

## *Curriculum Vitae*

**MICHAEL J. KREMER, PhD, CRNA, CHSE, FNAP, FAAN**

**BUSINESS ADDRESS:** Rush University College of Nursing/Rush Center for Clinical Skills and Simulation  
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### **EDUCATION**

- 1997-1998 Post-doctoral research fellow, psychoneuroimmunology, Rush University College of Nursing. NINR-funded institutional training grant #T32NR07052, "Clinical Symptoms with Potential for Immunosuppression."
- 1993-1997 PhD, Rush University College of Nursing, Chicago, Illinois. Recipient, Nurse Anesthetist Faculty Fellowship funds from U.S. Department of Health and Human Services, #2A22NU50026-02. *Dissertation: A Study of Clinical Decision Making by Nurse Anesthetists*
- 1989-1991 M.S.N., Nursing Leadership, Seattle Pacific University, Seattle, Washington.
- 1979-1981 B.S., Nurse Anesthesia, University of Illinois – Springfield (formerly Sangamon State University) Certificate, St. John's Hospital, Springfield, Illinois.
- 1975-1978 B.S., Nursing, Northern Illinois University, DeKalb, Illinois
- 1971-1975 B.A., Psychology, Northern Illinois University, DeKalb, Illinois

### **PROFESSIONAL EXPERIENCE**

- 2018-present **Professor, Adult Health & Gerontological Nursing, Rush University College of Nursing; Professor, Nursing Division, Rush University Graduate College**  
2018-present: Member, HLC Lead Coordinating Committee
- 2011-2017 **Professor, Adult Health & Gerontological Nursing, Rush University College of Nursing; Professor, Nursing Division, Rush University Graduate College; Director, Nurse Anesthesia**  
2016-2017: HLC Lead Coordinating Committee  
2016-2018: Member, University Council  
2016-2017: Member, College of Nursing Research Committee  
2015: Chair, University Council  
2015: Co-Presiding Officer, Faculty Senate  
2014: Elected to Faculty Senate and Presiding Officer position  
2013-2014: Member, Graduate College Council  
2012-present: Champion, College of Nursing Strategic Plan Goal III, Student Life and Learning  
2012-2014: Member, College of Nursing Admissions & Progressions Committee  
2012-present: Course Director NSG 542 (Pharmacology), NSG 543B (Advanced Principles of Nurse Anesthesia), NSG 543C (Obstetric & Pediatric Anesthesia)  
2012-2016: Member, Rush University Medical Center APN Committee

- 2018- Executive Co-Director, Rush Center for Clinical Skills and Simulation (RCCSS).**  
2018-present: operational oversight of 20,000 square foot simulation center with 10 FTEs, \$2M budget. RCCSS accredited by American College of Surgeons & Society for Simulation in Healthcare (2019).
- 2011-2018 Co-Director, Rush Center for Clinical Skills and Simulation**  
2012: Worked with R. Suhayda, PhD, RN, on development of survey related to unmet simulation needs in Rush University Medical Center, including analysis of survey data.  
2012-2014: Collaborated with simulation leadership team on creation of new simulation center, moving from 1800 square foot space to 7500 square foot center, including three high fidelity simulation areas, with marked increased in utilization by interprofessional groups.  
2014-2015: Worked with simulation leadership team on planning for second phase of new simulation center, an 8500 square foot space, including 12 clinical exam rooms for standardized patient encounters. Work collaboratively with simulation leadership team on operational, educational, research and fund-raising activities.
- 2009-2011 Associate Professor, Adult Health & Gerontological Nursing; Director, Nurse Anesthesia Program & Co-Director, Simulation Lab, Rush University Medical Center**  
Operational responsibility for nurse anesthesia program with up to 72 students, including evaluation and faculty development for 18 faculty members. Oversight of didactic and clinical curriculum, assignment of teaching responsibilities, student recruitment and advising at the master's, DNP and PhD levels. Facilitation of compliance with COA Standards and Criteria. Shared operational responsibility for Rush University Simulation Lab, with 2 FTEs (Education Coordinator and Simulation Technician).  
2009-2010: Member, MSN Curriculum Committee  
2009-2011: Course Director, NRS 531B (Advanced Principles of Nurse Anesthesia); Co-Course Director, NRS 531C (Obstetric and Pediatric Anesthesia); Co-Course Director, NRS 530 F/G (Pharmacology)  
2009: Elected to Faculty Senate  
2010: Presiding Officer, Faculty Senate  
2011: Member, Faculty Senate
- 2010-2015 Contract CRNA, Aegis Ambulatory Anesthesia, Downers Grove, IL**  
Credentialed to provide anesthesia to patients across the lifespan undergoing surgical and diagnostic procedures in two surgicenters.
- 2006-2009 Associate Professor & Chair, Nurse Anesthesia Department, College of Health Professions, Rosalind Franklin University of Medicine and Science**  
Develop new nurse anesthesia program, including curricular design, clinical site acquisition, faculty and student recruitment. Oversight of program compliance with Council on Accreditation requirements. Assignment of faculty workload. Development of department budget, evaluation of faculty and staff. Member, CHP Curriculum Committee; Chair, Criterion 4 Higher Learning Commission Self-Study; Chair, Nursing Education Taskforce.
- 2006-2009 Staff Nurse Anesthetist, North Chicago V.A. Medical Center**  
Credentialed to provide anesthesia services to patients of all acuity across the age span. Patients included U.S. Navy active duty personnel and their dependents.

- 2002-2005 Co-Director, Rush University Simulator Laboratory**  
Plan, implement, and evaluate simulation curriculum for nurse anesthesia students and other students from the College of Nursing. Consultation on simulator curriculum and program development for other disciplines. Collaborated with Department of Philanthropy on \$250,000 grant for lab renovations from Chicago Community Trust.
- 2002-2005 Associate Professor, Adult Health & Gerontological Nursing, Rush College of Nursing**  
2009: Member, MSN Curriculum Committee  
2009: Elected to Faculty Senate & Presiding Officer-Elect position  
2006: Contract faculty member  
2004-2005, Member, Faculty Senate  
2004-2005, Member, AD-MSN & Rush-St. Xavier University DNP Task Forces  
2003-2004: Presiding Officer, Faculty Senate  
2002: Elected to Faculty Senate
- 1999-2005 Assistant Director, Nurse Anesthesia Program, Rush University College of Nursing, Chicago, Illinois.**  
Responsible for second year of nurse anesthesia program curriculum and other activities as assigned by Program Director such as completion of the Annual Report to the Council on Accreditation of Nurse Anesthesia Educational Programs. Administrator, web-based clinical case database. Coordinator, post-certificate master's program.
- 1997-2002 Assistant Professor, Adult Health Nursing, Rush University College of Nursing, Chicago, Illinois.**  
2002: Clinical preceptor, NUR 503, Advanced Physical Assessment  
2001-2003: Member, College of Nursing Evaluation Committee  
2000-2005: Course Director, NUR 530F, Nurse Anesthesia Pharmacotherapeutics I  
2000: Chair, College of Nursing Evaluation Committee.  
2000-2005: Guest lecturer, NUR 502, Role of the Nurse in Advanced Practice  
1999-2005: Academic Advisor to MSN, DNP, and DNSc students  
1999: Elected to College of Nursing Evaluation Committee.  
1999: Member, Policy, Organization, Financing of Health Care Task Force, Graduate Curriculum Committee.  
1997-2005: Course Director, NUR 531B, Advanced Principles of Nurse Anesthesia  
1996-2005: Coordinator for NAN 600, Nurse Anesthesia Program Journal Club
- 1994-1997** Contract freelance anesthesia, northern and central Illinois.
- 1993-2005 Staff Nurse Anesthetist, Department of Anesthesiology, Rush University Medical Center, Chicago, Illinois.**  
Administered anesthesia for patients of all acuity levels undergoing surgeries from low to high complexity. Practice included administration of regional anesthesia and pediatric anesthesia.  
2003: Instructor in Course for Emergency Clinical Management Class  
2001: Member, Operating Room Patient Tracking Committee.
- 1993-2005 Faculty, Nurse Anesthesia Program, Rush University College of Nursing, Chicago, Illinois.**  
Didactic and clinical instruction in basic and advanced principles of nurse anesthesia. Faculty preceptor for student nurse anesthetists. Taught basic and advanced principles of nurse anesthesia. Participant in admissions interview process, recruitment activities for master's and doctoral programs. Coordinated journal club for senior students. Attend twice-monthly faculty meetings and evaluate clinical competence of students.

- 1992 Chief Nurse Anesthetist, Department of Anesthesiology, University of Washington Medical Center, Seattle.**  
Responsible for staff recruitment, orientation, evaluation, clinical assignments. Conducted annual salary survey. Member, Department of Anesthesiology Quality Assurance Committee.
- 1983-1991 Staff Nurse Anesthetist/Teaching Associate, Department of Anesthesiology, University of Washington Medical Center, Seattle.**  
Provided anesthesia for patients of all acuity levels undergoing surgical procedures of low to high complexity. Clinical anesthesia instructor for medical students, house staff, dental residents, and nursing students. Provided continuing education lectures. Helped to implement numerous clinical research protocols. Practice included full spectrum of regional anesthesia and invasive monitoring techniques.
- 1981-1983 Staff Nurse Anesthetist, Swedish Hospital Medical Center, Seattle, Washington.**  
Provided anesthesia for patients of all acuity levels undergoing surgical procedures of low to high complexity. Presented continuing education lectures to peers.
- 1979-1981 Staff Nurse, Emergency Room/Trauma Unit (Level I Trauma Center), St. John's Hospital, Springfield, Illinois.**
- 1978-1979 Staff Nurse, Medical Intensive Care Unit, Rush-Presbyterian-St. Luke's Medical Center.**

## PROFESSIONAL ORGANIZATIONS

### American Association of Nurse Anesthetists

- 2015** Requested to develop module on didactic and clinical instruction for AANA Learn
- 2012-present** Editorial Advisory Board, *AANA Journal*
- 2013** Member, AANA Foundation Fellowship Selection Committee
- 2012** Representative to ANA Congress on Nursing Practice and Economics
- 2009** Representative to ANA Scope and Standards of Practice Workgroup
- 2006** Member, AANA Foundation Research Committee
- 2005-2007** Member, DNP Expert Panel
- 2005-2006** Chair, Education Committee
- 2005** Invited participant, DNP Summit, June 9-10
- 2004** Trustee, AANA Foundation
- 2003** Represented AANA at AORN Annual Meeting
- 2001-2003** Chair, AANA Foundation.
- 2000** Elected Vice-Chair, AANA Foundation.
- 2000** Joined Friend for Life philanthropic group.
- 1999** Charter Member, History and Archives Society.
- 1999** Lead Investigator, Closed Claims Research Team.
- 1998** Representative to AORN Foundation Surgical Nursing Specialties Conference.
- 1997-2007** Associate Editor, *AANA Journal*.
- 1996** Representative to National Student Nurses' Association Mid-Year Assembly.
- 1996-1999** Chair, AANA Foundation Research Committee.
- 1995-present** Investigator, AANA Foundation Closed Claims Study.
- 1994** TEFRA Rules Work Group.
- 1994-1995** Treasurer, CRNA-PAC.
- 1993-1994** Elected to CRNA-PAC.
- 1993** Hands-on instructor, spinal-epidural and hemodynamic monitoring workshops, Annual Meeting.
- 1993, 1994** Instructor in pre-convention infusion workshop, Annual Meeting.

1992-2007 Reviewer, *AANA Journal* Editorial Advisory Board.  
 1988 Hands-on instructor, brachial plexus workshop, Annual Meeting.

#### **Council on Accreditation of Nurse Anesthesia Educational Programs**

2017 Co-Investigator (with B. Horton): on commissioned history of nurse anesthesia accreditation, 1930-2017  
 2013-present Chair On-site Reviewer & Consultant  
 2011-2012 Elected COA Vice-Chair  
 2011 Re-Elected as COA Secretary-Treasurer  
 2011 Representative to AANA Task Force on simulation education, February 12-13  
 2009 Elected to second 3-year term as CRNA Educator representative. Elected Secretary-Treasurer.  
 2007-2012 Chair, Practice and Research Doctorate Task Force  
 2007-2008 Chair, Annual Report Task Force  
 2006 Elected to 3-year term as CRNA Educator representative  
 2001-2006 Chair On-Site Reviewer  
 1997-1999 Team On-Site Reviewer

#### **Higher Learning Commission, North Central Association of Colleges and Schools**

2010-present Peer Reviewer

#### **American Nurses Association**

2012 AANA Representative to Congress on Nursing Practice and Economics  
 2009 AANA Representative to Nursing Scope and Standards of Practice workgroup

#### **American Academy of Nursing**

2003 Inducted as Fellow  
 Member, Expert Panel on Acute and Critical Care  
 Member, Communications and Public Relations Committee  
 Editorial Reviewer, *Nursing Outlook*

#### **American Society of PeriAnesthesia Nursing**

2013-present Editorial reviewer, *Journal of PeriAnesthesia Nursing*

#### **National Academies of Practice**

2014 Selected for Fellowship

#### **American Association of Colleges of Nursing**

2012 Participant in AACN Leadership in Academic Nursing Program

#### **Commission on Collegiate Nursing Education**

2004 Chair, Nominating Committee  
 2003 Elected to Nominating Committee

#### **Illinois Association of Nurse Anesthetists**

2017 Member, Government Relations Committee  
 2000 Chair, Nominating Committee  
 1999-2000. President.  
 1998-1999 President-Elect. Chief CRNA Negotiator on statutory language for Nurse Practice Act.  
 1996-1998 Treasurer.  
 1990 Secondary analysis of 1987 and 1991 member surveys.  
 1994-1995 Chair, Public Relations Committee. Developed public relations brochure.

- 1994-1996 Elected to Board of Directors.  
1994-1999 Lobbied with Illinois delegation at AANA Mid-Year Assembly, Washington, DC.  
1993-1995 Member, Public Relations Committee.  
1993-1994 Member, PAC Committee.

### **Illinois Nurses Association**

#### **Institute of Medicine – Chicago**

- 2004 Selected for Fellowship.  
2004-present Member, Chicago Patient Safety Forum

### **International Nursing Association for Clinical Simulation and Learning**

#### **Lippincott, Williams & Wilkins**

- 2006-present Editorial Advisory Board, *Men in Nursing*  
2004-present Editorial Reviewer, *Orthopaedic Nursing Journal*

#### **Midwest Nursing Research Society**

- 2005 On-site judge, graduate student posters. April 3, Cincinnati, OH.

#### **Sigma Theta Tau**

- 1990-1991 Corresponding Secretary, Gamma Phi Chapter.  
1990 Inducted into Psi Chapter-at-Large

#### **Society for Simulation in Healthcare**

- 2016 Certified Healthcare Simulation Educator

#### **U.S. Bureau of Health Professions**

- 2003 Peer Reviewer, Advanced Education Nursing Grant Applications, March 10-13.  
2000 Peer Reviewer, Advanced Education Nursing Grant Applications, May 8-11.

#### **Washington Association of Nurse Anesthetists**

- 1992 Elected Director  
1991 Chair, Nominating Committee  
1988 Instructor, hemodynamic monitoring workshop, spring meeting.  
1986 Member, Program Committee.  
1984 Member, WANA-WSA Liaison Committee.

### **AWARDS/HONORS**

- 2020 Peer Corps Recognition Service Award, Higher Learning Commission  
2017 Co-Recipient, AANA Researcher of the Year Award  
2014 Selected for Fellowship in the National Academies of Practice  
2009 Helen Lamb Outstanding Educator Award, American Association of Nurse Anesthetists  
2004 Selected for Fellowship in the Institute of Medicine - Chicago  
2003 Selected for Fellowship in the American Academy of Nursing  
2002 Selected by graduating MSN students to serve as their "Hooder" during commencement  
2000 Leadership Award, Rush University College of Nursing  
1998 Voted CRNA of the Year by Rush University nurse anesthesia class of 1998.  
1999 Distinguished Service Award from Gamma Phi Chapter, Sigma Theta Tau.  
1997 Recipient, Dean's Writing Award, Rush University College of Nursing.  
1992 Recipient, AANA Research in Action Award.

1991 AANA/Burroughs-Wellcome Fellowship Award.

1991 AANA/Burroughs-Wellcome Funded Program Administration Internship.

### EXTERNAL FUNDING

2017 Council on Accreditation of Nurse Anesthesia Educational Programs. Co-Investigator (with B. Horton) on historical research on the history of nurse anesthesia accreditation. Funded for \$25,000

2017 Nurse Anesthetist Traineeship Grant, A22HP30985-01-00, funded for \$44,042

2016 Nurse Anesthetist Traineeship Grant, A22HP29894-01-00, funded for \$46,204

2014 Nurse Anesthetist Traineeship Grant, A22HP27127-01-11, funded for \$38,492

2013 Nurse Anesthetist Traineeship Grant, A22HP26003-01-00, funded for \$23,399

2012 Nurse Anesthetist Traineeship Grant, A22HP24533-01-11, funded for \$31,122

2011 Nurse Anesthetist Traineeship Grant, A22HP21701-01-00, funded for \$22,985

2010 Office-Based Anesthesia Grant, AANA Foundation, funded for \$5,250

2009 Nurse Anesthetist Traineeship Grant, A22HP09496-02-00, funded for \$10,132

2008 Nurse Anesthetist Traineeship Grant, A22HP09496-01-00, funded for \$10,593

2006 Rush University Simulation Lab Infrastructure Improvement and Faculty Development Grant: Funded by the Chicago Community Trust for \$250,000 (with Sarah Morris, Philanthropy)

2005 Nurse Anesthetist Traineeship Grant, A22HP04554-01-00, funded for \$27,506

2003 Nurse Anesthetist Traineeship Grant, A22HP00051-04, funded for \$23,002

2002 Nurse Anesthetist Traineeship Grant, A22HP00051-03, funded for \$32,706

2001 Nurse Anesthetist Traineeship Grant #A22HP00051BO funded for \$9,928.

2000 Nurse Anesthetist Traineeship Grant #T32GM12453-03 funded for \$23,614.

1999 Research Grant for \$2,000 from Illinois Association of Nurse Anesthetists to study rural CRNA manpower issues.

### RESEARCH EXPERIENCE AND FUNDING

Focus areas: patient safety, clinical decision making and health care policy

2018-2020: Co-investigator with Betty Horton, PhD, CRNA, FAAN on a study of the history of nurse anesthesia accreditation. Funded by the Council on Accreditation of Nurse Anesthesia Educational Programs for \$25,000.

2017-present AANA Foundation Closed Malpractice Claims Study. Team member: Regional anesthesia claims and anesthetic morbidity/mortality. Team leader: Evaluation of claims that were judged to be preventable.

2011 AANA Foundation Office-Based Anesthesia Grant. Funded for \$5,250. An on-line survey of over 500 CRNAs engaged in office-based anesthesia practice regarding their compliance with the AANA *Standards for Office-Based Practice*.

2010 Worked with M. Johnson, RN, PhD, on AANA Foundation sponsored qualitative analysis of 62 closed malpractice claims filed against CRNAs.

2003-2006 Rush University Simulation Lab (RUSL) Infrastructure Improvement and Faculty Development Grant: Funded by the Chicago Community Trust for \$250,000 (First author, with Sarah Morris, Philanthropy collaborating).

2000 Illinois Association of Nurse Anesthetists. \$2,000 to study anesthesia services provided by CRNAs in rural Illinois.

1996-present AANA Foundation Closed Malpractice Claims Study, Lead Investigator. Funding Source: AANA Insurance Services. \$75,000 expended to date.

## INVITED PRESENTATIONS

- 2017 "Conducting a gap analysis." CAUTI Prevention Course (in collaboration with the Illinois Hospital Association and JUMP Station Simulation Center, OSF – St. Francis). Presented at Rush Center for Clinical Skills and Simulation, 5/31/17, 8/1/17.
- 2016 "Best practices in debriefing of interprofessional teams." Chicago Simulation Consortium Annual Meeting, August 26.
- 2012 "Human Patient Simulation in Nurse Anesthesia Education." Illinois Association of Nurse Anesthetists, September 15.  
 "Interpreting the Standards and Criteria for Practice-Oriented Doctoral Degrees." COA Doctoral Workshop, San Francisco, CA, August 2.  
 "Human Patient Simulation in Nurse Anesthesia Education." International Federation of Nurse Anesthetists World Congress. Ljubljana, Slovenia, May 15.  
 "Faculty Workload: Metrics versus Reality." AANA Assembly of School Faculty meeting, San Diego, CA, February 25.
- 2011 "Key Developments in the Movement to Doctoral Education: How Did We Get Here and Where are We Going?" COA Doctoral Workshop, Boston, MA, August 4.  
 "Interpreting the Standards and Criteria for Practice-Oriented Doctoral Degrees." COA Doctoral Workshop, Boston, MA, August 5.  
 "Developing a Curriculum that Meets National Standards for Similar Degrees." COA Doctoral Workshop, Boston, MA, August 5.
- 2010 "Dexmedetomidine in Clinical Practice" and "Lipid Emulsion Rescue." Wisconsin Association of Nurse Anesthetists, Sturgeon Bay, WI, October 2.  
 Moderator, Panel on Doctoral Education. Illinois Association of Nurse Anesthetists Fall Meeting. Lombard, IL, September 25.  
 "Lessons Learned by a Newer Program Director," and panel discussion, AANA New Program Director Workshop, Park Ridge, IL, March 13.
- 2009 "Human Patient Simulation: What it is and What it Can Be." Washington Association of Nurse Anesthetists, Spokane, WA, September 19.  
 "The AANA Foundation Closed Malpractice Claims Study" and "Anesthesia Economics and Reimbursement: Panel Discussion on the Implications of the AANA CAER Commission Report on CRNA Practice." Illinois Association of Nurse Anesthetists. St. Louis, MO, April 18.  
 "Lessons Learned by a New Program Director." AANA New Program Director Workshop, Park Ridge, IL, March 14.
- 2008 "Collaboration, Competence and Quality in an Evidence-Based World." Rush University College of Nursing, Chicago, IL. December 17.  
 "Lessons Learned by a New Program Director." AANA New Program Director Workshop, Park Ridge, IL. April 5.
- 2006 "Surgery, Pain and Immune Function" and "Simulation: What it is, and What it Can Be." Samford University, Birmingham, AL. October, 2006.



- “Navigating the Peer Review Process.” AANA Annual Meeting, Cleveland, OH, August 3.  
 “Perioperative beta blockade.” Wisconsin Association of Nurse Anesthetists, Green Bay, WI, April 1.
- 2005 “Navigating the Peer Review Process.” AANA Annual Meeting, Washington, DC. August 10.  
 “A History of the Practice Doctorate in a College of Nursing.” AANA DNP Summit, Park Ridge, IL, June 9.  
 “Nurse anesthesia education and practice.” Loyola University-Chicago, April 10.
- 2004 “Technological Innovations in Practice.” NPACE, Chicago, October 2.  
 “A Tale of Two Papers – The Path to Publication.” AANA Annual Meeting, Seattle, August 11.  
 “Nurse Anesthesia Career Opportunities.” Loyola University-Chicago, March 20.
- 2003 “Anesthesia Workforce: 2003 & Beyond,” “AHA/ACC Preoperative Testing Guidelines,” and  
 “Adjunctive Drugs in Pain Management.” Michigan Association of Nurse Anesthetists, Traverse  
 City, MI. September 26 & 27.  
 “Anesthesia Manpower & the Anesthesia Assistant Issue” & “Preoperative Testing Guidelines.”  
 Alabama Association of Nurse Anesthetists, Destin, FL, May 9.
- 2002 “Anesthesia Manpower and Anesthesia Assistants.” Virginia Association of Nurse Anesthetists,  
 Region 5. Richmond, VA, February 2.  
 “Research Proposal Critiques: Annihilation or Evaluation?” AANA Assembly of School Faculty,  
 Scottsdale, AZ, February 16.
- 2001 “The AANA Foundation Closed Claims Research Study.” Illinois Association of Nurse Anesthetists,  
 Chicago, IL, October 6.  
 “Rural Realities Revisited: Perioperative Care in Rural Illinois.” AANA Annual Meeting, San  
 Francisco, CA, August 16.  
 “Research Ethics and Peer Review.” AANA Writer's Workshop, Park Ridge, IL, May 21 & 22.  
 “AANA Foundation-Funded Research.” AANA Foundation Advocacy Workshop, Park Ridge, IL,  
 March 31.
- 2000 Graduation speaker, Ravenswood Hospital Medical Center Nurse Anesthesia Program, Chicago, IL.  
 “Management of the Difficult Pediatric Airway,” World Congress VI for Nurse Anesthetists,  
 Chicago, IL, August 9.  
 “The AANA Foundation Closed Claims Research Study – 2000” and “A Study of Clinical Decision  
 Making by CRNAs.” Clemson University Nurse Anesthesia Conference, Gatlinburg, TN, June 19.  
 “The AANA Foundation Closed Claims Research Study – 2000.” Illinois Association of Nurse  
 Anesthetists, Peoria, IL  
 “Surgery, Pain, and Immune Function” and “The Anesthetic Implications of HIV/AIDS Drug  
 Therapy,” Alabama Association of Nurse Anesthetists, Destin FL, May 5.  
 “Perioperative Care in Rural Illinois – Study Overview.” AANA Mid-Year Assembly, Arlington, VA,  
 April 18.  
 “How the AANA Foundation Supports Research.” AANA Assembly of School Faculty, Scottsdale,  
 AZ, February 26
- 1999 “Conscious Sedation,” *Nursing Spectrum* Career Fair. Oak Brook, IL, October 18  
 “A Study of Clinical Decision Making by CRNAs,” AANA Annual Meeting, Boston, MA, August 9.  
 “The Preoperative Pulmonary Assessment – Is This Patient at High Risk for Surgery?” New York  
 State Association of Nurse Anesthetists, Spring Meeting, Brooklyn, NY, May 3.

- “Anesthesia Risk” and “The AANA Closed Claims Study,” Charleston Anesthesia Conference. Medical University of South Carolina, Charleston, South Carolina, May 1.  
 “A Study of Clinical Decision Making by CRNAs,” University of Texas – Houston. Visiting Scholar, March 22-25.
- 1998 “Preoperative Identification of Pulmonary Risk Factors” and “Reactive Airways,” Metro Detroit CRNA Meeting, Southfield, MI.  
 “Anesthesia Tips for the ICU,” Greater Chicago Chapter, American Association of Critical Care Nurses.
- 1997 “Anesthesia Risk,” Kentucky-Indiana Nurse Anesthesia Meeting, French Lick, IN.  
 “Preoperative Assessment of Pulmonary Risk Factors,” AANA Annual Meeting, San Francisco.  
 “Risks and Benefits of Regional Anesthesia” & “Practical Points on Brachial Plexus Anesthesia,” Sycamore Anesthesia Services Meeting, Sycamore, IL.
- 1996 “Nurse Anesthesia as a Career,” National Student Nurses’ Association Mid-Year Conference, Chicago, IL.  
 “AANA Update,” IANA Fall Meeting, Oak Brook, IL.  
 “Collegiality,” IANA Spring Meeting, Peoria, IL
- 1995 “Reactive Airways” & “Care Shifts to Outpatient Settings,” Clemson University’s Smoky Mountain Conference for Nurse Anesthetists, Gatlinburg, TN.
- 1993 “Sedation by Infusion – A Clinical Trial in Cardiac Surgery Patients,” Regional Anesthesia Meeting, Coeur d’Alene, Idaho.
- 1992 “Sedation by Infusion – A Clinical Trial in Cardiac Surgery Patients,” AANA Annual Meeting, Denver.
- 1991 “Sedation by Infusion – A Clinical Trial in Cardiac Surgery Patients,” Poster Session, World Congress III for Nurse Anesthetists, Oslo, Norway.
- 1989 “Nurse Anesthesia in America,” Veteran’s General Hospital, Taipei, Taiwan.

## REFEREED PUBLICATIONS

- Matheson, E., Kremer, M., Fogg, L. & Crisanti, G. (2020). Ensuring accurate BP measurements. *Nursing*, April 2020, 50(4):63-69. Available at:  
[https://journals.lww.com/nursing/Fulltext/2020/04000/Ensuring\\_accurate\\_BP\\_measurements.17.aspx](https://journals.lww.com/nursing/Fulltext/2020/04000/Ensuring_accurate_BP_measurements.17.aspx)
- Horton, B. & Kremer, M. (2020). A commitment to quality: the history of nurse anesthesia accreditation, part one: 1930-1982. *AANA Journal*, 88(2): Available at: [https://www.aana.com/docs/default-source/aana-journal-web-documents-1/imagining-in-time-online-content-april-2020.pdf?sfvrsn=ac147c47\\_4](https://www.aana.com/docs/default-source/aana-journal-web-documents-1/imagining-in-time-online-content-april-2020.pdf?sfvrsn=ac147c47_4)
- Horton, B. & Kremer, M. (2020). A commitment to quality: the history of nurse anesthesia accreditation, part two: 1983-2019. *AANA Journal*, accepted for publication, 2/5/2020.
- Kremer, M., Hirsch, M., Giesz-Everson, M., Wilbanks, B., Clayton, B., Boust, R., Jordan, M. (2019). Preventable closed claims in the AANA Foundation closed malpractice claims database. *AANA Journal*, 87(6): 472-479.
- Hirsch, M., Giesz-Everson, M., Clayton, B., Wilbanks, B., Golinski, M., Kremer, M., Nicely, K. (2019). It’s never just a block: an analysis of regional anesthesia claims. *AANA Journal*, 87(5): 365-373.
- Rosenblatt, A., Kremer, M., Swanson, B. & Shah, R. (2019). Anesthesia exposure in the young child and long-term cognition: An integrated review. *AANA Journal*, 87(3): 231-242.

- Greiner, S., Kremer, M. (2019). AANA Journal Course: Update for nurse anesthetists – clarifying the confusion of adult emergence delirium. *AANA Journal*, 87(3): 243-251.
- Ward, R., Krogh, M., Kremer, M., Muckle, T. & Shoeny, M. (2019). The perceived value of nonsurgical pain management. *AANA Journal*, 87(1):29-36.
- Kremer, M. & Griffis, C. (2018). Update for nurse anesthetists – Evidence-based use of non-opioid analgesics. *AANA Journal*, 86(4):321-327.
- Ward R., Muckle, T., Kremer, M., Krogh M. (2017). Computer-based case simulations for assessment in health care: a literature review of validity evidence. *Eval Health Prof*, Jan 1:163278717718609. Doin: 10.1177/0163278717718609.
- Hawkins, R., Kremer, M., Swanson, B., Fogg, L., Pierce, P., Pearson J. Use of the Rasch model for initial testing of fit statistics and rating scale diagnosis for a general anesthesia satisfaction questionnaire. *J Nurs Meas*, 22(3):381-403.
- Hawkins, R., Swanson, B., Kremer, M. and Fogg, L. (2014). Content validity of questions for a patient satisfaction with general anesthesia care instrument. *Journal of PeriAnesthesia Nursing*, 29(1): 28-35.
- Hawkins, R., Swanson, B. Kremer, M. (2012). An integrative review of factors related to patient satisfaction with general anesthesia. *AORNJ*, 96(4): 368-376.
- Watts, D. & Kremer, M. (2011). Complex regional pain syndrome: an *AANA Journal* study course. *AANA J*, 79(6): 505-510.
- Griffis, C., Page, G., Kremer M., Yermal S. (2008). Implications of immune function to anesthesia care. *AANA Journal* course. *AANA Journal*, 76(6): 449-454.
- Kremer, M. & Fallacaro, M. (2008). Development of a position statement: the nurse anesthesia program administrator. *AANA Journal*, 76:12-16.
- Starnes-Ott, K. & Kremer, M. (2007). Recruitment and retention of nurse anesthesia faculty: issues and strategies. *AANA Journal*. 75:13-16.
- Kremer, M. & Litwin, M. (2006). Stop medication diversion in its tracks. *Men in Nursing*. 1:42-50.
- Paje, D. & Kremer, M. (2006). Perioperative implications of obstructive sleep apnea. *Orthopaedic Nursing Journal*. 25(5): 291-297.
- Kremer, M. & Blair, T. (2006). Ludwig angina: Forewarned is forearmed. *AANA Journal*. 74: 445-451.
- Fritzlen, T., Kremer, M. & Biddle, C. (2003). The AANA Foundation closed malpractice study on nerve injuries during anesthesia. *AANA Journal*, 71 (5): 347-352.
- Doyle, S. & Kremer, M. (2003). *AANA Journal* Course: Update for nurse anesthetists – Parkinson disease. *AANA Journal*, 71 (3): 229-234.
- Kremer, M., Faut-Callahan, M., Hicks, F. (2002). A study of clinical decision making by certified registered nurse anesthetists. *AANA Journal*. 70(5): 391-398.
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### Poster Presentations

- Kremer, M., Jordan, L. & Fogg, L. The AANA Foundation Office-Based Anesthesia Study. AANA Annual Meeting. Las Vegas, NV, August 6, 2013.
- Kremer M. & Wiley J. The evolution of doctoral education for CRNAs at Rush University. International Federation of Nurse Anesthetists. The Hague, The Netherlands, June 6, 2010.
- Kremer, M. Development of a nurse anesthesia program in a college of health professions. Associate of Schools of Allied Health Professionals. San Diego, CA. October 5, 2008.
- Kremer, M. Advancing Patient Safety Through Simulation: The RUSL Experience." Chicago Patient Safety Forum. Northwestern Memorial Hospital, Chicago, March 11, 2005.
- Kremer, M. & Jordan, L. "Data-Driven Practice Improvement: The AANA Foundation Closed Claims Study." Midwest Nursing Research Society, Grand Rapids, MI, April 6, 2003.
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**DISSERTATION COMMITTEES**

- Christianson, K. (2018). Emotional intelligence behaviors in student registered nurse anesthetists: validating the Genos intelligence inventory. Advisor and dissertation committee member. Rush University College of Nursing.
- Ward, R. (2018). The perceived value of non-surgical pain management certification. Advisor and dissertation committee member. Rush University College of Nursing.
- Tracy, A. (2016). Assessment of factors that facilitate role transition of nurses to the Certified Registered Nurse Anesthetist role. Dissertation reader. University of Wisconsin – Milwaukee.
- Greiner, S. (2015). Use of the Delphi technique to develop a definition for emergence delirium. Advisor. Dissertation committee member. Rush University College of Nursing, Chicago.
- McMullan, S. (2009). Examination of extubation criteria in obese pediatric surgical patients. Dissertation Committee Member, Rutgers, The State University of New Jersey.
- Osborne, L. (2006). Salivary cortisol as a biological marker for screening of enlisted submariners. Dissertation Committee Member, Rush University College of Nursing.
- Nezat, G. (2005). Establishment of a minimum essential medical information requirement for the United States Navy's common access card: A Delphi study. Advisor and Committee Chair, Rush College of Nursing.
- Willadsen, S. (2005). Fatigue and its correlated and their impact on functional performance in a community sample with COPD. Dissertation Committee Member.
- Cornelius, J. (2000). The effectiveness of an experiential learning method on nursing students' knowledge, attitudes, willingness, and perceived preparedness to provide care to HIV/AIDS patients. Advisor and Dissertation Committee Chair.
- Hand, W. (1998). A study of propofol and analgesia using a pneumatic tourniquet model. Committee Member. Rush University College of Nursing.

**DOCTOR OF NURSING PRACTICE PROJECTS**

- Abanco, F. (2017). Enhancing cultural competency in SRNAs. Rush University College of Nursing (Advisor).
- Alwali, H. & Iacopelli, B. (2019). Estimating blood loss: simulation-based training to improve visual blood loss estimation. Rush University College of Nursing (Advisor).
- Anderson, A. & Lacplesis, C. (2018). SRNA knowledge and skill development with neuraxial blocks. Rush University College of Nursing. (Advisor).
- Ballinger, B. (2015). Development of a mentoring and wellness program for SRNAs. Rush University College of Nursing. (Advisor).
- Berger, K. & Safrithis, J. (2016). Airway fire education: a simulation-based quality improvement initiative. Rush University Medical Center (Advisor).
- Bescheinen, R. (2016). Implementation of music therapy for preoperative anxiety: a quality improvement project at Rush-Oak Park Hospital. (Advisor).
- Bickman, J. (2019). Training ICU nurses on ultrasound-guided IV placement (Advisor).
- Bohling, B. & Zimmerman, L. (2018). SAT/SBT project to decrease time on ventilator for RUMC SICU and NSICU patients. (Advisor).
- Bond, B. (2015). Implementation of training on obstructive sleep apnea assessment for preoperative nurses at Skokie Hospital. (Advisor).
- Bond, A. & Czarny, J. (2016). Sellick's maneuver education in two populations (Emergency Medicine residents at Stroger Hospital of Cook County and the Lurie Children's Hospital transport team). (Advisor).
- Bowers, K. (2019). Implementation of rapid sequence induction checklist in the ICU at OSF St. Joseph Hospital, Normal, IL (Advisor).
- Brown, R. (2018). Development of a cognitive aid for SRNAs with essential drug information. Rush University College of Nursing. (Advisor).
- Cohen, B. (2018). Improved nurse anesthesia program information resources for SRNAs: SRNA Handbook update. Rush University College of Nursing. (Advisor).

- Cartwright, M. (2017). Use of a hybrid simulation model to teach peripheral IV placement skills in SRNAs. Rush University College of Nursing (Advisor).
- Cook, Dawn. (2015). Implementation of and training on crisis management resource tools for perioperative staff at MacNeal Hospital.
- Cook, Daniel. (2016). Anesthesia crisis resource management: assessment and treatment of the patient with malignant hyperthermia. A Rush University Medical Center quality improvement project. (Advisor).
- Cooper, C. (2015). Development of a protocol to reduce fresh gas flows at Porter Memorial Hospital (Advisor).
- Curry, S. (2015). Use of intraoperative hypnosis recordings as an adjunct to anesthesia care in the Rush SurgiCenter (Advisor).
- Darden, C. (2019). Stress and self-efficacy during the clinical transition period. Rush University College of Nursing (Advisor).
- Del Rosario, M. & Knunkel, J. (2018). Management of increased intracranial pressure and use of extra-ventricular drains for SRNAs. Rush University College of Nursing. (Advisor).
- Doheny, M. (2016). Implementation of the Burns Weaning Assessment Protocol in the Rush University Medical Center Neurosurgical Intensive Care Unit: a quality improvement project. (Advisor).
- Farmer, D. (2015). Implementation of an anesthesia to nursing staff handoff tool in the University of Chicago Medicine Neuro ICU.
- Fuller, A. (2017). Enhancing SRNA skills with rapid-sequence induction with a simulation model. Rush University College of Nursing. (Advisor).
- Gibson, A. & Sperling, K. (2016). Anesthesia to PACU handoff: a quality improvement project at Rush University Medical Center. (Advisor).
- Goroshio, C. & Lazaro, L. (2018). Enhancement of SRNA awareness regarding wellness and substance use disorder. Rush University College of Nursing. (Advisor).
- Gius, N. (2018). Quality improvement project with RUMCOR Pharmacy: Capturing neostigmine costs on anesthesia Pyxis machines. (Advisor).
- Hayden, M. (2018). Enhancing SRNA knowledge and skills on the placement of continuous spinal-epidural blocks. Rush University College of Nursing. (Advisor).
- Herman, A. (2018). Development of an online database to provide clinical information and tips for SRNAs. Rush University College of Nursing. (Advisor).
- Hessler, M. & Ott, C. (2019). Implementation of the STOP-BANG questionnaire. Rush University Medical Center. (Advisor).
- Hoang, A. & Pflum, J. (2018). Review of the ASA Difficult Airway Algorithm with emphasis on the surgical airway: workshop with didactic and tissue lab components. Rush University College of Nursing. (Advisor).
- Holbrook, A. & Rylko, S. (2018). Anesthesia crisis resource management: diagnosis and treatment of malignant hyperthermia. Rush University College of Nursing. (Advisor).
- Howard, J. (2019). Crisis management protocol implementation at Stroger Hospital of Cook County (Advisor).
- Huddleston, B. (2018). Quality improvement project with OR Pharmacy on the appropriate dosing of local anesthetics in the RUMC operating room. Rush University College of Nursing. (Advisor).
- Hughes, L. & Hewlett, K. (2019). Anesthesia crisis resource management: power failure in the O.R. Rush University Medical Center. (Advisor).
- Human, R. (2017). Enhancing anesthesia to PACU handoff: a quality improvement project at NorthShore Skokie Hospital. (Advisor).
- Hunter, S. (2017). Teaching SRNAs emergency airway management skills: surgical airway, using a hybrid simulation model. Rush University College of Nursing. (Advisor).
- Husted, C. & Hynes, M. (2018). Anesthesia crisis resource management: diagnosis and treatment of post-partum hemorrhage. Rush University College of Nursing. (Advisor).
- Jahn, E. (2016). Implement of a postoperative pain management order set in the Rush University Medical Center Surgical Intensive Care Unit: a quality improvement project. (Advisor).
- Jekli, E. (2018). Strategies to enhance graduate performance on the national certification exam, using the New Science of Learning text. Rush University College of Nursing. (Advisor).
- Ji, J. (2019). Improving the study habits of DNP-CRNA students. Rush University College of Nursing. (Advisor).



- Kanners, J. (2018). Quality improvement project: use of ultrasound guided peripheral IV placement. Rush University College of Nursing (Advisor).
- Karabinos, K. (2017). Ultrasound-guided assessment of gastric content volume. Rush University Medical Center. (Advisor).
- Khapekar, R. (2017). Enhanced training in management of complications related to neuraxial block placement. Rush University Medical Center. (Advisor).
- Kirori, M. (2017). Education of RUMC MICU nurses on the care of high-risk OB patients. Rush University Medical Center. (Advisor).
- Lancer, A. (2017). Enhancing SRNA skills with rapid-sequence induction with a simulation model. Rush University College of Nursing. (Advisor).
- Lange, E. (2017). RUMCCICU quality improvement initiative: use of appropriate-sized blood pressure cuffs. Rush University Medical Center. (Advisor).
- Lathitham, C. (2015). Development of a protocol to identify and track patients with difficult airway management issues at Rush-Oak Park Hospital (with M. Millichap).
- Lubenow, M. (2018). Sonoanatomy as applied to ultrasound-guided peripheral nerve blocks. Rush University College of Nursing. (Advisor).
- Martinez, A. (2019). Anesthesia crisis resource management. Rush University Medical Center. (Advisor).
- Millichap, M. (2015). Development of a protocol to identify and track patients with difficult airway management issues at Rush-Oak Park Hospital (with C. Lathitham).
- Mitchell, W. & Martin, L. (2019). Stress reduction strategies for SRNAs beginning clinical residency. Rush University College of Nursing. (Advisor).
- O'Connor, D. (2019). Anesthesia crisis resource management: review indications and technique for surgical airway management. Rush University College of Nursing. (Advisor).
- Ragsdale, K. (2019). Anesthesia crisis resource management: local anesthetic systemic toxicity. Rush University College of Nursing. (Advisor).
- Ruggiero, M. Implementation of training on obstructive sleep apnea assessment for anesthesia providers at Skokie Hospital (Advisor).
- Strajack, S. (2016). Anesthesia crisis resource management: assessment and treatment of the patient with malignant hyperthermia. Quality improvement project at Rush University Medical Center. (Advisor).
- Vanderpuije, M. (2015). Implementation of an anesthesia to nursing staff handoff process at University of Chicago Medicine (with D. Farmer).
- Wagner, L. (2015). Enhancement of radiation safety measures for anesthesia providers at Rush University Medical Center (Advisor).
- Walker, A. (2019). Training perioperative staff on the diagnosis and treatment of malignant hyperthermia via human patient simulation. Rush University Medical Center. (Advisor).
- Wallin, S. (2015). Development of a mentorship and wellness program for SRNAs. Rush College of Nursing (with B. Ballinger) (Advisor).
- Washek, A. (2017). Reducing perioperative opioid use. Rush University Medical Center. (Advisor).
- White, J. (2015). Implementation of crisis management protocols for anesthesia providers at MacNeal Memorial Hospital.
- White, M. (2013). Development of a human patient simulation laboratory. (Advisor).
- Nevills, K. (2012). Development of radiation safety education for clinicians utilizing image-guided techniques for invasive procedures.
- Slowikowski, R. & Przygodzka, R. (2009). Promoting professional practice of certified registered nurse anesthetists at Rush University Medical Center. (Second Reader).
- Hinson, S. (2009). The integration of music therapy into anesthesia care at Laser Spine Institute. (Second Reader).
- Schwartz, P. (2009). Nurse anesthesia clinical faculty development. (Advisor)
- White, K. (2005). A model for evaluating the cost-effectiveness of various staffing patterns at a Veteran's Affairs anesthesia department. (Advisor).
- Rieker, M. (2003). Marketing plan for Life Line Pilots (Advisor).
- Stark, P. (2001). Perioperative care in rural Illinois. (Advisor).

Hirschman, D. & Morby, L. (2001). A study of the safety of continued anticoagulation therapy for cataract surgery patients. Co-directed project with Dr. Margaret Faut-Callahan.

### **COMMUNITY ACTIVITIES**

Volunteer for “Kids First Health Fair,” Waukegan Public Schools, Waukegan, IL, August 5, 2008.

Volunteer for “Dream Halloween” fundraiser for Children Affected by AIDS Foundation, Chicago, 2002.

### **LEGAL CONSULTATION**

### **EDUCATIONAL CONSULTATION**

### **LICENSURE**

Illinois Registered Professional Nurse, #41-18393, expires 7/31/2020.

Illinois Licensed Advanced Practice Nurse, #209-000455, expires 7/31/2020.

Illinois Licensed Advanced Practice Nurse Controlled Substance, #309-006216, expires 7/31/2020.

DEA MLP-Nurse Practitioner, #MK2796108, expires 12/31/2020.

### **CERTIFICATIONS**

National Board of Certification and Recertification for Nurse Anesthetists: recertified through 7/31/2020

### **REFERENCES**

Available on request.