Tenure Track Faculty Hire

Institute for Applied Life Sciences

IALS Postdoctoral Fellowship Reviewer, 2023

Grant Proposal Review Panel, IALS/Manning Seed Fund Program, 2021

IALS Faculty Seminar Series, "State of the Science: IV Infusion Device Safety", 2021

College of Nursing

Personnel Committee, 2023-present

Diversity and Social Justice Chair, 2021-2022

PhD Committee, 2020-present

Comprehensive Exam Sub-Committee Chair, 2021-2022

Comprehensive Exam Sub-Committee Member 2021-present

UG Curriculum Committee, 2019-2020

University

New Provost Selection Committee, 2023-present

Advisory Board, Institute of Diversity Sciences, 2022-present

Grant Reviewer, Research & Engagement, 2020-2022

Committee on Innovation & Entrepreneurship, 2020-present

Center & Institute Review Committee, 2019-2022

UMass Center for Clinical and Translational Science (UMCCTS)

Pilot Projects Program (PPP) Full Proposal Review, 2022

Chancellor

Chancellor's committee on Innovation & Entrepreneurship, 2019-2020

SELECTED SERVICE TO NORTHEASTERN UNIVERSITY

School of Nursing

PhD Comprehensive Exam Committee, Christopher Gill, 2019-2020

Elected to search committee for new SON Dean, 2018

Mass Question 1 Yes/No Panel Moderator. Panel sponsored by NUSNA, October 11, 2018

PhD Program Advisory Committee, 2018

Research and Scholarship Committee, 2017-2018
 PhD Committee, 2017-present
 Northeastern University Student Nurses Association (NUSNA), Co-advisor, 2017-present
 Advisory Committee: Nurse Innovation and Entrepreneurship, 2017-2018
 Participate in doctoral student admission interviews, 2018-present
 PhD Comprehensive Exam Committee, Richard Hebert, 2018

Bouvé College of Health Sciences

Tier 1 Northeastern University Grant Proposal Reviewer, 2019
 Committee member, Biostatistics Core (ad hoc), 2017-2019

University

UG Residential Life Programming: Turkey Meatballs and t-tests: What do they have in common? The benefits of engaging in clinical research at the undergraduate level, February 21 (International Village Dinner Program), 2019
 President's Convocation Platform Party to welcome new students, 2018
 UG Residential Life Programming: Understanding the Product Development Cycle, March 12, 2018
 UG Residential Life Programming: College Diabetes Network Student Panel, March 21, 2018

University-Diversity

Office of Institutional Diversity and Inclusion, recruiting for diversity on behalf of the Northeastern University, lead recruiting booth at the ABRCMS (Annual Biomedical Research Conference for Minority Students, November 14-17, Indianapolis, IN, 2018
 Office of Institutional Diversity and Inclusion Workshop: Unconscious Bias, 2018
 STRIDE I Workshop: Understanding Implicit Bias in Faculty Searches, 2019

EXTERNAL LETTER WRITER FOR TENURE/PROMOTION

Candidate promotion from Associate to Full Professor, Arizona State University, 2022

SELECTED PROFESSIONAL SERVICE IN THE UNITED STATES

Invited American Nurses Association Nursing Innovation Award Reviewer, 2021, 2022, 2023, 2024
Invited American Association of Critical Care Nurses Distinguished Research Award Selection Committee, 2022, 2023, 2024
Invited Johnson & Johnson Quickfire Innovation Challenge: Nurses Innovate QuickFire Challenge on Mental Health, Spring 2021
Selected Patient Centered Outcomes Research Institute (PCORI) Clinical Effectiveness Decision Science (CEDs) Advisory Board, 2020-23
Invited American Nurses Association Innovation Award Reviewer, 2020
Invited Patient Centered Outcomes Research Institute (PCORI) Ambassador. Ambassadors engage healthcare stakeholders in strengthening the PCOR community while increasing the reach and influence of PCORI-funded research. 2020-present
Invited Johnson & Johnson Quickfire Innovation Challenge: Nurses Innovate QuickFire Challenge on Mental Health, Spring 2021
Invited Johnson & Johnson Quickfire Innovation Challenge, Oncology: Review Panel for Finalist Selection, Spring 2020
Invited Johnson & Johnson Quickfire Innovation Challenge, Maternal-Child: Finalist Judge, February 13, 2020
 Council on the Advancement of Nursing Science (CANS). Founding member of the Nurse Scientist Special Interest Group, 2018
 American Nurses Credentialing Center (ANCC), Certified Nurse Planner for awarding of continuing education contact hours, 2018 – 2020.

Invited Expert/IV infusion: Institute for Safe Medical Practices (ISMP) Sponsored Consensus Meeting.

Invited as one of 50 experts to create a set of ISMP recommendations for decreasing IV medication administration error using IV Smart Pumps. May 10-11, Philadelphia, PA. 2018

Invited Expert/IV infusion: Steering Committee, Regenstrief National Center for Medical Device Informatics (REMEDI) at the Regenstrief Center for Healthcare Engineering (RCHE), Purdue University, West Lafayette, IN. 2017-2021

Invited Expert/IV infusion: Intravenous Nursing Society (INS)

IV Therapy Standards of Practice, 2021

IV Therapy Standards of Practice, 2024

Research Committee: Association for the Advancement of Medical Instrumentation (AAMI), 2016-2020

SELECTED INTERNATIONAL PROFESSIONAL SERVICE

Invited Reviewer for Swiss National Science Foundation Grant Review: Effectiveness, Implementation and Costs of non-ventilator hospital associated Hospital-Acquired Pneumonia (nvHAP) Prevention. December, 2023.

Invited Expert IV infusion-Dutch Government Grant Reviewer: Netherlands Organization for Scientific Research Applied and Engineering Sciences (NWO). Product innovation grant review funded by the Dutch Government: "Inline Detection of Intravenous Medicine Compositions", 2019

Advisor on Innovation in IV Infusion. Dutch Government program "21st Century Business Growth Advisors B.V.". Perry van Rijsingen, Healthcare Shapers, 2018

SELECTED COMMUNITY SERVICE

EMK (Edward M. Kennedy) Academy for Health Careers Full-inclusion High School Science Fair Judge, Boston MA, 2018-2019.

Houston Food Bank Volunteer, Houston TX, 2017

EDITOR & PEER REVIEW ACTIVITIES (Selected since 2010)

Institute Reviewer

PCORI (Patient-Centered Outcomes Research Institute), 2019 invited as reviewer for federal grant proposals

Journal Reviewer

Clinical Nursing Research, 2022-present

American Journal of Nursing, 2021-present

Intensive Care Medicine, 2020-present

American Nurse, 2020-present

Risk Analysis, 2019-present

AACN Advanced Critical Care, 2019-present

Critical Care Medicine, 2018-present

Biomedical Instrumentation & Technology (BI&T), 2016-present

American Journal of Critical Care, 1997-present

Nursing Research, 2004-2011

Journal of Nursing Scholarship, 2000-2011

Journal Column Editor

Nurse-led Innovation (Co-editor), American Journal of Nursing, 2021-present

Technology Today Department (Editor), AACN Advanced Critical Care, 2007-2012

Institutional Review Board Member

Hallmark Healthcare, Medford MA, 2015-2018

PROFESSIONAL MEMBERSHIPS/WORKGROUPS/COMMITTEES (Selected since 2010)

2018-	Council on the Advancement of Nursing Science (CANS) Nurse Scientist Interest Group
2013-	Steering Committee, REMEDI Infusion Collaborative, Regenstrief Center for Healthcare Engineering (RCHE), Purdue University, West Lafayette, IN.
2012-	Infusion Nurses Society
2014-	American Organization of Nurse Executives
2012-	Healthcare Businesswoman's Association
2012-	American Marketing Association
2011-	American Association of Medical Instrumentation
2011-2015	Alarms standards committee
2012-2015	Healthcare Technology Safety Initiative (HTSI)
2013-2015	HTSI Steering Committee for Alarm Fatigue
2014-	IV infusion device safety coalition
2016-	Research committee
1985-	American Association of Critical Care Nurses
2012-	Greater Boston Chapter
2014-	Human Factors and Ergonomics Society
1996-	Eastern Nurses Research Society
2014-	Wound, Ostomy and Continence Nursing
2013-	American Society of Professionals in Infection Control

NON-ACADEMIC EMPLOYMENT

2016-2017	Director of Clinical Outcomes, Stryker/Sage, Cary, IL
2013-2014	New Product Development, Stryker/Sage, Cary, IL
2013-	President, PaceSetter & Associates, Medical Device Development & Strategy Consultant
2021-	Medtronic
2021-	GE
2021-	Stryker
2021-	Bioderm
2020-	Atlas
2020-	TagCarts
2019-2020	Frontive
2018-	Sunstar
2018-	Medline
2018-	GLG Consulting
2018-	Apex Leaders
2018-	Philips Healthcare
2018-	ICU Medical
2017-	Recovery Force Health
2015-2017	Medtronic
2013-2018	Ivenix
2013-2014	Sage Products
2013-2014	Mindray
2013-2014	Pryor Products
2013-2014	Philips Healthcare
2012-2013	Vice President, Product Marketing/Clinical Evidence Generation, Ivenix (Formerly Fluidnet), Amesbury, MA
2010-2012	Principal Scientist/Director of Business Development, Philips Healthcare, Corporate Technologies, Eindhoven, Netherlands
2007-2012	Principal Scientist, Patient Monitoring, Global Marketing, Philips Healthcare, Andover, MA

2001-2007 Clinical Scientist, Patient Monitoring, Global Marketing, Philips Medical Systems
(formerly Agilent Technologies), Andover, MA

1999-2001 Business Development, Point-of-Care Diagnostics, US Marketing, Agilent
Technologies, Andover, MA.