

**Spinal Epidural with Obstetric Essentials Workshop
American Association of Nurse Anesthetists**

**October 25-28, 2017
Park Ridge, Illinois**

Wednesday, October 25, 2017

7:30 a.m.	Shuttle pickup at Hampton Inn & Suites Rosemont Chicago O'Hare Breakfast provided at Hotel	
8:00 - 8:30 a.m.	Welcome and Introductions	All Faculty
8:30 - 10:00 a.m.	The Landscape in Spinal and Epidural Anesthesia (1.5 CE) Learner Outcomes: 1. Discuss the current trends and clinical cases using spinal anesthesia. 2. Discuss the current trends and clinical cases using epidural anesthesia.	Lorraine M. Jordan, PhD, CRNA, CAE, FAAN
10:00 - 10:15 a.m.	Break	
10:15 - 12:15 p.m.	Patient Selection and Workup (2 CE) Learner Outcomes: 1. Discuss the indications and contraindications for spinal and epidural anesthesia. 2. Compare the advantages and disadvantages of spinal and epidural anesthesia. 3. Review requirements of regional anesthesia.	Brian J. Kasson, MHS, CRNA
12:15 - 1:00 p.m.	Lunch	<i>Provided by the AANA</i>
1:00 - 2:30 p.m.	Applied Anatomy and Physiology of Central Neuraxial Blockade (1.5 CE) Learner Outcomes: 1. Identify the anatomic structures encountered during performance of neuraxial anesthesia. 2. Discuss anatomic considerations in performing central neuraxial blocks. 3. Discuss gender differences as they apply to the performance of central neuraxial blocks.	Michael Rieker, DNP, CRNA, FAAN
2:30 - 2:45 p.m.	Break	

Wednesday, October 25, 2017

2:45 - 4:15 p.m.

Neuraxial Pharmacology (1.5 Pharm CE)

Learner Outcomes:

1. Identify the mechanisms and sites of actions of local anesthetics used during spinal and epidural anesthesia.
2. List the physiochemical properties and clinical effects of local anesthetics utilized for spinal and epidural anesthesia.
3. Discuss commonly used dosage ranges used during central neuraxis anesthesia.
4. Discuss the selection and pharmacology of vasopressors used in conjunction with regional anesthesia.
5. Identify the concept of "grams percent" and "ratio" as applied to calculations for preparing drugs for regional anesthesia.

Michael Rieker,
DNP, CRNA, FAAN

4:15 - 5:45 p.m.

Spinal Techniques and Applications (1.5 CE)

Learner Outcomes:

1. Review the anatomy and physiology relevant to the subarachnoid space.
2. List the physiologic changes that occur during neuraxial anesthesia.
3. Describe the most common techniques (including midline and paramedian approaches) necessary in the performance of the subarachnoid block.
4. Identify the process & methods to assess the efficacy of a subarachnoid block.

Mary S. Nadolny,
MS, CRNA

5:45 p.m.

Program Ends - Shuttle pickup to return to Hampton Inn & Suites Rosemont Chicago O'Hare (9480 West Higgins Road, Rosemont, IL)

Thursday, October 26, 2017

7:30 a.m.

Shuttle pickup at Hampton Inn & Suites Rosemont Chicago
Breakfast provided at Hotel

8:00 - 9:00 a.m.

Dealing with Inadequate Spinal Anesthetics (1 CE)

Learner Outcomes:

1. Discuss underlying mechanisms and strategies for managing clinically inadequate spinal anesthesia.
2. Describe a safe and effective anesthetic plan for the patient experiencing inadequate spinal anesthesia

Brian J. Kasson,
MHS, CRNA

9:00 – 9:45 a.m.

Continuous Spinal Anesthesia (.75 CE)

Learner Outcomes:

1. Describe common techniques and dosing applications of continuous spinal anesthesia.
2. List the physiologic changes associated with continuous spinal anesthesia.

Franklin J. McShane,
DNP, CRNA

9:45 – 10:00 a.m.

Break

10:00-11:00 a.m.

Teaching Stations: Motor Skills – Spinal (1 CE) (.25 Pharm)

Learner Outcomes:

1. Demonstrate the superficial anatomical landmarks applicable to spinal anesthesia techniques.
2. Demonstrate manipulation of equipment, proper needle insertion, and drug instillation for spinal anesthesia.
3. Apply knowledge of pharmacology in the calculation of appropriate dosages of drugs for spinal anesthesia.

All Faculty

11:00 a.m.–12 p.m.

Epidural Techniques and Application I (1 CE)

Learner Outcomes:

1. Review anatomy relevant to the epidural space.
2. Describe techniques and identify methods to improve success of epidural placement.

Charles A. Reese,
PhD, CRNA

12:00 - 12:45 p.m.

Lunch

Provided by the AANA

12:45 - 1:45 p.m.

Epidural Techniques and Application II (1 CE)

Learner Outcomes:

1. Review anatomy relevant to the epidural space.
2. Identify methods and describe techniques to improve success of epidural placement.

Charles A. Reese,
PhD, CRNA

Thursday, October 26, 2017

1:45 – 2:15 p.m.	Thoracic Epidural Techniques (.5 CE) Learner Outcomes: 1. Review anatomy relevant to the thoracic neuraxis and epidural space. 2. List the physiologic changes that result from continuous spinal anesthesia. 3. Describe common techniques and dosing applications of the thoracic epidural technique.	Franklin J. McShane, DNP, CRNA
2:15 - 2:30 p.m.	Break	
2:30 – 3:45 p.m.	Teaching Stations: Motor Skills - Epidural (1.25 CE) (.25 Pharm) Learner Outcomes: 1. Demonstrate the superficial anatomical landmarks applicable to epidural anesthesia technique. 2. Demonstrate manipulation of equipment, proper needle insertion, and drug instillation for epidural anesthesia. 3. Apply knowledge of pharmacology in the calculation of appropriate dosages of drugs for epidural anesthesia.	All Faculty
3:45 – 4:45 p.m.	Ultrasound Application for Central Neuraxial Blocks (1 CE) Learner Outcomes: 1. Describe the basics of ultrasonography. 2. Describe lumbar spine ultrasound techniques. 3. List potential advantages and indications for ultrasound-guided neuraxial blocks.	Beth Ann Clayton, DNP, MS, CRNA
4:45 – 5:45 p.m.	Teaching Stations: Motor Skills - Ultrasound (1 CE) Learner Outcomes: 1. Demonstrate the anatomical landmarks, manipulation of equipment, proper needle insertion, and drug instillation for spinal and epidural anesthesia.	All Faculty
5:45 p.m.	Program Ends - Shuttle pickup to return to Hampton Inn & Suites Rosemont Chicago O'Hare (9480 West Higgins Road, Rosemont, IL)	

Friday, October 27, 2017

7:30 a.m.

Shuttle pickup at Hampton Inn & Suites Rosemont Chicago

Breakfast provided at Hotel

8:00 - 9:30 a.m.

Combined Spinal-Epidural Anesthesia (1.5 CE)

Learner Outcomes:

1. Describe the techniques used to provide combined spinal/epidural anesthesia.
2. Identify two types of cases or circumstances where CSE might be the anesthetic/analgesic of choice.
3. Identify what medications and anesthetics can be used to provide combined spinal/epidural anesthesia.

Beth Ann Clayton,
DNP, MS, CRNA

9:30 - 9:45 a.m.

Break

9:45 - 10:45 a.m.

Teaching Stations: Motor Skills – Combined Spinal Epidural (CSE) (1 CE) (.25 Pharm)

Learner Outcomes:

1. Utilizing ultrasound devices on live and task models, demonstrate anatomical landmarks associated with spinal and epidural anesthesia.

All Faculty

10:45 - 11:45 a.m.

Adapting Labor Analgesia to Surgical Anesthesia (1 CE)

Learner Outcomes:

1. Discuss strategies for adapting an existing labor analgesia to manage surgical intervention.

Mary Nadolny, MS,
CRNA

11:45 - 12:30 p.m.

Lunch

Provided by the AANA

12:30 - 1:15 p.m.

Dealing with Inadequate Epidural Anesthesia (.75 CE)

Learner Outcomes:

1. Discuss underlying mechanisms and strategies for managing inadequate epidural anesthesia.

Beth Ann Clayton,
DNP, MS, CRNA

Michael Rieker,
DNP, CRNA, FAAN

Friday, October 27, 2017

1:15 – 2:15 p.m.

Regional Conundrums #1 (1 CE)

Learner Outcomes:

1. Discuss unique experiences with neuraxial anesthesia including anatomy, equipment, drugs, and clinical challenges.
2. Describe the pathogenesis, prevention, and treatment of neuraxial related hypotension.
3. Understand maternal comorbidities including LAST and total spinal anesthesia.

Brian J. Kasson,
MHS, CRNA

2:15 - 3:15 p.m.

Post Dural Puncture Headache (1 CE)

Learner Outcomes:

1. Discuss the pathophysiologic basis of post dural puncture cephalgia.
2. Describe the efficacy of various treatment options available to manage post dural puncture cephalgia.

Beth Ann Clayton,
DNP, MS, CRNA

3:15 - 3:30 p.m.

Break

3:30 - 4:30 p.m.

Teaching Stations: Motor Skills and Case Forum (1 CE)

Learner Outcomes:

1. Demonstrate anatomical landmarks, manipulation of equipment, proper needle insertion, and drug instillation for spinal and epidural anesthesia.
2. Discuss unique experiences encountered by participants with spinal and epidural anesthesia including anatomy, equipment, drugs, and clinical conundrums.

All Faculty

4:30 - 5:30 p.m.

Regional Conundrums #2 (1 CE)

Learner Outcomes:

1. Discuss unique experiences with epidural anesthesia including anatomy, equipment, drugs, and clinical challenges.
 - Inadvertent Injection (Non-Local Drugs)
 - Case Review: Sufentanyl Overdose
 - Sterile technique
 - Timely recognition of systemic infection associated with epidural

Charles A. Reese,
PhD, CRNA

5:30 p.m.

Program Ends - Shuttle pickup to return to Hampton Inn & Suites Rosemont Chicago O'Hare (9480 West Higgins Road, Rosemont, IL)

Saturday, October 28, 2017

7:30 a.m.

Shuttle pickup at Hampton Inn & Suites Rosemont Chicago
Breakfast provided at Hotel

8:00 - 9:00 a.m.

Maternal Physiologic Adaptations During Pregnancy (1 CE)

Learner Outcomes:

1. Describe maternal anatomical and physiologic changes of pregnancy and their anesthetic implications.

Michael Rieker,
DNP, CRNA, FAAN

9:00 – 10:00 a.m.

High Risk Pregnancy: Fetal Co-Morbidities (1 CE)

Learner Outcomes:

1. Describe the anesthetic management for parturient with obstetric co-morbidities (i.e. preterm labor and labor dystocia).

Charles A. Reese,
PhD, CRNA

10:00 - 10:15 a.m.

Break

10:15 - 11:15 a.m.

High Risk Pregnancy: Maternal Co-Morbidities (1 CE)

Learner Outcomes:

1. Describe the anesthetic management for the parturient with obstetric co-morbidities, including increased risk for the obese parturient.

Michael Rieker,
DNP CRNA, FAAN

11:15 - 12:15 p.m.

Peripartum Hemorrhage (1 CE)

Learner Outcomes:

1. Describe the anesthetic management for the parturient with placenta previa, abruption, uterine rupture, uterine atony, abnormal implantation and blood clots.

Beth Ann Clayton,
DNP, MS, CRNA

12:15 - 1:00 p.m.

Lunch

Provided by the AANA

1:00 - 2:30 p.m.

Acute Pain Management (1.5 CE)

Learner Outcomes:

1. Describe the anatomy of pain pathways.
2. Discuss the physiology/pathophysiology of pain.
3. Discuss techniques available to treat acute pain in the perioperative period.
4. Discuss advantages and disadvantages of acute pain intervention.

Franklin J. McShane,
DNP, CRNA

2:30 p.m.

Program Ends - Shuttle pickup to return to Hampton Inn & Suites Rosemont Chicago O'Hare (9480 West Higgins Road, Rosemont, IL)

Workshop Faculty

Beth Ann Clayton, DNP, MS, CRNA

*Program Administrator
University of Cincinnati College of Nursing
Master's Program Nurse Anesthesia Major
Cincinnati, Ohio*

Lorraine M. Jordan, PhD, CRNA, CAE, FAAN

*Executive Director, AANA Foundation
Chief Research Officer
American Association of Nurse Anesthetists
Park Ridge, Illinois*

Brian J. Kasson, MHS, CRNA

*Faculty and Clinical Coordinator
Nurse Anesthesia Program
Northern Kentucky University
Highland Heights, Kentucky*

Franklin J. McShane, DNP, CRNA

*Program Director, Nurse Anesthesia Program
Rosalind Franklin University
North Chicago, Illinois*

Mary S. Nadolny, MS, CRNA

*Graduate Student
New York University
New York, New York*

Charles A. Reese, PhD, CRNA

(CAPT, NC, USN) (Ret)
*Associate Professor, Anesthesiology (Ret)
Associate Professor, Obstetrics and Gynecology (Ret)
Medical College of Virginia Physicians
Richmond, Virginia*

Michael Rieker, DNP, CRNA, FAAN

*Professor Anesthesiology
Director, Nurse Anesthesia Program
Wake Forest School of Medicine
Winston-Salem, North Carolina*