Terry C. Wicks CRNA, DNP, MHS, BSN

111 Windsor Street, POB 910

Rutherford College, North Carolina 28671-0910

Fellow American Association of Nurse Anesthetists

#### Civilian Education

University of Iowa

College of Nursing

Iowa City, Iowa. 1977-1981 BS Nursing

Texas Wesleyan University

Fort Worth, Texas

1984-1985 Masters in Health Sciences

University of Iowa

College of Nursing

Iowa City, Iowa. 2016-2018 Doctorate in Nursing Practice

**Military Education and Training**

X-ray Technologist Course

Academy of Health Sciences

Fort Sam Houston, Texas 1973 Diploma

AMEDD Officer Basic Course

Fort Sam Houston, Texas 1982

Certificate of completion

Anesthesiology for Army Nurse Corps Officers Phase I

Fort Sam Houston, Texas 1984-1985

Anesthesiology for ANC Officers Phase II

Fitzsimons Army Medical Center

Aurora, Colorado. 1985-1986 Diploma

AMEDD Officers Advanced Course

Academy of Health Sciences

Fort Sam Houston, Texas. 1988

Clinical Head Nurses Course

Academy of Health Sciences

Fort Sam Houston, Texas. 1988

Medical Management of Chemical Casualties Course

Aberdeen Proving Ground

Aberdeen, Maryland. 1991

Faculty Development Course

USAMEOS Fitzsimons Army Medical Center

Aurora, Colorado, 1991

**Professional Experience**

**Current Position:** Assistant Clinical Professor

University of North Carolina at Greensboro

Adult Health Nurse Anesthesia Concentration

Greensboro, NC 27412

**UNCG Courses Taught**: Pharmacology for Nurse Anesthesia I-IV

 Pulmonary Pathophysiology

 Cellular Pathophysiology

 Applied Evidence-Based Practice & Translational Methods

Staff CRNA, PRN basis

Carolina Anesthesia Associates

Hickory, NC 2020-21

Staff CRNA, Obstetric & Surgical Anesthesia Service

Catawba Valley Medical Center

Hickory, NC 2005-2018

Director, Anesthesia Department

Catawba Valley Medical Center

Hickory, North Carolina 2001-2005

Assistant Director, Anesthesia Department

Catawba Valley Medical Center

Hickory, North Carolina 1998-2001

Director, Anesthesia Department

Grace Health Care System

Morganton, North Carolina 1995-1998

Assistant Director, Anesthesia Department

Grace Health Care System

Morganton, North Carolina 1992-1995

Assistant Course Director PRN Staff Anesthetist

U.S. Army/Texas Wesleyan University Labor and Delivery Anesthesia Service

Program in Anesthesia Nursing Lutheran Medical Center

Fitzsimons Army Medical Center Wheatridge, Colorado 1991-1992

Aurora, Colorado 1991-1992

Instructor & Clinical Faculty

Anesthesiology for Nurse Corps Officers Course

Fitzsimons Army Medical Center

Aurora, Colorado 1991

Staff Anesthetist/Clinical Faculty

Fitzsimons Army Medical Center

Aurora, Colorado 1990-1991

Staff Anesthetist/Clinical Faculty

Tripler Army Medical Center

Honolulu, Hawaii 1987-1990

Staff Nurse Recovery Room

Brooke Army Medical Center

Fort Sam Houston, Texas 1984

Staff Nurse Cardiothoracic Surgery

Brooke Army Medical Center

Fort Sam Houston, Texas 1982-1984

Staff Nurse Surgical Intensive Care

University of Iowa Hospital

Iowa City, Iowa 1981-1982

#### Military Awards and other Awards

National Defense Medal 1973, 1991

U.S. Army Service Ribbon 1982

U.S Army Commendation Medal 1986, 1992

Tripler Army Medical Center Community Service Award 1989

Overseas Service Ribbon 1990

Meritorious Service Medal 1991

U.S. Army Ideas for Excellence Award 1991

University of Iowa College of Nursing Distinguished Alumni Service Award 2007

**Licenses & Certifications**: R.N. North Carolina 1991-present, CRNA 1987-present

**Memberships & Service to the Profession**

*American Association of Nurse Anesthetists. 1984-Present*

Regional Anesthesia Task Force 1991-92

Practice Committee 2000-01

AANA Foundation Program Workshop Review Committee 2000-01

Program Committee 2001-02

CRNA-Political Action Committee 2002-03

Strategic Planning Committee 2002-07

AANA Region 2 Director FY 2003-04

Continuing Education Task Force 2003

Ad Hoc Awards Committee 2004

AANA Vice President FY 2004-05

AANA Finance Committee 2005-08, Chair FY 2008

AANA Association Management Services, Inc. Director 2005-07

AANA President Elect FY 2005-06

AANA Foundation FY 2004-6 Board Trustee

AANA President FY 2006-07

AANA Meetings Task Force FY 2009, Chair

AANA Wellness Committee FY 2010-11, Chair

AANA Presidential Wellness Task Force 2010 Chair

AANA Wellness and Chemical Dependency Curriculum Task Force, 2010-11, Chair

*National Board for Certification and Recertification of Nurse Anesthetists*

Council on Certification of Nurse Anesthetists Self Evaluation Committee 1997-00

Council on Certification of Nurse Anesthetists Certification Examination Committee 2001-02

NBCRNA Continuing Professional Certification Committee, 2011-15

NBCRNA CPC Professional Activity/Continuing Education Subcommittee Chair 2012-14

NBCRNA Program Evaluation Panel 2015-16

NBCRNA Alpha Phase Item Review and Standard Setting Panel 2018

NBCRNA Board of Directors, 2016-21

Liaison to the AANA Board of Directors 2016-19

NBCRNA Communications Committee, Chair 2016-20

NBCRNA Finance Committee

NBCRNA Vice President 2017-2019

NBCRNA President 2019-20

NBCRNA ERAC Value and Satisfaction Sub-Committee Member 2021

NBCRNA Leadership Development and Nominating Committee Member 2020-21

NBCRNA Liaison to the AANA Continuing Education Committee 2020-22

*Hawaii Association of Nurse Anesthetists. 1987-1990*

Nominating Committee Chair 1988 Public Relations Committee Ch 1989

Bylaws Committee Chair 1989, President Elect 1989, President 1990

*Colorado Association of Nurse Anesthetists. 1991-1992*

*North Carolina Association of Nurse Anesthetists. 1992-Present*

Director Educational District IV, 1994-95

Government Relations Committee 1995-98, 00-01

Strategic Planning Committee 1995-01, Chair 1998-00,

Bylaws Committee, Chair 00-02

Finance Committee 1997-98

Program Committee Co-Chair 2000 Meeting, Chair 2011 Meeting

President Elect 1996-97

President 1997-98

Vice President 2000-01

*Member Sigma Theta Tau International 2018-21*

*North Carolina Nurses Association 1997-03, 2019-21*

*American Nurses Association, 2019-21*

*American Association of University Professors, 2021*

**Other Professional Activities**

JCAHO Medication Reconciliation Summit Attendee, Rosemont IL, September 2007

National Quality Forum, Clinician Level, Non-Physician Professionals Steering Committee.

Appointment 2007. Meeting, Washington, D.C. January 29-30, 2008

Reviewer: Journal of Peri-Anesthesia Nursing. 2018-21

**Professional Publications & Papers**:

The Priming Principle: A Comparison of Atracurium, Vecuronium, and Succinylcholine (unpublished).

Contamination of Central Gas Supplies: Letter to the Editor, *AANA Journal* June 1988 56 (3) p. 277

Excision of an Arteriovenous Malformation: A Case Report. *AANA Journal* June 1991.

Hemostasis and Hemodynamics During Intranasal Surgery: The Effects of Cocaine, Epinephrine, and Oxymetazoline. *AANA Journal* December 1992.

Mivacurium Chloride: Clinical Review. *Nurse Anesthesia* December 1992.

The Pharmacology of Rocuronium (ORG 9426). *AANA Journal* February 1994.

Ropivacaine: A New Local Anesthetic. *CRNA* October 1995.

Clinical Techniques of Regional Anesthesia. Spinal and Epidural Blocks. American Association of Nurse Anesthetists. 1993, 1996, 2004.

Magnesium Homeostasis and Deficiency. AANA Journal April 1999.

Pharmacology of Local Anesthetics, In: Ouellette RG, and Joyce JA, Pharmacology for Nurse Anesthetists, Jones and Bartlett Learning, Sudbury, Massachusetts, 2010.

Wellness Milestones: Reducing the Cost of AANA Leadership. AANA News Bulletin. November, 2011. Coauthor with Dr. Anthony Chipas, CRNA.

Benchmarking Study on Continuing Certification in Healthcare and Allied Health Fields: Program Variables, Commonalities, and Trends. *Journal of Nursing Regulation* July 2021 12(2) 34-40.

**Professional Presentations**:

Hawaii Association of Operating Room Nurses Symposium 1989:

Disseminated Intravascular Coagulopathy

Local Anesthesia for Intranasal Surgery

A.A.N.A. Annual Meeting 1990, Boston, MA

 Clinical Faculty-Epidural/Spinal Anesthesia Workshop

 Clinical Faculty Brachial Plexus Anesthesia Workshop

Tripler Army Medical Center 4th Annual Research Conference (1990) Honolulu, HI

Hemostasis and Hemodynamics During Intranasal Surgery: The Effects of Cocaine, Oxymetazoline, and Epinephrine

Colorado Association of Nurse Anesthetists Fall Meeting 1991, Denver CO

Hemostasis and Hemodynamics During Intranasal Surgery: The Effects of Cocaine, Oxymetazoline, and Epinephrine

Idaho Association of Nurse Anesthetists Spring Meeting 1992 "Classical Gas", Boise, ID

Hemostasis and Hemodynamics during Intranasal Surgery: The Effects of Cocaine, Oxymetazoline, and Epinephrine

 Mivacurium Chloride: A Brief Review

AANA Annual Meeting. Denver, Colorado. 1992

 Magnesium Deficiency and Its Cardiovascular Effects

 Clinical Faculty-Epidural/Spinal Anesthesia Workshop

Northwest Regional Anesthesia Meeting 1992 Coure d'Alene, ID

 Epidural Analgesia for Labor and Delivery

 Post Dural Puncture Head: A Brief Update

Sun and Fun in Arizona 1993: 1993 Anesthesia Educational Session. Scottsdale, AZ

 Magnesium Imbalance and Its Cardiovascular Effects

 Comparison of Two New Muscle Relaxants: Mivacurium and Rocuronium

Washington Association of Nurse Anesthetists Spring Meeting 1993, Seattle, WA

 Comparison of Two New Muscle Relaxants: Mivacurium and Rocuronium

AANA Foundation Spinal/Epidural Workshop Faculty 1993-2008

Spinals & Epidurals at Sea: Didactic and Clinical Faculty, 1998, 1999.

Alabama Association of Nurse Anesthetists Fall Meeting 1993, Guntersville, AL

Comparison of Two New Muscle Relaxants: Mivacurium & Rocuronium

 Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

Oregon Association of Nurse Anesthetists Fall Meeting 1993, Portland, OR

 Comparison of Two New Muscle Relaxants: Mivacurium & Rocuronium

 Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

FANA Ocala Winter Meeting 1994, Ocala, FL

 Comparison of Two New Muscle Relaxants: Mivacurium & Rocuronium

 Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

North Carolina District IV Ski and Learn 1994, Boone, NC

 Comparison of Two New Muscle Relaxants: Mivacurium & Rocuronium

 Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

West Virginia Association of Nurse Anesthetists 1994 Annual Meeting at the Greenbrier WV

 Mivacurium Chloride: A Two-Year Review

 Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

U.S. Army Post Graduate Professionals Course 1994. San Antonio, TX

 Mivacurium Chloride: A Two-Year Review

 Essential Pharmacokinetics of Injected Drugs

Smoky Mountain Conference for Nurse Anesthetists, 1994. Gatlinburg, TN

 An Introduction to Rocuronium

 Essential Pharmacokinetics of Injected Drugs

North Carolina Association of Nurse Anesthetist Fall Meeting 1994, Chapel Hill, NC

 Theory and Principles of Spinal/Epidural Anesthesia

 Complications of Spinal/Epidural Anesthesia

Alabama Association of Nurse Anesthetists Annual Fall Meeting 1994, Birmingham, AL

 An Introduction to Rocuronium

Spinal Anesthesia Workshop at Moses H. Cone Memorial Hospital 1995. Greensboro, NC

 Theory and Principles of Spinal Anesthesia, Spinal Anesthesia for Cesarean Section

 Documentation of Regional Anesthesia, Technique of Spinal Anesthesia

Michigan Association of Nurse Anesthetists Spring Meeting 1995, Detroit, MI

 Anesthesia for the Upper Extremity, Interscalene and Axillary Approach

 Upper Extremity Block Hands On Workshop

AANA Annual Meeting, Minneapolis, Minnesota. 1995

 Indications and Contraindications for Spinal and Epidural Anesthesia

 Pharmacology of Local Anesthetic Agents

Spinal Anesthesia Workshop at Duke University Medical Center 1995

Theory and Principles of Spinal Anesthesia

Spinal Anesthesia For Cesarean Section

 Documentation of Regional Anesthesia

 Technique of Spinal Anesthesia

Virginia Association of Nurse Anesthetists Annual Fall Meeting 1995. Charlottesville, VA

 Strategies for Surviving Managed Care

 Introduction to Ropivacaine

NCANA District IV Educational Meeting, Asheville, NC 1996

 Introduction to Ropivacaine

NCANA Spring Meeting 1996, Greensboro, NC

 Theories & Principles of Spinal Anesthesia

 Complications of Spinal Anesthesia

Virginia Association of Nurse Anesthetists Spring Meeting, 1996. San Juan PR

Theories & Principles of Spinal and Epidural Anesthesia

 Basic Elements of Acute Pain Management

AANA Annual Meeting, Philadelphia, Pennsylvania, 1996

Indications and Contraindications for Spinal and Epidural Anesthesia

 Pharmacology of Local Anesthetic Agents

 Magnesium Level-Does It Affect Outcome?

Epidural Anesthesia Workshop at Duke University Medical Center 1997

 Indications & Contraindications to Epidural Anesthesia

 Complications of Epidural Anesthesia

 Basic Principles of Acute Pain Management

 Epidural Anesthesia for Cesarean Section

Illinois Association of Nurse Anesthetists Spring Meeting 1997

 Epidural Analgesia for Vaginal Delivery

NCANA District II Educational Meeting January 1998, Greensboro, NC

NCANA Update

 Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

NCANA District IV Educational Meeting February 1998. Hickory, NC

 NCANA Update

 Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

Spinal & Epidural Anesthesia Workshop at Durham Regional Hospital 1998

 Indications & Contraindications for Spinal & Epidural Anesthesia

 Complications of Spinal & Epidural Anesthesia

Alabama Spring Meeting San Destin FL, April 1998

 Introduction to Ropivacaine

 Evaluation of Upper Extremity Blocks

NCANA District I Educational Meeting May 1998. Wrightsville Beach, NC

NCANA Update

 Value Based Anesthesia Practice

Foundation for Professional Education Annual Regional Anesthesia Mtg. Jekyll Island, GA June 1998

 Indications & Contraindications for Spinal & Epidural Anesthesia

 Complications of Spinal & Epidural Anesthesia

AANA Annual Meeting Pre-Convention Workshop 1998. Nashville, TN

Safety, Costs, & Advantages of Regional Anesthesia: View from the Community Hospital

NCANA District III Educational Meeting September 1998. Charlotte, NC

NCANA President’s Update

South Carolina Association of Nurse Anesthetists Fall Meeting 1998

Magnesium Level: Does It Affect Outcome?

Value Based Anesthesia Practice

Iowa Association of Nurse Anesthetists Fall Meeting 1998

Local Anesthetics: Introduction to Ropivacaine

Evaluation and Supplementation of Upper Extremity Blocks

Sun and Fun in Arizona: 1999 Anesthesia Educational Session. Scottsdale, AZ

 Evaluation and Supplementation of Upper Extremity Blocks

West Virginia Association of Nurse Anesthetists Spring Meeting at the Greenbrier 1999

 The Pharmacology of Local Anesthetics

 Evaluation and Supplementation of Upper Extremity Blocks

Alabama Association of Nurse Anesthetists Spring Meeting. San Destin Beach FL 1999

 Theories and Principles of Spinal and Epidural Anesthesia

NCANA District IV Educational Meeting, Blowing Rock, NC May 1999

 Introduction to Rapacuronium

Louisiana Association of Nurse Anesthetists Fall Meeting, Baton Rouge, LA September 1999

 Introduction to Rapacuronium

 BIS Monitoring: Theories, Principles, and Clinical Applications

North Carolina Association of Post Anesthesia Nurses, Hickory. NC October, 1999

 Armblocks for Dummies

Organon Dinner Meeting, Memphis TN. October, 1999

 Introduction to Rapacuronium

Maryland Association of Nurse Anesthetists Fall Meeting, Ocean City Maryland. October, 1999

 BIS Monitoring: Theories, Principles, and Clinical Applications

 The Pharmacology of Local Anesthetics

 Evaluation and Supplementation of Upper Extremity Blocks

Spinal Anesthesia Workshop at Rex Hospital, Raleigh, NC. November, 1999, January 2000.

 Indications, Contraindications, and Complications of Spinal Anesthesia.

Organon Dinner Meeting, Knoxville, TN. December, 1999

 Introduction to Rapacuronium

NCANA District III Meeting, Charlotte, NC March 5, 2000

 Introduction to Rapacuronium

West Virginia Assn of Nurse Anesthetists Spring Meeting. The Greenbrier, WV. March 2000

 The Pharmacology of Local Anesthetics

 Evaluation and Supplementation of Upper Extremity Blocks

AANA Upper Extremity Workshop. June 2000

 Evaluation & Touch Up of Upper Extremity Blocks

Wisconsin Association of Nurse Anesthetists Fall Meeting 2000, Eau Claire, WI

 Evaluation and Supplementation of Upper Extremity Blocks

Kansas Association of Nurse Anesthetists Fall Meeting 2000, Salina KS

 Pharmacology of Local Anesthetics

 Safety, Costs, & Advantages of Regional Anesthesia: View from the Community Hospital

Kentucky Association of Nurse Anesthetists Annual Meeting 2001, Louisville, KY

 Pharmacology of Local Anesthetics

 Evaluation and Supplementation of Upper Extremity Blocks

Minneapolis School of Anesthesia Regional Anesthesia Weekend June, 2001

 Pharmacology of Local Anesthetics

 Evaluation and Supplementation of Upper Extremity Blocks

 Popliteal Fossa and Ankle Blocks

Texas Association of Nurse Anesthetists Fall Meeting, September 2001, Galveston, Texan

 Regional Anesthesia in the Outpatient Setting

 Evaluation of Femoral, Sciatic, and Psoas Compartment Blocks

 Popliteal Fossa and Ankle Blocks

Louisiana Association of Nurse Anesthetists Fall Meeting 2001, Alexandria Louisiana

 Pharmacology of Local Anesthetics

 Evaluation and Supplementation of Upper Extremity Blocks

North Carolina Association of Nurse Anesthetists Annual Meeting, October, 2001 Boone NC

 Perioperative Hypothermia: An old Nemesis Revisited

Spinal and Epidural Anesthesia Workshop at Durham Regional Hospital, February 2002

 Indications and Contraindications to Spinal and Epidural Anesthesia

 The Pharmacology of Local Anesthetics

 Complications of Spinal and Epidural Anesthesia

NCANA District IV Meeting, Asheville, NC, May 2002

 Perioperative Hypothermia: An Old Nemesis Revisited

Upper Extremity Anesthesia Workshop, Duke University Medical Center Nurse Anesthesia Program, September, 2002

 Pharmacology of Local Anesthetics

Ohio Association of Nurse Anesthetists Meeting, Dublin, Ohio, September 2002

 Pharmacology of Local Anesthetics

 Evaluation and Supplementation of Upper Extremity Blocks

 Coagulation and Regional Anesthesia

Minnesota Association of Nurse Anesthetists Fall Meeting, October 2002, Minneapolis, Mn

 Pharmacology of Local Anesthetics

 Indications and Contraindications for Spinal and Epidural Anesthesia

 Complications of Spinal and Epidural Anesthesia

Louisiana Association of Nurse Anesthetists Fall Meeting, New Orleans LA, October 2002

 Pharmacology of Local Anesthetics

 Evaluation of Femoral, Sciatic, and Psoas Compartment Blocks

 Popliteal Fossa and Ankle Blocks

North Carolina Association of Nurse Anesthetists Fall Meeting, Wilmington, NC October 2002

 AANA Region 2 Directors Update

Michigan Anesthesia Seminars at Copper Mountain. January, 2003

 Anatomy for Brachial Plexus Anesthesia

 Technique of Brachial Plexus Anesthesia

 Anatomy for Lumbar Plexus Anesthesia

 Technique for Lumbar Plexus Anesthesia

Minneapolis School of Anesthesia Regional Anesthesia Workshop, March 2003

 Pharmacology of Local Anesthetics

 Evaluation and Supplementation of Upper Extremity Blocks

 Evaluation of Femoral, Sciatic, and Psoas Compartment Blocks

 Popliteal Fossa and Ankle Blocks

West Virginia Association of Nurse Anesthetist Spring Meeting at the Greenbrier, March 2003

 Perioperative Hypothermia: An old Nemesis Revisited

 AANA Region 2 Update

North Dakota Association of Nurse Anesthetists Spring Meeting, Fargo ND April 5, 2003

 Pharmacology of Local Anesthetics

 Evaluation and Supplementation of Upper Extremity Blocks

Oklahoma Arkansas CRNA Getaway April 12 2003

 Pharmacology of Local Anesthetics

 Anatomy for Upper Extremity Regional Anesthesia

 Technique of Upper Extremity Regional Anesthesia

 Evaluation and Supplementation of Upper Extremity Blocks

Alabama Association of Nurse Anesthetists Meeting at San Destin, May 2003

 Pharmacology of Local Anesthetics

 Evaluation and Supplementation of Upper Extremity Block

Kentucky Association of Nurse Anesthetists Spring Meeting, May 2003

 AANA Region 2 Update

 Anatomy for Upper Extremity Regional Anesthesia,

Technique of Upper Extremity Regional Anesthesia

Coast to Coast Regional Anesthesia Workshop, Sand Key, Florida May 2003

 AANA Update

 Clinical Applications of Spinal and Epidural Anesthesia

 Technique and Dosing for Spinal Anesthesia

NCANA Fall Meeting, Myrtle Beach, South Carolina, September 2003

 AANA Update

SCANA Fall Meeting, Columbia, South Carolina, September 2003

 Coagulation and Regional Anesthesia

 AANA Update

GANA Fall Meeting, Atlanta, Georgia, October 2003

 AANA Update

Virginia Fall Meeting, Virginia Beach, November 2003

 AANA Update

Coast to Coast Anesthesia Seminars Las Vegas February 2004

 Clinical Applications for Spinal and Epidural Anesthesia

 AANA Update

 Lower Extremity Blocks at the Knee and Ankles

 Hands on Clinical Workshop

North Carolina Association of Nursing Students Spring Meeting 2004

 More than Passing Gas: The Practice of Nurse Anesthesia

 Politics, Policy, and the Future of Nursing Anesthesia

South Carolina Association of Nurse Anesthetists Spring Meeting March 2004

 Perioperative Hypothermia, An Old Nemesis Revisited

 AANA Update

West Virginia Association of Nurse Anesthetists Spring Meeting 2004 The Greenbrier

 Lumbar Plexus Anesthesia

Wisconsin Association of Nurse Anesthetists Spring Meeting 2004, Stevens Point, Wisconsin

 Pharmacology of Local Anesthetics

 Coagulation and Regional Anesthesia

 AANA Update

 Evaluation and Supplementation of Upper Extremity Regional Blocks

Lower Alabama Continuing Education Seminars Spring Meeting 2004, Point Clear Alabama

 Pharmacology of Local Anesthetics

 Coagulation and Regional Anesthesia

 Blocks at the Knee and Ankle

 AANA Update

 Evaluation and Supplementation of Upper Extremity Regional Blocks

 Hands On Upper & Lower Extremity Regional Anesthesia

US Army Regional Anesthesia Workshop, Fort Meade, MD. 2004

 Pharmacology of Local Anesthetics

 Blocks at the Knee and Ankle

 Evaluation and Supplementation of Upper Extremity Regional Blocks

 Hands On Upper Extremity Regional Anesthesia

 Hands On Lower Extremity Regional Anesthesia

Oklahoma Association of Nurse Anesthetists Spring Meeting, Tulsa, May 2004

 Pharmacology of Local Anesthetics, Complications of Regional Anesthesia

 Evaluation and Supplementation of Upper Extremity Regional Blocks

 Blocks at the Knee and Ankle

 Hands On Upper Extremity Regional Anesthesia

Michigan Association of Nurse Anesthetists Spring Meeting, Dearborn, May 2004

 Pharmacology of Local Anesthetics

 Coagulation and Regional Anesthesia

Minneapolis School Of Anesthesia Regional Anesthesia Workshop July 2004

 Pharmacology of Local Anesthetics

 Evaluation and Supplementation of Upper Extremity Regional Blocks

 Evaluation of Lower Extremity Blocks

 Popliteal Fossa and Ankle Blocks

Spinal And Epidural Workshop Mississippi Assn of Nurse Anesthetists Biloxi, Ms July 2004

 Indications and Contraindications for S/E Anesthesia

 Complications of Spinal and Epidural Anesthesia

 AANA Update

 PONV and Regional Anesthesia

 Hands on Workshop with Life Form Mannequins

South Dakota Association of Nurse Anesthetists Fall Meeting, Sioux Falls, September 2004

 Pharmacology of Local Anesthetics

 PONV and Regional Anesthesia

 Coagulation and Regional Anesthesia

 AANA Update

Duke University Nurse Anesthesia Program October 2004

 Pharmacology of Local Anesthesia

Coagulation and Regional Anesthesia

New Mexico Association of Nurse Anesthetists Fall Meeting, Albuquerque, October 2004

 Anatomy and Technique of Brachial Plexus Anesthesia

 Evaluation and Supplementation of Upper Extremity Blockade

 Pharmacology of Local Anesthetics

 Coagulation and Regional Anesthesia

 AANA Update 2004

Coast to Coast Anesthesia Seminars: Las Vegas, February 2005

 AANA Update

 Complications of Regional Anesthesia

 Pharmacology of Local Anesthetics

Wake Forrest University Baptist Medical Center Program for Nurse Anesthesia

 Evaluation and Supplementation of Upper Extremity Regional Anesthesia

 Complications of Regional Anesthesia

 Evaluation of Lower Extremity Anesthesia

 Regional Anesthesia at the Knee and Ankle

 Hand on Lab for Upper and Lower Extremity Regional Anesthesia

Sun and Fun in Arizona, AZANA Spring Meeting, March 17th 2005

 Pharmacology of Local Anesthetics

 Anatomy and Technique of Upper Extremity Anesthesia

 Coagulation and Regional Anesthesia

 Complications of Regional Anesthesia

 Evaluation and Supplementation of Upper Extremity Regional Anesthesia

Pennsylvania Association of Nurse Anesthetists Spring Meeting, Hershey PA, April 9th 2005

 When Being Cool Isn’t Cool, Keeping Your Patient Warm

Kentucky Association of Nurse Anesthetists Spring Meeting, Louisville, Ky May 2005

 Coagulation and Regional Anesthesia

 AANA Update

Coast to Coast Anesthesia Seminars, Clearwater, Florida May 2005

 AANA Update

 Evaluation and Supplementation of Upper Extremity Regional Anesthesia

 Complications of Regional Anesthesia

 Pharmacology of Local Anesthetics

 Coagulation of Regional Anesthesia

Lower Alabama Continuing Education Seminars, Perdido Beach Resort, June 2005

 AANA Update 2005

 Pharmacology of Local Anesthesia

 Coagulation and Regional Anesthesia

 Evaluation and Supplementation of Upper Extremity Regional Anesthesia

 Knee and Ankle Blocks

NCANA/VANA Combined Fall Meeting, Williamsburg VA, September 2005

 What’s New in Spinal and Epidural Anesthesia

 Coagulation and Regional Anesthesia

NCANA District III & IV Spring Meeting, Charlotte , NC. March 4, 2006

 The Pharmacology of Local Anesthetics

 Evaluation and Supplementation of Upper Regional Anesthesia

Arizona Association of Nurse Anesthetists Spring Meeting, March 23, 2006 Scottsdale, Arizona

 AANA Update

 Hypothermia, An Old Nemesis Revisited

 Pharmacology of Local Anesthetics

 Awareness Under General Anesthesia

 Knee and Ankle Blocks

Ohio Association of Nurse Anesthetists Spring Meeting, March 25, 2006, Columbus, Ohio

 Hypothermia, An Old Nemesis Revisited

 Awareness Under General Anesthesia

Iowa Association of Nurse Anesthetists Spring Meeting, Des Moines, Iowa, April 8, 2006

 Hypothermia, An Old Nemesis Revisited

AANA Update

Coast to Coast Anesthesia Seminars, Key West, Florida, April 10-12, 2006

 Clinical Applications of Spinal and Epidural Anesthesia

 Complications of Spinal and Epidural Anesthesia

 AANA Update

 Coagulation and Regional Anesthesia

Alabama Association of Nurse Anesthetists Meeting at San Destin Beach, Florida April 28, 2006

 Pharmacology of Local Anesthetics

 Drugs Affecting Coagulation and Regional Anesthesia

 Hypothermia: An Old Nemesis Revisited

 Panel Discussion: Current Issues Affecting Nurse Anesthesia

Kentucky Association of Nurse Anesthetists Spring Meeting, Louisville, KY May 14, 2006

 Awareness Under General Anesthesia

 Knee and Ankle Blocks

University of Iowa College of Nursing Convocation, September 6, 2006

 Healthcare in Crisis, Got Change?

Idaho Association of Nurse Anesthetists Meeting in Sun Valley, ID, September 16, 2006

 Coagulation and Regional Anesthesia

 Hypothermia, An Old Nemesis Revisited

 Awareness Under General Anesthesia

 Wellness, and Addiction in the Anesthesia Community

Wisconsin Association of Nurse Anesthetists Meeting, Sturgeon Bay, WI, September 23, 2006

 Pharmacology of Local Anesthetics

 Anatomy and Technique of Upper Extremity Blocks

 Evaluation and Supplementation of Upper Extremity Blocks

 AANA Update

 Questions & Answers Panel Discussion

New York ANA Fall Meeting, Turning Stone Resort, NY September 30, 2006

 Pharmacology of Local Anesthetics

 Coagulation and Regional Anesthesia

 Unintended Awareness Under Anesthesia

 AANA Update

Maine Association of Nurse Anesthetists Fall Meeting, Boothbay Harbor, ME, October 1, 2006

 AANA Update

Georgia Association of Nurse Anesthetists Fall Meeting, Stone Mountain, GA, October 7-8, 2006

 What’s New in Spinal and Epidural Anesthesia

 Perioperative Hypothermia, An Old Nemesis Revisited

 Unintended Awareness Under General Anesthesia

 AANA Update

Florida Assn of Nurse Anesthetists Fall Meeting, San Destin Beach, FL October 14-15, 2006

 AANA Update

 Unintended Awareness Under General Anesthesia

Nurse Anesthesia Faculty Associates Fall Meeting, Williamsburg, VA October 30, 2006

 AANA Update/Questions and Answers

Nursing Organization Alliance, Memphis, TN November 17, 2006

 Leadership Partnership: The Roles and Relationships of Elected and Staff Leaders (with AANA Executive Director, Jeffrey Beutler, CRNA, MS).

Dannemiller Annual Fall Nurse Anesthetists Review and Update, San Antonio, TX, November 28, 2006

 AANA Update

 Unintended Awareness Under General Anesthesia

 The Pharmacology of Local Anesthetics Agents

 Coagulation and Regional Anesthesia

MUSC Nurse Anesthesia Program Commencement, Charleston, SC December 1, 2006

 Participation in Professional Associations and Professionalism

Institute for Post Graduate Education Fall Meeting, Lake Tahoe, NV January 22, 2007

 Perioperative Hypothermia: An Old Nemesis Revisited

 What’s New in Spinal and Epidural Anesthesia

 Unintended Awareness Under General Anesthesia

 Coagulation and Regional Anesthesia

 Critical Issues Facing the AANA

Arizona Association of Nurse Anesthetists Spring Meeting, March 22, 2007 Scottsdale, Arizona

 AANA Update

 Addiction, Wellness and the Anesthesia Community

 Perioperative Hypothermia, An Old Nemesis Revisited

 Unintended Awareness Under General Anesthesia

 What’s New in Spinal and Epidural Anesthesia

New England Assembly of Nurse Anesthetists, March 31, 2007 Burlington, MA

 AANA Update

 Unintended Awareness Under General Anesthesia

Coast to Coast Anesthesia Seminars, April 9-11, 2007 Key West, FL

 AANA Update

 Coagulation & Regional Anesthesia

 Clinical Applications of Regional Anesthesia

 Anatomy for Lumbar Plexus Anesthesia

 Complications of Regional Anesthesia

PANA Spring Meeting, April 14-15, 2007, Hersey, PA

 AANA Update

 Unintended Awareness Under General Anesthesia

IPGE Kiawah Island, April 26th 2007, Kiawah Island SC

 Perioperative Hypothermia: An Old Nemesis Revisited

 What’s New in Spinal and Epidural Anesthesia

 Unintended Awareness Under General Anesthesia

 Coagulation and Regional Anesthesia

 Critical Issues Facing the AANA

Hawaii Association of Nurse Anesthetists, April 27-29, 2007, Honolulu, HI

 AANA Update

 Pharmacology of Local Anesthetics

 Evaluation and Touch Up of Upper Extremity Blocks

 Complications of Regional Anesthesia

 What’s New In Spinal and Epidural Anesthesia

 Anatomy and Techniques of Lumbar Plexus Blocks

South Carolina Association of Nurse Anesthetists Spring Meeting, May 4 2007, Charleston, SC

 AANA Update

 Perioperative Hypothermia, An Old Nemesis Revisited

North Carolina Society for Respiratory Care, September 27th 2007, Wilmington, NC

 Moderate Sedation Update

North Carolina Association of Nurse Anesthetists Annual Meeting, Asheville, NC November 3rd 2007

 Unintentional Awareness Under Anesthesia, Where are We Now?

 The Pharmacology of Local Anesthetics

Duke University Nurse Anesthesia Program, Durham, NC, February 4th and 25th 2008

 Professional Aspects: The Argument for Participation in Your Professional Association

 Wellness, Addiction and the Anesthesia Community

North Carolina Association of Nurse Anesthetists District III & IV Educational Meeting, Concord NC March 15 2008

 Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

 Fundamentals of Obstetric Analgesia and Anesthesia

Coast to Coast Anesthesia Seminars, Key West, Florida. March 24-28, 2008

 Coagulation and Regional Anesthesia

 Lower Extremity Block Anatomy

 Monitoring, Recovery, and Antagonism of Neuromuscualar Blockade

 Clinical Applications of Spinal and Epidural Anesthesia

 Complications of Spinal and Epidural Anesthesia

 Unintended Awareness Under General Anesthesia

 Perioperative Hypothermia: Prevention and Treatment

 Faculty Upper and Lower Extremity Hands on Workshop

 Faculty Spinal and Epidural Anesthesia Hands on Workshop

AK Association of Nurse Anesthetists Spring Meeting, Hot Springs AR. March 28-30 2008

 Pharmacology of Local Anesthetics

 What’s New in Spinal and Epidural Anesthesia

 Complications of Spinal and Epidural Anesthesia

 Coagulation and Regional Anesthesia

 Fundamentals of Obstetric Analgesia and Anesthesia

Encore Symposium, Puerto Vallarta, Mexico. April 2-5, 2008

 Upper Extremity Blocks: Anatomy and Basic Techniques

 Awareness & General Anesthesia: Where Are We Now

 What’s New in Spinal and Epidural Anesthesia

 Pharmacology of Local Anesthetics

 Anatomy & Technique for Lower Extremity Regional Anesthesia

 Perioperative Hypothermia: An Old Nemesis Revisited

 Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

 Essential Elements of Obstetric Anesthesia and Analgesia

Kentucky Annual Spring Meeting, Louisville KY, April 19-20, 2008

 Hands-on Faculty: Upper and Lower Extremity Ultrasound Workshop

 Pharmacology of Local Anesthetics

 Brachial Plexus Anesthesia Anatomy

 Knee and Ankle Block Techniques

 Review of Ultrasound Guided Regional Anesthesia Techniques

Nebraska Annual Spring Meeting, Omaha NE, April 26-27, 2008

 Hands-on Faculty: Upper and Lower Extremity Ultrasound Workshop

 Pharmacology of Local Anesthetics

 Brachial Plexus Anesthesia Anatomy

 Knee and Ankle Block Techniques

 Review of Ultrasound Guided Regional Anesthesia Techniques

AANA Annual Meeting 2008, Minneapolis MN, August 12, 2008

 Monitoring Level of Consciousness: The Next Standard of Care?

South Carolina Association of Nurse Anesthetists Spring Meeting, Myrtle Beach SC September 13, 2008

 Pharmacology of Local Anesthetics

 Upper Extremity Regional Techniques

 Lower Extremity Regional Techniques

 Knee and Ankle Blocks

 Introduction to Ultrasound Guided Regional Anesthesia

IPGE Las Vegas Nevada Bally’s Resort and Casino, September 18, 2008

 Pharmacology of Local Anesthetics

 Anatomy for Upper Extremity Regional Anesthesia

 Technique for Upper Extremity Regional Anesthesia

 Lower Extremity Regional Techniques

 Knee and Ankle Blocks

 Introduction to Ultrasound Guided Regional Anesthesia

LACES Fall Meeting, Perdido Beach Resort, Orange Beach AL, September 26-28, 2008

 Coagulation and Regional Anesthesia

 Essential Elements of Obstetric Analgesia and Anesthesia

 Perioperative Hypothermia, An Old Nemesis Revisited

 Wellness, Chemical Dependency and the Anesthesia Community

 Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

 Intraoperative Awareness: Where are We Now?

Encore Symposiums Spirit of the West, Tucson, AZ, November 17-20, 2008

Coagulation and Regional Anesthesia

Intra-operative Awareness: Where Are We Now?

Pharmacology of Local Anesthetics

Peri-operative Hypothermia, An Old Nemesis Revisited

Anatomy for Upper Extremity Regional Anesthesia

Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

Anatomy for Lower Extremity Regional Anesthesia

Wellness, Chemical Dependency and the Anesthesia Community

North Carolina Assn of Nurse Anesthetists District I & II Meeting, Cary NC, January 24, 2009

 Developing Relationships with Our Legislators: Reaching and Teaching

Lower Alabama Continuing Education Spring Meeting, Huntsville, AL, Mar 6-8, 2009

 Considerations When Facing A Known Difficult Airway

 Coagulation and Regional Anesthesia

 Awareness Under General Anesthesia: Where Are We Now?

 Peri-Operative Hypothermia-Update 2009

 Wellness, Addiction, and the Anesthesia Community

 Pharmacological Essentials of Obstetric Anesthesia and Analgesia

North Carolina Assn of Nurse Anesthetists District III & IV Meeting, Charlotte NC, March 14, 2009

Developing Relationships with Our Legislators: Reaching and Teaching

Coast to Coast Anesthesia Seminars, Key West Florida, March 29, 2009

 Regional Anesthesia, Homeostasis, and Coagulation

 Heparin Induced Thrombocytopenia

 Peri-Operative Hypothermia: Update 2009

 Awareness Under General Anesthesia: Where Are We Now

 What’s New in Spinal and Epidural Anesthesia

 Thoracic and Continuous Epidural Anesthesia

 Clinical Applications for Spinal & Epidural Anesthesia

 Complications of Spinal & Epidural Anesthesia

 Spinal Anesthesia: Techniques and Dosing

 Epidural Anesthesia: Techniques and Dosing

Twenty Second Annual Charleston Anesthesia Conference, May 1, 2009

 Pharmacology of Local Anesthetics

Fundamentals of Ultrasound Guided Regional Anesthesia

Heparin Induced Thrombocytopenia

Kentucky Assn of Nurse Anesthetists Fall Meeting, Lexington, Kentucky October 17-18, 2009

 Anatomy for Brachial Plexus Anesthesia

 Techniques for Upper Extremity Anesthesia

 Anatomy for Lumbar Plexus Anesthesia

 Lumbar Plexus Regional Anesthesia

 Knee and Ankle Blocks

 Fundamentals of Ultrasound Guided Regional Anesthesia

Kansas Association of Nurse Anesthetists Fall Meeting, Wichita, Ks. October 24-25, 2009

 Anatomy for Brachial Plexus Anesthesia

 Techniques for Upper Extremity Anesthesia

 Anatomy for Lumbar Plexus Anesthesia

 Lumbar Plexus Regional Anesthesia

 Knee and Ankle Blocks

Encore Symposiums Sedona Grand Canyon Experience, November 3-6, 2009

 Pharmacology of Local Anesthetics

 Wellness, Chemical Dependency and the Anesthesia Community

 Awareness Under General Anesthesia, Where Are We Now

 Heparin Induced Thrombocytopenia

Mississippi Association of Nurse Anesthetists Spring Meeting, Jackson MS, January 17, 2010

 Pharmacology of Local Anesthetics

 Wellness, Chemical Dependency and the Anesthesia Community

 Fundamentals of Ultrasound Guided Regional Anesthesia

Coast to Coast Anesthesia Seminars Key West, FL March 1-4, 2010

 Pharmacology of Local Anesthetics

 Toxicology of Local Anesthetics and Management of Toxicity

 What’s New In Spinal And Epidural Anesthesia

 Thoracic Epidurals and Continuous Epidurals

 Unintended Awareness Under General Anesthesia

 Wellness, Chemical Dependency and the Anesthesia Community

 Coagulation and Regional Anesthesia Update

Arizona Fun in the Sun, Scottsdale AZ, March 25-28, 2010

 Pharmacology of Local Anesthetics

 Etiology and Management of Toxicity of Local Anesthetics

Lower Extremity Block Techniques

 Evaluation of Upper Extremity Blocks/Blocks at the Elbow and Wrist

 Ultrasound in Regional Anesthesia Hands On Sessions

Encore Symposiums, Spirit of the West, Tucson AZ, March 29–April 1, 2010

 Essential Elements of Obstetric Anesthesia and Analgesia

 Coagulation and Regional Anesthesia

 Pharmacology of Local Anesthetics, Toxicology and Management of Local Anesthetics

 Unintended Awareness Under General Anesthesia

 Monitoring and Reversal of Neuromuscular Blockade

 Myotonia, Myopathy, and Malignant Hyperthermia and Anesthesia Implications

 Wellness, Chemical Dependency and the Anesthesia Community

Encore Symposiums, Springtime in Puerto Vallarta 2010, April 26-29, 2010

 Heparin Induced Thrombocytopenia

 Post Operative Urinary Retention

 Unintended Awareness Under General Anesthesia

 Essential Elements of Obstetric Anesthesia and Analgesia

 Myotonia, Myopathy, and Malignant Hyperpyrexia, & Anesthesia Implications

 Introduction to Ultrasound Guided Regional Anesthesia

 Wellness, Chemical Dependence and the Anesthesia Community

 Update on Peri-Operative Hypothermia 2010

Arkansas Association of Nurse Anesthetists Annual Spring Meeting, Rogers, AR, May 2, 2010

 Anatomy for Upper Extremity Regional Anesthesia

 Technique for Interscalene and Axillary Brachial Plexus Block

 Introduction to Ultrasound Guided Regional Anesthesia

 Wellness Chemical Dependency and the Anesthesia Community

International Federation of Nurse Anesthetists Congress, June 7, 2010, Den Hague, Netherlands

 Pharmacology and Toxicology of Local Anesthetics

 Instructor, Spinal and Epidural Anesthesia Hands On Workshop

Encore Symposiums Myrtle Beach, SC, June 14-17, 2010

 Physiology of Labor: Anesthesia for Labor & Delivery

 Heparin Induced Thrombocytopenia

 Pharmacology and Toxicology of Local Anesthetics (2 hrs)

 Wellness Chemical Dependency and the Anesthesia Community

 Coagulation and Regional Anesthesia

Mississippi Association of Nurse Anesthetists Summer Meeting, Biloxi, MS June 19-20, 2010

 Unintended Awareness Under General Anesthesia, Where are We Now?

 Myotonia, Myopathy, and MH: Anesthesia Implications

 Post Operative Urinary Retention

AANA 77th Annual Meeting, Seattle, Washington, August 7-11, 2010

 Moderator, Panel Discussion: The Power to Change with Patti Bright, Roderick Davis, and Stephanie Moeller

 Current Thoughts on Anticoagulation and Regional Anesthesia

Encore Symposiums, Santa Fe NM September 6-9, 2010

 Pharmacology of Local Anesthetics

 Heparin Induced Thrombocytopenia

 Essential Elements of Obstetric Anesthesia

 Current Thoughts on Anticoagulants and Regional Anesthesia

 Wellness, Chemical Dependency and the Anesthesia Community

 USGA: Promise, Progress & Pitfalls

Western Carolina University School of Nursing, NAEP

 Introduction to the Role and Workings of the AANA

 Wellness, Stress, and Strategies for Surviving Nurse Anesthesia School

NCANA Annual Meeting, Wilmington, NC September 24-26, 2010

 Pharmacology and Toxicology of Local Anesthetics

Diversity in Nurse Anesthesia Workshop, Duke University College of Nursing, Durham, NC October 23, 2010

 The Importance and Value of Cultural Diversity in the Nurse Anesthesia Profession

Alaska Assn of Nurse Anesthetists Spring Mtg, Anchorage AK February 19, 2011

 Pharmacology of Local Anesthetics

 Current Thoughts on Coagulation and Regional Anesthesia

 Wellness, Chemical Dependency and the Anesthesia Community

AANA Assembly of School Faculty, February 26, 2011

 Wellness and Chemical Dependency Curriculum, The Cornerstone of a Well Profession

Coast to Coast Anesthesia Seminars Key West Meeting March 14-18, 2011

 Coagulation and Regional Anesthesia

 What’s New In Spinal and Epidural Anesthesia

 Pharmacology and Toxicology of Local Anesthetics (2 Hrs)

 Post Operative Urinary Retention, Risks, Complications, and Management

 Myotonia, Myopathy and Malignant Hyperthermia: Anesthesia Implications

 Continuous and Thoracic Epidural Anesthesia

LACES Spring Meeting Orange Beach, AL March 18-19, 2011

 Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

 Current Thoughts on Anticoagulants and Regional Anesthesia

 Anesthesia Implications of Myopathy, Myotonia, and MH

 Wellness, Chemical Dependency and the Anesthesia Community

 The Pharmacology & Toxicology of Local Anesthetics

 What’s New in Spinal And Epidural Anesthesia

New Jersey Association of Nurse Anesthetists Spring Meeting, East Windsor NJ, March 26, 2011

 Wellness, Chemical Dependency and the Anesthesia Community

Wisconsin Association of Nurse Anesthetists Spring Meeting, Madison WI, April 2, 2011

 Wellness, Chemical Dependency and the Anesthesia Community

 Obesity: The Growing Anesthesia Challenge

Tripler Army Medical Center, Anesthesia Department, Honolulu, HI April 5, 2011

 Wellness, Stress, Workplace Harmony, and Chemical Dependency

Encore Symposiums Spring On Hilton Head Island, May 16-19, 2011

 Awareness Under General Anesthesia: Where are We Now?

 Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

 Ultrasound Guided Regional Anesthesia, Promise, Progress, & Pitfalls

 Essential Elements of Obstetric Anesthesia for Labor and Delivery

 Anatomy and Techniques for Upper Extremity Regional Anesthesia

 Evaluation and Supplementation of Upper Extremity Blocks

 Heparin Induced Thrombocytopenia

 Wellness, Chemical Dependency and the Anesthesia Community

South Carolina ANA Fall Meeting, Charleston, SC. September 17, 2011

 Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

 Obesity, The Growing Anesthesia Challenge

 Wellness Chemical Dependency and the Anesthesia Community

 Essential Elements of Obstetric Anesthesia for Labor & Delivery

 NBCRNA in Motion: Update on Continuing Professional Competency

22nd Annual Balloonfest Meeting, Albuquerque NM, October 7, 2011

 Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

 Obesity, The Growing Anesthesia Challenge

 Wellness Chemical Dependency and the Anesthesia Community

 Essential Elements of Obstetric Anesthesia for Labor & Delivery

 NBCRNA in Motion: Update on Continuing Professional Competency

Tennessee Assn Nurse Anesthetists Fall Mtg. Murfreesburo TN, October 16, 2011

 NBCRNA in Motion: Update on Continuing Professional Competency

PANA Fall Meeting at Bedford Spring. Bedford, PA, October 22, 2011

 Awareness Under General Anesthesia: Where are We Now?

 Wellness, Chemical Dependency and the Anesthesia Community

 NBCRNA in Motion: Update on CPC

Encore Symposiums Grand Canyon Experience, Sedona AZ, November 2-5, 2011

 The Pharmacology of Local Anesthetics

 Order in the Court

 Coagulation and Regional Anesthesia

 NBCRNA in Motion: Update on CPC

 Essential Elements of Obstetric Anesthesia for Labor & Delivery

 Obesity, The Growing Anesthesia Challenge

 Anatomy for Upper Extremity Anesthesia

 Technique for Upper Extremity Anesthesia

Encore Symposiums Everglades Experience, Naples, Fl February 22-23, 2012

 Pharmacology of Local Anesthetics

 Malignant Hyperthermia Update 2012

 Current Thoughts on Anticoagulants and Regional Anesthesia

 Wellness, Chemical Dependency and the Anesthesia Community

 Awareness Under General Anesthesia: Where Are We Now?

 Anatomy for Upper Extremity Regional Anesthesia

 Technique for Upper Extremity Regional Anesthesia

 Order in the Court

 NBCRNA in Motion: Update on CPC

NCANA District III & IV Spring Meeting, Charlotte, NC March 10, 2012

 Essential Elements of Obstetric Analgesia and Anesthesia

 Order in the Court

Wake Forest University/Baptist Hospital NAEP Regional Anesthesia Workshop, March 12, 2012

 Pharmacology of Local Anesthetics

 Anatomy and Technique for Upper Extremity Regional Anesthesia

Coast to Coast Anesthesia Seminars, Clearwater, Florida, March 19-20, 2012

 Coagulation and Regional Anesthesia

 Pharmacology of Local Anesthetics

 Toxicology and Management of Complications of Local Anesthetic Drugs

 Introduction to Upper Extremity Plexus Blocks

 Evaluation of Upper Extremity Blockade and Peripheral Nerve Blocks

 Hands on Regional Anesthesia Workshop

 Continued Professional Competency: NBCRNA in Motion

AKANA Annual Meeting, Alyeska Resort, Girdwood AK, March 26, 2012

 Obesity, the Growing Anesthesia Challenge

 Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

 Order in the Court: Reflections on 20 Years as an Expert Witness

Current Trends in Anesthesia Practice, Omaha, NE April 27, 2012

 Obesity, the Growing Anesthesia Challenge

 Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

 Beyond Addiction: Wellness and the Anesthesia Community

 Essential Elements of Obstetric Anesthesia and Analgesia

Iowa Assn Of Nurse Anesthetists Educational Spring Meeting, Des Moines IA, April 28, 2012

 Continued Professional Competency: NBCRNA in Motion

Encore Symposiums Music of Memphis, Memphis TN, May 9-10, 2012

 Essential Elements of Obstetric Analgesia and Anesthesia

 Pharmacology and Toxicology of Local Anesthetics

 Current Thoughts on Coagulation and Regional Anesthesia

 Heparin Induced Thrombocytopenia

 Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

 Order in the Court, Reflections on 20 Years as an Expert Witness

IPGE 2012 Spring Anesthesia Refresher, Las Vegas NV, May 18, 2012

 Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

 Awareness Under General Anesthesia: Where are We Now?

 Beyond Addiction: Wellness and the Anesthesia Community

 Essential Elements of Obstetric Anesthesia and Analgesia

 Order in the Court, Reflections on 20 Years as an Expert Witness

 Continued Professional Competency: NBCRNA in Motion

Encore Symposiums Back to Discover Santa Fe, September 3-6, 2012

 Order in the Court

 Mock Deposition and Critique

 Pharmacology of Local Anesthetics

 Anatomy and Technique for Upper Extremity Regional Anesthesia

 Hands On Ultrasound Regional Anesthesia Workshop

 What’s New in Spinal and Epidural Anesthesia

 Stress, Catastrophe and Chemical Dependency, Connecting the Dots

Lower Alabama Continuing Education Seminars, September 15, 2012, Orange Beach, AL

 Stress, Catastrophe, and Chemical Dependency, Connecting the Dots

 Pharmacology of Local Anesthetics

 Order in the Court

 Current Thoughts on Drugs Affecting Coagulation and Regional Anesthesia

 Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

 What’s New in Spinal & Epidural Anesthesia

Kentucky Association of Nurse Anesthetists Fall Meeting, Louisville, KY September 16, 2012

 Fundamental Elements of Obstetric Anesthesia and Analgesia

 Current Thoughts on Drugs Affecting Coagulation and Regional Anesthesia

Texas Association of Nurse Anesthetists Fall Meeting, San Antonio, Tx September 22, 2012

 Order in the Court

 NBCRNA in Motion: Update on CPC

Missouri Association of Nurse Anesthetists Fall Meeting, St. Charles Mo September 29, 2012

 Order in the Court

 Current Thoughts on Drugs Affecting Coagulation and Regional Anesthesia

Maine Association of Nurse Anesthetists, January 2013

 Introduction to Ultrasound Guided Regional Anesthesia

 Anatomy and Technique for Upper Extremity Regional Anesthesia

IPGE Puerto Vallarta, Mexico 2013

 What’s New in Spinal and Epidural Anesthesia

 Drugs Affecting Coagulation and Regional Anesthesia

 Surgery, Positioning, and Anesthesia Related Nerve Injuries

 Beyond Awareness: BIS, Mortality and Morbidity

 Order in the Court

 Fundamental Elements of OB Analgesia and Anesthesia

 Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

 Chemical Dependency, Stress, and Catastrophe: Connecting the Dots

Coast to Coast Anesthesia Seminars: Clearwater Beach, FL March 10-13, 2013

 Pharmacology and Toxicology of Local Anesthetics

 Anatomy and Technique for Upper Extremity Regional Anesthesia

 Hands on Ultrasound Guided Regional Anesthesia Workshop

 Order in the Court

 Obesity: The Growing Anesthesia Challenge

 Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

 Current Thoughts on Drugs Affecting Coagulation and Regional Anesthesia

AZANA Fun and Sun, Scottsdale AZ March 14-17, 2013

 Anatomy and Technique for Upper Extremity Regional Anesthesia

 Hands on Instruction Ultrasound Guided Regional Anesthesia Workshop

 Order in the Court

 Mock Deposition, Commentary and Critique

Wake Forest University Baptist Medical Center Nurse Anesthesia Program March 18, 2013

 Pharmacology of Local Anesthetics

 Anatomy and Technique for Upper Extremity Regional Anesthesia

 Anatomy and Technique for Lower Extremity Regional Anesthesia

 Ultrasound Technique Practicum

Lower Alabama Continuing Education Seminars, Orange Beach, AL March 22-24, 2013

 Awareness Under General Anesthesia: Where Are We Now?

 Pharmacologic Essentials of OB Anesthesia and Analgesia

 The Prevention and Management of Local Anesthetic Toxicity

 Surgery, Positioning, and Anesthesia Related Nerve Injuries

 Coagulation and Regional Anesthesia

 Pharmacologic Implications of Myotonia, Myopathy, and Malignant Hyperthermia

Regional Anesthesia Workshop: UNE Nurse Anesthesia Program, Portland ME, April 9, 2013

 The Pharmacology and Toxicology of Local Anesthetics

 Anatomy and Techniques for Upper Extremity Regional Anesthesia

 Anatomy and Techniques for Lower Extremity Regional Anesthesia

 Introduction to Ultrasound Guided Regional Anesthesia

 Hands on Upper Extremity Regional Anesthesia Workshop

Iowa Association of Nurse Anesthetists Spring Meeting, Des Moines, IA May 3-5, 2013

 Introduction to Ultrasound Guided Regional Anesthesia

 Anatomy and Technique for Upper Extremity Regional Anesthesia

 What’s New in Spinal and Epidural Anesthesia

 Fundamental Elements of Obstetric Analgesia and Anesthesia

 Stress Catastrophes and Chemical Dependency: Connecting the Dots

 Order in the Court: Lessons from 20 Years as an Expert Witness

 BIS Monitoring: Awareness and Outcomes

Encore Symposiums, Back to Lake Tahoe, Incline Village NV June 24-27, 2013

 BIS, Anesthesia Awareness, and Outcomes

 Order in the Court, Lessons from 20 Years as an Expert Witness

 Interactive Mock Deposition, Testimony, and Critique

 Pharmacology, Toxicology of Local Anesthetics

 Coagulation and Regional Anesthesia

 Malignant Hyperthermia Update 2013

Merck Dinner Meeting, Charlotte NC August 27, 2013

 Communication and Teamwork in the Perioperative Environment

L.A.C.E.S Perdido Beach Resort, Orange Beach AL, September 13-15, 2013

 Obesity, The Growing Anesthesia Challenge

 Fundamental Elements of Obstetric Anesthesia and Analgesia

 Current Thoughts on Anticoagulants and Regional Anesthesia

 Malignant Hyperthermia Update 2013

 Order in the Court: Reflections on 20 Years as an Expert Witness

 Prevention and Management of Local Anesthetic Toxicity

S. Dakota Assn of Nurse Anesthetists Fall Meeting, Sioux Falls SD, September 28-29 2013

 Pharmacology and Toxicology of Local Anesthetics

 Drugs Affecting Coagulation and Regional Anesthesia

 Pharmacology and Toxicology of Local Anesthetics

 Current Thoughts on Anticoagulants and Regional Anesthesia

 Stress, Catastrophe, and Chemical Dependency

NCANA 2013 Annual Meeting, Asheville NC, October 4, 2013

 Panel Moderator for: Anesthesia Outside of the OR, Pearls and Pitfalls

Encore Symposiums Vermont Fall Foliage, Manchester Center VT, October 7-8, 2013

 Current Thoughts on Anticoagulants and Regional Anesthesia

 Fundamental Elements of Obstetric Anesthesia and Analgesia

 Surgery, Positioning, and Anesthesia Related Nerve Injuries

 What’s New In Spinal and Epidural Anesthesia

 Order in the Court: Reflections on 20 Years as an Expert Witness

 Beyond Awareness: Depth of Anesthesia, Mortality, and Morbidity

NMANA 24th Annual Balloonfest Anesthesia Meeting, Albuquerque NM, October 12, 2013

 Stress, Catastrophe, and Chemical Dependency

 What’s New In Spinal and Epidural Anesthesia

 Surgery, Positioning, and Anesthesia Related Nerve Injuries

 Order In the Court, Reflections on 20 Years as an Expert Witness

Morning In-service at Moses Cone Medical Center, Greensboro, NC October 16, 2013

 Review of Muscle Relaxant Use in Surgery

UNE Regional Anesthesia Workshop, Portland, ME, November 4-5, 2013

 Pharmacology & Toxicology of Local Anesthetics

 Introduction to Ultrasound Guided Regional Anesthesia

 Anatomy and Techniques for Upper Extremity Regional Anesthesia

 Anatomy and Techniques for Lower Extremity Regional Anesthesia

 Common Complication of Regional Anesthesia

 Ultrasound Practicum: Upper Extremity Regional Anesthesia (2 Hrs.)

 Ultrasound Practicum: Lower Extremity Regional Anesthesia (2 Hrs.)

L.A.C.E.S. OB Epidural/Regional Ultrasound Workshop, Huntsville, AL, November 15-17, 2013

 What’s New In Epidural and Spinal Anesthesia

 Common Complications in Regional Anesthesia

 Current Thoughts on Anticoagulants and Regional Anesthesia

 Pharmacology and Toxicology of Local Anesthetics

 Hands on Ultrasound Workshop Faculty

Coast to Coast Anesthesia Seminars, Clearwater Beach FL, March 23-25, 2014

 Surgery, Positioning, and Anesthesia Related Nerve Injuries

 Order in the Court

 Pharmacology and Toxicology of Local Anesthetics

 Anatomy and Technique for Upper Extremity Regional Anesthesia

 Memory, Awareness, and Outcomes

Washington Association of Nurse Anesthetists Spring Meeting Seattle WA April 11-12, 2014

 Stress Catastrophe and Chemical Dependency

 Pharmacology and Toxicology of Local Anesthetics

 Current Thoughts on Anticoagulants and Regional Anesthesia

 Order in the Court

Charleston Anesthesia Conference, Charleston SC May 4, 2014

 Malignant Hyperthermia Update 2014

 Obesity: The Growing Anesthesia Challenge

Encore Symposium Spring Meeting at Hilton Head SC May 14-17, 2014

What’s New In Epidural and Spinal Anesthesia

 Common Complications in Regional Anesthesia

Pharmacology and Toxicology of Local Anesthetics

 Current Thoughts on Anticoagulants and Regional Anesthesia

 Pharmacology and Toxicology of Local Anesthetics

 Current Thoughts on Anticoagulants and Regional Anesthesia

 Memory, Awareness and Outcomes

IPGE Myrtle Beach South Carolina, June 7th 2014

 Stress, Catastrophe, and Chemical Dependency

 What’s New in Spinal and Epidural Anesthesia

 Order in the Court: Reflections on 20 Years as an Expert Witness

 Surgery, Positioning, and Anesthesia Related Nerve Injuries

 Drugs and Affecting Coagulation and Regional Anesthesia

 Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

IPGE Minneapolis Minnesota, June 27th 2014

 Stress, Catastrophe, and Chemical Dependency

 What’s New in Spinal and Epidural Anesthesia

 Order in the Court: Reflections on 20 Years as an Expert Witness

 Surgery, Positioning, and Anesthesia Related Nerve Injuries

 Drugs and Affecting Coagulation and Regional Anesthesia

 Introduction to Ultrasound Guided Regional Anesthesia

Texas Association of Nurse Anesthetists Meeting, August 8th 2014, The Woodlands TX

 Continuing Professional Competency Update

North Carolina Association of Nurse Anesthetists Fall Meeting, October 4th 2014 Pinehurst NC

 Continuing Professional Competency Update

Alabama Association of Nurse Anesthetists Fall Meeting, October 11th 2014, Hoover AL

 Memory, Awareness, and Outcomes

 Order in the Court

University of New England Nurse Anesthesia Program, October 20-21, 2014, Portland Maine

 Wellness, Catastrophe and Chemical Dependence

 Pharmacology of Local Anesthetics

 Introduction to Ultrasound Guided Regional Anesthesia

 Anatomy and Technique for Upper Extremity Regional Blockade

 Anatomy and Technique for Lower Extremity Regional Blockade

 What’s New in Spinal and Epidural Anesthesia

 Complications of Regional Anesthesia

Encore Symposiums, Fall Foliage in New England, October 22-23, 2014, Newport RI

 Pharmacology of Local Anesthetics

 Anatomy for Upper Extremity Regional Anesthesia

 Technique and Evaluation of Extremity Regional Blockade

 Monitoring Recovery and Antagonism of Neuromuscular Blockade

 Heparin Induced Thrombocytopenia

The Grand Canyon and Sedona Experience, Sedona AZ, November 10-13, 2014, Sedona AZ

 Pharmacology of Local Anesthetics

 Anatomy for Upper Extremity Regional Anesthesia

 Technique and Evaluation of Extremity Regional Blockade

 Monitoring Recovery and Antagonism of Neuromuscular Blockade

 Heparin Induced Thrombocytopenia

 Beyond Awareness: Depth of Anesthesia, Mortality and Morbidity

Mississippi Association of Nurse Anesthetist Spring Meeting, Jackson MS January 16, 2015

 Continuing Professional Certification Update

Western Carolina University Nurse Anesthesia Program, Asheville, NC January 22, 2015

 Wellness, Stress Management, and Chemical Dependency

Coast to Coast Regional Anesthesia & Ultrasound Clinic, Clearwater Beach, FL March 8-9, 2015

 Pharmacology of Local Anesthetics

 Toxicology and Management of Complications of Local Anesthetics

 Hands on Ultrasound Instruction

Coast to Coast Anesthesia Review & Update, Clearwater Beach, FL March 10, 2015

 Stress, Catastrophe, and Chemical Dependency: Connecting the Dots

 Malignant Hyperpyrexia Update 2015

Wake Forest University, Baptist Hospital Nurse Anesthesia Program, March 12, 2015

 Anatomy and Technique of Upper Extremity Regional Anesthesia

 Anatomy and Technique of Lower Extremity Regional Anesthesia

 Ultrasound Practicum Upper and Lower Extremity Regional Blockade

LACES Huntsville Update 2015, Huntsville AL, April 10-12, 2015

 Wellness, Stress & Chemical Dependency: Connecting the Dots

 Memory, Awareness, and Outcomes

 Hemostasis, Coagulation, and Regional Anesthesia

 Ketamine, Where Does It Fit in Your Anesthesia Practice?

 The Pharmacology of Local Anesthetics

 Order in the Court: A Primer on 21 Years as an Expert Witness

Encore Symposiums Coronado Bay, April 12-17, 2015. Coronado, CA

 Anatomy and Technique of Upper Extremity Regional Anesthesia

 Hemostasis, Coagulation, and Regional Anesthesia

 Ketamine, Where Does It Fit in Your Anesthesia Practice?

 Complications of Spinal and Epidural Anesthesia

 The Pharmacology of Local Anesthetics

Nebraska Association of Nurse Anesthetists Spring Meeting, Omaha NE, April 24, 2015

 What’s New in Spinal and Epidural Anesthesia

 Drugs Affecting Coagulation and Regional Anesthesia

 Order in the Court

 Surgery, Positioning, and Anesthesia Related Nerve Injuries

Iowa Association of Nurse Anesthetists Spring Meeting, Des Moines IA, May 1-2, 2015

 Order in the Court

 Surgery, Positioning, and Anesthesia Related Nerve Injuries

 Ketamine, Where Does It Fit in Your Anesthesia Practice?

 Wellness, Stress & Chemical Dependency: Connecting the Dots

 Continuing Professional Certification Update

Malignant Hyperpyrexia Update 2015

 Fundamentals of Obstetric Anesthesia and Analgesia

Encore Symposiums Wentworth By The Sea, New Castle NH, June 1-4, 2015

 Pharmacology of Local Anesthetics

 Hemostasis, Anticoagulants and Regional Anesthesia

 Monitoring, Recovery, and Antagonism of Neuromuscular Blockade

 Surgery, Positioning, and Anesthesia Related Nerve Injuries

 Order in the Court

 Memory, Awareness, and Anesthesia Outcomes

Montana Association of Nurse Anesthetists Fall Meeting, Whitefish MT, September 18, 2015

 Continuing Professional Certification Update

Illinois Association of Nurse Anesthetists Fall Meeting, Itasca IL, September 27, 2015

 Continuing Professional Certification Update

Georgia Association of Nurse Anesthetists Fall Meeting, Savannah, GA October 3, 2015

 Continuing Professional Certification Update

Regional Anesthesia Workshop, University of New England NAEP, Portland ME October 21-22

 Pharmacology of Local Anesthetics

 Anatomy and Technique for Upper Extremity Regional Anesthesia

 Anatomy and Technique for Lower Extremity Regional Anesthesia

 Hands On Ultrasound Guided Regional Anesthesia Practicum

Upper and Lower Extremity Ultrasound Guided Regional Anesthesia Workshop Wake Forest Baptist Hospital Nurse Anesthesia Program February 22nd 2016

Wisconsin Association of Nurse Anesthetists Spring Meeting, Madison WI March 12, 2016

 Order in the Court

 Continuing Professional Certification Update

Alabama Association of Nurse Anesthetists Spring Meeting, Sandestin Beach FL April 22-24 2016

Order in the Court

 Continuing Professional Certification Update

Iowa Association of Nurse Anesthetists Spring Meeting, Des Moines IA, April 30-May 1, 2016

 Monitoring, Recovery and Antagonism of Neuromuscular Blockade

Order in the Court

 Continuing Professional Certification Update

Encore Symposiums Charleston Harbor, Charleston SC, May 28, 2016

 Continuing Professional Certification Update

Louisiana Association of Nurse Anesthetists Fall Meeting, Baton Rouge, LA, October 8, 2016

 Continuing Professional Certification Update

Virginian Association of Nurse Anesthetists, District 3 & 4, Roanoke VA, November 19, 2016

 Continuing Professional Certification Update

North Carolina Association of Nurse Anesthetists District IV, Charlotte NC, February 4, 2017

 Continuing Professional Certification Update

North Carolina Association of Nurse Anesthetists District I & II, Raleigh NC, June 24, 2017

 Continuing Professional Certification Update

NCANA District III & IV Meeting, Concord NC, February 3, 2018

 Obstetric Analgesia and Anesthesia for the Occasional Anesthetist

 New Horizon: Extended Release Naltrexone for Treatment of Opioid Dependence

AANA Mid-Year Assembly, Washington, D.C., April 21, 2018

 NBCRNA Update

International Federation of Nurse Anesthetists World Congress, Budapest, Hungary. June 19, 2018.

 Assessment: What Does the Literature Say and What are the Practical Applications for Education?

AANA Annual Congress, Boston MA. September 21, 2018.

NBCRNA Update (Dennis Spence PhD, CRNA, and Mary Wojnakowski, PhD, CRNA, co-presenters)

Iowa Association of Nurse Anesthetists Fall Meeting, Coralville IA. October 6, 2018

 Surgery, Positioning, and Anesthesia Related Nerve Injuries

 CPC Update

 Order in the Court

NCANA Annual Meeting, Cherokee, NC. November 3-4, 2018.

 Leadership Panel

 Introduction to Ultrasound Guided Regional Anesthesia (Michael Reiker, DNP, CRNA co- presenter).

Academy of Didactic and Clinical Educators, Houston TX. February 14, 2019

 John Garde Memorial Lecture, “Pay It Forward”

AANA Annual Congress, Chicago IL. August 8, 2019

 NBCRNA Update (co-presented with Mary Wojnakowski, PhD, CRNA)

 Poster Presentation: Benchmarking Report: Trends and Summary Findings (co presenters, Karen Plaus, PhD, CRNA, FAAN, Dennis Spence, PhD, CRNA, Mary Wojnakowski PhD, CRNA)

LACES Orange Beach, AL September 14-15, 2019

 Review the Physiology of Neuromuscular Transmission

 Monitoring and Antagonism of Neuromuscular Blockade

 CPC Update and Q&A

 Pay It Forward

 Pharmacology and Toxicology of Local Anesthetics

NCANA District 3 & 4 Education Meeting, Concord, NC. February 1, 2020

 CPC Update

 Order in the Court.

University of Pennsylvania Medical Center Nurse Anesthesia Symposium 2020. Pittsburgh PA February 15, 2020

 CPC Update

Assembly of Didactic and Clinical Educators, Braselton GA, February 21, 2020

 NBCRNA Update

Encore Symposiums: Zoom Conference, June 8, 2020

 Review of Basic Pharmacokinetics and Pharmacodynamics

 Pharmacology and Toxicology of Local Anesthetics

 NBCRNA Update

 Review of Neuromuscular Blockade Pharmacology

 Review of Coagulation, Hematologic Disorders & Blood Component Administration

Encore Symposiums: Zoom Conference, August 4, 2020

 Review of Basic Pharmacokinetics and Pharmacodynamics

 Pharmacology and Toxicology of Local Anesthetics

 NBCRNA Update

 Review of Neuromuscular Blockade Pharmacology

 Review of Coagulation, Hematologic Disorders & Blood Component Administration

Lower Alabama Continuing Education Seminars, Huntsville AL, August 22-23, 2020

 Pharmacology and Toxicology of Local Anesthetics

 CPC NBCRNA Update

 Order in the Court

 Physiology and Pharmacology of Neuromuscular Blockade and Antagonism

Lecture to Duke University Anesthesia Students, Zoom Presentation, January 20, 2021

 Nurse Anesthesia History, Advocacy, and Substance Use Disorder

Encore Symposiums, Hilton Head SC, April 24 & 26, 2021

 CPC Update

Delaware ANA Virtual Spring Meeting, May 8, 2021

 CPC Update

Encore Symposiums Charleston Harbor and Resort, May 24-27, 2021

 Review of Pharmacology Basics

 Pharmacology and Toxicology of Local Anesthetics

 Physiology and Pharmacology of Neuromuscular Blockade and Antagonism

 CPC Update

 Review of Coagulation, Hematologic Disorders & Blood Component Administration

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