

**Anna E. Krupp, PhD, MSHP, RN**  
Assistant Professor

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**EDUCATION**

- 2013-2017 PhD, Nursing, University of Wisconsin-Madison, Madison, WI  
Dissertation: *Understanding ICU Nurse Decision-Making About Patient Early Mobility*  
Minor: Distributed minor in human factors
- 2017-2019 MSHP, Master of Science in Health Policy, University of Pennsylvania, Philadelphia, PA.
- 2017-2019 Post-doctoral fellowship. Center for Health Outcomes and Policy Research (Aiken, T32NR007104), University of Pennsylvania School of Nursing, Philadelphia, PA.
- 2017-2019 Post-doctoral fellowship. National Clinician Scholars Program, University of Pennsylvania, Philadelphia, PA.
- 2004-2006 MS, Clinical Nurse Specialist, University of Wisconsin-Madison, Madison WI.
- 1998-2002 BSN, Nursing, University of Wisconsin-Eau Claire, Eau Claire, WI

**PROFESSIONAL LICENSURE AND CERTIFICATIONS**

**Licenses**

- 2019- Iowa Registered Nurse License, Iowa, License#155397

**Certifications**

- 2007- Certified clinical nurse specialist in critical care (CCNS)  
2006- Certified registered nurse in critical care (CCRN-K)

**HONORS AND AWARDS**

- 2021 Old Gold Summer Fellowship, University of Iowa Office of the Provost
- 2021 Midwest Nursing Research Society, Acute and Critical Care Across the Lifespan Research Interest Group (RIG) New Investigator Award
- 2019 American Thoracic Society Abstract Scholarship, Nursing Assembly
- 2018 American Thoracic Society Abstract Scholarship, Nursing Assembly
- 2016 Eckburg Dissertation Research Award
- 2015 Nurses for Wisconsin Predoctoral Fellowship
- 2005-2006 Advanced Educational Nurse Traineeship

2004 Ethel J. Odegard Scholarship  
2002 Undergraduate Nursing Honors

### PROFESSIONAL EXPERIENCE

#### Academic

2019- Assistant Professor. University of Iowa College of Nursing, Iowa City, IA.

#### Clinical

2006-2017 Clinical Nurse Specialist, Trauma & Life Support Center, University Hospital, Madison, WI.

2003-2006 Nurse Clinician, Trauma & Life Support Center, University Hospital, Madison, WI.

2003-2006 Registered Nurse, per-diem, intensive care unit and emergency, Stoughton Hospital, Stoughton, WI.

### SCHOLARSHIP

#### Research Statement

Focus of research is on long-term functional outcomes among ICU survivors; symptom experience during acute care hospitalization; nurse decision-making and EHR-based research.

#### Publications

*Peer Reviewed Papers* (\*data-based; underline-student trainee/mentee)

1. **Krupp, A.**, Lasater, K., McHugh, M.D. (in press). Association between intensive care unit utilization and hospital nurse work environment. *AACN Advanced Critical Care*. \*
2. **Krupp, A.**, DiMartino, M., Chung, W., Chaiyachati, K., Agarwal, A.K., Hufferberger, A.M., Laudanski, K. (2021). Communication and role clarity inform TeleICU use: a qualitative analysis of opportunities and barriers in an established program using AACN framework. *BMC Health Services Research*, 21(1):277. doi: 10.1186/s12913-021-06287-6.\*
3. Mark, A., Crumley, J., Rudolph, K., Doerschug, K., **Krupp, A.** (2020). Maintaining mobilization in a patient who is pregnant and has COVID-19 requiring ECMO: a case report. *Physical Therapy*. doi.org/10.1093/ptj/pzaa189
4. **Krupp, A.**, Ehelnbach, W., King, B. (2019). Factors nurses in the intensive care unit consider when making decisions about patient mobility. *American Journal of Critical Care*, 28(4), 281-289.\*
5. Heim, M., Draheim, R., **Krupp, A.**, Breihan, P., O'Rourke, A., Wells, J., Fish, J. (2019). Evaluation of a multidisciplinary pain, agitation, and delirium guideline in mechanically ventilated critically ill adults. *Hospital Pharmacy*, 54(2), 119-124. doi: 10.1177/0018578718769570.\*
6. **Krupp, A.**, Steege, L., King, B. (2018). A systematic review evaluating the role of nurses and processes for delivering early mobility interventions in the intensive care unit. *Intensive and Critical Care Nursing*, 47, 30-38.
7. Lor M., Bowers B., **Krupp A.**, Jacobson N. (2017). Tailored Explanation: A Strategy to Minimize Nonresponse in Demographic Items Among Low-Income Racial and Ethnic Minorities. *Survey Practice*, 10(3).
8. Mørk A., **Krupp A.**, Hankwitz J., Malec A. (2017). Using Kotter's Change Framework to Implement and Sustain Multiple Complementary ICU Initiatives. *J Nursing Care Quality*. PubMed PMID: 28658182.

9. Braus, N., Campbell, T.C., Kwekkeboom, K.L., Ferguson, S., Harvey, C., **Krupp, A.**, Lohmeier, T., Repplinger, M.D., Westergaard, R.P., Jacobs, E.A. Roberts, K.F., Ehlenbach, W.J. (2016). Prospective study of a proactive palliative care rounding intervention in a medical ICU. *Intensive Care Medicine*, 42(1), 54-62. PMID: 26556622.\*
10. **Krupp, A.**, & Balas, M. C. (2016). Application of Clinical Practice Guidelines for Pain, Agitation, and Delirium. *Critical Care Nursing Clinics of North America*, 28(2), 241-252. PMID: 27215361.
11. Jacobson, N., **Krupp, A.**, Bowers, B.J. (2016). Planning for Ancillary Care Provision: Lessons from the Developing World. *Journal of Empirical Research on Human Research Ethics*, 11(2), 129-34. PMID: 26994734
12. Bowers, B.J., Jacobson, N., **Krupp, A.** (2016). Can Lay Community Advisors Improve the Clarity of Research Participant Recruitment Materials and Increase the Likelihood of Participation? *Research in Nursing and Health*. DOI: 10.1002/nur.21752.\*
13. King, B.J., Pecanac K., **Krupp, A.**, Liebzeit, D., Mahoney, J.E.. (2016). Impact of Fall Prevention on Nurses and Care for Fall Risk Patients. *Gerontologist*. PMID: 28011591.\*
14. **Krupp, A.**, Monfre, J. (2015). Pressure ulcers in the ICU patient: An update on prevention and treatment. *Current Infectious Disease Reports*, 17(3). PMID: 25821191.
15. O'Horo, J.C., Maki, D., **Krupp, A.**, Safdar, N. (2014). Arterial catheters as a source of bloodstream infection: a systematic review and meta-analysis. *Critical Care Medicine*, 42(6), 1334-1339. PMID: 24413576.
16. Abad, C.L., Pulia, M.S., **Krupp, A.**, & Safdar, N. (2014). Reducing transmission of methicillin-resistant staphylococcus aureus and vancomycin-resistant enterococcus in the ICU—an update on prevention and infection control practices. *Journal of Clinical Outcomes Management*, 21(5), 218-232.
17. **Krupp, A.**, Anderson, B., (2014). Standardized use of safe patient handling equipment in the ICU: A unit-based quality improvement project. *Journal of Safe Patient Handling and Movement*, 4, 122-128.

#### **Publications under review**

1. **Krupp, A.**, Steege, L., Lee, J., King, B. (Under review). Opportunities to Support Nurse Decision-Making about Patient Mobility: Applying Cognitive Work Analysis to the ICU Work Environment. *Human Factors in Healthcare*.

#### **Research Grants**

##### **Intramural (funded)**

- 2021-2022. *Mobility, Symptom Experience, and Post-Hospitalization Outcomes Among Sepsis Survivors*. (A. Krupp, co-PI). Funded by University of Iowa College of Nursing Jo Ellen Ross Research Fund. \$10,000.
- 2020-2021. *Investment in Strategic Priorities Bridge Funding*. Funded by the University of Iowa Office of the Executive Vice President and Provost. \$10,000.
- 2020-2021. *A Data-Driven Approach to Classify Safety Criteria for Mobility Readiness*. (A. Krupp, PI). Funded by University of Iowa College of Nursing Jo Ellen Ross Research Fund. \$10,000.

### **Extramural (funded)**

July 2020-June 2022. Functional Decline and Symptom Experience Among Patients with Sepsis. (A. Krupp, PI). National Institute of Nursing Research (NINR) under grant number P20NR018081. Role: Pilot investigator. \$80,000.

### **Training Grants**

#### **Extramural (funded)**

2017-2019. *Advanced Training in Nursing Outcomes Research*. (L. Aiken, PI). National Institute of Nursing Research (NINR) under grant number T32NR007104. Role: Postdoctoral Trainee.

### **Research and Clinical Presentations**

#### **International**

1. 2020, May. Dunn, H., **Krupp, A.**, Steffen, A., Kapella, M.C. *Prediction of Weaning from Prolonged Mechanical Ventilation at a Long-Term Acute Care Hospital: A Comparison of Machine Learning Algorithms*. American Thoracic Society Virtual International Conference. (poster)
2. 2019. **Krupp, A.**, Lasater, K., McHugh, M. *Effect of Nursing Organizational Factors on ICU Utilization Among Medical and Surgical Patients*. American Thoracic Society International Conference. Dallas, TX. (poster)
3. 2018. **Krupp, A.**, Ehlenbach, W, King, B. *Using Cognitive Work Analysis to Understand ICU Nurse Decision-Making about Patient Mobility*. American Thoracic Society International Conference. San Diego, CA. May 18-23. (poster)
4. 2017. **Krupp, A.**, King, B, Steege, L, Royer, H. *Application of Cognitive Work Analysis to Promote Mobility as an ICU Quality Improvement Project*. Human Factors and Ergonomics in Health Care. New Orleans, LA. March 5-8. (poster)
5. 2015. Steege, L., King, B., Pinekenstein, B., **Krupp, A.**, Pecanac, K., Wang, H., Kuo, F., Koju, K. *Design, Implementation, and Evaluation of a System-Based Intervention: Steps Towards Reducing Hospital Induced Disability in Elderly – STRIDE*. HFES. 2015 International Symposium on Human Factors and Ergonomics in Health Care: Improving the Outcomes. Baltimore, MD. April 26-29. (poster)
6. 2014. **Krupp, A.**, Fish, J., Breihan, P., Wells, J. O'Rourke, A., Heim, M. (2014). *Multidisciplinary approach to implement and sustain a pain, agitation, and delirium guideline*. Critical Care Congress of the Society of Critical Care Medicine. San Francisco, CA. (poster)

#### **National**

1. 2021, November. **Krupp, A.**, Dunn, H., Potter, K. *Comparing an Electronic Mobility Safety Screen Prototype and Nurse Readiness Mobility Assessment to Activity Levels in ICU Patients Requiring Mechanical Ventilation*. Johns Hopkins Critical Care Rehabilitation Virtual Conference. (poster)
2. 2021, November. Potter, K., Dunn, H., Mueller, M., **Krupp, A.**, Newman, S., & Miller, S. *The IMPAIR (Identifying coMorbidity subgroups of Patients with Acute Respiratory failure) Study: Risk Stratification of Physical Disability Post-Intensive Care*. Johns Hopkins Critical Care Rehabilitation Virtual Conference. (poster)
3. 2021. **Krupp, A.**, Greiner, J. *Mapping Guidelines to EHR Data: Developing Decision Support about Safety for ICU Patient Mobility*. National Evidence-Based Practice Conference. Virtual. (oral)

4. 2020, November. **Krupp, A.**, Greiner, J., Dunn Lopez, K. *Mapping Guideline Recommendations to Electronic Health Records: A First Step in Developing Clinical Decision Support about ICU Patient Mobility*. AMIA Annual Symposium. Chicago, IL. Virtual. (poster)
5. 2020, September. **Krupp, A.**, *Research in progress: Predicting functional decline and developing clinical decision support*. Sarah Collins Rosetti Research Lab. Columbia University School of Nursing, New York, NY. (invited oral)
6. 2019. **Krupp, A.**, Lasater, K., McHugh, M. *Hospital Nursing Linked to Reductions in Intensive Care Utilization Following Major Surgery*. Academy Health Research Meeting. Washington D.C. (poster)
7. 2018. **Krupp, A.** *ICU utilization and nursing characteristics*. National Clinician Scholars Program Annual Meeting. Los Angeles, CA. (oral)
8. 2015, April. **Krupp, A.**, Anderson, B. *Improving Use of Safe Patient Handling Equipment in the ICU*. 21st National Evidence-Based Practice Conference, Coralville, IA. (oral)
9. 2010. **Krupp, A.** *Bloggng: the next generation journal club*. American Association of Critical Care Nurses National Teaching Institute. Washington, DC. (oral)
10. 2008. **Krupp, A.** *Pressure ulcer prevention in the ICU: CNS impact on changing unit culture*. National Association of Clinical Nurse Specialists Conference. St. Louis, MO. (oral)
7. 2015, July. **Krupp, A.**, Steege, L, King, B, Pinekenstein, B, Pecanac, K, Wang, H, Kuo, F, Dryska, J, Koju, K, Tourbier, E. *Design, Implementation, and Evaluation of a System-Based Intervention: Steps Towards Reducing Hospital-Induced Disability in Elderly – STRIDE*. Systems Engineering Initiative for Patient Safety (SEIPS) Short Course 2105, Madison, WI. (poster)
8. 2014. **Krupp, A.**, Maruna, C., Poirier, N., Ehlenbach, W. J. *Improving Interdisciplinary Collaboration to Increase Activity in a Medical-Surgical ICU*. Johns Hopkins Critical Care Rehabilitation Conference. Baltimore, MD. (poster)
9. 2014. **Krupp, A.**, King, B., Gretebeck, K. *Factors Associated with Early Ambulation in the ICU: A Systematic Review of the Literature*. Johns Hopkins Critical Care Rehabilitation Conference. Baltimore, MD. (poster)
10. 2013. **Krupp, A.**, VanDenBergh, S. *To the bedside: CNS collaboration to support and sustain bedside handoff report*. National Association of Clinical Nurse Specialists. San Antonio, TX. (poster)
11. 2007. **Krupp, A.**, Boyer, C., Jacobs, L., Mork, A. *Increasing CCRN certification to provide a beacon for our future*. American Association of Critical Care Nurses National Teaching Institute. Atlanta, GA. (poster)

### **Regional**

1. 2021. Volk, M., **Krupp, A.** *Developing an EHR-based Phenotype for ICU Patients at Risk for Functional Decline*. MRNS Research Conference. Virtual. (poster)
2. 2021. **Krupp, A.**, Dunn, H., Potter, K., Dunn Lopez, K. *Electronic Health Record-Based Phenotype for ICU Mobility: Developing an Algorithm for Classifying Patient Safety Criteria*. MNRS Research Conference. Virtual. (poster)
3. 2020, March. **Krupp, A.**, *A Data-driven approach to classify safety criteria for ICU patient mobility readiness*. Nursing Research & Evidence-Based Practice Grand Rounds. University of Iowa Hospital and Clinics, Iowa City, IA. (invited) [Cancelled due to COVID 19].
4. 2017, November. **Krupp, A.**, *RN decision making and ICU Mobility*. Nursing Grand Rounds. William S. Middleton VA Hospital, Madison, WI. (invited)

5. 2016, May. **Krupp, A.**, *Awake, alert, and intubated, now what? Opportunities for early mobility and patient communication in the ICU*. Updates in Allergy, Pulmonary and Critical Care, Madison, WI. (invited, oral)
6. 2015, May. **Krupp, A.**, *Knowing your ABCDE bundle alphabet: Improving care for mechanically ventilated patients*. Updates in Allergy, Pulmonary and Critical Care, Madison, WI. (Invited, oral)

## **SERVICE**

### **Editorial and Peer Review Service**

#### **Peer review of scholarly products**

2021	Global Qualitative Nursing
2020-	Annals of the American Thoracic Society
2020	Intensive and Critical Care Nursing
2017-	American Journal of Critical Care
2017-	Critical Care Nurse

#### **Peer review of teaching or practice products and activities**

2019	AACN Audio Recording Pilot Group
2019	AACN Recorded Sessions Review Panel

#### **Review of nominations for awards, honors or scholarships**

2019-2021	AACN NTI Scholarship Review Panel
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### **Professional Service**

#### **Society/Association membership, participation and leadership**

2003-	American Association of Critical Care Nurses (AACN)
2014-2015	National Teaching Institute (NTI) Program Planning Committee, AACN
2010-present	Continuing Education Panel Review Member, AACN
2009-2010	Advanced Practice Institute (API) Program Planning Committee, AACN
2012-2013	AACN, South Central Wisconsin Chapter, Treasurer
2008-2009	AACN, South Central Wisconsin Chapter, President
2006-2008	AACN, South Central Wisconsin Chapter, Education Committee
2005-2006	AACN, South Central Wisconsin Chapter, Board Member
2017-	American Thoracic Society
2020-2021	Nominating Committee, Nursing Assembly
2020-	Midwest Nursing Research Society (MNRS)
2020-2021	Acute & Critical Care Across the Lifespan RIG Chair-elect
2021-2022	Acute & Critical Care Across the Lifespan RIG Chair
2020-	American Medical Informatics Association (AMIA)

#### **Consultation**

2012-2013	Critical Care Advisory Board, Hollister Inc.
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## Collegiate Service

### Standing Committees

- 2020- University of Iowa Nursing Collaborative (UINC) Research Collaborative Leadership Group (CLG)
- 2020- College of Nursing EHR Data Workgroup
- 2019- BSN Admission Committee

## TEACHING

### Instructional Activities

#### Course Instruction

- Fall 2020/1 NURS: 5017 Quality and Safety. Primary Teacher, 22 students.
- Spring 2021 NURS: 5017 Quality and Safety. Primary Teacher, 24 students.
- Fall 2020 NURS: 5017 Quality and Safety. Primary Teacher, 32 students.
- Spring 2020 NURS: 5017 Quality and Safety. Team Teacher.
- Fall 2019 NURS:6802 Nursing and Health Policy, Law, and Advocacy. Team Teacher.

### Mentoring and Advisement

#### Mentoring

##### Predocctoral Mentorship

- 2020 - Jaewon Bae, Graduate Research Assistant

#### Advisement

##### BSN Students

- 2021 - Hope Worline, Undergraduate Research Assistant

##### BSN Honors Project

- 2020-2021 Madeline Volk, *Mapping Frailty Measures to EHR Data*, Faculty mentor. MNRS poster was awarded 3<sup>rd</sup> place in the competitive student poster session.