## Lynn C. Hadaway, M.Ed., RN-BC, CRNI

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#### **PROFESSIONAL OBJECTIVE**

To advance, illuminate, and endow performance improvement in infusion therapy

#### **EDUCATION**

1997 University of Georgia, Athens, GA M.Ed., Adult Education (GPA 4.0)

Coursework:

An Introduction to Adult Education
Principles of Adult Learning

Program Development in Adult Education Administrative Practices in Adult Education

Methods of Research in Education

Distance Learning

Applied Project in Program Development

**Human Resource Development** 

Organizational Change and Development

Methods of Teaching Advanced Occupational Skills

Instructional Methods in Adult Education

1986 College of St. Francis, Joliet, IL

BS, Health Arts

1972 Georgia Baptist Hospital

School of Nursing

Atlanta, GA

Diploma, Nursing

#### LICENSE AND CERTIFICATIONS

1992 to present Nursing Professional Development,

American Nurses Credentialing Center

1985 to present Infusion Nursing,

Infusion Nurses Certification Corporation

1972 to present Registered Nursing License, State of Georgia

#### SKILLS

Exceptional ability to design and develop educational programs targeted for specific clinical and business needs.

Internationally recognized speaker and facilitator with strong sense of adult learners needs

Superior knowledge of all professional guidelines and standards of practice for infusion therapy

Master of theory and practice of infusion nursing with special interest in application of technology, infection control, and quality management.

Relentless in the pursuit of quality patient care based on scientific research.

Adept at communicating technical ideas in writing with good understanding of the publications' process.

Advanced knowledge of the regulatory aspects of health care product development and its interaction with clinical practice.

Intricate knowledge and experience with professional organization management

#### **EXPERIENCE**

1996 to present President, Lynn Hadaway A	Associates. Inc.
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A consulting company providing services to the infusion segment of the

health care industry

Consultative services for product manufacturers, healthcare professionals and facilities including product development, writing product instructions for use, sales training, and customer training programs.

Educational services include design, development and delivery of traditional classroom presentations, self-study methods and online learning. Educational presentations throughout the United States,

Canada, Japan, China, India, Brazil, and the Phillipines.

1989 to 1996 Clinical Nurse Educator

Menlo Care, Inc., Menlo Park, CA

A catheter polymer developer and manufacturer of vascular access

devices

Developed the original product training literature on the midline catheter

concept

Developed national customer education program accredited by the

American Nurses Credentialing Center

Extensive interaction with product development, regulatory affairs, sales

and marketing

1990 to 1995 Per diem staff nurse, Intravenous Therapy Team

Southern Regional Medical Center, Riverdale, GA

(formerly Clayton General Hospital)

1981 to 1988 Intravenous Therapy Team Instructor, Staff Nurse

	Clayton General Hospital, Riverdale, GA Developed a precepted orientation program for RNs and LPNs Clinical experience with PICCs began in 1981		
1980 to 1981	Intravenous Therapy Team Senior Staff Nurse Tawam Hospital, United Arab Emirates		
1979	Various staffing agency assignments		
1976 to 1978	Sales Representative Purdue Frederick Co., Norwalk, CT		
1975 to 1976	Intravenous Therapy Team Staff Nurse Dekalb General Hospital, Decatur, GA		
1974 to 1975	Intravenous Therapy Team Head Nurse South Fulton Hospital, East Point, GA Organized Intravenous Therapy Team in 300 bed general hospital		
1972 to 1974	Intravenous Therapy Team Assistant Head Nurse Georgia Baptist Hospital, Atlanta, GA		
HONORS AND AWARDS			
2012	Entrepreneurial Excellence, Hall of Honor, Georgia Baptist College of Nursing, received October 2012		
2007	Member of the Year, Infusion Nurses Society, awarded June 2007 at the annual conference, Orlando, FL		
2006	Author of Best How-To Article, Silver Level for Reopen the pipeline for		
	I.V. therapy, published August 2005, Nursing2005 from the American Society of Healthcare Publication Editors		
2003	I.V. therapy, published August 2005, Nursing2005 from the American		
2003 1997	I.V. therapy, published August 2005, Nursing2005 from the American Society of Healthcare Publication Editors		

Clinical Nurse Educator of the Year award, Menlo Care, Inc.

Member, Georgia Board of Nursing, Nurse Practice Act Task Force

Excellence in IV Nursing Clinical Research,

Intravenous Nurses Society

1993

1992

1989

## **EDITORIAL REVIEW BOARDS AND PANELS**

2013-14	Panel member, Strategies to Prevent Central Line-Associated Bloodstream Infections in Acute Care Hospitals, Society of Healthcare Epidemiologists (SHEA)
2012	APIC Implementation Guide for Prevention of CLABSI
2001 to present	Journal of Infusion Nursing, Infusion Nurses Society
1998 to 2013	Nursing, Lippincott Williams & Wilkins
1987 to 2001	Journal of Intravenous Nursing, Intravenous Nurses Society
2004 to 2007	Journal of the Association for Vascular Access
1997 to 2004	Journal of Vascular Access Devices, National Association of Vascular Access Networks
2001 to 2002	Advisor for creation of Practice Guidelines for Outpatient Parenteral Antimicrobial Therapy, Infectious Disease Society of America, representing NAVAN, final document published June 15, 2004
2005-2006	Advisor for revision of Practice Guidelines for Outpatient Parenteral Antimicrobial Therapy, Infectious Disease Society of America, representing AVA

### **PROFESSIONAL ORGANIZATION AFFILIATIONS AND ACTIVITIES**

#### **INFUSION NURSES SOCIETY**

2013 to 2016	Member, Standards of Practice Committee
2013 to 2015	Chair-elect, Infusion Nurses Certification Corporation
2011 to present	Chair, Infusion Therapy Team Task Force
2009-2011	Member, Standards of Practice Committee
2006-2008	Member, Catheter Flushing Protocol Task Force
2004-06	Member, Standards of Practice Committee
1998	Program Reviewer, Peripherally Inserted Central Catheter (PICC)
	Education Module
1994-95	Task Force on PICC and Midline Catheters to draft practice guidelines
1991	District Leader
1990	Ethics Committee Chairperson
1989	Educational Poster Chairperson
1988	Continuing Education Chairperson

#### SOUTHEASTERN CHAPTER, INFUSION NURSES SOCIETY

1987 to 1996 Public Relations and Legislative Liaison

1986 Chapter President

1984-85 Program Chairperson

1975-76 Chapter President

# NATIONAL ASSOCIATION OF VASCULAR ACCESS NETWORKS, CHANGED TO ASSOCIATION FOR VASCULAR ACCESS IN 2004

2001 to 2002 Presidential Advisor

2000 to 2001 President

1999 to 2000 President-elect 1997 to 99 Director at Large,

Chair of Education and Research Committee

#### GEORGIA COUNCIL OF SPECIALTY NURSING ORGANIZATIONS

1994 to 1996 Secretary1988 to 1991 Secretary

#### AMERICAN NURSES ASSOCIATION, GEORGIA NURSES ASSOCIATION, FIFTH DISTRICT

1993 Delegate from Fifth District to GNA Convention

1990 Nursing Practice Council

#### **Association for Practitioners in Infection Control**

2011 Member

#### CIVIC ACTIVITIES

#### **DOWNTOWN DEVELOPMENT AUTHORITY, MILNER, GA**

 2006 to 2012
 Board member

 2006 to 2008
 Secretary

 2008 to 2010
 Chairperson

#### **PUBLICATIONS**

#### **JOURNAL ARTICLES**

- Hadaway, L.C., *Immunosuppressive treatment of multiple sclerosis*. Journal of the National Intravenous Therapy Association, 1985. 8(6): p. 503-505.
- Hadaway, L.C., *Motivation.* NITA Line, Newsletter of Southeastern Chapter, NITA, 1986. Oct.
- Hadaway, L.C., *Nursing diagnosis applied to IV nursing practice*. Journal of Intravenous Nursing, 1988. 11(2): p. 109-111.
- Hadaway, L.C., Evaluation and use of advanced IV technologies Part 1: Central venous access devices. Journal of Intravenous Nursing, 1989. 12(2): p. 73-82.
- Hadaway, L.C., Evaluation and use of advanced IV technologies Part 2: Patient controlled analgesia. Journal of Intravenous Nursing, 1989. 12(3): p. 184-191.
- Hadaway, L.C., *A midline alternative to central and peripheral venous access.* Caring, 1990. 9(5): p. 45-50.
- Hadaway, L.C., *An overview of vascular access devices inserted via the antecubital area.* Journal of Intravenous Nursing, 1990. 13(5): p. 297-306.
- Hadaway, L.C., *State coalition councils: Intravenous nursing involvement.* Journal of Intravenous Nursing, 1991. 14(1): p. 46-49.
- Hadaway, L.C., *I.V. tips.* Geriatric Nursing: American Journal of Care for the Aging, 1991(Mar-Apr): p. 78-81.
- Hadaway, L.C., *Intravenous nursing code of ethics.* Journal of Intravenous nursing, 1991. 14(2): p. 120-121.
- Hadaway, L.C., *State boards of nursing and issues of advanced practice.* Journal of Intravenous Nursing, 1991. 14(4): p. 274-279.
- James, L., L. Bledsoe, and L.C. Hadaway, *A retrospective look at tip location and complications of PICC lines.* Journal of Intravenous Nursing, 1993. 16(2): p. 104-109.
- Hadaway, L.C. and T. Lawson, *Infusion of IV medications via midline catheters in home care patients*. Infusion Magazine, 1995. 1(6): p. 15-19.
- Hadaway, L.C., *Comparison of vascular access devices.* Seminars in Oncology Nursing, 1995. 11(3): p. 154-166.
- Hadaway, L.C., *Competency assessment: Infusion therapy and beyond, Part 1.* Home Care Nurse News, 1997. 4(8): p. 1, 5.
- Hadaway, L.C., *Competency assessment: Infusion therapy and beyond Part 2.* Home Care Nurse News, 1997. 4(9): p. 1, 5.
- Hadaway, L.C., *Resource Guide to Vascular Access*, 1997, National Association of Vascular Access Networks: Salt Lake City, UT.

- Hadaway, L.C., *Vascular access in home care: 1997 update.* Infusion, 1997. 4(1): p. 18-36.
- Hadaway, L.C., *Thrombotic and Nonthrombotic Complications: Loss of Patency.* Journal of Intravenous Nursing, 1998. 21(5S): p. S143-S160.
- Hadaway, L.C., *Vascular access in home care: 1998 update.* Infusion, 1998. 5(1): p. 20-40.
- Hadaway, L.C., *Developing an interactive intravenous education and training program.* Journal of Intravenous Nursing, 1999. 22(2): p. 87-93.
- Hadaway, L.C., *IV infiltration: Not just a peripheral problem.* Nursing99, 1999. 29(9): p. 41-47.
- Hadaway, L.C., *Vascular access devices: Meeting patient's needs.* MedSurg Nursing, The Journal of Adult Health, 1999. 8(5): p. 296-303.
- Hadaway, L.C., *Protect yourself from sharps injury!* Home Care Nurse News, 1999. accepted June 1999.
- Hadaway, L., *Navigating toward advanced nursing practice*. Journal of Vascular Access Devices, 1999. 4(3): p. 16-22.
  - Millam D, Hadaway L. On the road to successful IV starts. *Nursing2000*. 2000;30:34-50.
- Hadaway, L.C., *Breakthroughs in vascular access.* Nursing Management, 2000. 31(12): p. 45-46.
- Hadaway, L.C., *I. V. Infiltration: Not just a peripheral problem.* Nursing Management, 2000. 31(11): p. 25-32.
- Hadaway, L.C., *Managing IV. therapy: "High-alert" drugs keep nurse managers ever watchful.* Nursing Management, 2000. 31(10): p. 38-40.
- Hadaway, L.C., *How to safeguard delivery of high-alert IV. drugs.* Nursing 2001, 2001. 31(2): p. 36-41.
- Hadaway, L., *Deliver safer peripheral IV therapy.* Nursing2001, 2001(Education Directory): p. 7-13.
- Hadaway, L.C., *Safety legislation passed.* Journal of Vascular Access Devices, 2001. 6(1): p. 33-35.
- Hadaway, L..C., *Hub disinfection and its impact on catheter-related infections.* Journal of Vascular Access Devices, 2001. 6(2): p. 33-36.
  - Hadaway, L.C., Action Stat: Vesicant extravasation. Nursing2001, 2001. 31(8): p. 88.
- Kastango, E. S. and L. Hadaway, *New perspectives on Vancomycin use in home care, Part 1.*, International Journal of Pharmaceutical Compounding, 2001. 5(6): 465-469.

Hadaway, L., *Vascular access devices pinpoint safety.* Nursing Management, 2001. 32(10): p. 51-53.

Hadaway, L., I.V. risk reducers. Nursing Management, 2001. 32(12): p. 57-59.

Hadaway, L., *Vascular access devices pinpoint safety.* Nursing Management, 2001. 32(10): p. 5153.

Hadaway L. What you can do to decrease catheter-related infections. Nursing2002. 2002;32(9):46-48.

Hadaway L. IV infiltration: Not just a peripheral problem. Nursing2002. 2002;32(8):36-43.

Hadaway L. The diverse and conflicting standards and practices in infusion therapy: Evidence-based practice- Evolution of standards and guidelines. Journal of Vascular Access Devices. 2002;7(3):19-24.

Hadaway L. Skin Flora and Infection. *Journal of Infusion Nursing*. 2003;Volume 26(1):44-48.

Hadaway L. Evolving clinical practice: CDC releases new guidelines for reducing catheter-related infections. *Infusion*. 2002;8(7):16-22.

Hadaway L. On the road to successful IV starts. Nursing2003. 2003;33, Suppl 1(5):1-16.

Hadaway L. Clinical Queries: Can I stop a drug infusion to draw blood? *Nursing2003*. 2003;33(5):14.

Hadaway L. Vancomycin: New perspectives on an old drug. *Journal of Infusion Nursing*. 2003; 26(5): 278-284

Hadaway L. Infusing without infecting. Nursing2003. 2003;33(10):58-64.

Hadaway L. Managers Forum: Wiping intravenous ports with alcohol. *Journal of Emergency Nursing*. 2004;30(1):77-78.

Hadaway L. Reopen the pipeline for I.V. therapy. Nursing 2005. 2005;35(8):54-63.

Hadaway, L., Photo Guide: Caring for a nontunneled CVC site. Nursing2005, 2005. 35(12): p. 54-56.

Hadaway, L., Innovative staff education techniques. Journal of the Association for Vascular Access, 2005. 10(4): p. 193-198.

Hadaway, L., Keeping central line infection at bay. Nursing2006, 2006. 36(4): p. 58-64.

Hadaway L. Practical considerations in administering intravenous medications. Journal of Neuroscience Nursing. 2006;38(2):119-124.

Hadaway L. Technology of flushing vascular access devices. Journal of Infusion Nursing. 2006;29(3):137-145.

Hadaway L. Sharps Injuries: Infection control as a primary prevention strategy. Future Healthcare.

Vol 1. 1 ed; 2006:136-138.

Hadaway L. Heparin locking for central venous catheters. Journal of Association for Vascular Access. 2007;11(4):224-231.

Hadaway L. Flushing vascular access catheters: Risk for infection transmission. Infection Control Resources. 2007;4(2):1-8.

Hadaway L. Emergency: Infiltration and Extravasation-Preventing a complication of IV catheterization. American Journal of Nursing. 2007;107(8):64-72.

Hadaway L. Intermittent intravenous administration sets: Survey of current practices. Journal of American Association for Vascular Access. 2007;12(3):143-147.

Hadaway L. Misuse of prefilled flush syringes - Implications for medication errors and contamination. Infection Control Resources. 2008;4(4):2-4.

Hadaway LC. Targeting therapy with central venous access devices. Nursing. Jun 2008;38(6):34-40; quiz 40-31.

Hadaway LC. Managing vascular access device occlusions, part 1. Nursing. Jan 2009;39(1):10.

Hadaway LC. Managing vascular access device occlusions, part 2. Nursing. Mar 2009;39(3):13-14.

Hadaway LC. Preventing infections: it's in your hands. Nursing. Apr 2009;39(4):6.

Doellman D, Hadaway L, Bowe-Geddes LA, et al. Infiltration and extravasation: update on prevention and management. J Infus Nurs. Jul-Aug 2009;32(4):203-211.

Hadaway L. Protect patients from I.V. infiltration. American Nurse Today. 2009(7):10-12.

Hadaway L, Richardson D. Needleless Connectors: A Primer on Terminology. Journal of Infusion Nursing. 2010;33(1):22.

Hadaway L. Development of an Infusion Alliance. Journal of Infusion Nursing. 2010;33(5):278.

Hadaway, L., Polyhexamethylene Biguanide Dressing - Another Promising Tool to Reduce Catheter-related Bloodstream Infection. Journal of the Association for Vascular Access, 2010. 15(4): p. 203-205.

Hadaway L. Needleless Connectors: Improving Practice, Reducing Risks. Journal of the Association for Vascular Access. 2011;16(1):20-25, 28-30, 32-33.

Delp J, Hadaway L. New product decisions- The process and outcome for a community health system. Journal of the Association for Vascular Access. 2011;16(2):74-76, 78-79, 82-84.

Hadaway L. Needlestick Injuries, Short Peripheral Catheters, and Health Care Worker Risks. Journal of Infusion Nursing 2012;35:164-78.

Hadaway L. Short peripheral intravenous catheters and infection. Journal of Infusion Nursing 2012;35: 230-240

Hadaway L. Needleless Connectors for IV Catheters. AJN The American Journal of Nursing. 2012;112(11):32-44

Hadaway L, Dalton L, Mercanti-Erieg L. Infusion teams in acute care hospitals: call for a business approach: an infusion nurses society white paper. Journal of infusion nursing: the official publication of the Infusion Nurses Society. 2013;36(5):356.

Hadaway L, Wise M, M O, A B, L D, G G. Making the business case for Infusion Teams: The purpose, people, and process. Journal of Infusion Nursing. 2014;in press.

Marschall JMD, Mermel LADOS, Fakih MMDMPH, et al. Strategies to Prevent Central Line—Associated Bloodstream Infections in Acute Care Hospitals: 2014 Update. Infection control and hospital epidemiology. 2014;35(7):753-771.

#### REGULAR JOURNAL COLUMNS

Hadaway, L.C., *Catheter Connection*, Journal of Vascular Access Devices, published quarterly from Fall 1997 to Winter 2005.

Hadaway, L.C., *I.V. Rounds: Choosing the right vascular access device, part 1.* Nursing99, 1999. 29(2): p. 18.

Hadaway, L.C., *IV Rounds: Choosing the right vascular access device, Part 2.* Nursing99, 1999. 29(7): p. 28.

Hadaway, L.C, *I.V. Rounds: Understanding leukocyte reduction in blood transfusions.* Nursing99, 1999. 29(10): p. 74.

Hadaway, L.C, *I.V. Rounds Managing vascular access device occlusions, part 1.* Nursing2000, 2000. 30(7): p. 20.

Hadaway, L.C, *I.V. Rounds: Managing vascular access device occlusions, part 2.* Nursing2000, 2000. 30(8): p. 14.

Hadaway, L.C., *I.V. Rounds: Flushing to reduce central catheter occlusions.* Nursing2000, 2000. 30(10): p. 74.

Hadaway, L.C., *IV Rounds: Managing a vasovagal reaction.* Nursing2001, 2001. 31 (4): p. 73.

Hadaway, L., I.V. Rounds: Choosing the right vascular access device, part I. Nursing2002, 2002. 32(9): p. 75.

Hadaway, L., *I.V. Rounds: Choosing the right vascular access device, part II.* Nursing2002, 2002. 32(10): p. 74, 76.

Hadaway L.C., Action Stat: Air embolus. Nursing2002. 2002;32(10):104.

Hadaway L.C., I.V. Rounds: Prevent occlusions with these flushing pointers. Nursing2003. 2003;33(1):28.

- Hadaway, L., *I.V. Rounds: Delivering multiple medications via backpriming.* Nursing2004, 2004. 34(3): p. 24, 26.
- Hadaway, L., I.V.: Delivering multiple medications via backpriming. Nursing2004, 2004. 34(3): p. 24, 26.
- Hadaway L. I.V. Rounds: Keeping catheters clear with low-dose warfarin. Nursing2004. 2004;34(10):73.
  - Hadaway, L., IV Rounds: Giving vancomycin safely. Nursing2004, 2004. 34(12): p. 17.
  - Hadaway L. I.V. Rounds: Administering parenteral nutrition with other I.V. drugs. *Nursing2005*. 2005;35(2):26.
- Hadaway, L., I.V. Rounds: Closing the case on keep-vein-open rate. Nursing2004, 2004. 34(8): p. 18.
- Hadaway L. I.V. Rounds: Administering parenteral nutrition with other I.V. drugs. *Nursing2005*. 2005;35(2):26.
  - Hadaway, L., I.V. Rounds: Skin flora: Unwanted dead or alive. Nursing2005, 2005. 35(7): p. 20.
- Hadaway, L., IV Rounds: Giving medication by retrograde infusion. Nursing2005, 2005. 35(11): p. 28.
- Hadaway L. Exposure Safety: Tips for using implanted ports safely. Nursing2006. 2006;36(8):66-67.

#### **TEXTBOOK CHAPTERS**

- Hadaway, L.C., *Anatomy and physiology related to intravenous therapy*, in *Intravenous Therapy: Clinical Principles and Practice*, Judy Terry, *et al.*, Editors. 1995, W. B. Saunders: Philadelphia, PA. p. 81-110.
- Hadaway, L., *Intravenous Therapy*, in *Nursing Interventions and Clinical Skills*, M.K. Elkin, A.G. Perry, and P.A. Potter, Editors. 1999, Mosby: St Louis. p. 683-726.
- Hadaway, L., *Anatomy and Physiology Related to Intravenous Therapy*, in *Infusion Therapy in Clinical Practice*, J. Hankins, *et al.*, Editors. 2001, WB Saunders: Philadelphia.
- Hadaway, L., *Entrepreneurial Roles in IV Therapy*, in *Infusion Therapy in Clinical Practice*, J. Hankins, *et al.*, Editors. 2001, WB Saunders: Philadelphia.
- Hadaway, L. and G. Bland, *Principles of Adult Learning*, in *Core Curriculum for Staff Development*, A. Avillion, Editor. 2001, National Nursing Staff Development Organization: Pensacola, FL. p. 31-62.
- Hadaway L. Infusion Therapy. In: Ignatavicius D, Workman M, eds. *Medical-Surgical Nursing: Critical Thinking for Collaborative Care*. 5th ed. St. Louis: Elsevier; 2005:246-271.
  - Hadaway L. Anatomy and Physiology Related to Infusion Therapy. In: Alexander M, Corrigan A,

Gorski L, Hankins J, Perucca R, eds. *Infusion Nursing: An Evidence-Based Approach*. 3rd ed. St. Louis, MO: Saunders/Elsevier: 2010:139-177.

Hadaway L. Infusion Therapy Equipment. In: Alexander M, Corrigan A, Gorski L, Hankins J, Perucca R, eds. *Infusion Nursing: An Evidence-Based Approach*. 3rd ed. St. Louis, MO: Saunders/Elsevier; 2010:391-436.

Hadaway L. Intravenous Therapy. In: Hammond B, Zimmermann P, eds. Sheehy's Manual of Emergency Care. 7th ed. St. Louis: Elsevier; 2013:97-120.

#### **PRESENTATIONS**

*Teaching IV Therapy*, Intravenous Therapy Seminar, Southeastern Chapter, National Intravenous Therapy Association, Atlanta, Ga. 1976.

Review of IV Therapy, Meridian Council of Nursing, Meridian, MS, Sept., 1977.

Management of Common Problems Associated with Peripherally Inserted Central Catheters, Poster Presentation, Annual Meeting, National Intravenous Therapy Association, Hollywood, Fl. June, 1984.

Multiple Sclerosis: Immunosuppressive Treatment Using ACTH and Cyclophosphamide (Cytoxan):, Annual Meeting, National Intravenous Therapy Association, Phoenix, Arizona, May 1985.

IV Skills Update, Doctors Memorial Hospital, Atlanta, GA, Sept., 1985.

*Total Parenteral Nutrition*, IV Update, Northeast Georgia Medical Center, Gainesville, Ga., Nov., 1985.

*Nursing Considerations for Third Generation Cephalosporins*, Poster Presentation, Annual meeting, National Intravenous Therapy Association, New Orleans, La., May 1986.

*Nursing Diagnosis Applied to Intravenous Nursing Practice*, Annual meeting, National Intravenous Therapy Association, Nashville, TN., May 1987.

*Nursing Diagnosis and IV Therapy*, Roundtable Discussion, Annual meeting, Intravenous Nurses Society, San Diego, Ca. May 1988.

*Administering Blood Components*, Blood Components Symposium, American Red Cross, Atlanta, Ga. Sept., 1987 and May 1988.

Laboratory Data, Interpretation and the Nurses Responsibility, Second Annual Seminar, West Virginia Chapter, INS, Sept., 1988.

Repeated for IV Update: 1988, Southeastern Chapter, INS, Oct. 1988.

Evaluation and Use of Advanced IV Technologies: Central Venous Access Devices and Patient Controlled Analgesia, Advanced Studies in Intravenous Nursing, Intravenous Nurses Society, St. Louis, MO, Nov. 1988.

Fluid and Electrolyte Balance: IV Therapy Applications, 3 hour workshop, annual meeting, Intravenous Nurses Society, Miami, Fl., May 1989.

*New Technologies in Vascular Access Devices*, South Georgia Medical Center, Valdosta, GA. Sept., 1989

Approaching the State Board of Nursing on Issues of Advanced Practice, Annual Meeting, Intravenous Nurses Society, Reno, NV, May 1990

State Coalitions: IV Nursing Involvement, Roundtable Discussion, Intravenous Nurses Society, Reno, NV, May 1990

*Infections Associated with Central Venous Devices*, Georgia Infection Control Network, Sept., 1990, Has been repeated at several INS Chapter meetings.

Comparing and Contrasting PICC and Midline Catheters, Capitol Chapter, Intravenous Nurses Society, April, 1991. Has been repeated at several INS Chapter meetings.

Intravenous Nursing Code of Ethics: A Model for the Specialty, Annual Meeting, Intravenous Nurses Society, Miami, FL May. 1991.

Fluid and Electrolytes, Infection Control and Pediatrics for Credentialing Review Course for Southeastern Chapter, INS, July 1991, 1992, 1993

Midline Catheters, Florida State INS Chapters Seminar, Orlando, FL, October, 1991.

*Infections in Vascular Access Devices: Prevention in the Home*, National Association for Home Care, Boston, MA, October, 1991.

Antimicrobials for Skin Preparation, roundtable presentation at INS Annual Meeting, Orlando, FL May 1993,

A-Z of Vascular Access Devices, seminar New England Association for Practitioners in Infection Control, Sturbridge, MA, March, 1994

Issues Impacting PICC and Midline Catheters, Southeastern Chapter, INS seminar, Atlanta, GA March, 1994

*Principles of Anatomy and Physiology Applied to Vascular Access Devices*, Southeastern Chapter, INS seminar, Atlanta, GA March, 1994

*PICC and Midline Catheters*, seminar Pine Tree Chapter, INS, Portland, ME, April 1994; Gulf Coast Chapter, INS, March, 1995

Vascular Access Devices- Factors for Making Appropriate Choices, annual meeting Canadian Intravenous Nurses Association, Toronto, October 1994; Greater Cleveland Chapter, INS, January 1995; Southeastern Chapter INS, March 1995, Birmingham Chapter, INS, Sept., 1996, Heart of Ohio INS Chapter, Oct., 1996

Infection Control for Vascular Access Devices, Metro-Island INS chapter, December 1994

Mast Cell Physiology and it's Correlation to Intravenous Therapy, poster presentation, INS Annual Meeting, Phoenix, AZ, May, 1995 and NAVAN Annual Meeting, September, 1995

*Infiltration and Extravasation: Identification and Intervention*, general session speaker, INS Annual Meeting, Charlotte, NC, May 1996

Extravasation: Issues and Controversies, general session speaker, INS National Academy and Annual Meeting, Salt Lake City, UT, May 1997

*Training the Trainers*, an invitation only workshop at the INS Annual Meeting, Salt Lake City, UT, May 1997

*PICCs: Current Choices and Challenges*, presented in multiple locations for the American Pharmaceutical Association, 1997

Vascular Access Devices: Meeting Patient's Needs, presented at the 6th Annual Convention, Academy of Medical Surgical Nursing, November 1997

*Intra- and Entrepreneurship*, a panel discussion of nurse entrepreneurs, Nursing Forum '98: Focus on the Future, Georgia Council of Specialty Nursing Organizations, February 1998

Developing an Interactive Infusion Education and Training Program, INS Annual meeting, Houston, TX, May 1998

Navigating Toward Advanced Practice Nursing, presented at the NAVAN annual meeting, San Diego, CA, Sept. 1998; Southeastern Chapter, INS, Jan 1999; annual meeting of the League for Intravenous Therapy Education (LITE), Feb, 1999

Developing a Business Plan and Accessing Capital, annual meeting of INS, Charlotte, NC, May 1999

Loss of Catheter Patency: Thrombotic and Nonthrombotic Occlusions, a manufacturer's showcase, annual conference of NAVAN, Orlando, FL, Sept. 1999; North Carolina INS Chapter, October 1999.

*Infiltration and Extravasation, Assessing Vascular Access Needs*, Nursing2000 Conference sponsored by Springhouse Corporation, March 2000

Assessing Vascular Access Needs, Nursing 2000 Conference, sponsored by Springhouse Corporation, March 2000; repeated at same conference April 2002.

*Distance Learning*, a roundtable discussion, annual meeting of INS, Minneapolis, MN, May 2000; annual conference of NAVAN, September 2000.

Antiseptics and Disinfectants: The Skin, The Hub and Beyond, a general session at the annual conference of NAVAN, San Diego, CA Sept. 2000; and a breakout session at the annual conference of the Emergency Nurses Association, New Orleans, LA, September 2002

Peripherally Inserted Central Catheters (PICC): Candidates, Care, and Costs, a breakout session at the annual conference of the Academy of Medical-Surgical Nurses, Orlando, FL, October 2000

Skin Flora and Infection, National Academy INS, Dallas, TX November 2001

*Preventing Infections in Vascular Access*, a breakout session at Nursing2003 Symposium, Las Vegas, NV, April 2002; repeated same conference, Orlando, FL, April 2003

Update on Skin Antisepsis, annual meeting of NAVAN, San Diego, September 2002

Vascular Access: Choices and Challenges in the ER, a breakout session at the annual conference of the Emergency Nurses Association, New Orleans, LA, September 2002

Exploring Closed Systems: Past, Present, and Future, a breakout session at the annual conference of the National Association of Vascular Access Networks, Atlanta, GA September 2003

Advancing Your Knowledge and Skills in Infusion Therapy, a preconference workshop, Nursing2004 Symposium, April 2004, Las Vegas, NV; repeated Nursing2005 Symposium, New Orleans, LA; repeated Nursing2006 Symposium, Las Vegas, NV

Blood Component Administration: When, Where, and How, a breakout session, Nursing2004 Symposium, April 2004, Las Vegas, NV

Catheter Lumen Occlusion, a breakout session, Nursing2004 Symposium, April 2004, Las Vegas, NV

Preventing Infection in Infusion Therapy, a general session, annual conference of the Rocky Mountain Infection Control Association, Salt Lake City, UT, May 2004

Innovative Staff Education Techniques, a breakout session, annual meeting of the Association for Vascular Access, Sept 2004, Vancouver, BC

Nosocomial Blood Loss, Anemia, and Blood Sampling Techniques, a breakout session, annual meeting of the Association for Vascular Access, Sept 2004, Vancouver, BC

*Technology of Catheter Flushing*, a general session, annual conference of the Infusion Nurses Society, May 2005, Fort Lauderdale, FL

Developing Your Own Business, a roundtable discussion, annual conference of the Association for Vascular Access, January 2006, Savannah, GA

Preventing Blood Stream Infections, a breakout session at the Nursing2006 Symposium, Las Vegas, NV, April 2006

Intravenous Teams: Justification and Development, a general session at the Chinese Nurses Association conference, Haikou, China, April 2007

Pathogenesis Predicts Prevention: Causes and Care of Catheter Complications, a breakfast symposium at the 2006 annual conference of the Infusion Nurses Society, Reno, NV, May 2006; 2006 annual conference of the Association for Vascular Access, Indianapolis, IN, Sept 2006; multiple INS chapter meeting; also presented at a lunch symposium at the Japanese Society for Healthcare Quality and Safety, Tokyo, Japan, November 2008.

Infusion Nursing Standards of Practice: What is New for 2006, Capitol Chapter, INS, Baltimore, MD, June 2006

Catheter-related Bloodstream Infections, general session of the annual conference of the Georgia Infection Control Network, Savannah, GA, October 2006

Intravenous Teams: Justification and Development, a general session presentation to the Chinese Nurses Association and the Chinese Infusion Nurses Society, Haikou, China, April 2007

The Ins and Outs of I.V. Therapy, an 8 hour pre-conference workshop prior to the Nursing2007 Symposium, Orlando, FL, April, 2007

Catheter-related Bloodstream Infections, a general session at the Nursing2007 Symposium, Orlando, FL April, 2007

Advances in Vascular Visualization Technology, a general session of the National Academy of Infusion Therapy, Infusion Nurses Society, Orlando, FL, June 2007

Catheter Patency: Flushing Away the Myths, a series of 3 one hour webinars, presented by the Infusion Nurses Society, April, May, & June 2008

Recognition and Management of Heparin-Induced Thrombocytopenia, a general session of the National Academy of Infusion Therapy, Infusion Nurses Society Annual Conference, Phoenix, AZ, May 2008

Central Vascular Access Stabilization: What We Know and What We Need To Know, multiple chapters of the Infusion Nurses Society, Association for Vascular Access, and Association for Practitioners in Infection Control, over 2008 and 2009

Flushing Intravascular Catheters-Preventing Complications, a half-day workshop and a preconference symposium at the Hong Kong Infection Control Nurses Association conference, Hong Kong, September 2008

Maintaining Catheter Patency: A Patient-Centered Approach, a breakfast symposium, National Home Infusion Association annual conference, Baltimore, March 2009

Peripheral and Central Venous Catheters: Providing Care and Preventing Complications, an all-day pre-conference workshop, Nursing2009 Symposium, Orlando, FL, May 2009

New Imaging Devices for Vascular Access, a general session of the Infusion Nurses Society Annual Conference, Nashville, TN, May 2009

Flushing Intravascular Catheters-Preventing Complications, symposium at the Brazilian Infusion Nurses Society conference, August 2009

Development of an Infusion Alliance, a preconference workshop presentation, Fall Academy, INS, Jacksonville, FL, November, 2009

Assessing Vascular Access Needs, a breakout session, World Congress on Vascular Access, Amsterdam, The Netherlands, June 2010

Catheter Locking Solutions: Alternatives to Heparin, a breakout session, World Congress on Vascular Access, Amsterdam, The Netherlands, June 2010

Stop the Infusion Confusion: Care and Maintenance of Needleless Connectors, numerous INS and AVA chapters in United States, from 2010 through 2012

*Needleless Connectors: Learning the Language,* breakout session, annual conference, Association for Vascular Access, National Harbor, MD, September 2010

Flushing and Locking Intravascular Catheters, workshops sponsored by BD Medical, Inc. for nurses and physicians in Manila, Philippines, Delhi, Chennai, and Mumbia, India, September 2010

Disappearing IV Teams: Justified or Not?, exhibitor theater, annual conference, Association for Vascular Access, National Harbor, MD, September 2010

The Perils of Power Injection: Infiltration/Extravasation Injury, breakfast symposium, Association for Vascular Access, National Harbor, MD, September 2010.

*User Adoption of Safety Technology*, 10<sup>th</sup> Anniversary of the Needlestick Safety and Prevention Act: Mapping Progress, Charting a Future Path, November 2010

Standards of Practice, a general session at the annual convention of the Infusion Nurses Society, Louisville, KY, May, 2011.

Short Peripheral Catheter Insertion – Assessing Risk to Healthcare Workers, an exhibitor showcase, annual convention of the Infusion Nurses Society, Louisville, KY, May 2011; repeated at the annual conference for the Association of Vascular Access, San Jose, CA, October 2011.

Catheter Locking Solutions – Alternatives to Heparin, a breakout session at the annual conference of the Association for Vascular Access, San Jose, CA, October, 2011

Escalation of Vascular Access Devices, an exhibitor theater at the annual conference for the Association of Vascular Access, San Jose, CA, October 2011.

Short Peripheral Catheters and Infection, numerous INS and AVA chapters, 2011 and 2012; an abstract presentation at the World Congress on Vascular Access, Amsterdam, The Netherlands, June 2012

Infusion Therapy and Vascular Access: A Marriage of Necessity, annual conference of the North East Ohio, AVA, Cleveland, OH, May 2012

Mucocutaneous Blood Exposure and Peripheral Catheters – Acknowledging the Risk, Documenting Occurrences, an exhibitor theater at the annual convention of the Infusion Nurses Society, Las Vegas, NV, May 2012

Extravasation with Power Injection: Techniques and Technology to Mitigate the Risks, an exhibitor theater at the annual convention of the Infusion Nurses Society, Las Vegas, NV, May 2012

*Needleless Connectors*, a breakout session at World Congress on Vascular Access, Amsterdam, The Netherlands, June 2012

Reducing Infection Risks Related to Vascular Access Devices: A Focus on Personnel Competency and Training, an online webinar, sponsored by TargetBSI, June 2012

Infusion Therapy Standards and Guidelines: Your Safety Net for the Tightrope Walk, a 3 hour workshop at the annual conference of the Rheumatology Nurses Society, Tampa, FL August 2012

Flushing and Locking Intravascular Catheters, a 2 hour presentation given in Shanghai, Chengdu, Jinan, Beijing, and Shenyang, China in November 2012

Short Peripheral Catheters and Infection, Global Leadership Strategies conference, Minneapolis, MN, sponsored by 3M and BD Medical, May 2013

Minimizing Risks and Liability of Technical Innovations in Contrast Extravasation, annual conference of the Association of Vascular Access, Nashville, TN, September 2013

SHEA Compendium 2014 Update – Central Line Associated Bloodstream Infection, annual conference, Association for Professionals in Infection Control and Epidemiology (APIC), Anaheim, CA. June 2014

Validating Infusion/Vascular Access Teams: Making the Case for Your Hospital, bi-annual conference, World Congress on Vascular Access, Berlin Germany, June 2014

#### **EDUCATIONAL PROGRAMS DEVELOPED**

**Peripherally Inserted Central Catheters -- Successfully Managing Your Patient**, a 9 hour continuing education offering created for Menlo Care, Inc.

Adverse Events in IV Therapy, a 90 minute CE offering created for Menlo Care, Inc.

An Update in Intravenous Therapy, a 2-day continuing education offering sponsored by Georgia Community Health Education Program of the Carl Vinson VA Medical Center, Dublin, GA

CRNI Certification Review Course, a 2 day continuing education offering

Vascular Access Demystified, a 1 day continuing education offering

Administration of Antineoplastic Therapy, a 2 day continuing education offering

Concepts in Vascular Access, a 1 day continuing education offering

#### Train-the-Trainer Courses:

Peripheral IV Therapy in Adults Central Venous Catheter Management Assessing Vascular Access Needs

Assessing Vascular Access Needs, an asynchronous learning process delivered via the World Wide Web

**PICC and Midline Catheters: Viable Vascular Access Options**, a 1-day continuing education offering. This PICC Course meets the minimum curriculum requirements as outlined by the National Association of Vascular Access Networks (NAVAN).

Vascular Access Devices: Risks, Complications, and Costs, a 1 hour continuing education program offered through Catheter Innovations, Inc. and Boston Scientific Corporation.

**Peripheral Intravenous Therapy in Adults: A Self-study workbook for nurses**, a product for sale through Lynn Hadaway Associates, Inc.

**Peripheral Intravenous Therapy in Adults**, an online continuing education course, addresses the knowledge acquisition and critical thinking components.

**Peripheral Intravenous Therapy Skills Lab**, a continuing education course offered in a traditional classroom setting; requires completion of the online course and emphasizes the psychomotor skills related to IV therapy.

**PICC and Midline Catheters: Care and Complications**, an online continuing education course addressing knowledge acquisition and critical thinking components.

**Vascular Access Devices: Choices and Challenges**, a continuing education course offered in a traditional classroom setting.

*Infiltration and Extravasation from Vascular Access Devices*, an online continuing education course, addresses knowledge acquisition and critical thinking components.

**Central Vascular Access Devices**, an online continuing education course, addressing knowledge acquisition and critical thinking skills.

Midline Catheters: What, Why and When, an online continuing education course

# REFERENCES Available upon request