

**Heather L. Bair DNP, ARNP, CRNA, CHSE, FAANA**  
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### **EDUCATION**

2011 DNP University of Iowa College of Nursing, Iowa City, Iowa  
DNP Project: Implementation of a Pre-anesthesia Checklist Utilizing Anesthesia  
Patient Safety Foundation (APSF) Guidelines  
2005 MSN University of Iowa College of Nursing, Iowa City, Iowa  
1997 BSN University of Iowa College of Nursing, Iowa City, Iowa

### **LICENSURE**

1997-present Iowa Board of Nursing, RN #099562  
2005-present Iowa Board of Nursing, ARNP #D099562

### **CERTIFICATIONS**

2019-present Society for Simulation and Healthcare (SSH), Certified Healthcare Simulation  
Educator (CHSE)  
2005-present National Board on Certification and Registration of Nurse Anesthetists  
(NBCRNA), Certified Registered Nurse Anesthetist (CRNA)  
2002-present American Heart Association, Pediatric Advanced Life Support (PALS)  
2002-present American Heart Association, Advanced Cardiovascular Life Support (ACLS)

### **PROFESSIONAL EXPERIENCE**

#### **Academic Appointments**

2022-present Associate Clinical Professor, University of Iowa College of Nursing  
2011-2022 Assistant Clinical Professor, University of Iowa College of Nursing  
Iowa City, Iowa

#### **Administrative Appointments**

2011-present Associate Program Director, Doctor of Nursing Practice Program in Anesthesia  
Nursing, University of Iowa College of Nursing, Iowa City, Iowa

#### **Clinical Appointments**

2005-present Certified Registered Nurse Anesthetist (CRNA) University of Iowa Hospitals  
& Clinics, Iowa City, Iowa

### **HONORS AND AWARDS**

2023 Collegiate Professional Service Award, University of Iowa College of Nursing  
2021 Collegiate Teaching Award, University of Iowa College of Nursing  
2019 College of Nursing Teaching Excellence Award, University of Iowa College of Nursing

2017 The Daisy Faculty Award, The Daisy Foundation. The Daisy Faculty Award was created to recognize and celebrate the contributions faculty make to the future of nursing.

## GRANTS AND SPONSORED PROJECTS

### Scientific and Educational Research Grants

#### Intramural Research Grants

##### Funded

- 2021 Psychometric Evaluation: Innovativeness Across Academia and Practice for Progress Scale (IA-APPS). L. Joseph (PI), (Co-I's): B. St. Marie, **H. Bair**, E. Perkhounkova, & M. Hein. Educational Innovation Award, \$5,000.
- 2021 Advancing Methods of Measurement and Education for Communication in Dementia Care. C. Shaw (PI), (Co-I's): **H. Bair** & K. Knox. Woodrow W. Morris Gerontology Research Award for Faculty, \$5,000.
- 2021 Advancing Methods of Measurement and Education for Communication in Dementia Care. C. Shaw (PI), (Co-I's): **H. Bair** & K. Knox. Sigma Theta Tau International (STTI) / Council for Advancement of Nursing Science (CANS), \$5,000.

## SCHOLARSHIP

### Publications

#### Journal articles (*\*data-based*)

1. \*Shaw, C., **Bair, H.**, Knox, K., Watkinson, E., Jackson, L., Weeks, D., & Hanson, P. (In Review). The congruence of nursing staff communication in naturalistic versus simulated hospital dementia care: A mixed-methods study.
2. Huber, D. L., **Bair, H.L.** & Joseph, M.L. (2019). Roadmap to Drive Innovativeness in Health Care. *Nurse Leader*, 17(6). DOI: 10.1016/j.mnl.2019.09.007.
3. \*Joseph, M. L., **Bair, H. L.**, Moorhead, S., & Hanrahan, K. (2019). A typology of innovations in nursing. *Journal of Nursing Administration*, 49(7/8). DOI: 10.1016/j.mnl.2019.09.007.
4. \*Block, R. I., **Bair, H. L.**, & Carillo, J. F. (2019). Is exhaustion more sensitive than disengagement to burnout in academic anesthesia? A study using the Oldenburg Burnout Inventory. *Psychological Reports*, 123(4). <https://doi.org/10.1177%2F0033294119856560>.
5. \*Joseph, M. L., **Bair, H. L.**, Huber, D. L., Moorhead, S., Hanrahan, K., Butcher, H., & Chi, N. (2019). Health care innovations across practice and academia: A theoretical Framework. *Nursing Outlook*. 00(00), 1-9, <https://doi.org/10.1016/j.outlook.2019.05.007>

### Letters to the Editor

1. Block R.I., **Bair, H.L.**, Carillo J.F. (2020). Response to Burnout as a state: random-intercept crosslagged relationship between exhaustion and disengagement in a 10-day study [letter]. *Psychology Research and Behavior Management*, May 5;13:395-396. PMID:32440238. PMCID: PMC7211325. doi:10.2147/PRBM.S258125

## Textbook Chapters

1. O'Sullivan, C., **Bair, H.L.**, (2023). Crisis Resource Management and Patient Safety. In Nagelhout, J., Elisha, S., & Heiner (Ed.), *J. Nurse Anesthesia 7<sup>th</sup> ed.* St. Louis, Missouri: Elsevier.

## Presentations

### International

1. White, S. & **Bair, H.** (2024). Perioperative Team Training: Code Hemorrhage. International Meeting on Simulation in Healthcare (IMSH), Society for Simulation in Healthcare (SSH), San Diego, CA. [Workshop].
2. Leonard, P., Lovkesh, A., **Bair, H.**, Denmeand, M., Forman, J., Hartman, J., Littlewood, K., Obr, C., VandeBerg, J., & White, S. (2024). Rapid Cycle Debriefing Practice. International Meeting on Simulation in Healthcare (IMSH), Society for Simulation in Healthcare (SSH), San Diego, CA. [Workshop].
3. **Bair, H.**, Shaw, C., & Knox, K. (January 2023). Simulation Using Manikins and Standardized Patients Reproduces Communication Patterns Similar to Actual Clinical Practice. IMSH Society for Simulation in Healthcare Annual Meeting, Orlando, FL, [Peer Reviewed Poster Presentation].
4. **Bair, H.** & Hartman, J. (2022). Debriefing, You Can Do This!. International Meeting on Simulation and Healthcare (IMSH) Society for Simulation in Healthcare (SSH), Los Angeles CA, [Workshop].
5. Leonard, P., **Bair H.**, O'Donnell, J., Obr C., Keech J., Lindower, J., Elgin, T., Anderson, D., Ravidranath, S., Shaffer, S., Ding, J., Salazar, J., (2022). Rapid Cycle Debriefing Practice. International Meeting on Simulation in Healthcare (IMSH), Society for Simulation in Healthcare (SSH), Los Angeles, CA [Workshop]
6. Leonard, P., **Bair H.**, Thenuwara, K, Obr B., Obr C., Kwok J., Littlewood, K. Abatzis, V., Hosking, J. Hartman, J. VandeBerg, J, & Keech, J. (2021), Engagement to Cognition. International Meeting on Simulation and Healthcare (IMSH): Bringing Learning to Life, Society for Simulation in Healthcare (SSH). [Virtual Workshop]
7. Leonard, P., **Bair H.**, Thenuwara, K., Forman, J., Hartman, J., Hosking, J., Miller, D., Obr, B., Obr, C. (2019). Rapid Cycle Debriefing Practice. International Meeting on Simulation in Healthcare (IMSH), Society for Simulation in Healthcare (SSH) San Antonio, Texas. [Workshop]
8. Leonard, P., **Bair, H.**, Hosking, J., Obr, B., Thenawara, K. (2019). Redesign for Cognitive Process. International Meeting on Simulation and Healthcare (IMSH), Society for Simulation in Healthcare (SSH), San Antonio, Texas. [Workshop]
9. Leonard, P., **Bair, H.**, Thenuwara, K., Mathias, M., Miller, D., Hall, N., Lindower, J., Loy, A. (2018). Rapid Cycle Debriefing Practice. International Meeting on Simulation in Healthcare (IMSH), Society for Simulation in Healthcare (SSH), Los Angeles, California. [Workshop]

### National

1. C. O'Sullivan & **Bair, H.** (2023). Utilizing Effective Crisis Resource Management Skills to Improve Patient Outcomes" American Association of Nurse Anesthetists (AANA) Annual Congress, Chicago, Illinois. [Recorded Pre-Simulation Presentation].

2. **Bair, H.**, Clayton, B. & Minges, T. (2023). Improving the Management of Anesthesia Emergencies: Simulation Labs, Obstetrical Hemorrhage. American Association of Nurse Anesthetists (AANA) Annual Congress, Chicago, Illinois. [Presentation and Simulation Lab].
3. **Bair, H.** (2023). Interdisciplinary Debriefing. Simulation in Motion – Midwest Consortium, Souix Falls, South Dakota. [Podium Presentation].
4. Shaw, C., Knox, K., **Bair, H.**, Watkinson, E., Weeks, D., & Hanson, P. (November 2022). *Establishing the Validity of Simulation to Capture Elderspeak Communication in Dementia Care*. Gerontological Society of America Annual Scientific Meeting, Indianapolis, IA, [Peer Reviewed Symposium Presentation]
5. **Bair, H.**, & Clayton, B. (2022). Improving the Management of Anesthesia Emergencies Series: Obstetrical Emergency Simulation. American Association of Nurse Anesthetists (AANA) Annual Congress, Chicago, Illinois. [Presentation and Simulation Lab]
6. Woodruff, S. & **Bair, H.** (2022). Improving the Management of Anesthesia Emergencies Series: Anaphylaxis. American Association of Nurse Anesthetists (AANA) Annual Congress, Chicago, Illinois. [Presentation and Simulation Lab]
7. O’Sullivan, C., **Bair H.**, C. Heiner, J., Gilligan, B., Gonzalez, M., Muckler, V., Kendon, B., Clayton, B., Woodruff, S., Furstein, J., Yockey, M. O’Donnell, J. Elisha, S. (2020). Improving the Management of Anesthesia Emergencies. American Association of Nurse Anesthetists (AANA) Annual Congress, San Diego, California. [Simulation Lab, Canceled Event]
8. **Bair, H.** & O’Sullivan, C. (2020). Integrating Cognitive Aids into Clinical Practice. Evidenced Based Treatments of Common Perioperative Emergencies. Cleveland Clinic Anesthesia Symposium, Cleveland, Ohio. Invited. [Podium Presentation and Simulation Lab, Canceled Event]
9. **Bair, H.**, & O’Sullivan, C. (2019.) Utilization of Cognitive Aids During a Simulated Emergency. Pennsylvania Association of Nurse Anesthetists (PANA) Spring Symposium, Hershey, Pennsylvania. Invited. [Simulation Lab]
10. **Bair, H.**, Finney, R., & Schneider, L. (2019). It's Okay to Not be Okay. American Association of Nurse Anesthetists Annual Congress, AANA, Chicago, Illinois. [Podium Presentation]
11. **Bair, H.**, Anderson M., Muckler, C., Heiner, J., Yockey, J., Kendon, B., O’Donnell, J., Gonzalez, M., Elisha, S, Furstein, J. Gilligan, B. & Woodruff, S. (2019). Evidence Based Treatments for Common Perioperative Emergencies. American Association of Nurse Anesthetists Annual Congress (AANA). Chicago, Illinois. [Simulation Lab]
12. O’Sullivan, C., **Bair, H.** (2019). Integrating Cognitive Aids into Practice to Improve Perioperative Outcomes. American Association of Nurse Anesthetists Annual Congress, (AANA). Chicago, Illinois. [Podium Presentation].
13. **Bair, H.**, Hall, N., Mueller, M., Blaylock, B. & Dailey, S. (2018). Implementation the Stanford Emergency Manual Using Simulation. American Association of Nurse Anesthetists (AANA) Annual Congress, Seattle, Washington. [Poster presentation].

14. **Bair, H.** Muckler, C., Heiner, J., Yockey, J., N. Hall, O'Donnell, J., Gonzalez, M., Elisha, S, & Butera, M. (2018). Preparing for Perioperative Emergencies Using Simulation. at the American Association of Nurse Anesthetists (AANA) Annual Congress, Boston, Massachusetts. [Simulation lab].

#### **State**

1. **Bair, H.** (2022). Utilizing Effective Crisis Resource Management Skills to Improve Patient Outcomes Iowa Association of Nurse Anesthetists (IANA) Fall Meeting. Iowa City, Iowa. [Podium Presentation followed by Simulation Labs].
2. **Bair H.** (2022). Obstetrical Hemorrhage Simulation. Iowa Association of Nurse Anesthetists (IANA) Fall Meeting. Iowa City, Iowa. [Simulation Labs]
3. Mahoney, T. Bunch, J., **Bair, H.** (2022). Myocardial Infarction Simulation. Intraoperative Iowa Association of Nurse Anesthetists (IANA) Fall Meeting. Iowa City, Iowa. [Simulation Labs]
4. **Bair, H.** (2018). Fire in the Operating Room: A Never Event. Illinois Association of Nurse Anesthetists (IANA) Spring meeting, Normal, Illinois. [Podium Presentation].
5. **Bair, H.** (2017). Anesthesia Machine Anatomy: The Basics to All the Bells and Whistles. Illinois Association of Nurse Anesthetists (IANA) Spring meeting, Normal, Illinois. [Podium Presentation].
6. **Bair, H.** (2016). Non-Obstetric Surgery During Pregnancy. Iowa Association of Nurse Anesthetists (IANA) Spring Educational Meeting, Des Moines, Iowa. [Podium Presentation].
7. **Bair, H.** (2016). Evidence Based Practice in Anesthesia: Optimizing Outcomes. Iowa Association of Nurse Anesthetists (IANA) Spring Meeting, Des Moines, Iowa. [Podium Presentation].
8. **Bair, H.** (2015). Anesthesia Machine Anatomy: The Basics to All the Bells and Whistles. Iowa Association of Nurse Anesthetists (IANA) Fall Meeting, Des Moines, Iowa. [Podium Presentation].
9. **Bair, H.** (2015). Fire in the Operating Room: A Never Event. Iowa Association of Nurse Anesthetists (IANA) Fall Meeting, Des Moines, Iowa. [Podium Presentation].
10. **Bair, H.** (2014). Retrobulbar Block Complications. Iowa Association of Nurse Anesthetists (IANA) Fall Meeting, Des Moines, Iowa. [Podium Presentation].
11. **Bair, H.** (2012). An Anesthesia Safety Initiative: Implementation of a Pre-Anesthesia Checklist. Iowa Association of Nurse Anesthetists (IANA) Fall Meeting, Des Moines, Iowa. [Podium Presentation].

#### **Local**

1. **Bair, H.** (2023). Improving Healthcare Outcomes with Simulation-Based Learning: From Local to International Impact. University of Iowa College of Nursing Celebrating 125 Years, Iowa City, IA. [Podium Presentation.]
2. **Bair H.** (2023). Simulation Design. Introduction to Team Simulation Design and Debriefing (TSD) Course. University of Iowa Health Care (UIHC), Iowa City, Iowa. [Workshop]

3. **Bair, H.** (2023). Advocacy/Inquiry Using a Personal Experience. Introduction to Team Simulation Design and Debriefing (TSDD) Course. University of Iowa Health Care (UIHC), Iowa City, Iowa. [Workshop].
4. **Bair, H.** (2022). Perioperative EKG Interpretation and Advanced Cardiac Life Support. Iowa Society of Perianesthesia Nurses (ISPAN) Annual Conference. [Virtual Workshop]
5. **Bair, H.** (2022). Simulation 101 Workshop: *Simulation Standards and Ethics: The Building Blocks; What's in a simulation? : Simulation Design and Execution; The Prebrief and Debrief: Setting the Stage and Giving Effective Feedback.* Simulation Iowa Motion, Iowa (SIM-IA). Swisher, Iowa. [Workshop].
6. **Bair, H.** (2022). Simulation Design. Introduction to Team Simulation Design and Debriefing (TSDD) Course. University of Iowa Health Care (UIHC), Iowa City, Iowa. [Workshop].
7. **Bair, H., Hartman J.** (2022). Debriefing: You Can Do This! Introduction to Team Simulation Design and Debriefing (TSDD) Course. University of Iowa Health Care (UIHC), Iowa City, Iowa. [Workshop].
8. **Bair, H.** (2022). Advocacy/Inquiry Using a Personal Experience. Introduction to Team Simulation Design and Debriefing (TSDD) Course. University of Iowa Health Care (UIHC), Iowa City, Iowa. [Workshop].
9. **Bair, H.** (2021). Feedback in Debriefing: Get Curious! Introduction to Team Simulation Design and Debriefing (TSDD) Course. University of Iowa Health Care (UIHC), Iowa City, Iowa. [Virtual Workshop].
10. **Bair, H.** (2021). Virtual Escape Room. Introduction to Team Simulation Design and Debriefing (TSDD) Course. University of Iowa Health Care (UIHC), Iowa City, Iowa. [Virtual Workshop].
11. **Bair, H.** (2021). Simulation Design. Introduction to Team Simulation Design and Debriefing Course. University of Iowa Health Care (UIHC), Iowa City, Iowa. [Virtual Workshop].
12. **Bair, H.** (2021). Fire in the Operating Room: A Never Event. University of Iowa Health Care (UIHC) Ambulatory Surgery Center, Iowa City, Iowa. [Podium Presentation].
13. **Bair H.** (2020). Advanced Cardiac Life Saving (ACLS) Overview. University of Iowa Healthcare (UIHC), Stead Family Children's Hospital. Iowa City, Iowa. [Podium Presentation].
14. **Bair, H.** (2020). Advanced Cardiac Life Saving (ACLS) Overview. University of Iowa Healthcare (UIHC), Ambulatory Surgery Center. Iowa City, Iowa. [Podium Presentation].
15. **Bair, H.** (2020). Fire in the Operating Room: A Never Event. University of Iowa Health Care (UIHC) Ambulatory Surgery Center, Iowa City, Iowa. [Podium Presentation].
16. **Bair, H.** (2019). Difficult Debriefing. College of Nursing Healthcare Simulation Workshop II. The Nursing Clinical Education Center (NCEC). University of Iowa Health Care (UIHC). Iowa City, Iowa. [Workshop].
17. **Bair, H.** (2019). Nuts and Bolts of Debriefing. College of Nursing Healthcare Simulation Workshop I. The Nursing Clinical Education Center (NCEC). University of Iowa Health Care (UIHC). Iowa City, Iowa. [Workshop].

18. Leonard, P., **Bair, H.**, Vandeberg, J., Loy, A., Lindower, J., Thenuwara, K., & Obr. C. (2019). Conversations in a Just Culture. 7th Annual Quality and Safety Symposium. University of Iowa Healthcare (UIHC). Iowa City, Iowa. [Workshop].
19. **Bair, H.** (2019). Debriefing and Feedback. Team Simulation Design and Debriefing (TSDD) Course, University of Iowa Health Care (UIHC), Iowa City, Iowa. [Podium Presentation].
20. Leonard, P., & **Bair, H.** (2019). Genuine Curiosity and Difficult Conversations. Team Simulation Design and Debriefing (TSDD) Course, University of Iowa Health Care (UIHC), Iowa City, Iowa. [Podium Presentation].
21. Leonard, P., **Bair, H.**, Vandeberg, J., & Loy, A. (2019). Advocacy and Inquiry with a Personal experience. Team Simulation Design and Debriefing (TSDD) Course, University of Iowa Health Care (UIHC), Iowa City, Iowa. [Workshop].
22. Leonard, P., **Bair, H.**, Petit, J., Vandeberg, J., & Loy, A. (2019). Debriefing “Moves”. Team Simulation Design and Debriefing (TSDD) Course, University of Iowa Health Care (UIHC), Iowa City, Iowa. [Workshop].
23. Leonard, P., **Bair, H.**, Petit, J., Vandeberg, J., & Loy, A. (2019). Debriefing Pictionary. Team Simulation Design and Debriefing (TSDD) Course, University of Iowa Health Care (UIHC), Iowa City, Iowa. [Workshop].
24. **Bair, H.** & Thenuwara, K. (2019) Simulation Design. Team Simulation Design and Debriefing (TSDD) Course, University of Iowa Health Care (UIHC), Iowa City, Iowa. [Workshop].
25. Leonard, P., **Bair, H.**, Vandeberg, J., & Thenuwara, K. (2019). Design for Cognitive Process. Team Simulation Design and Debriefing (TSDD) Course, University of Iowa Health Care (UIHC), Iowa City, Iowa. [Presentation].
26. Leonard, P., **Bair, H.**, Petit, J., Vandeberg, J., & Loy, A., Thenuwara, K., Obr, C. & Hartman, J. (2019). Frames Matter. Simulation Design and Debriefing (TSDD) Course, University of Iowa Health Care (UIHC), Iowa City, Iowa. [Workshop].
27. **Bair, H.** (2019). Airway Management Skills Lab: Visiting Scholars from the Netherlands, Nursing Clinical Education Center (NCEC), Iowa City, Iowa. [Workshop].
28. **Bair, H. (2019)**. Certified Registered Nurse Anesthetist: U.S. Education and Practice, Visiting Scholars from the Netherlands, Nursing Clinical Education Center (NCEC), Iowa City, Iowa. [Podium Presentation].
29. **Bair, H.** (2017). Implementation the Stanford Emergency Manual Using Simulation. 5th annual UI Hospitals and Clinics Quality and Safety Symposium, UIHC, Iowa City, Iowa. Peer-Reviewed [Poster Presentation].

30. **Bair, H.** Kuehnle, F., Newman, L., Stanik – Hutt, J., & Vignato, J. (2018). Nursing Panel, Summer Health Professions Education Program, University of Iowa, Funded by the Robert Wood Johnson Foundation. Invited, [Panel Discussion]
31. **Bair, H.** (2018). Fire in the Operating Room: A Never Event. University of Iowa Health Care (UIHC) Stead Family Children's Hospital, Iowa City, Iowa. [Podium Presentation].
32. **Bair, H.** (2018) Fire in the Operating Room: A Never Event. Presentation. University of Iowa Health Care (UIHC), Main Operating Room, Iowa City, Iowa. [Podium presentation].
33. **Bair, H.** (2018). Debriefing and Feedback. Team Simulation Design and Debriefing (TSDD) Course, University of Iowa Health Care (UIHC), Iowa City, Iowa. [Podium Presentation].
34. Leonard, P., & **Bair, H.** (2018). Genuine Curiosity and Difficult Conversations. Team Simulation Design and Debriefing (TSDD) Course, University of Iowa Health Care (UIHC), Iowa City, Iowa. [Presentation].
35. Leonard, P., **Bair, H.**, Vandeberg, J., & Loy, A. (2018). Advocacy and Inquiry with a Personal experience. Team Simulation Design and Debriefing (TSDD) Course, University of Iowa Health Care (UIHC), Iowa City, Iowa. [Workshop].
36. Leonard, P., **Bair, H.**, Petit, J., Vandeberg, J., & Loy, A. (2018). Debriefing “Moves”. Team Simulation Design and Debriefing (TSDD) Course, University of Iowa Health Care (UIHC), Iowa City, Iowa. [Workshop].
37. Leonard, P., **Bair, H.**, Petit, J., Vandeberg, J., & Loy, A. (2019). Debriefing Pictionary. Team Simulation Design and Debriefing (TSDD) Course, University of Iowa Health Care (UIHC), Iowa City, Iowa. [Workshop].
38. **Bair, H.** & Thenuwara, K., Miller, D. (2018). Simulation Design. Team Simulation Design and Debriefing (TSDD) Course, University of Iowa Health Care (UIHC), Iowa City, Iowa. [Workshop].
39. Leonard, P., **Bair, H.**, Vandeberg, J., & Thenuwara, K. (2018). Design for Cognitive Process. Team Simulation Design and Debriefing (TSDD) Course, University of Iowa Health Care (UIHC), Iowa City, Iowa. [Presentation].
40. Leonard, P., **Bair, H.**, Petit, J., Vandeberg, J., & Loy, A., Thenuwara, K., Obr, C. & Hartman, J. (2017). Frames Matter. Simulation Design and Debriefing (TSDD) Course, University of Iowa Health Care (UIHC), Iowa City, Iowa. [Workshop].
41. **Bair, H.** (2017). Implementation the Stanford Emergency Manual Using Simulation. 5th annual UI Hospitals and Clinics Quality and Safety Symposium, Iowa City, Iowa. [Poster Presentation]
42. **Bair, H.** (2015). Nurse Monitored Sedation. University of Iowa Health Care Ambulatory Surgery Center, Iowa City, Iowa. [Presentation].
43. **Bair, H.** (2015). Fire in the Operating Room: A Never Event. Ambulatory Surgery Center, Iowa City, Iowa. [Presentation].



44. **Bair, H.** (2014). Implementation of Pre-Anesthesia Machine Safety Checklists Utilizing Patient Safety Guidelines. 2nd Annual Quality and Patient Safety Symposium, Iowa City, Iowa. [Poster Presentation].

## SERVICE

### Peer Review

- 2020-present Peer reviewer for Journal of PeriAnesthesia Nursing (JOPAN)  
2023 Peer reviewer for the 2024 Society for Simulation in Healthcare (SSH) Early Career Research Award Program  
2023 Peer reviewer for presentation submissions to 2024 International Society for Simulation in Healthcare (IMSH) Meeting  
2021 Peer reviewer for the AANA Journal  
2017 Textbook Chapter Peer Review. Nagelhout, J., & Sass, E. (2018). Anesthesia for Ophthalmic Procedures. Nurse Anesthesia. (6th ed.). St. Louis, Mo.: Elsevier/Saunders.

### Expert Consultation

- 2023 Duke Nurse Anesthesia Program. Expert consultant for a student working on a DNP project to develop a screen-based simulation for difficult airway management.
- 2022 Duke Nurse Anesthesia Program. Simulation Expert panelist Responding to a series of surveys assessing non-technical skills for a DNP project. Experts compared non-technical skills ratings between mannequin-based simulation and screen-based simulation.
- 2022 National Board of Certification and Recertification of Nurse Anesthetists (NBCRNA). Content validity expert panelist evaluating Objective Structured Clinical Examinations (OSCEs) and a remote evaluation platform for potential use with the maintenance of certification and reentry to practice for the NBCRNA.
- 2020 AANA Simulation Subcommittee Pre-anesthesia Checkout (PAC) Competency Evaluation for Student Registered Nurse Anesthetists (SRNAs). Content validity expert in a research project which aims to develop a common assessment tool for SRNAs across anesthesia nursing programs.
- 2020 National Board of Certification and Recertification of Nurse Anesthetists (NBCRNA) Continued Professional Certification (CPC). Content validity expert panelist reviewing simulation competency checklist for the Continued Professional Certification (CPC) program. Resulted in publication: Southwick, K., Kardong-Edgren, S., Aebersold, M.L. & Simmons, V.C. (2023, Month). Screen-Based Simulation as a Novel Recertification Tool for Certified Registered Nurse Anesthetists. *Clinical Simulation in Nursing*, 75, 11-19. <https://doi.org/10.1016/j.ecns.2022.11.002>.
- 2019 National Board of Certification and Recertification of Nurse Anesthetists (NBCRNA) Continued Professional Certification (CPC) and Re-entry to Practice Program. Content validity expert panelist reviewing simulation competency checklist for CRNAs who seek re-entry into nurse anesthesia practice.
- 2015 Anesthesia Patient Safety Foundation (APSF) Consensus Conference on Implementing Emergency Manuals/Checklists, Scottsdale, Arizona. Invited attendee at expert's workshop. Attendees and faculty worked to help APSF issue a consensus statement on the use of cognitive aid in the operating room which was published in the February 2016 APSF newsletter

[http://www.apsf.org/newsletters/html/2016/February/08\\_EmerManuals.htm](http://www.apsf.org/newsletters/html/2016/February/08_EmerManuals.htm)).

### **Professional Memberships**

2021-present International Nursing Association for Clinical Simulation and Learning (INACSL)  
2017-present Society for Simulation in Healthcare (SSH)  
2005-present American Association of Nurse Anesthetists (AANA)  
2005-present Iowa Association of Nurse Anesthetists (IANA)  
1997-present Sigma Theta Tau International Honor Society of Nursing

### **National Service**

2023 National Certification Exam (NCE) Standard Setting Panel. National Board of Certification and Recertification of Nurse Anesthetists (NBCRNA), Appointed  
2023-present National Certification Exam (NCE) Evaluation and Research Advisory Committee (ERAC). National Board of Certification and Recertification of Nurse Anesthetists (NBCRNA), Invited Member.

### **Committee Chair**

2021-2023 National Certification Exam (NCE) Item Writing Committee, National Board of Certification and Recertification of Nurse Anesthetists (NBCRNA), **Chair**.  
2019-2021 National Certification Exam (NCE) Item Writing Committee, National Board of Certification and Recertification of Nurse Anesthetists (NBCRNA), Member.  
2016 - 2019 Self-Evaluation Examination (SEE) Item Writing Committee, National Board of Certification and Recertification of Nurse Anesthetists (NBCRNA), **Chair**.  
2013 - 2016 Self-Evaluation Examination (SEE) Item Writing Committee, National Board of Certification and Recertification of Nurse Anesthetists (NBCRNA), Member.

### **University Service**

#### **University of Iowa Healthcare**

2023-present Anesthesia Best Practice Committee  
2020-present Anesthesia Skills Workshop CME Activity Planning Committee, Member.  
2022-present Ambulatory Surgery Center Code Hemorrhage Sub Committee, Member.  
2017-2020 UAnesthesia Department Wellness Committee, Co-Chair  
2017-2020 Wellness Ambassador to the liveWell Program.

### **Collegiate Service**

#### **University of Iowa College of Nursing**

#### **Task Forces and Ad Hoc Committees**

2022 DNP Program outcomes subcommittee, member, volunteer  
2020 College of Nursing Mission Statement Revision Taskforce, member, volunteer.  
2017 DNP Curriculum workgroup, member, volunteer  
2016 CON Program Evaluation Taskforce, member, volunteer

### **Standing Committees**

2012-present Anesthesia Nursing Admissions/Progression Subcommittee, member, appointed.  
2020-2023 Scholarship Subcommittee, Chair, appointed.  
2015-2022 Adult/GNP Admissions/Progression Subcommittee, member appointed.  
2014-2020 Scholarship Subcommittee, member, volunteer

## University and Academic Health Campus

- 2023 Summer Health Professions Education Program (SHPEP) Speaker  
Robert Wood Johnson Foundation enrichment program to support interest and successful matriculation in health professions education programs among individuals from traditionally underrepresented groups.
- 2014-2017 Clinical Beginnings, University of Iowa Interprofessional Education (IPE) Event, Facilitator.

## TEACHING

### Instructional Activities

#### University of Iowa College of Nursing

#### Course Instruction (*\*new course development*)

#### SPRING 2023

- NURS:6004:0001 Scientific Principles for Anesthesia Practice. Primary Instructor (14).  
NURS:6006:0001 Pharmacology of Anesthesia Practice. Team Teacher (14).  
NURS:6012:0001 Advanced Principles of Anesthesia Practice II. Team Teacher (12).  
NURS:6827:Chairs. Doctor of Nursing Practice Project II. DNP Project Chair (5).  
NURS:6829:Chairs Doctor of Nursing Practice Project IV. DNP Project Chair (2).

#### SUMMER 2023

- NURS:6007:0001. Basic Principles of Anesthesia Practice. Primary Instructor (12).  
NURS:6050:0001. Introductory Clinical Anesthesia, Team Teacher (14).

#### FALL 2023

- NURS:6010:0001 Advanced Principles of Anesthesia Practice I . Primary Instructor (12).  
NURS:6826:0EXW. Doctor of Nursing Practice Project I. Team Teacher (10).  
NURS:6828:Chairs. Doctor of Nursing Practice Project III. DNP Project Chair (4).

#### Fall 2022

- NURS:6010 Advanced Principles Anesthesia Practice I. Primary Instructor. Graduate. (12).  
NURS:6051:0001 Clinical Anesthesia. Faculty. Graduate. (12).  
NURS:6826:0EXW Doctor of Nursing Practice Project I. Faculty. Graduate. (10).  
NURS:6828:0EXW Doctor of Nursing Practice Project III. Graduate. (Chair 2 students in this class).  
NURS:6054:0001 Obstetrical Anesthesia. Graduate. Faculty. (12.)

#### Summer 2022

- NURS:6007 Basic Principles of Anesthesia Practice. Primary Instructor. Graduate. (12).  
NURS:6050:0001 Introductory Clinical Anesthesia. Faculty. Graduate. (12).  
NURS:6055:0001 Rural Anesthesia. Faculty. Graduate. (14).

#### Spring 2022

- NURS:6004:0001* Scientific Principles Anesthesia Practice. Primary Instructor. Graduate. (12).  
NURS:6829:0EXC Doctor of Nursing Practice Project IV. Faculty. Graduate. (4).  
NURS:6827:0EXK *Doctor of Nursing Practice Project II. Faculty. Graduate (2).*

#### Fall 2021

- NURS:6010 Advanced Principles Anesthesia Practice I. Primary Instructor. Graduate. (14).  
NURS:6826:0EXK Doctor of Nursing Practice Project I. Faculty. Graduate. (2).  
NURS:6828:0EXC Doctor of Nursing Practice Project III. Faculty. Graduate (4).

#### Summer 2021

- NURS:6007 Basic Principles of Anesthesia Practice. Primary Instructor. Graduate. (14).

NURS:6050:0001 Introductory Clinical Anesthesia. Faculty. Graduate. (14).

**Spring 2021**

*NURS:6004:0001*Scientific Principles Anesthesia Practice. Primary Instructor. Graduate. (14).

NURS:6827:0EXC Doctor of Nursing Practice Project II. Faculty. Graduate. (4).

**Fall 2020**

NURS:6010 Advanced Principles Anesthesia Practice I. Primary Instructor. Graduate. (11).

NURS:6826:0EXC Doctor of Nursing Practice Project I. Faculty. Graduate. (4).

**Summer 2020**

NURS:6007 Basic Principles of Anesthesia Practice. Primary Instructor. Graduate. (11).

**Spring 2020**

NURS: 6004 Scientific Principles Anesthesia Practice. Primary Instructor. Graduate. (11).

NURS: 6829 Doctor of Nursing Practice Project IV. Faculty. Graduate. (6).

**Fall 2019**

NURS:6010 Advanced Principles Anesthesia Practice I. Primary Instructor. Graduate. (11).

NURS:6828:0EXD. Doctor of Nursing Practice Project III. Graduate. Faculty. (6)

**Summer 2019**

NURS: 6007 Basic Principles of Anesthesia Practice. Primary Instructor. Graduate. (11).

**Spring 2019**

\*NURS: 6004 Scientific Principles Anesthesia Practice. Primary Instructor. Graduate. (11).

NURS: 6825 Doctor of Nursing Practice Project. Faculty. Graduate. (2).

NURS: 6827 Doctor of Nursing Practice Project II. Faculty. Graduate. (6).

**Fall 2018**

NURS: 6010 Advanced Principles Anesthesia Practice I. Primary Instructor. Graduate. (11).

NURS: 6825 Doctor of Nursing Practice Project. Faculty. Graduate. (2).

NURS: 6826 Doctor of Nursing Practice Project I. Faculty. Graduate. (6).

**Summer 2018**

NURS: 6007 Basic Principles of Anesthesia Practice. Primary Instructor. Graduate. (11).

**Spring 2018**

NURS: 6016 Equipment & Tech Principles of Anesthesia Practice. Primary Instructor. Graduate. (11).

NURS: 6825 Doctor of Nursing Practice Project. Faculty Instructor. (2).

NURS: 6825 Doctor of Nursing Practice Project. Faculty Instructor. Graduate. (3).

**Fall 2017**

NURS: 6005 Chemical & Physical Principles of Anesthesia Practice. Primary Instructor. Graduate. (11).

NURS: 6010 Advanced Principles Anesthesia Practice I. Primary Instructor. Graduate. (9).

NURS: 6825 Doctor of Nursing Practice Project. Faculty. Graduate.(3).

**Summer 2017**

NURS: 6007 Basic Principles of Anesthesia Practice. Primary Instructor. Graduate. (10).

**Spring 2017**

NURS: 6016 Equipment & Technological Principles of Anesthesia Practice. Primary Instructor. Graduate. (10).

NURS: 6825 Doctor of Nursing Practice Project. Primary Instructor. Graduate. (6).

**Fall 2016**

NURS: 6010 Advanced Principles Anesthesia Practice I. Primary Instructor. Graduate (10).

NURS: 6825 Doctor of Nursing Practice Project. Primary Instructor. Graduate. (2).

**Summer 2016**

NURS: 6007 Basic Principles of Anesthesia Practice. Primary Instructor. Graduate. (10).

**Spring 2016**

NURS: 6016 Equipment & Technological Principles of Anesthesia Practice. Primary Instructor. Graduate. (10).

**Fall 2015**

NURS: 6010 Advanced Principles Anesthesia Practice I. Primary Instructor. Graduate. (10).

**Summer 2015**

NURS: 6007 Basic Principles of Anesthesia Practice. Primary Instructor. Graduate. (10).

**Spring 2015**

NURS: 6016 Equipment and Technological Principles of Anesthesia Practice. Primary Instructor. Graduate. (10).

NURS: 6052 Clinical Anesthesia II. Primary Instructor. (9).

**Fall 2014**

NURS: 6012 Advanced Principles of Anesthesia Practice II. Primary Instructor. Graduate. (10).

NURS: 6051 Clinical Anesthesia I. Primary Instructor. Graduate. (10).

**Summer 2014**

NURS: 6007 Basic Principles of Anesthesia Practice. Primary Instructor. Graduate. (10).

**Spring 2014**

NURS: 6016 Equipment and Technological Principles of Anesthesia Practice. Primary Instructor. Graduate. (10).

NURS: 6052 Clinical Anesthesia II. Primary Instructor. Graduate. (10).

**Fall 2013**

NURS: 6012 Advanced Principles of Anesthesia Practice II. Primary Instructor. Graduate. (10).

NURS: 6051 Clinical Anesthesia I. Primary Instructor. Graduate. (10).

**Summer 2013**

NURS: 6050 Introductory Clinical Anesthesia. Primary Instructor. Graduate. (10).

NURS: 6055 Rural Anesthesia. Primary Instructor. Graduate. (12).

**Invited Guest Lectures****Fall 2015-2023**

PCOL:6203 Pharmacology for Graduate Students. "Clinical Application Session: Hypertension and Coronary Heart Disease"

PCOL:6203 Pharmacology for Graduate Students. "Central and Peripheral Mechanisms of Hypertension"

PCOL:6203 Pharmacology for Graduate Students. "Antihypertensive Agents"

PCOL:6203 Pharmacology for Graduate Students. "Regulation of Coronary Blood Flow".

PCOL:6203 Pharmacology for Graduate Students. "Treatment of Coronary Heart Disease".

**Fall 2019-2022**

NURS: 5038 "Airway Management Simulation Lab". Adult Gerontology Acute Care Nurse Practitioner Program.

NURS: 5038 "Airway Management Simulation Lab. Pediatric Acute Care Nurse Practitioner Program.

**Spring 2018-2019**

NURS:3518 Pathophysiology. "Cardiovascular Physiology". Undergraduate BSN Program.

NURS:3518 Pathophysiology. "Pulmonary Physiology". Undergraduate BSN Program.

**Mentoring****Undergraduate Mentoring**

2015-2017 BSN Faculty Mentorship Program, Faculty

2014-2016 Sigma Theta Tau Gamma BSN Mentorship Program, Faculty

**Graduate Mentoring****DNP Project Mentorship****University of Iowa College of Nursing Graduates**

2023 Tuttle, Tyler

Jude, Gabriella

Delpierre, Aimee

Andela, Cameron

2022 Owen, Chelsea, Improving Anesthesia Machine Safety Practices.

Mahoney, Thomas, Fire Safety in an Ambulatory Surgery Center.

- Hugi, Alex, Implementation of a Cognitive Aid for Perioperative Emergencies  
 Mazetta, Lucy, Decreasing Red Blood Cell Wastage for Cardiothoracic Surgical Services.  
 2020 Kayvani, Jasmine. Integrating the Stanford Emergency Manual (SEM).  
 Kleinmeyer, Misty. Implementing a Second Victim Support System for Anesthesia Providers.  
 2018 Mara, Amanda. Updating Moderate Procedural Sedation Education, Testing, and Monitoring Practices  
 at UIHC or Non-Anesthesia Providers  
 2018 Mueller, Matthew. Implementation of the Stanford Emergency Manuals in the Perioperative Setting  
 2016 Hall, Nick. Incorporating Emergency Manuals into Rural Hospital Practice Using Simulation VanSickle,  
 Brittany. Simulation to Prepare Anesthesia Students for Crisis Situations

### **Georgetown University Doctor of Nursing Anesthesia Graduates**

- 2023 Joe Gaudette, Emily Newell & Chase Noye. Perceptions and use of a reader for emergency manual use  
 during an Intraoperative emergency.  
 2022 Brandon Boykin & Alexandra Pezzi. Emergency Cognitive Aid Use Among  
 CRNAs and Barriers to Utilization in the Perioperative Environment. Third  
 Reader.  
 2019 Kristin Lakatos. Cognitive Aid Education and Uptake by CRNAs. Third Reader.

### **University of Iowa College of Nursing**

#### **DNP Project Chair for Graduates of Anesthesia Nursing Program**

- 2023 Andela, Cameron. Implementation of an OR Crisis Management Training Program.  
 Buss, Sheldon. Improving NORA Prone Positioning Practices to Prevent Injury  
 2022 Kinzie, Janet. Improved Screening for Anesthesia Services for Gastrointestinal Procedures.  
 Mazetta, Lucy. Decreasing Red Blood Cell Wastage for Cardiothoracic Surgical Services.  
 Owen, Chelsea. Improving Anesthesia Machine Safety Practices.  
 Schlager, Jessica. MRI Anesthesia Patient Safety Checklist.  
 Mahoney, Thomas. Fire Safety in an Ambulatory Surgery Center.  
 2019 Klienmeyer, Misty. Implementing a Second Victim Support System for Anesthesia Providers.  
 McKibben, Channon. Learning from Excellence.  
 2018 Brockway, Matthew. Improving Patient Outcomes with Implementation of Handoff Checklist.  
 Sims, Mathew. Decision Tree to Treat PONV in Pediatric Patients.  
 2017 Blaylock, Benjamin. Implementation of Stanford Emergency Manuals with Simulation.  
 Mueller, Matthew. Implementation of the Stanford Emergency Manual.  
 2016 Hall, Nick. Incorporating Emergency Manuals into Rural Hospital Practice Using Simulation.  
 2015 Clark, Tacie. Decision Ladder for Administration of Acetaminophen for Postoperative Pain.  
 Sara, Griffin. Perioperative Identification and Consultation of Opioid Tolerant Patients.  
 VanSickle, Brittany. Simulation to Prepare Anesthesia Students for Crisis Situations.  
 Ripley, Lauren. Standardization of Communication Between Anesthesia and PACU.

#### **DNP Project Committee Member for Graduates of Anesthesia Nursing Program**

- 2023 Delpierre, Aimee. Code Hemorrhage: Protocol Implementation.  
 Fennell, Sara. UIHC Perioperative Antibiotic Stewardship for Surgical Inpatients  
 Hayworth, Collee. Perioperative Blood Glucose Management.  
 Hickman, Nicole. Perioperative Infection Control Guidelines and Implementation.  
 Irish, Leah. Improving Anesthesia Perioperative Evaluation for Older Adults  
 Jude, Gabriella. Implementation of OB Emergency Manual in a Rural Hospital Setting  
 Niles, Erin. Management of Procedural Burn Pain at UIHC.  
 Soto, Deyvi. Increasing Diversity in the CRNA profession.

- Tuttle, Tyler. Implementation of the Stanford OB Manual in a Rural Iowa Hospital.
- Vitale, Sabrina. Pediatric Emergence Delirium Scale Implementation.
- Willard, Jensen. Optimizing Safety in Non-Operating Room Anesthesia (NORA) locations.
- 2022 Burns, Brittany. Improving Compliance with Perioperative Infection Control Best Practices
- DeMoss, Michael. Massive Transfusion Protocol Workflow for the Adult ICU's at UIHC.
- Gitau, Alex. Difficult Airway Management in the Intensive Care Unit
- Labernik, John. Perioperative Blood Glucose Management.
- 2021 Giovannini, Paul. Improving Operating Room Crisis Management.
- Roehrs, Katlin. Improving OR-PACU handoff between Anesthesia and Nursing Personnel
- 2020 Sacquitne, Andrew. Ensuring Ethical Management of Perioperative Do Not Resuscitate (DNR) Requests.
- Kayvani, Jasmine. Integrating the Stanford Emergency Manual (SEM).
- Kasi, Elvis. Perioperative Blood Glucose Monitoring and Management.
- Villanueva, David. Perioperative Allergy Verification.
- Sherrill, John. Implementation of Enhanced Recovery After Surgery for Gynecological Surgery.
- Schippers, Laura. Improving Surgical Blood Ordering Practice.
- 2019 Niemann, Christina. Procedure Pass: A Systematic Checklist for Perioperative Services.
- Brown, Lindsay. A Perioperative Venous Thromboembolism Prophylaxis Initiative.
- 2018 Langel, Austin. Development and Implementation of an Ultrasound-Guided Regional Anesthesia Simulation for Student Registered Nurse Anesthetists.
- Mara, Amanda. Updating Moderate Procedural Sedation Education, Testing, and Monitoring Practices at UIHC for Non-Anesthesia Providers.
- 2017 Cardella, Francesco. Music Listening for Anxiety Reduction in the Preoperative Setting.
- Burds, Joseph. Enhanced Recovery After Surgery Implementation in Rural Iowa.
- Brumleve, Lena. Post Anesthesia Care Unit Discharge Efficiency.
- Meyers, Seth. Evaluation of Local Anesthetic Allergies.
- Swanson, Dana. Creating Support for the Second Victim of Adverse Healthcare Events.
- Tweedy, Sarah. Perioperative Pressure Injury Prevention: An Evidence-Based Approach.
- 2016 Day, Jane. Perioperative Glycemic Control Recommendations.
- Hansen, Kristin. Implementation of Anesthesia Machine Checkout in Satellite Areas.
- Kudej, Lindsey. Recommendations for Invasive Line Pressure Tubing Solution.
- Peters, Shandi. Defining the Roles and Responsibilities During an Intraoperative Code.
- Robertson, Nicole. Improving Preoperative Documentation of Advance Directives.
- Rowberry, Jake. Neuromuscular Transmission Monitoring in the ICU.
- Schoening, Shannon. Antibiotic Re-dosing Recommendations for Anesthesia Providers.
- Scholl, Daniel. Dosing for Stress Steroid Replacement: An Evidence Based Algorithm.
- 2015 Dailey, Sarah. A Team-Based Approach for Anesthesia Emergencies: Cognitive Aids for Perioperative Critical Events.
- Kuntz, Jennifer. Nursing Action Plan for a Difficult Airway.
- Schettler, Jonathon. Implementation of Capnography Monitoring for Procedural Sedation.
- Westermann, Elizabeth. Anesthesia Practice Recommendations for Pediatric Patients with Respiratory Infections.
- Williams, Christine. Perioperative Lidocaine Infusions as an Analgesic Adjunct for Colorectal Surgery.
- 2014 Carne, Kristin. Development of a Pediatric Specific Pre-anesthesia Evaluation Tool.
- Gallion, Mark. Oxygenation and Ventilation: Education for Non-Anesthesia Providers.
- Holst, Laura. Improving Communication In the Operating Room.
- Pomeroy, Michael. Anesthesia Guideline for Functional Endoscopic Sinus Surgery.
- Schultz, Seth. Improving Hand Hygiene of Operating Room Personnel.
- Stuit, Denise. A Proposal for an Impaired Provider Prevention Program.

- Thomas, Diana. Prone Pressure Injury Awareness Campaign.
- 2013 Abolanle, Ojelade. Ultrasound-Guided Regional Anesthesia: Benefits for Practice.
- Miller, Ramona. Development of a Scale to Determine Risk for Developing a Hospital Acquired Pressure Ulcer During Surgery.
- Wellcome, Melissa. Electronic Anesthesia Education.
- Megan, Kakela. Identifying Risk Factors and Incidence of OR Generated Hospital Acquired Pressure Ulcers.
- Smith, Haley. An Advocacy and Assistance Program: A Non-disciplinary Approach to Impaired Providers in Iowa.

**DNP Project Committee Member for Graduates of the Postgraduate Certificate DNP Program**

- 2022 Kinzie, Janet. Improved Screening for Anesthesia Services for Gastroenterology Procedure.
- Wolterman, Lisa. Improving Difficult Intravenous Access for Veterans Using Ultrasound.
- 2019 Mahon, Melissa. Implementation of an ERAS in a Critical Access Hospitals
- 2018 Khoo, Kristin Implementation of Stanford Emergency Manuals.
- Harlan, Pegah. Improving the Preoperative Anesthesia Assessment Process in Rural Hospitals
- 2016 Fear, Kathy. Radiation Safety Education for Fluoroscopy: ARNP Compliance with New Requirements
- 2013 Barnet, Shawna. Anesthesia Quality Improvement in the Rural Hospital Setting.

**Student Advisement**

- 2022 Kinzie, Janet – Postgraduate Certificate Graduate – Post Masters DNP Program