

## CURRICULUM VITAE

### CONTACT INFORMATION

University of Pittsburgh, School of Nursing  
Department of Nurse Anesthesia  
3500 Victoria Street, Room 360A  
Pittsburgh, PA 15261  
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[jsgst33@pitt.edu](mailto:jsgst33@pitt.edu)

### EDUCATION & TRAINING

2018 (12-15-18)	University of Pittsburgh Pittsburgh, Pennsylvania	Doctoral Program PhD-Nursing
1998 – 2000 (12-16-2000)	University of Pittsburgh Pittsburgh, Pennsylvania	Masters Nursing: Nurse Anesthesia Education Minor
1996 - 1997 (08-09-1997)	University of Pittsburgh Pittsburgh, Pennsylvania	Bachelor of Science Nursing
1991 - 1993	Community College of Allegheny County Allegheny Campus Pittsburgh, Pennsylvania	Associates Degree Nursing
1978 - 2003	University of Michigan Ann Arbor, Michigan	Bachelor of Arts Biological/Medical Illustration

### APPOINTMENTS & POSITIONS

2020 - present	University of Pittsburgh School of Nursing Department of Nurse Anesthesia Pittsburgh, Pennsylvania	Associate Professor Assistant Program Director (2022) Vice-Chair for Research (2022)
2019 - 2020	University of Pittsburgh School of Nursing Department of Nurse Anesthesia Pittsburgh, Pennsylvania	Assistant Professor
2006 - 2018	University of Pittsburgh Medical Center Department of Anesthesiology University of Pittsburgh School of Nursing Nurse Anesthesia Program Pittsburgh, Pennsylvania	CRNA Instructor Nurse Anesthesia Program Faculty Admissions Coordinator (since 2008)

**APPOINTMENTS & POSITIONS** *(continued)*

2000 - present	University of Pittsburgh Medical Center Department of Anesthesiology Pittsburgh, Pennsylvania	Certified Registered Nurse Anesthetist
2001 - 2018	University of Pittsburgh School of Nursing Nurse Anesthesia Program Pittsburgh, Pennsylvania	Adjunct Faculty
2004 - 2005	University of Pittsburgh School of Nursing Pittsburgh, Pennsylvania	Half-Time Faculty Appointment Nurse Anesthesia Program
1997 - 2000	Allegheny General Hospital Cardiothoracic/Surgical ICU Pittsburgh, Pennsylvania	Registered Nurse
1989 - 1998 and 1985 - 1988	Montefiore University Hospital University of Pittsburgh Medical Center Department of Physiologic Profiles Pittsburgh, Pennsylvania	Clinical Research Technician
1987 - 1993	Children's Hospital of Pittsburgh Perfusion Services Department Pittsburgh, Pennsylvania	ECMO/Perfusion Technician
1988 - 1989	Children's Hospital of Pittsburgh Medical Media Department Pittsburgh, Pennsylvania	Medical Illustrator

**LICENSURE & CERTIFICATION**

2001	Certified Registered Nurse Anesthetist
1993	Professional Nurse, Commonwealth of Pennsylvania
current	Advanced Cardiac Life Support Certification, American Heart Association
current	Basic Life Support Certification, American Heart Association
current	Pediatric Advanced Life Support Certification, American Heart Association

## PROFESSIONAL ORGANIZATIONS, COMMITTEES AND WORKING GROUPS

Current	Pandemic Safety Ambassador for the Department of Nurse Anesthesia, School of Nursing
Previous	University of Pittsburgh School of Nursing Information Technology Task Force
Current	Winter Institute for Simulation, Education & Research (WISER) Research & Scholarship Committee
1997 - present	American Association of Nurse Anesthetists
2014 - present	American Association for the History of Nursing (board member 2021-2023)
2006 - present	CF Reynolds Medical History Society
2012 - present	History of Science Society
2000 - present	Sigma Theta Tau, Eta Chapter
2010 - present	Society for Airway Management
2007 - present	Society for Simulation in Healthcare
2020 - 2021	UPMC Presbyterian Hospital Department of Anesthesia & Perioperative Medicine COVID Response Team Planning and Coordination

## RESEARCH SUPPORT

2017	Margaret E Wilkes Scholarship Fund Award, University of Pittsburgh School of Nursing Simulation in Nursing: Historical Analysis and Theoretical Modeling in Support of a Targeted Clinical Training Intervention IRB# PRO16100639 Principal Investigator Award Amount: \$4000
2006-2007	University of Pittsburgh, Department of Anesthesiology Seed Grant Award Evaluation and Validation of a Novel System for Quantitative Assessment of Bag Valve Mask Ventilation (BVMV) IRB# 0607031 Principal Investigator Award Amount: \$7654
2005	USAF funded project, administered by the US Army Medical Research Acquisition Activity, Ft. Detrick, MD (Award # DAMD 17-03-2-0017) The Nursing Back Injury Prevention Project (N-BIPP) – A Pilot Study: Implementation of an Innovative and Comprehensive Training Program Using Simulation Education and an Internet Based Curriculum to Improve Provider Knowledge in Patient Transfer and Provider Adherence to a 10 Point Patient Transfer Protocol. IRB# 0511041 Co-Investigator Award Amount: \$490,000

## RESEARCH SUPPORT *(continued)*

- 2005-2006      Sigma Theta Tau International, Eta Chapter Research Grant  
The Impact of Intravenous Catheter Insertion Training Modalities (Simulated) On Clinical  
Intravenous Catheter Insertion Performance.  
IRB # 0510116.  
Co-Investigator  
Award Amount: \$1500
- 2001-2003      Subcontract on TATRC grant to IITRI  
Virtual Reality & Simulation Training modules for deployment of a “Smart Aortic Arch Catheter”  
Co-Investigator  
Award Amount: \$150,000

## PUBLICATIONS, ABSTRACTS & POSTER PRESENTATIONS

### Refereed Articles & Published Abstracts

Estock JL, Murray AW, Mizah MT, Mangione MP, Goode JSJ, Eibling DE. Label Design Affects Medication Safety in an Operating Room Crisis: A Controlled Simulation Study. *J Patient Saf.* March 2015.

O'Donnell JM, Goode JS, Henker RA, Kelsey S, Bircher N, Peele P, Engberg R, Close J, Sutton-Tyrrell K. An Ergonomic Protocol for Patient Transfer That Can Be Successfully Taught Using Simulation Methods. *Clinical Simulation in Nursing.* 2012; 8(1).

Goode, Jr JS, Taylor RL, Buffington CW, Klain MM, Schwartzman D. Letter to the Editor: On the Safety and Efficacy of High Frequency Jet Ventilation During Posterior Left Atrial Ablation. *Heart Rhythm.* 2011; 8(8).

O'Donnell JM, Goode JS, Henker RA, Kelsey S, Bircher N, Peele P, Bradle J, Close J, Engberg R, Sutton-Tyrrell K. Effect of a simulation educational intervention on knowledge, attitude, and patient transfer skills: from the simulation laboratory to the clinical setting. *The Journal for the Society for Simulation in Healthcare.* 2011; 6(2): 84-93.

Goode JS, O'Donnell JM. Evaluation of a Novel System for Quantitative Assessment of Bag Valve Mask Ventilation. *Simulation in Healthcare: The Journal of the Society for Simulation in Healthcare.* 2007 1(1S):96.

O'Donnell JM, Goode JS, Odonohoe, O, Choe, M. The Impact of Intravenous Catheter Insertion Training Modalities On Clinical Intravenous Catheter Insertion Performance in Graduate Nursing Students. *Simulation in Healthcare: The Journal of the Society for Simulation in Healthcare.* 2007 1(1S):114.

## **PUBLICATIONS, ABSTRACTS & POSTER PRESENTATIONS**

### **Refereed Articles & Published Abstracts (continued)**

O'Donnell JM, Bradle JA, Goode JS. Development of a Simulation and Internet Based Pilot Intervention to Evaluate Adherence to a Patient Transfer Protocol in the Real World Environment. *Simulation in Healthcare: The Journal of the Society for Simulation in Healthcare*. 2007 1(1S):62.

O'Donnell JM, Goode JS, Bradle JA, Fleegle-Vistas JA, Caccamese SA, Wolf GA, Cook E, Dadday CV, Moczan AM, Martin D. The Nursing Back Injury Prevention Project (N-BIPP): A pilot study. *AANA Journal*. 2006; 74(5):402-403.

Goode, Jr JS, Taylor RL, Buffington CW, Klain MM, Schwartzman D. High Frequency Jet Ventilation: Utility in posterior left atrial catheter ablation. *Heart Rhythm*. 2006; 3(1):13-19,

Lucke KT, Coccia H, Goode JS, Lucke JF. Quality of life in spinal cord injured individuals and their caregivers during the initial 6 months following rehabilitation. *Quality of Life Research*. 2004; 13(1): 97-110

O'Donnell J, Sell S, Rauso L, Goode J. Undisclosed Port Wine Stain: Anesthetic Implications and Psychosocial Considerations. *AANA Journal*. 2001; 69(3):206-210.

Goode, Jr JS, O'Donnell JM, Klain M, Taylor R. Bilateral tension pneumothorax during jet ventilation: Letter to the Editor. *AANA Journal*. 2000;68(6):484-86.

Hattler BG, Reeder GD, Sawzik PJ, Lund LW, Walters FR, Shah AS, Rawleigh J, Goode JS, Klain M, Borovetz HS. Development of an intravenous membrane oxygenator: enhanced intravenous gas exchange through convective mixing of blood around hollow fiber membranes. *Artificial Organs*. 1994;18(11):806-812.

Reeder GD, Hattler BG, Rawleigh J, Walters F, Sawzik PJ, Lund LW, Klain M, Goode JS, Borovetz HS. Current progress in the development of an intravenous membrane oxygenator. *ASAIO Journal*. 1993;39(3):M461-465.

Menegazzi JJ, Auble T, Nicklas K, Hosack G, Rack L, Goode J. Two-thumb versus two-finger chest compression during CPR in a swine infant model of cardiac arrest. *Annals of Emergency Medicine*. 1993;22(2):240-43.

Hattler BG, Johnson PC, Sawzik PJ, Schaffer FD, Klain M, Lund LW, Reeder GD, Walters FR, Goode JS, Borovetz HS. Respiratory dialysis: A new concept in pulmonary support. *ASAIO Journal*. 1992;38(3):M322-325.

Ward KR, Menegazzi JJ, Yealy DM, Klain M, Molner RL, Goode JS. Translaryngeal jet ventilation and PET CO<sub>2</sub> monitoring during varying degrees of upper airway obstruction. *Annals of Emergency Medicine*. 1991;20(11):1193-97.

## **PUBLICATIONS, ABSTRACTS & POSTER PRESENTATIONS**

### **Refereed Articles & Published Abstracts** *(continued)*

Ward KR, Menegazzi JJ, Yealy DM, Klain M, Molner RL, Goode JS. Translaryngeal jet ventilation and end-tidal PCO<sub>2</sub> monitoring during varying degrees of upper airway obstruction. *Annals of Emergency Medicine* 1990. ;19:956-57.

Yealy DM, Menegazzi JJ, Klain M, Goode J, Molner R. The effect of varying lung compliance on delivered tidal volume and peak tracheal pressure during low-frequency jet ventilation. *Annals of Emergency Medicine*. 1990;19:480-81.

### **Books and Book Chapters**

Goode Jr., JS. Action, Practice and Reflection: Dewey's Pragmatist Philosophy and the Current Healthcare Simulation Movement, in Bluhm, R., **Knowing and Acting in Medicine**. Rowan and Littlefield, London, 2016.

Goode Jr., JS, O'Donnell, JM. Simulation in Nursing Education and Practice, in Riley, R., **A Manual of Simulation in Healthcare** (2<sup>nd</sup> Edition). Oxford, New York:Oxford University Press, 2016.

Klain, MM, Goode Jr., JS. High Frequency Jet Ventilation, in Orebaugh, SL, **Atlas of Airway Management: Techniques and Tools**, 2<sup>nd</sup> Edition. Lippincott Williams and Wilkins, 2012.

O'Donnell, JM, Goode Jr., JS. Simulation in Nursing Education and Practice, in Riley, R., **A Manual of Simulation in Healthcare**. Oxford, New York:Oxford University Press, 2008.

### **Poster Presentations, Proceedings & Conferences**

Goode, Jr JS, O'Donnell JM. The Use of Hierarchical Task Analysis to Evaluate Transference of Learned Skills From the Simulation Lab to the Clinical Setting. Poster presented at the 3<sup>rd</sup> Annual University of Pittsburgh School of Nursing PhD Research Day, June 2, 2011, Pittsburgh Pennsylvania.

Goode, Jr JS, Ranier R, Klain M, Schwartzman D, Buffington CW The Use of High Frequency Jet Ventilation for Posterior Left Atrial Ablation. Poster presented at the 1<sup>st</sup> Annual University of Pittsburgh Anesthesiology Research Day, May 5, 2009, Pittsburgh Pennsylvania.

Goode, Jr JS, Schumann T, Klain M, O'Donnell JM. Evaluation and Validation of a System for Quantitative Assessment of Bag Valve Mask Ventilation. Poster presented at the 1<sup>st</sup> Annual University of Pittsburgh Anesthesiology Research Day, May 5, 2009, Pittsburgh Pennsylvania.

## **PUBLICATIONS, ABSTRACTS & POSTER PRESENTATIONS**

### **Poster Presentations, Proceedings & Conferences (continued)**

Goode JS, Klain M. The Advantages of High Frequency Jet Ventilation in Posterior Left Atrial Catheter Ablation. Abstract presented at the 5<sup>th</sup> General Assembly of the European Society of Jet Ventilation, November 21-23, 2008, Heidelberg, Germany.

Goode JS, Schumann T, Klain M, O'Donnell JM. Evaluation and Validation of a Novel System for Quantitative Assessment of Bag Valve Mask Ventilation (BVMV). Poster Presentation. 7<sup>th</sup> Annual International Meeting for Simulation in Healthcare, January 14-17, 2007; Lake Buena Vista, FL.

Goode JS, O'Donohoe O, Choe, MJ, Palmer L, O'Donnell JM. The Impact of Intravenous Catheter Insertion Training Modalities on Clinical Intravenous Catheter Insertion Performance in Graduate Nursing Students. Poster Presentation. 7<sup>th</sup> Annual International Meeting for Simulation in Healthcare, January 14-17, 2007; Lake Buena Vista, FL.

McKinnon J, Goode JS, Lutz J, O'Donohoe O, Phrampus P, O'Donnell JM. The Public EndNote Reference Project (PERP) at WSER: A Research and Publication Tool for simulation Educators. Poster Presentation. 7<sup>th</sup> Annual International Meeting for Simulation in Healthcare, January 14-17, 2007; Lake Buena Vista, FL.

O'Donnell JM, Bradle JA, Goode JS. Development of a Simulation and Internet Based Pilot Intervention to Evaluate Adherence to a Patient Transfer Protocol in the Real World Environment. Poster Presentation. 7<sup>th</sup> Annual International Meeting for Simulation in Healthcare, January 14-17, 2007; Lake Buena Vista, FL

O'Donnell JM, Goode JS, Bradle JA, Fleegle-Vistas JA, Caccamese SA, Wolf GA, Cook E, Dadday CV, Moczan AM, Martin D. The Nursing Back Injury Prevention Project (N-BIPP): A pilot study. Poster Presentation. Annual Meeting of the American Association of Nurse Anesthetists, August 2006; Cleveland.

Bradle J, O'Donnell JM, Goode, JS, Wolf G, Cook E, Daday C, Martin D, Penrod A, Fleegle J, Caccamese S, Patton D, Bellisario C, Rutter S, Kassab, D. How to Develop a Nursing Back Injury Prevention Program Using Practice Simulation. Poster Presentation, AONE National Meeting, April 2006

Goode JS, Klain M. Planning and implementation of a unique method of ventilation during carinal resection. Abstract presented at the 2<sup>nd</sup> Annual Meeting of the European Society of Jet Ventilation, September 20-21, 2002, Jena, Germany. *Anaesthesiologie & Intensivmedizin* 2002; 43:531.

Goode JS, O'Donnell JM, Taylor RL, Klain M. High Frequency Jet Ventilation: Introductory concepts, intraoperative applications and future directions. Abstract presented at the 68th Annual Meeting of the American Association of Nurse Anesthetists, August 13, 2001; San Francisco.

**PUBLICATIONS, ABSTRACTS & POSTER PRESENTATIONS**

**Poster Presentations, Proceedings & Conferences** *(continued)*

Goode JS, Klain M, Keenan RJ. Carinal resection and reconstruction: A case report. Abstract presented at the 68th Annual Meeting of the American Association of Nurse Anesthetists, August 14, 2001; San Francisco.

Klain M, Goode J, Ziemba A. Use of automated data collection for bench evaluation of jet catheters. Paper presented at: Society of Critical Care Medicine 23rd Educational and Scientific Symposium; January 1994, 1994.

Klain M, Goode, Jr, JS, Molner RL, Ziemba A, Casey D. Advanced computer systems for resuscitation and intensive care. Paper presented at: Russian Academy of Medical Sciences Scientific Research Institute Symposium: Actual Problems and Horizons of the Modern Reanimatology Development; March 1994, 1994; Moscow.

Boucek CD, Bircher N, Klain M, Goode J. Hemodynamic response to intra-arterial potassium in dogs. Paper presented at: Anesthesia and Analgesia IARS Meeting; March 1994, 1994; Orlando, FL.

Goode, Jr, J, Klain M, Porreca A, Schumann T, Ziemba A. Automated data collection in a simulated respiratory circuit. Paper presented at: Sixth International Symposium on Computing in Anesthesia and Intensive Care; April 1991, 1991; Hamamatsu, Japan.



## INVITED LECTURES & UNPUBLISHED PRESENTATIONS

- November 10, 2022      Getting WISER During a Pandemic: Lessons Learned for Simulation Educators.  
Faculty: John O'Donnell, CRNA, MSN, DrPH, Joseph Goode, CRNA, PhD  
Western Australia Society for Simulation in Healthcare (WASSH). (Keynote speakers,  
virtual)
- October 13, 2022      Leveraging Simulation to Address Specific Educational Requirements & Clinical Practice  
Gaps - Laerdal Simulation Users Network Conference
- May 17, 2022          High Frequency Jet Ventilation: Introductory Concepts and Applications in the  
Electrophysiology Laboratory Setting  
Forbes Regional Department of Anesthesiology  
Monroeville, PA
- December 11, 2021      High Frequency Jet Ventilation: Introductory Concepts and Intraoperative Applications  
Department of Anesthesiology & Perioperative Medicine  
University of Massachusetts Chan Medical School/UMass Memorial Health Care  
Worcester, MA  
(Via Zoom)
- April 23, 2019          Simulation as a Dissertation Focus: A Reflection on the Twisting Road of Doctoral  
Education  
17<sup>th</sup> Annual Safar Symposium  
Pittsburgh, PA
- April 23, 2019          Facilitation and Debriefing Workshop  
Faculty: John O'Donnell, CRNA, MSN, DrPH, Paul Phrampus, MD, FACEP, Joseph  
Goode, Jr, PhD, MSN, CRNA  
17<sup>th</sup> Annual Safar Symposium  
Pittsburgh, PA
- March 23, 2019          The Role of Simulation and CRNA Clinical Precepting in SRNA Training: What, When  
Why and How  
University of Pittsburgh Physicians CRNA Conference 2019  
Nemacolin Woodlands, Farmington, PA
- June 2, 2018            Translational Science in Simulation: From Reality to Augmented Reality  
Faculty: Joseph Goode, BA, MSN, CRNA, Douglas Nelson BS, BSE, PhD  
16<sup>th</sup> Annual Safar Symposium  
Pittsburgh, PA
- April 28, 2017          Sisters, Mothers, Myths and Storks: The History of Anesthesia & the Nurse Anesthetist  
That You Never Knew (a personal perspective)  
UPMC CRNA Conference 2017  
Nemacolin Woodlands, Farmington, PA
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**INVITED LECTURES & UNPUBLISHED PRESENTATIONS** (*continued*)

- January 20, 2016      Rapid Development of Simulation Debriefing Skills: Combining Cognitive Aids, Exemplars and Assessment Tools  
Faculty: Paul Phrampus, MD, FACEP, John O'Donnell, CRNA, MSN, DrPH, Joseph Goode, Jr, MSN, CRNA  
16<sup>th</sup> Annual International Meeting on Simulation in Healthcare  
San Diego, CA
- January 18, 2016      Selecting Mastery Learning And Deliberate Practice Targets In A Curriculum: Making Strategic Decisions Based On Goals And Resources  
Expert Panel  
Faculty: John O'Donnell, CRNA, MSN, DrPH, Jeffrey H. Barsuk, MD, MS, Joseph Goode, Jr, CRNA, MSN, Jeffrey Groom, CRNA PhD  
16<sup>th</sup> Annual International Meeting on Simulation in Healthcare  
San Diego, CA
- January 18, 2016      Connecting Educational Standards to Learning Outcomes Through Simulation-based Assessment  
Faculty: Jeffrey Groom, CRNA, Ph, D John O'Donnell, CRNA, MSN, DrPH, Joseph Goode, Jr, CRNA, MSN;  
16<sup>th</sup> Annual International Meeting on Simulation in Healthcare  
San Diego, CA
- January 18, 2016      Overcoming Challenges in Assessment: Developing Tools and Learning How to Use Them  
Faculty: Paul Phrampus, MD, FACEP, John O'Donnell, CRNA, MSN, DrPH, Joseph Goode, Jr, MSN, CRNA  
16<sup>th</sup> Annual International Meeting on Simulation in Healthcare  
San Diego, CA
- January 14, 2015      Finding Our Way to a New Model of Healthcare Simulation  
Invited Lecture, 15<sup>th</sup> Annual International Meeting on Simulation in Healthcare  
New Orleans, LA
- January 13, 2015      Implementing Structured and Supportive Debriefing: Learning a Model of Success  
Workshop  
Faculty: Paul Phrampus, MD, FACEP, John O'Donnell, CRNA, MSN, DrPH, Joseph Goode, Jr, MSN, CRNA, David Rodgers, EdD, NREMT-P  
15<sup>th</sup> Annual International Meeting on Simulation in Healthcare  
New Orleans, LA

**INVITED LECTURES & UNPUBLISHED PRESENTATIONS** (*continued*)

- January 13, 2015      Selecting Mastery Learning And Deliberate Practice Targets In A Curriculum:  
Making Strategic Decisions Based On Goals And Resources  
Expert Panel  
Faculty: John O'Donnell, CRNA, MSN, DrPH, Jeffrey H. Barsuk, MD, MS, Joseph Goode,  
Jr, CRNA,MSN, Jeffrey Groom, CRNA PhD, Diane B. Wayne, MD  
15<sup>th</sup> Annual International Meeting on Simulation in Healthcare  
New Orleans, LA
- January 12, 2015      Connecting Educational Standards to Learning Outcomes Through Simulation-based  
Assessment  
Faculty: Jeffrey Groom, CRNA, Ph, D John O'Donnell, CRNA, MSN, DrPH, Joseph  
Goode, Jr, CRNA, MSN;  
15<sup>th</sup> Annual International Meeting on Simulation in Healthcare  
New Orleans, LA
- January 12, 2015      Overcoming Challenges in Assessment: Developing Tools and Learning How to Use Them  
Faculty: Paul Phrampus, MD, FACEP, John O'Donnell, CRNA, MSN, DrPH,  
Joseph Goode, Jr, CRNA,MSN  
15<sup>th</sup> Annual International Meeting on Simulation in Healthcare  
New Orleans, LA
- May 22, 2014      You're sure to get somewhere if you only walk long enough: The changing role of  
debriefing in simulation education.  
Invited Lecture, 12<sup>th</sup> Annual Safar Symposium  
Pittsburgh, PA
- January 28, 2014      Connecting Accreditation Standards to Learning Outcomes Through Simulation-based  
Assessment  
Faculty: John O'Donnell, CRNA, MSN, DrPH, Joseph Goode, Jr, CRNA,  
MSN, Jeffrey Groom, CRNA, PhD  
14<sup>th</sup> Annual International Meeting on Simulation in Healthcare  
San Francisco, CA
- January 28, 2014      Selecting Mastery Learning Targets in a Curriculum  
Expert Panel  
Faculty: John O'Donnell, CRNA, MSN, DrPH, Joseph Goode, Jr,  
CRNA,MSN, Jeffrey Groom, CRNA PhD, Jeffrey H. Barsuk, MD, MS, Diane  
B. Wayne, MD  
14<sup>th</sup> Annual International Meeting on Simulation in Healthcare  
San Francisco, CA

**INVITED LECTURES & UNPUBLISHED PRESENTATIONS** (*continued*)

- January 27, 2014      Assessment Doesn't Have to be a Dirty Word  
Faculty: John O'Donnell, CRNA, MSN, DrPH; Joseph Goode, Jr, CRNA, MSN  
14<sup>th</sup> Annual International Meeting on Simulation in Healthcare  
San Francisco, CA
- January 26, 2014      Structured and Supported Debriefing  
Pre-Conference Course  
Faculty: John O'Donnell, CRNA, MSN, DrPH; Amitai Ziv, MD, MHA; Paul  
Phrampus, MD, FACEP; Liat Pessach, BA; Joseph Goode, Jr, MSN  
14<sup>th</sup> Annual International Meeting on Simulation in Healthcare  
San Francisco, CA
- January 29, 2013      Development of a Fiberoptic Bronchoscopy Simulation Course  
Faculty: John O'Donnell, CRNA, MSN, DrPH; Joseph Goode, Jr, MSN,  
CRNA; Jeff Groom, PhD  
13<sup>th</sup> Annual International Meeting on Simulation in Healthcare  
Orlando, FL
- January 26, 2013      Structured Debriefing: Scalable, Teachable and Testable  
Pre-Conference Course  
Faculty: John O'Donnell, CRNA, MSN, DrPH; Amitai Ziv, MD, MHA; Paul  
Phrampus, MD, FACEP; Liat Pessach, BA; Joseph Goode, Jr, MSN, CRNA;  
David Rodgers, EdD, NREMT-P  
13<sup>th</sup> Annual International Meeting on Simulation in Healthcare  
Orlando, FL
- April 21, 2012      From Sanders to Klain . . . and Beyond? Is There a Role for the Use of Jet Ventilation  
Today?  
Cleveland Clinic CRNA Summit  
Cleveland, OH
- March 23, 2012      From Mechanical Ducks to Digital Interfaces: The integration of Simulation into  
Healthcare  
UPMC Physician Services Division, Office of Advanced Practice Providers'  
Inaugural Spring Fling  
Pittsburgh, PA
- January 28, 2012      Structured Debriefing: Scalable, Teachable and Testable  
Pre-Conference Course  
Faculty: John O'Donnell, CRNA, MSN, DrPH; Amitai Ziv, MD, MHA; Paul  
Phrampus, MD, FACEP; Liat Pessach, BA; Joseph Goode, Jr, MSN, CRNA;  
David Rodgers, EdD, NREMT-P  
12<sup>th</sup> Annual International Meeting on Simulation in Healthcare  
San Diego, CA
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**INVITED LECTURES & UNPUBLISHED PRESENTATIONS** (*continued*)

- October 9, 2011      History, Safety, Nomenclature and Integration: The Many Faces of Healthcare Simulation  
Michigan Association of Nurse Anesthetists 2011 Fall Conference  
Bellaire, MI
- October 8, 2011      From Sanders to Klain and Beyond: Does Ontogeny Recapitulate Phylogeny in  
the Development of Applications for High Frequency Jet Ventilation?  
Michigan Association of Nurse Anesthetists 2011 Fall Conference  
Bellaire, MI
- May 11, 2011      High Frequency Jet Ventilation:  
Introductory Concepts and Intraoperative Applications  
Anesthesia Grand Rounds  
UPMC-Mercy Hospital, Department of Anesthesia  
Pittsburgh, Pennsylvania
- May 5-7, 2010      Invited Lecturer, Panel Discussion Member and Instructional Faculty  
ELITE Faculty Development Program: Learning in the 21<sup>st</sup> Century, Foundations of  
Simulation for Nurse Educators  
Pittsburgh, PA
- May 5, 2010      Simulation in Healthcare: History, Nomenclature and Context  
ELITE Faculty Development Program: Learning in the 21<sup>st</sup> Century, Foundations of  
Simulation for Nurse Educators  
Pittsburgh, PA
- April 9, 2010      Past & Present Applications of High Frequency Jet Ventilation: does ontogeny  
recapitulate phylogeny?  
Pennsylvania Association of Nurse Anesthetists Spring Symposium  
Hershey, Pennsylvania
- October 21, 2009      High Frequency Jet Ventilation Review: Hands on In-Service and  
Demonstration of Concepts  
CRNA Weekly Education In-service  
University of Pittsburgh Medical Center: St Margarets  
Pittsburgh, Pennsylvania
- June 5, 2009      High Frequency Jet Ventilation Review: Basic Concepts and Intraoperative  
Applications its Uses in Posterior Left Atrial Ablation  
CRNA Weekly Education In-service  
University of Pittsburgh Medical Center: St Margarets  
Pittsburgh, Pennsylvania

**INVITED LECTURES & UNPUBLISHED PRESENTATIONS** (*continued*)

- April 8, 2009            High Frequency Jet Ventilation Review: Basic Concepts, Intraoperative Applications and its Uses in Posterior Left Atrial Ablation  
CRNA Weekly Education In-service  
University of Pittsburgh Medical Center: Presbyterian Hospital  
Pittsburgh, Pennsylvania
- February 4, 2009        The Application of High Frequency Jet Ventilation in the Setting of Posterior Left Atrial Ablation  
Anesthesia Department Weekly Education In-service  
University of Pittsburgh Medical Center: Shadyside Hospital  
Pittsburgh, Pennsylvania
- December 4, 2008       Nursing Simulation Course Examples: What's In The Box?  
Session with Beth Kuzminsky, RN, MSN & Helen Burns, RN, PhD  
2nd Annual WISER Symposium on Nursing Simulation  
December 4-5, 2008  
Pittsburgh, Pennsylvania
- December 3, 2008       High Frequency Jet Ventilation:  
Introductory Concepts and Intraoperative Applications  
Anesthesia Grand Rounds  
UPMC-Mercy Hospital Department of Anesthesia  
Pittsburgh, Pennsylvania
- November 5, 2008       High Frequency Jet Ventilation:  
Introductory Concepts and Intraoperative Applications  
Weekly Anesthesia Conference  
Forbes Regional Hospital Department of Anesthesia  
Pittsburgh, Pennsylvania
- October 21, 2008       High Frequency Jet Ventilation: Introductory Concepts, Intraoperative Applications and its Role in Posterior Left Atrial Ablation  
Passavant Hospital Departments of Anesthesia, Cardiology & Respiratory Therapy  
Pittsburgh, Pennsylvania
- May 16, 2008            Simulation Training in Healthcare: Past? Present and Future?  
Pennsylvania Association of Nurse Anesthetists-District V Meeting  
Pittsburgh, Pennsylvania
- January 10-11, 2008     9<sup>th</sup> Annual International Meeting on Simulation in Healthcare  
San Diego, California  
Post Graduate Course in Nursing Simulation  
Coordination, Planning and Presentation of the PG Course
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**INVITED LECTURES & UNPUBLISHED PRESENTATIONS** (*continued*)

- December 7, 2007      Stealthy Ways: Integrating Research Into Your Curriculum  
1<sup>st</sup> Annual Symposium on Nursing Simulation  
December 7-8, 2007  
Pittsburgh, Pennsylvania
- December 7, 2007      Reflective Learning: The Power of Effective Debriefing  
Round Robin Session with Bettina Dixon and Rose Hoffman  
1<sup>st</sup> Annual Symposium on Nursing Simulation  
January 7-8, 2007  
Pittsburgh, Pennsylvania
- December 6, 2007      Incorporating Outcome Methodologies into Your Simulation Experience  
Emerging Learning & Integrated Technologies Education (ELITE) Faculty  
Development Program  
Foundations of Simulation for Nurse Educators: Building a Toolkit  
January 6-8, 2007  
Pittsburgh, Pennsylvania
- January 17, 2007      Simulation Approaches in Nursing: A Roadmap for Patient and Provider Safety?  
7<sup>th</sup> Annual International Meeting for Simulation in Healthcare  
January 14-17, 2007  
Lake Buena Vista, Florida
- October 7, 2006      Clinical Perspectives In High Frequency Jet Ventilation  
PANA Fall Symposium 2006  
Gettysburg, PA
- February 25, 2006      High Frequency Jet Ventilation Review:  
Introductory Concepts and Intraoperative Applications  
Pittsburgh Symposium for Nurse Anesthetists  
Magee Womens Hospital  
Pittsburgh, Pennsylvania
- June 4, 2005      Anesthetic Management Strategies for Radiofrequency Ablation of  
Atrial Fibrillation  
Summer Anesthesia Seminar  
University of Pittsburgh School of Nursing, Nurse Anesthesia Program  
Pittsburgh, Pennsylvania
- June 1, 2002      What If It Had? A Personal Perspective Of Anesthesia History & The Role Of  
The Nurse Anesthetist  
Summer Anesthesia Seminar  
University of Pittsburgh School of Nursing, Nurse Anesthesia Program  
Pittsburgh, Pennsylvania
-

**INVITED LECTURES & UNPUBLISHED PRESENTATIONS** (*continued*)

- April 20, 2002            The Clinical Applications of Jet Ventilation  
New Jersey Association of Nurse Anesthetists Spring Meeting 2002  
Hightstown, NJ
- October 21, 2001        High Frequency Jet Ventilation: Introductory Concepts & Clinical Management  
PANA Fall Symposium 2001  
State college, PA
- June 3, 2000            Cooperative Management of the Airway: Complete Carinal Resection and  
Reconstruction  
Summer Anesthesia Seminar  
University of Pittsburgh School of Nursing, Nurse Anesthesia Program  
Pittsburgh, Pennsylvania
- January 22, 2000        Complete Carinal Resection and Reconstruction: A Case Study  
Pennsylvania Association of Nurse Anesthetists, District V Meeting  
Greentree, Pennsylvania
- April 1995              A Real-Time Data Collection And Analysis System for Intraoperative Monitoring At  
Montefiore University Hospital.  
Fifteenth International Symposium on Computing in Anesthesia & Intensive Care  
Philadelphia, Pennsylvania
- April 1995              Automated Data Collection and Analysis in A Simulated Respiratory Circuit.  
Proc. 15th International symposium on Computing in Anesthesia and Intensive Care.  
Philadelphia, PA 1995; p. 5, Philadelphia, Pennsylvania



## TEACHING & CLINICAL IN-SERVICES

- Fall Term, 2023
- Co-Course Coordinator (with Bettina Dixon): Advanced Clinical Care-2  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
  
  - Co-Course Coordinator (with Bettina Dixon): Advanced Principles of Anesthesia-2  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
  
  - Co-Course Coordinator with John M. O'Donnell): Basic Principles of Anesthesia  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
  
  - Course Coordinator: Basic Principles of Anesthesia Lab  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
- Summer Term, 2023
- Co-Course Coordinator (with Bettina Dixon): Advanced Clinical Care-1  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
  
  - Co-Course Coordinator (with Bettina Dixon): Advanced Clinical Care-4  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
  
  - Co-Course Coordinator (with John M. O'Donnell): Advanced Pharmacology for Nurse Anesthetists  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
- May 16, 2023
- University of Pittsburgh Medical Center  
Department of Anesthesiology  
Faculty: Joseph Goode  
High Frequency Jet Ventilation Lecture & Workshop for Cardiac Anesthesiology Fellows

**TEACHING & CLINICAL IN-SERVICES** (*continued*)

- Spring Term, 2023      Co-Course Coordinator (with Fei Zhang): Team Training In Patient  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
- Co-Course Coordinator (with Bettina Dixon): Advanced Principles of  
Anesthesia-3  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
- Co-Course Coordinator (with Bettina Dixon): Advanced Clinical Care-3  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
- Co-Course Coordinator (with Bettina Dixon): Basic Clinical Care-2  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
- Course Co-Director (with Thomas Chalifoux, MD): Anesthesia Crisis  
Leadership Simulation Training  
University of Pittsburgh School of Nursing  
Nurse Anesthesia Program & the Anesthesia Residency Program  
Joint simulation training program for Student Registered Nurse Anesthetists  
and Anesthesiology Residents focused on crisis resource management.
- October 25, 2022      University of Pittsburgh Medical Center  
Magee Womens Hospital Department of Anesthesiology  
Faculty: Joseph Goode  
High Frequency Jet Ventilation Basic Competency In-Service
- Fall Term, 2022      Co-Course Coordinator (with Bettina Dixon): Advanced Clinical Care-2  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
- Co-Course Coordinator (with Bettina Dixon): Advanced Principles of  
Anesthesia-2  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
- Co-Course Coordinator with John M. O'Donnell): Basic Principles of  
Anesthesia  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
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## TEACHING & CLINICAL IN-SERVICES

- Course Coordinator: Basic Principles of Anesthesia Lab  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
- Summer Term, 2022      Co-Course Coordinator (with Bettina Dixon): Advanced Clinical Care-1  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
- Co-Course Coordinator (with Bettina Dixon): Advanced Clinical Care-4  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
- Co-Course Coordinator (with John M. O'Donnell): Advanced Pharmacology  
for Nurse Anesthetists  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
- Spring Term, 2022      Co-Course Coordinator (with Bettina Dixon): Advanced Clinical Care-3  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
- Co-Course Coordinator (with Bettina Dixon): Basic Clinical Care-2  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
- Co-Course Coordinator (with John M. O'Donnell): Team Training In Patient  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
- Course Co-Director (with Thomas Chalifoux, MD): Anesthesia Crisis  
Leadership Simulation Training  
University of Pittsburgh School of Nursing  
Nurse Anesthesia Program & the Anesthesia Residency Program  
Joint simulation training program for Student Registered Nurse Anesthetists  
and Anesthesiology Residents focused on crisis resource management.

**TEACHING & CLINICAL IN-SERVICES** (*continued*)

Fall Term, 2021	Co-Course Coordinator (with Bettina Dixon): Comprehensive Anesthesia Review Seminar University of Pittsburgh School of Nursing, Department of Nurse Anesthesia, Nurse Anesthesia Program
	Co-Course Coordinator (with Bettina Dixon): Advanced Clinical Care-2 University of Pittsburgh School of Nursing, Department of Nurse Anesthesia, Nurse Anesthesia Program
	Course Coordinator: Basic Principles of Anesthesia Lab University of Pittsburgh School of Nursing, Department of Nurse Anesthesia, Nurse Anesthesia Program
Summer Term, 2021	Co-Course Coordinator: Advanced Pharmacology for Nurse Anesthetists Course Coordinator, John M. O'Donnell University of Pittsburgh School of Nursing, Department of Nurse Anesthesia, Nurse Anesthesia Program
Spring Term, 2021	Co-Course Coordinator (with John M. O'Donnell): Team Training In Patient University of Pittsburgh School of Nursing, Department of Nurse Anesthesia, Nurse Anesthesia Program
	Course Co-Director (with Thomas Chalifoux, MD): Anesthesia Crisis Leadership Simulation Training University of Pittsburgh School of Nursing Nurse Anesthesia Program & the Anesthesia Residency Program Joint simulation training program for Student Registered Nurse Anesthetists and Anesthesiology Residents focused on crisis resource management.
May 5, 19 & 26, 2021	University of Pittsburgh Medical Center Department of Cardiothoracic Surgery Faculty: Joseph Goode High Frequency Jet Ventilation Lecture & Workshop for Thoracic Surgery Fellows and Residents
November 18, 2020	University of Pittsburgh Medical Center Department of Anesthesiology Faculty: Joseph Goode High Frequency Jet Ventilation Lecture & Workshop for Cardiac Anesthesiology Fellows

**TEACHING & CLINICAL IN-SERVICES** (*continued*)

Fall Term, 2020	Course Coordinator: Basic Principles of Anesthesia Lab University of Pittsburgh School of Nursing, Department of Nurse Anesthesia, Nurse Anesthesia Program
Summer Term, 2020	Co-Course Coordinator: Advanced Pharmacology for Nurse Anesthetists Course Coordinator, John M. O'Donnell University of Pittsburgh School of Nursing, Department of Nurse Anesthesia, Nurse Anesthesia Program
Spring Term, 2020	Co-Course Coordinator (with John M. O'Donnell): Team Training In Patient University of Pittsburgh School of Nursing, Department of Nurse Anesthesia, Nurse Anesthesia Program
Fall Term, 2019	Course Coordinator: Basic Principles of Anesthesia Lab University of Pittsburgh School of Nursing, Department of Nurse Anesthesia, Nurse Anesthesia Program
Summer Term, 2019	Co-Course Coordinator: Advanced Pharmacology for Nurse Anesthetists Course Coordinator, John M. O'Donnell University of Pittsburgh School of Nursing, Department of Nurse Anesthesia, Nurse Anesthesia Program
Spring Term, 2019	Co-Course Coordinator (with John M. O'Donnell): Team Training In Patient Safety (sections for both Masters and DNP students) University of Pittsburgh School of Nursing, Department of Nurse Anesthesia, Nurse Anesthesia Program  Course Co-Director (with Thomas Chalifoux, MD): Anesthesia Crisis Leadership Simulation Training University of Pittsburgh School of Nursing Nurse Anesthesia Program & the Anesthesia Residency Program Joint simulation training program for Student Registered Nurse Anesthetists and Anesthesiology Residents focused on crisis resource management.
Fall Term, 2018	Course Coordinator: Basic Principles of Anesthesia Lab University of Pittsburgh School of Nursing, Department of Nurse Anesthesia, Nurse Anesthesia Program
Summer Term, 2018	Course Coordinator: Advanced Pharmacology for Nurse Anesthetists University of Pittsburgh School of Nursing, Department of Nurse Anesthesia, Nurse Anesthesia Program

**TEACHING & CLINICAL IN-SERVICES** (*continued*)

- May 09, 2018            University of Pittsburgh Medical Center  
Department of Anesthesiology  
Faculty: Joseph Goode  
High Frequency Jet Ventilation Lecture & Workshop for Cardiac  
Anesthesiology Fellows
- January 24, 2018        University of Pittsburgh Medical Center  
Department of Anesthesiology  
Faculty: Joseph Goode, Chad Artman  
High Frequency Jet Ventilation Basic Competency In-Service
- Spring Term, 2018      Co-Course Coordinator (with John M. O'Donnell): Team Training In Patient  
Safety (sections for both Masters and DNP students)  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
- Summer Term, 2017     Course Coordinator: Applied Pharmacology  
Co-Coordinator, John M. O'Donnell  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program  
Including Lectures given on Antidysrhythmics, Cardiac Glycosides, Alpha, Beta  
and Calcium Channel Blocker and Antimicrobials.
- Spring Term, 2017      Co-Course Coordinator (with John M. O'Donnell): Team Training In Patient  
Safety  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
- Course Co-Director: Anesthesia Crisis Leadership Simulation Training  
University of Pittsburgh School of Nursing  
Nurse Anesthesia Program & the Anesthesia Residency Program  
Joint simulation training program for Student Registered Nurse Anesthetists  
and Anesthesiology Residents focused on crisis resource management.
- January 18, 2017        University of Pittsburgh Medical Center  
Department of Anesthesiology  
Faculty: Joseph Goode  
High Frequency Jet Ventilation Lecture & Workshop for Cardiac  
Anesthesiology Fellows

**TEACHING & CLINICAL IN-SERVICES** (*continued*)

- Fall Term, 2016      Co-Course Coordinator (with John M. O'Donnell): Applied Pharmacology  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program  
Lectures given on: Antidysrhythmics, Cardiac Glycosides, Alpha, Beta and  
Calcium Channel Blocker and Antimicrobials
- December 16, 2016      University of Pittsburgh Medical Center  
Department of Cardiothoracic Surgery, Division of Thoracic Surgery  
Rigid Bronchoscopy Simulation Workshop Instructor
- Summer Term, 2016      Course Coordinator: Applied Pharmacology  
Co-Coordinator, John M. O'Donnell  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program  
Including Lectures given on Antidysrhythmics, Cardiac Glycosides, Alpha, Beta  
and Calcium Channel Blocker and Antimicrobials.
- Spring Term, 2016      Co-Course Coordinator (with John M. O'Donnell): Team Training In Patient  
Safety  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
- Course Co-Director (with William McIvor, MD): Anesthesia Crisis Leadership  
Simulation Training  
University of Pittsburgh School of Nursing  
Nurse Anesthesia Program & the Anesthesia Residency Program  
Joint simulation training program for Student Registered Nurse Anesthetists  
and Anesthesiology Residents focused on crisis resource management.
- May 11, 2016      University of Pittsburgh Medical Center  
Department of Anesthesiology  
Faculty: Joseph Goode, Miroslav Klain  
High Frequency Jet Ventilation Lecture & Workshop for Cardiac  
Anesthesiology Fellows
- Fall Term, 2015      Co-Course Coordinator (with John M. O'Donnell): Applied Pharmacology  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program  
Lectures given on: Antidysrhythmics, Cardiac Glycosides, Alpha, Beta and  
Calcium Channel Blocker and Antimicrobials

**TEACHING & CLINICAL IN-SERVICES** (*continued*)

- Summer Term, 2015      Course Coordinator: Applied Pharmacology  
Co-Coordinator, John M. O'Donnell  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
- Spring Term, 2015      Co-Course Coordinator (with John M. O'Donnell): Team Training In Patient  
Safety  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
- Spring Term, 2015      Applied Physiology & Pathophysiology  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program  
Lectures on: Acute & Chronic Lung Respiratory Disease & Infectious Diseases.
- Course Co-Director (with Andrew Murray, MD):  
Anesthesia Crisis Leadership Simulation Training  
University of Pittsburgh School of Nursing  
Nurse Anesthesia Program & the Anesthesia Residency Program  
Joint simulation training program for Student Registered Nurse Anesthetists  
and Anesthesiology Residents focused on crisis resource management.
- Fall Term, 2014      Co-Course Coordinator (with John M. O'Donnell): Applied Pharmacology  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program  
Lectures given on: Antidysrhythmics, Cardiac Glycosides, Alpha, Beta and  
Calcium Channel Blocker and Antimicrobials
- Advanced Principles of Anesthesia II  
University of Pittsburgh School of Nursing  
Department of Nurse Anesthesia, Nurse Anesthesia Program  
Lectures given on Anesthetic Management of Thoracic Surgical Cases, Airway  
Reconstructive Surgery Management, High Frequency Jet Ventilation.  
Coordination of HFJV Workshops.
- Basic Principles of Anesthesia  
University of Pittsburgh School of Nursing  
Department of Nurse Anesthesia, Nurse Anesthesia Program  
Lectures given on: History of Surgery and Anesthesia, Airway Anatomy, Basic  
Airway Management and Intraoperative Gas Analysis and Capnography  
Coordination of Basic Airway Management Workshop and Mock Induction  
Simulation



**TEACHING & CLINICAL IN-SERVICES** (*continued*)

- November 1, 2014      University of Pittsburgh Medical Center  
Department of Cardiothoracic Surgery, Division of Thoracic Surgery  
*Rigid Bronchoscopy Simulation Workshop Instructor* Summer Term, 2014
- Summer Term, 2014      Course Coordinator: Applied Pharmacology  
Co-Coordinator, John M. O'Donnell  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program  
Including Lectures given on Antidysrhythmics, Cardiac Glycosides, Alpha, Beta  
and Calcium Channel Blocker and Antimicrobials.
- Spring Term, 2014      Co-Course Coordinator (with John M. O'Donnell): Team Training In Patient Safety  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program
- Advanced Principles of Anesthesia III  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program  
Lectures given on: Trauma Management, Geriatric Trauma and Difficult Airway  
Management.  
Co-Coordination of a Trauma Simulation Session (Sim Wars).
- Applied Physiology & Pathophysiology  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program  
Lectures given on: Acute & Chronic Lung Respiratory Disease and Infectious  
Diseases.
- Course Co-Director (with Andrew Murray, MD):  
Anesthesia Crisis Leadership Simulation Training  
University of Pittsburgh School of Nursing  
Nurse Anesthesia Program & the Anesthesia Residency Program  
Joint simulation training program for Student Registered Nurse Anesthetists  
and Anesthesiology Residents focused on crisis resource management.

**TEACHING & CLINICAL IN-SERVICES** (*continued*)

- Fall Term, 2013      Co-Course Coordinator (with John M. O'Donnell): Applied Pharmacology  
University of Pittsburgh School of Nursing,  
Department of Nurse Anesthesia, Nurse Anesthesia Program  
Lectures given on: Antidysrhythmics, Cardiac Glycosides, Alpha, Beta and  
Calcium Channel Blocker and Antimicrobials
- Advanced Principles of Anesthesia II  
University of Pittsburgh School of Nursing  
Department of Nurse Anesthesia, Nurse Anesthesia Program  
Lectures given on Anesthetic Management of Thoracic Surgical Cases,  
Complex Airway Reconstructive Surgery Management, High Frequency Jet  
Ventilation. Coordination of HFJV Workshops.
- Basic Principles of Anesthesia  
University of Pittsburgh School of Nursing  
Department of Nurse Anesthesia, Nurse Anesthesia Program  
Lectures given on: History of Surgery and Anesthesia, Airway Anatomy, Basic  
Airway Management and Intraoperative Gas Analysis and Capnography  
Coordination of Basic Airway Management Workshop and Mock Induction  
Simulation
- Summer Term, 2013      Course Coordinator: Applied Pharmacology  
Co-Coordinator, John M. O'Donnell  
University of Pittsburgh School of Nursing,  
Acute & Tertiary Care Department, Nurse Anesthesia Program  
Including Lectures given on Antidysrhythmics, Cardiac Glycosides, Alpha, Beta  
and Calcium Channel Blocker and Antimicrobials.
- Applied Physiology & Pathophysiology  
University of Pittsburgh School of Nursing,  
Acute & Tertiary Care Department, Nurse Anesthesia Program  
Lectures given on: Acute & Chronic Lung Respiratory Disease and Infectious  
Diseases.
- June 1, 2013      University of Pittsburgh Medical Center  
Department of Cardiothoracic Surgery, Division of Thoracic Surgery  
Rigid Bronchoscopy Simulation Workshop Instructor

**TEACHING & CLINICAL IN-SERVICES** (*continued*)

- Spring Term, 2013      Co-Course Coordinator (with John M. O'Donnell): Team Training In Patient Safety  
University of Pittsburgh School of Nursing,  
Acute & Tertiary Care Department, Nurse Anesthesia Program
- Advanced Principles of Anesthesia III  
University of Pittsburgh School of Nursing,  
Acute & Tertiary Care Department, Nurse Anesthesia Program  
Co-Coordination of a Trauma Simulation Session (Sim Wars).
- Applied Physiology & Pathophysiology  
University of Pittsburgh School of Nursing,  
Acute & Tertiary Care Department, Nurse Anesthesia Program  
Lectures given on: Acute & Chronic Lung Respiratory Disease and Infectious Diseases.
- Course Co-Director (with Andrew Murray, MD):  
Anesthesia Crisis Leadership Simulation Training  
University of Pittsburgh School of Nursing  
Nurse Anesthesia Program & the Anesthesia Residency Program  
Joint simulation training program for Student Registered Nurse Anesthetists and Anesthesiology Residents focused on crisis resource management.
- Fall Term, 2012      Co-Course Coordinator (with John M. O'Donnell): Applied Pharmacology  
University of Pittsburgh School of Nursing,  
Acute & Tertiary Care Department, Nurse Anesthesia Program  
Lectures given on: Antidysrhythmics, Cardiac Glycosides, Alpha, Beta and Calcium Channel Blocker and Antimicrobials
- Advanced Principles of Anesthesia II  
University of Pittsburgh School of Nursing  
Acute & Tertiary Care Department, Nurse Anesthesia Program  
Lectures given on Anesthetic Management of Thoracic Surgical Cases, Complex Airway Reconstructive Surgery Management, High Frequency Jet Ventilation. Coordination of HFJV Workshops.
- Fall Term, 2012      Basic Principles of Anesthesia  
University of Pittsburgh School of Nursing  
Acute & Tertiary Care Department, Nurse Anesthesia Program  
Lectures given on: History of Surgery and Anesthesia, Airway Anatomy, Basic Airway Management and Intraoperative Gas Analysis and Capnography  
Coordination of Basic Airway Management Workshop and Mock Induction Simulation
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**TEACHING & CLINICAL IN-SERVICES** (*continued*)

- Summer Term, 2012      Course Coordinator: Applied Pharmacology  
Co-Coordinator, John M. O'Donnell  
University of Pittsburgh School of Nursing,  
Acute & Tertiary Care Department, Nurse Anesthesia Program  
Including Lectures given on Antidysrhythmics, Cardiac Glycosides, Alpha, Beta  
and Calcium Channel Blocker and Antimicrobials.
- April 25 & 26, 2012      University of Pittsburgh Medical Center  
In-service (lecture & hands-on) for UPMC-Presbyterian Department of  
Anesthesia  
High Frequency Jet Ventilation: Equipment & Introductory Concepts
- Spring Term, 2012      Advanced Principles of Anesthesia III  
University of Pittsburgh School of Nursing,  
Acute & Tertiary Care Department, Nurse Anesthesia Program  
Lectures given on Trauma Management, Geriatric Trauma.  
Co-Coordination of a Trauma Simulation Session (Sim Wars) .
- Course Co-Director (with Andrew Murray, MD):  
Anesthesia Crisis Leadership Simulation Training  
University of Pittsburgh School of Nursing  
Nurse Anesthesia Program & the Anesthesia Residency Program  
Joint simulation training program for Student Registered Nurse Anesthetists  
and Anesthesiology Residents focused on crisis resource management.
- Fall Term, 2011      Advanced Principles of Anesthesia II  
University of Pittsburgh School of Nursing  
Acute & Tertiary Care Department, Nurse Anesthesia Program  
Lectures given on Anesthetic Management of Thoracic Surgical Cases,  
Complex Airway Reconstructive Surgery Management, High Frequency Jet  
Ventilation, Difficult Airway Management. Coordination of HFJV Workshops.
- Summer Term, 2011      Course Coordinator: Applied Pharmacology  
Co-Coordinator, John M. O'Donnell  
University of Pittsburgh School of Nursing,  
Acute & Tertiary Care Department, Nurse Anesthesia Program  
Including Lectures given on Antidysrhythmics, Cardiac Glycosides, Alpha, Beta  
and Calcium Channel Blocker and Antimicrobials.
- May 11, 2011      University of Pittsburgh Medical Center  
'Hands-On' In-service for UPMC-Mercy Department of Anesthesia  
High Frequency Jet Ventilation: Equipment

**TEACHING & CLINICAL IN-SERVICES** (*continued*)

- Spring Term, 2011      Advanced Principles of Anesthesia III  
University of Pittsburgh School of Nursing,  
Acute & Tertiary Care Department, Nurse Anesthesia Program  
Lectures given on Trauma Management, Geriatric Trauma.  
Co-Coordination of a Trauma Simulation Session (Sim Wars) .
- Spring Term, 2011      Course Co-Director (with Andrew Murray, MD):  
Anesthesia Crisis Leadership Simulation Training  
University of Pittsburgh School of Nursing  
Nurse Anesthesia Program & the Anesthesia Residency Program  
Joint simulation training program for Student Registered Nurse Anesthetists  
and Anesthesiology Residents focused on crisis resource management.
- Fall Term, 2010      Co-Course Coordinator: Advanced Principles of Anesthesia II  
University of Pittsburgh School of Nursing  
Acute & Tertiary Care Department, Nurse Anesthesia Program  
Including Lectures given on Anesthetic Management of Thoracic Surgical  
Cases, Complex Airway Reconstructive Surgery Management, High Frequency  
Jet Ventilation, Difficult Airway Management.  
Co-Coordination of Fiberoptic Bronchoscopy/HFJV and Central Venous  
Catheter Insertion Simulation Workshops.
- Academic Year      University of Pittsburgh School of Nursing  
2010-2011      Acute & Tertiary Care Department, Nurse Anesthesia Program  
Fall Term 2010, Spring Term 2011, Summer Term 2011  
Lectured in NURSAN-2700 (History of Anesthesia, Airway Anatomy, Basic  
Airway Management, Co-Coordinator with John O'Donnell of Mock Induction  
Simulation); NURSAN-2720 (Acute & Chronic Lung Disease, Anesthetic  
Effects on Pulmonary Function, Infectious Diseases); NURSAN-2730 (Airway  
Topicalization, Participation in Regional Anesthesia Workshop); NURSAN-  
2751 (History of Simulation); NUR-2031 (Airway Assessment).
- Summer Term, 2010      Course Coordinator: Applied Pharmacology  
Co-Coordinator, John M. O'Donnell  
University of Pittsburgh School of Nursing,  
Acute & Tertiary Care Department, Nurse Anesthesia Program  
Including Lectures given on Antidysrhythmics, Cardiac Glycosides, Alpha, Beta  
and Calcium Channel Blocker and Antimicrobials.
- Spring Term, 2010      Course Coordinator: Advanced Principles of Anesthesia III  
University of Pittsburgh School of Nursing,  
Acute & Tertiary Care Department, Nurse Anesthesia Program  
Including Lectures given on Trauma Management, Geriatric Trauma, Co-  
Coordination of a Trauma Simulation Session (Sim Wars) .
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**TEACHING & CLINICAL IN-SERVICES** (*continued*)

Spring Term, 2010	Course Co-Director (with Andrew Murray, MD): Anesthesia Crisis Leadership Simulation Training University of Pittsburgh School of Nursing Nurse Anesthesia Program & the Anesthesia Residency Program Joint simulation training program for Student Registered Nurse Anesthetists and Anesthesiology Residents focused on crisis resource management.
Fall Term, 2009	Course Coordinator: Advanced Principles of Anesthesia II University of Pittsburgh School of Nursing Acute & Tertiary Care Department, Nurse Anesthesia Program Including Lectures given on Anesthetic Management of Thoracic Surgical Cases, Complex Airway Reconstructive Surgery Management, High Frequency Jet Ventilation, Difficult Airway Management and Coordination of Fiberoptic Bronchoscopy/HFJV and Central Venous Catheter Insertion Simulation Workshops.
Academic Year 2009-2010	University of Pittsburgh School of Nursing Acute & Tertiary Care Department, Nurse Anesthesia Program Fall Term 2009, Spring Term 2010, Summer Term 2010 Lectured in NURSAN-2700 (History of Anesthesia, Airway Anatomy, Basic Airway Management, Co-Coordinator with John O'Donnell of Mock Induction Simulation); NURSAN-2720 (Acute & Chronic Lung Disease, Anesthetic Effects on Pulmonary Function, Infectious Diseases); NURSAN-2730 (Airway Topicalization, Participation in Regional Anesthesia Workshop); NURSAN- 2751 (History of Simulation); NUR-2031 (Airway Assessment).
Summer Term, 2009	Course Coordinator: Applied Pharmacology University of Pittsburgh School of Nursing, Acute & Tertiary Care Department, Nurse Anesthesia Program Including Lectures given on Antidysrhythmics, Cardiac Glycosides, Alpha, Beta and Calcium Channel Blocker and Antimicrobials.
Spring Term, 2009	Course Coordinator: Advanced Principles of Anesthesia III University of Pittsburgh School of Nursing, Acute & Tertiary Care Department, Nurse Anesthesia Program Including Lectures given on Trauma Management, Geriatric Trauma, Difficult Airway and Coordination of a Trauma PBLD Session .
Spring Term, 2009	Course Co-Director (with Andrew Murray, MD): Anesthesia Crisis Leadership Simulation Training University of Pittsburgh School of Nursing Nurse Anesthesia Program & the Anesthesia Residency Program Joint simulation training program for Student Registered Nurse Anesthetists and Anesthesiology Residents focused on crisis resource management.

**TEACHING & CLINICAL IN-SERVICES** (*continued*)

Fall Term, 2008	Course Coordinator: Advanced Principles of Anesthesia II University of Pittsburgh School of Nursing Nurse Anesthesia Program Including Lectures given on Anesthetic Management of Thoracic Surgical Cases, Complex Airway Reconstructive Surgery Management, High Frequency Jet Ventilation, Difficult Airway Management and Coordination of Fiberoptic Bronchoscopy/HFJV, Central Venous Catheter Insertion Simulation Workshops.
Academic Year 2008-2009	University of Pittsburgh School of Nursing Nurse Anesthesia Program Fall Term 2008, Spring Term 2009, Summer Term 2009 Lectured in NURSAN-2700 (History of Anesthesia, Airway Anatomy, Basic Airway Management, Co-Coordinator with John O'Donnell of Mock Induction Simulation); NURSAN-2720 (Acute & Chronic Lung Disease, Anesthetic Effects on Pulmonary Function, Infectious Diseases); NURSAN-2730 (Airway Topicalization, Participation in Regional Anesthesia Workshop); NURSAN-2751 (History of Simulation); NUR-2031 (Airway Assessment).
Summer Term, 2008	Course Coordinator: Applied Pharmacology Co-Coordinator, John M. O'Donnell University of Pittsburgh School of Nursing, Acute & Tertiary Care Department, Nurse Anesthesia Program Including Lectures given on Antidysrhythmics, Cardiac Glycosides, Alpha, Beta and Calcium Channel Blocker and Antimicrobials.
Fall Term, 2007	Course Coordinator: Advanced Principles of Anesthesia II University of Pittsburgh School of Nursing Acute & Tertiary Care Department, Nurse Anesthesia Program Including Lectures given on Anesthetic Management of Thoracic Surgical Cases, Complex Airway Reconstructive Surgery Management, High Frequency Jet Ventilation, Difficult Airway Management and Coordination of Fiberoptic Bronchoscopy/HFJV & Central Venous Catheter Insertion Simulation Workshops
Academic Year 2007-2008	University of Pittsburgh School of Nursing Acute & Tertiary Care Department, Nurse Anesthesia Program Fall Term 2007, Spring Term 2008, Summer Term 2008 Lectured in NURSAN-2700 (History of Anesthesia, Airway Anatomy, Basic Airway Management, Co-Coordinator with John O'Donnell of Mock Induction Simulation); NURSAN-2720 (Acute & Chronic Lung Disease, Anesthetic Effects on Pulmonary Function, Infectious Diseases); NURSAN-2730 (Airway Topicalization, Participation in Regional Anesthesia Workshop); NURSAN-2760 (Educational Opportunities for the CRNA); ( NUR-2031 (Airway Assessment)

**TEACHING & CLINICAL IN-SERVICES** (*continued*)

Summer Term, 2007	Course Co-Coordinator (with John O'Donnell): Applied Pharmacology University of Pittsburgh School of Nursing, Acute & Tertiary Care Department, Nurse Anesthesia Program Including Lectures given on Antidysrhythmics, Cardiac Glycosides, Alpha, Beta and Calcium Channel Blocker and Antimicrobials
February 27, 2006	University of Pittsburgh School of Nursing Nurse Anesthesia Program Lecture for 2nd year anesthesia students: Strategies for Difficult Airway Management
December 7, 2005	University of Pittsburgh Medical Center In-service presentation for UPMC-Shadyside CRNA's High Frequency Jet Ventilation: Equipment & Introductory Concepts
September 28, 2005	University of Pittsburgh School of Nursing Nurse Anesthesia Program Airway Management Workshop for Nurse Anesthesia Students: High Frequency Jet Ventilation: Equipment & Introductory Concepts.
February, 2005	University of Pittsburgh Department of Anesthesia & School of Nursing Anesthesia Crisis Leadership Training Course (ACLT) Instructor & Course Development Team
June 9, 2004	University of Pittsburgh Medical Center In-service presentation for UPMC CRNA's Anesthetic Management of Radiofrequency Ablation for Atrial Fibrillation
March 22, 2004	University of Pittsburgh School of Nursing, Nurse Anesthesia Program Difficult Airway Workshop for Nurse Anesthesia Students: Hand Jet Ventilation: Equipment, Introductory Concepts and Safety
October 13, 2003	University of Pittsburgh School of Nursing, Nurse Anesthesia Program Lecture for 2nd year anesthesia students: Airway Management for Tracheobronchial Tree Surgery
September 30, 2003	University of Pittsburgh School of Nursing, Nurse Anesthesia Program Airway Management Workshop for Nurse Anesthesia Students: High Frequency Jet Ventilation: Equipment & Introductory Concepts.
September 18, 2003	University of Pittsburgh School of Nursing, Nurse Anesthesia Program Lecture for first year anesthesia students: Anesthesia and the Role of the Nurse Anesthetist: A Historical Perspective



**TEACHING & CLINICAL IN-SERVICES** (*continued*)

March 13, 2003	University of Pittsburgh School of Nursing, Nurse Anesthesia Program Difficult Airway Workshop for Nurse Anesthesia Students: Hand Jet Ventilation: Equipment, Introductory Concepts and Safety
December 17, 2002	University of Pittsburgh Medical Center Critical Care Nursing Course: Introduction to Jet Ventilation
December 2, 2002	University of Pittsburgh School of Nursing, Nurse Anesthesia Program Lecture for 2nd year anesthesia students: Airway Management for Unique Surgical Interventions
October 3, 2002	Washington Hospital Anesthesia Department Washington, PA Hand Jet Insufflators: Equipment, Introductory Concepts & Safety.
June 20, 2002	University of Akron College of Nursing Graduate Anesthesia Program The Clinical Applications of Jet Ventilation
April 18, 2002	University of Pittsburgh School of Nursing, Nurse Anesthesia Program Difficult Airway Workshop for Nurse Anesthesia Students: Hand Jet Ventilation: Equipment, Introductory Concepts and Safety.
August 29, 2001	University of Pittsburgh School of Nursing, Nurse Anesthesia Program Lecture for first year anesthesia students: Anesthesia & the Role of the Nurse Anesthetist: A Historical Perspective
April 26, 2001	University of Pittsburgh School of Nursing, Nurse Anesthesia Program Difficult Airway Workshop for Nurse Anesthesia Students: Hand Jet Ventilation: Equipment, Introductory Concepts and Safety.
September 2000	University of Pittsburgh School of Nursing, Nurse Anesthesia Program Airway Management Workshop for Nurse Anesthesia Students: High Frequency Jet Ventilation: Equipment & Introductory Concepts.
August 30, 2000	University of Pittsburgh School of Nursing, Nurse Anesthesia Program Lecture for first year anesthesia students: Anesthesia and the Role of the Nurse Anesthetist: A Historical Perspective
January 12, 2000	Induction complicated by equipment failure in an unstable cardiac patient CRNA Weekly Education In-service University of Pittsburgh Medical Center Pittsburgh, Pennsylvania

**TEACHING & CLINICAL IN-SERVICES** (*continued*)

July 1999	University of Pittsburgh School of Nursing, Nurse Anesthesia Program Airway Management Workshop for Nurse Anesthesia Students: High Frequency Jet Ventilation Equipment & Introductory Concepts
October 1998	University of Pittsburgh Medical Center In-service presentation for UPMC Anesthesia Technicians: High Frequency Jet Ventilation equipment and introductory concepts
October 2, 1996	University of Pittsburgh Medical Center In-service presentation for UPMC CRNA's: High Frequency Jet Ventilation Equipment & Introductory Concepts
September 11, 1996	University of Pittsburgh Medical Center In-service presentation for UPMC CRNA's: HFJV in the Intraoperative Setting, Concepts and Applications
August 1996	University of Pittsburgh Medical Center In-service presentation for Anesthesia and Physiologic Profiles Staff and CRNA's: High Frequency Jet Ventilation Equipment & Introductory Concepts
October 1995	University of Pittsburgh Medical Center In-service presentation for Artificial Organs graduate students in bioengineering and technicians: Basics of mass spectrometry and the maintenance of the stand-alone Marquette mass spectrometer
July 1995	University of Pittsburgh Medical Center In-service presentation for anesthesia residents: Application of High Frequency Jet Ventilation in Rigid Bronchoscopy and Thoracic Surgery
April 1995	University of Pittsburgh Medical Center In-service presentation for Department of Anesthesia staff and residents: Applications of High Frequency Jet Ventilation during independent and single lung ventilation procedures
March 1995	University of Pittsburgh Medical Center In-service presentation for first year anesthesia residents: High Frequency Jet Ventilation Equipment & Introductory Concepts

**SERVICE**

September 2021-2023     American Association for History of Nursing, Board Member (Strategic Planning)

June 4, 2005             Summer Anesthesia Seminar  
Presented by the University of Pittsburgh School of Nursing  
Nurse Anesthesia Program  
Adjunct Faculty Advisor

June 5, 2004             Summer Anesthesia Seminar  
Presented by the University of Pittsburgh School of Nursing  
Nurse Anesthesia Program  
Adjunct Faculty Advisor

June 7, 2003             Summer Anesthesia Seminar  
Presented by the University of Pittsburgh School of Nursing  
Nurse Anesthesia Program  
Adjunct Faculty Advisor

June 3, 2000             Summer Anesthesia Seminar  
Presented by the University of Pittsburgh School of Nursing  
Nurse Anesthesia Program  
Presentations Committee Chairman

September 1998  
to  
December 2001         University of Pittsburgh School of Nursing  
Nurse Anesthesia Program  
Clinical Advisory Committee, Student Representative  
University of Pittsburgh School of Nursing , Nurse Anesthesia Program

## AWARDS & HONORS

- September 2016      Margaret E Wilkes Scholarship Fund Award  
University of Pittsburgh School of Nursing  
Simulation in Nursing: Historical Analysis and Theoretical Modeling in Support of a  
Targeted Clinical Training Intervention  
Award Amount: \$4000
- June 4, 2009      Leadership in Nursing Award  
Presented by the Eta Chapter of Sigma Theta Tau  
Pittsburgh Pennsylvania.
- May 5, 2009      3<sup>rd</sup> Place Prize, Junior Scientist Division  
Goode, Jr JS, Ranier R, Klain M, Schwartzman D, Buffington CW The Use of  
High Frequency Jet Ventilation for Posterior Left Atrial Ablation.  
Poster presented at the 1<sup>st</sup> Annual University of Pittsburgh Anesthesiology  
Research Day  
Pittsburgh Pennsylvania.
- February 23, 2007      2007 University of Pittsburgh Honors Convocation Faculty Honoree  
31<sup>st</sup> Annual Honors Convocation  
Pittsburgh, PA
- October 7, 2006      2006 Pennsylvania Didactic Instructor of the Year (co-awarded)  
Presented by the Pennsylvania Association of Nurse Anesthetists  
Fall Symposium  
Gettysburg, PA
- October 2, 2004      2004 Pennsylvania CRNA Clinician of the Year  
Presented by the Pennsylvania Association of Nurse Anesthetists  
Fall Symposium  
Pittsburgh, PA