



# Spinal Epidural with Obstetric Essentials Workshop

May 3-5, 2018

University of Cincinnati  
Cincinnati, Ohio

Safe and effective anesthesia **CARE** for every patient.

[AANA.com](http://AANA.com)

**Purpose:**

The *Spinal Epidural with Obstetric Essentials Workshop* provides a thorough overview using lecture and guided hands-on experiences of spinal, epidural and obstetric anesthesia procedures. The faculty provides ample time for small group discussion/demonstration along with case presentations.

**Target Audience:**

This workshop is for CRNAs interested in developing their skills and knowledge of spinal, epidural and obstetric anesthesia.

**Accreditation Statement:**

This course has been prior-approved by the American Association of Nurse Anesthetists for 23.25 Class A CE credits; AANA Code Number: 1035793; Expiration Date: 5/5/2018.

AANA designates this program as meeting the criteria for 2.00 CE credits in Pharmacology/ Therapeutics.

The American Association of Nurse Anesthetists is accredited with distinction as a provider of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation.

AANA is an approved provider by the California Board of Registered Nursing, CEP #10862.

**In Kind Support:**

Ultrasound equipment for this educational activity has been provided by Sonosite. Spinal and Epidural Kits are provided by B. Braun Medical. The planners of this workshop disclose that Sonosite and B. Braun Medical was not involved in any component of the planning process for this educational activity. Sonosite and B. Braun understand that they must abide by the American Association of Nurse Anesthetists (AANA) Provider Unit's policies and procedures. Educational sessions will be monitored by AANA staff to ensure content integrity and prevent bias.

Accreditation does not imply that the AANA or the American Nurses Credentialing Center's Commission on Accreditation (ANCC) approves or endorses any product displayed, mentioned or used in any of the educational activities.

**Faculty and Planner Disclosures:**

All presenters and planners of this continuing nursing education activity are required to disclose to the audience any significant financial relationship with the manufacturer(s) of any commercial healthcare products, goods or services consumed by or used on patients. If any conflict has been disclosed, the planners of this program assure that the content is unbiased and free of any conflict of interest.

All planners, authors and content reviewers have disclosed for this meeting and there were no commercial interest relationships to declare.

**Evaluation/CE Credit Claim:**

The link to an electronic Evaluation/CE credit claim form will be emailed to all participants no later than Friday, May 11, 2018. Please check your Spam folder and Inbox for this important email. Once you receive the email with hyperlink, please complete the Program Evaluation, the Overall Meeting Evaluation and finally, SUBMIT your CE credits. You will be able to print your certificate immediately when this is done. CE credits are imported to the member transcripts within 5 business days of the meeting and weekly after that for 60 days.

Please note – if you have “opted-out” of receiving emails from the AANA, you will not receive this email. You will need to send an email to: [AANA\\_evaluations@aana.com](mailto:AANA_evaluations@aana.com) requesting that a separate email be sent to you.



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**May 3, 2018 – Day 1**

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7:00 a.m.	<b>Breakfast at Marriott Kingsgate</b>	
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8:00 - 8:30 a.m.	<b>Welcome and Introductions – Classroom 101 (1<sup>st</sup> Floor)</b>	All Faculty
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8:30 - 10:00 a.m.	<b>Patient Selection and Workup (1.50 CE)</b> Learner Outcomes: <ol style="list-style-type: none"><li>1. Discuss the indications and contraindications for spinal and epidural anesthesia.</li><li>2. Compare the advantages and disadvantages of spinal and epidural anesthesia.</li><li>3. Review requirements of regional anesthesia.</li></ol>	Brian J. Kasson, MHS, CRNA
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10:00 - 10:15 a.m.	<b>Break</b>	
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10:15 - 12:00 p.m.	<b>Applied Anatomy and Physiology of Central Neuraxial Blockade (1.75 CE)</b> Learner Outcomes: <ol style="list-style-type: none"><li>1. Identify the anatomic structures encountered during performance of neuraxial anesthesia.</li><li>2. Discuss anatomic considerations in performing central neuraxial blocks.</li><li>3. Discuss gender differences as they apply to the performance of central neuraxial blocks.</li></ol>	Michael Rieker, DNP, CRNA, FAAN
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12:00 – 12:45 p.m.	<b>Lunch</b>	<i>Provided by the AANA</i>
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12:45 - 2:00 p.m.	<b>Neuraxial Pharmacology (1.25 CE with 1.25 Pharm)</b> Learner Outcomes: <ol style="list-style-type: none"><li>1. Identify the mechanisms and sites of actions of local anesthetics used during spinal and epidural anesthesia.</li><li>2. List the physiochemical properties and clinical effects of local anesthetics utilized for spinal and epidural anesthesia.</li><li>3. Discuss commonly used dosage ranges used during central neuraxis anesthesia.</li><li>4. Discuss the selection and pharmacology of vasopressors used in conjunction with regional anesthesia.</li><li>5. Identify the concept of "grams percent" and "ratio" as applied to calculations for preparing drugs for regional anesthesia.</li></ol>	Michael Rieker, DNP, CRNA, FAAN
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2:00 - 2:15 p.m.	<b>Break</b>	
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2:15 – 3:15 p.m.	<b>Spinal Techniques and Applications (1 CE)</b> Learner Outcomes: <ol style="list-style-type: none"> <li>1. Review the anatomy and physiology relevant to the subarachnoid space.</li> <li>2. List the physiologic changes that occur during neuraxial anesthesia.</li> <li>3. Describe the most common techniques (including midline and paramedian approaches) necessary in the performance of the subarachnoid block.</li> <li>4. Identify the process &amp; methods to assess the efficacy of a subarachnoid block.</li> </ol>	Mary S. Nadolny, MS, CRNA, CAPT, NC, USN(ret)
3:15 – 4:00 p.m.	<b>Continuous Spinal Anesthesia (.75 CE)</b> Learner Outcomes: <ol style="list-style-type: none"> <li>1. Describe common techniques and dosing applications of continuous spinal anesthesia.</li> <li>2. List the physiologic changes associated with continuous spinal anesthesia.</li> </ol>	Franklin J. McShane, DNP, CRNA
4:00 – 4:15 p.m.	<b>Break</b>	
4:15 – 5:15 p.m.	<b>Teaching Stations: Motor Skills – Spinal (1 CE with .25 Pharm) Skills Lab 115D</b> Learner Outcomes: <ol style="list-style-type: none"> <li>1. Demonstrate the superficial anatomical landmarks applicable to spinal anesthesia techniques.</li> <li>2. Demonstrate manipulation of equipment, proper needle insertion, and drug instillation for spinal anesthesia.</li> <li>3. Apply knowledge of pharmacology in the calculation of appropriate dosages of drugs for spinal anesthesia.</li> </ol>	All Faculty
5:15 p.m.	<b>Program Ends</b>	
<b>May 4, 2018 – Day 2</b>		
7:00 a.m.	<b>Breakfast at Marriott Kingsgate</b>	
8:00 - 9:00 a.m.	<b>Epidural Techniques and Application I (1 CE)</b> Learner Outcomes: <ol style="list-style-type: none"> <li>1. Review anatomy relevant to the epidural space.</li> <li>2. Describe techniques and identify methods to improve success of epidural placement.</li> </ol>	Charles A. Reese, PhD, CRNA
9:00 – 10:00 a.m.	<b>Epidural Techniques and Application II (1 CE)</b> Learner Outcome: <ol style="list-style-type: none"> <li>1. Review application of common drugs used for labor epidural analgesia</li> </ol>	Charles A. Reese, PhD, CRNA

10:00 – 10:15 a.m.	<b>Break</b>	
10:15-11:30 a.m.	<b>Teaching Stations: Motor Skills - Epidural (1.25 CE with .25 Pharm)</b> Learner Outcomes: <ol style="list-style-type: none"> <li>1. Demonstrate the superficial anatomical landmarks applicable to epidural anesthesia technique.</li> <li>2. Demonstrate manipulation of equipment, proper needle insertion, and drug instillation for epidural anesthesia.</li> <li>3. Apply knowledge of pharmacology in the calculation of appropriate dosages of drugs for epidural anesthesia.</li> </ol>	<b>Skills Lab 115D</b>  All Faculty
11:30 - 12:15 p.m.	<b>Lunch</b>	<i>Provided by the AANA</i>
12:15 - 1:15 p.m.	<b>Ultrasound Application for Central Neuraxial Blocks (1 CE)</b> Learner Outcomes: <ol style="list-style-type: none"> <li>1. List potential advantages and indications for ultrasound-guided neuraxial blocks.</li> <li>2. Describe the basics of ultrasonography.</li> <li>3. Present lumbar spine ultrasound techniques.</li> </ol>	Beth Ann Clayton, DNP, MS, CRNA
1:15 – 2:30 p.m.	<b>Teaching Stations: Motor Skills - Ultrasound (1.25 CE)</b> Learner Outcome: <ol style="list-style-type: none"> <li>1. Demonstrate the anatomical landmarks, manipulation of equipment, proper needle insertion, and drug instillation for spinal and epidural anesthesia.</li> </ol>	<b>Skills Lab 115D</b>  All Faculty
2:30 – 3:30 p.m.	<b>Combined Spinal-Epidural Anesthesia (1 CE)</b> Learner Outcomes: <ol style="list-style-type: none"> <li>1. Identify types of cases or circumstances where combined spinal/epidural (CSE) and dural puncture epidural (DPE) might be the anesthetic/analgesic of choice.</li> <li>2. Describe the techniques and medications used to provide combined CSE and DPE anesthesia.</li> </ol>	Beth Ann Clayton, DNP, MS, CRNA
3:30 – 3:45 p.m.	<b>Break</b>	
3:45 – 5:00 p.m.	<b>Teaching Stations: Motor Skills – Combined Spinal Epidural (CSE) (1.25 CE with .25 Pharm)</b> Learner Outcome: <ol style="list-style-type: none"> <li>1. Utilizing ultrasound devices to demonstrate anatomical landmarks associated with spinal and epidural anesthesia.</li> </ol>	<b>Skills Lab 115D</b>  All Faculty
5:00 p.m.	<b>Program Ends</b>	

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**May 5, 2018 – Day 3**

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7:00 a.m.

**Breakfast at Marriott Kingsgate**

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8:00 - 9:00 a.m.

**Adapting Labor Analgesia to Surgical Anesthesia (1 CE)**

Learner Outcome:

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

Mary S.  
Nadolny, MS,  
CRNA, CAPT,  
NC, USN(ret)

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9:00 - 10:15 a.m.

**Dealing with Inadequate Epidural Anesthesia (1.25 CE)**

Learner Outcome:

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

Brian J. Kasson,  
MHS, CRNAMichael Rieker,  
DNP, CRNA, FAAN

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10:15 – 10:30 a.m.

**Break**

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10:30 – 11:30 a.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

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11:30 – 12:15 p.m.

**Lunch**

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12:15 – 1:15 p.m.

**Regional Conundrums #2 (1 CE)**

Learner Outcome:

1. Discuss unique experiences with epidural anesthesia including anatomy, equipment, drugs, and clinical challenges.

Charles A. Reese,  
PhD, CRNA

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1:15 – 2:15 p.m.

**Post Dural Puncture Headache (1 CE)**

Learner Outcomes:

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

Beth Ann Clayton,  
DNP, MS, CRNA

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2:15 – 2:30 p.m.

**Break**

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2:30 – 3:30 p.m.	<b>Application of Neuraxial Techniques in the General OR (1 CE)</b> Learner Outcomes: <ol style="list-style-type: none"> <li>1. Describe neuraxial techniques appropriate for surgical procedures in the general operating room.</li> <li>2. Compare and contrast specific neuraxial techniques and their application in the general operating room.</li> <li>3. Evaluate advantages of common neuraxial techniques and their application in the general operating room.</li> </ol>	Franklin J. McShane, DNP, CRNA
3:30 – 4:30 p.m.	<b>Teaching Stations: Motor Skills and Case Forum (1 CE)</b> Learner Outcomes: <ol style="list-style-type: none"> <li>1. Demonstrate anatomical landmarks, manipulation of equipment, proper needle insertion, and drug instillation for spinal and epidural anesthesia.</li> <li>2. Discuss unique experiences encountered by participants with spinal and epidural anesthesia including anatomy, equipment, drugs, and clinical conundrums.</li> </ol>	Skills Lab 115D  All Faculty
4:30 p.m.	<b>Program Ends</b>	

## Spinal/Epidural with Obstetric Essentials Workshop AANA Learn Modules

**NOTE:** Participants are required to view the following lecture on AANA Learn® following the attendance of the course. A certificate of completion of the online modules will be available on AANA Learn®. The self-assessment for these modules will be included in the workshop evaluation. Modules are now available on AANA Learn.

### **The Landscape in Spinal and Epidural Anesthesia (1 CE-CE included in total CE for program)**

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

Learner Outcome(s):

1. Discuss the current trends and clinical cases using spinal anesthesia.
2. Discuss the current trends and clinical cases using epidural anesthesia.