Oakland University-Beaumont Graduate Program of Nurse Anesthesia

Information Session

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Admissions & Clinical Coordinator
Certified Registered Nurse Anesthetist

CRNAs provide anesthesia in collaboration with:

- Surgeons
- Anesthesiologists
- Dentists
- Podiatrists
- Other health care providers

CRNAs practice with a high degree of autonomy and professional respect.

- high level of responsibility and they are compensated accordingly
CRNA Profession

Providing anesthesia care to patients in the US for more than 150 years

• Nurses first provided anesthesia to wounded soldiers during the Civil War.

• The main providers of anesthesia to U.S. military on the front lines since WWI, including current conflicts in the Middle East.

Over 49,000 CRNAs administer approximately 40 million anesthetics each year in the US.
CRNA Profession

CRNAs are the primary anesthesia providers in rural America, enabling healthcare facilities in these medically underserved areas to offer obstetrical, surgical, and trauma stabilization services.

- In some states, CRNAs are the sole providers in nearly 100% of the rural hospitals.

Legislation passed by Congress in 1986 made nurse anesthetists the first nursing specialty to be accorded direct reimbursement rights under the Medicare Program.

Managed care plans recognize CRNAs for providing equally safe, high quality anesthesia care with reduced expense to patients and insurance companies.
Program History

1991 collaborative initiative
Address the nurse anesthesia shortage
Provide an exceptional educational environment
Class size ranges 7-31
  • current class sizes: 20 - 25
Program Mission

“To provide the highest quality graduate educational program that prepares CRNA exemplars in clinical practice, education, research and leadership”
Faculty

Dean of the OU School of Nursing: Judy Didion PhD, RN
Anesthesia Program Director: Anne Hranchook DNP, CRNA
Assistant Director: Mary Golinski PhD, CRNA
Admissions & Clinical Coordinator: Andrea Bittinger MSN, CRNA
Clinical Coordinator: Linda McDonald DrAP, CRNA
Simulation Coordinator: Laura Rodgers MSN, CRNA
Program Secretary: Susan Davis

Only program with dedicated Simulation and Admissions Coordinators
Program Statistics

Consistently exceeds the Council on Accreditation minimum standards

Each graduate:

- Provides anesthesia in over 800 cases (minimum 600)
  - Class of 2016 ~ 850 cases
- ~ over 1,700 hours anesthesia administration time
- 25+ clinical affiliate sites: Michigan and Ohio

• Received maximum accreditation - 10 years (COA 2012)
Measures of Success

- > 2,800 ICU RN applicants over 24 years
- > 380 graduates
- In 2016 - 83% National Certification Exam First Time Pass Rate
  - National 1st time pass rate 84%
- 94% on subsequent attempts
- 100% Job Placement
- Five year attrition: 10%
Currently ranked 18th of 116 anesthesia programs in the nation by *US News and World Report*’s special edition of America’s Best Graduate Schools.
Our Challenge...

Keep all students up to date

Keep our equipment & curriculum current and adequate for learner needs

High tech teaching is required

- Use of video, photo, Internet, distance ed
- Teaching the old and the new - both are in practice
- Surgical Procedures - minimally invasive vs. open procedures
- Current trends - Bariatrics, Robotics
Current State of the Art Technology

Facebook

www.facebook.com/oucrna

Twitter

www.twitter.com/oaklandcrna

Online Courses

Distance Education

Simulation Education
Distance Education

Online Courses

- All Nursing Foundation courses are on-line

Distance Education

- Classes held in Kalamazoo, Marquette and Petosky, Michigan.
- Receive distance education from California
- Started in 2002
- Only program in the state to offer distance education programs

Oakland University | School of Nursing
Mock OR 1
DNP (Doctor of Nursing Practice)

History of move to graduate education started in 1980s

Exploring Doctoral Ed for decades

AANA Task Force - Report June 2007 entry level by 2022

60% CRNAs have master’s or doctorate

OU has graduated 7 cohorts of DNP students

- not anesthesia specific

1.2% of CRNAs hold doctoral degrees, 57% masters, 23% bachelors, 18% diploma or certificate
COA National Requirements

✓ January 1, 2018: All program administrators must hold a Doctoral degree.

✓ All accredited programs must offer a doctoral degree for entry into practice by January 1, 2022.

As of December 7, 2016:

• 53 programs approved to offer entry-level doctoral degrees
• 27 programs approved to offer post-master’s doctoral degree completion programs for CRNAs
• 63 programs remain to be approved
Growth of NA Programs in the U.S. offering DNP as Entry Level Degree

- 2014: 19 programs
- 2015: 31 programs
- 2016: 53 programs
DNP (Doctor of Nursing Practice)

Oakland University was granted approval by the COA to launch the DNP-NA starting in the fall of 2018.

First semester will be all didactic with clinical starting in second semester.

- Application requirements for this cycle will be the same.
- Those admitted will need to take graduate research & statistics prior to starting the program.
- Application requirements may incorporate these next year.
DNP - NA Track Curriculum

The DNP-NA will be formed through:

• modification of the MSN-NA specialty curriculum (addition of 7 new courses, deletion of 5 courses)

• sharing or merger of curriculum with the Post-MSN DNP program (sharing 7 courses)

The new plan of study will be completed in 36 months as compared with 28 for the MSN-NA
<table>
<thead>
<tr>
<th>CRNA Year 1</th>
<th>CRNA Year 2</th>
<th>CRNA Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL</strong></td>
<td><strong>WINTER</strong></td>
<td><strong>SUMMER</strong></td>
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<tr>
<td>NRS 6642 Biophysics &amp; Chemistry for Nurse Anesthesia (2 cr)</td>
<td>BIO 5602 Adv. Phys. and Pathophysiology (3 cr)</td>
<td>NRS 6662 Nurse Anesthesia Practice II (4 cr)</td>
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<tr>
<td>NRS 7712 Advanced Pharmacology for Nurse Anesthesia Practice I (4 cr)</td>
<td>NRS 6652 Nurse Anesthesia Practice I (4 cr)</td>
<td>NRS 7725 Nurse Anesthesia Clinical Internship II (1 cr)</td>
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<td>BIO 5600 Adv. Phys. and Pathophysiology (3 cr)</td>
<td>NRS 7722 Advanced Pharmacology for Nurse Anesthesia Practice II (3 cr)</td>
<td>BIO 5101 Gross Anatomical Dissection (3 cr)</td>
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<td>NRS 8211 Advanced Nursing Theory (3 cr)</td>
<td>NRS 8671 Advanced Research Methods (4 cr)</td>
<td>NRS 7611 Advanced Health Assessment I (1 cr)</td>
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<td>NRS 8455 Interprofessional and Interprofessional Collaboration (2 cr)</td>
<td>NRS 7715 Nurse Anesthesia Clinical Internship I (1 cr)</td>
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<tr>
<td><strong>CRNA Year 2</strong></td>
<td><strong>CRNA Year 3</strong></td>
<td><strong>CRNA Year 3</strong></td>
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<tr>
<td>NRS 6672 Nurse Anesthesia Practice III (4 cr)</td>
<td>NRS 8998 DNP Project (Planning) (2 cr)</td>
<td>NRS 8752 Advanced Practice Seminar for Nurse Anesthesia V- Leadership &amp; Management (2 cr)</td>
</tr>
<tr>
<td>NRS 8681 Clinical Prevention and Population Health (3 cr)</td>
<td>NRS 7612 Advanced Health Assessment II (2 cr)</td>
<td>NRS 8762 Cumulative Review (2 cr)</td>
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<td>NRS 7735 Nurse Anesthesia Clinical Internship III (1 cr)</td>
<td>NRS 6682 Regional Anesthesia &amp; Pain Management (3 cr)</td>
<td>NRS 8504 Interprofessional Role Development &amp; Ethics for Nurse Anesthesia (2 cr)</td>
</tr>
<tr>
<td>NRS 8712 Advanced Practice Seminar for Nurse Anesthesia I-Translating Research for Evidence Based Practice-Proposal Development (1 cr)</td>
<td>NRS 7745 Nurse Anesthesia Clinical Internship IV (1 cr)</td>
<td>NRS 7785 Nurse Anesthesia Clinical Internship VIII (2 cr)</td>
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<tr>
<td><strong>CRNA Year 3</strong></td>
<td><strong>CRNA Year 3</strong></td>
<td><strong>CRNA Year 3</strong></td>
</tr>
<tr>
<td>NRS 8241 Nursing and Healthcare Informatics &amp; Leadership (3 cr)</td>
<td>NRS 7732 Advanced Pharmacology for NA Practice III (3 cr)</td>
<td>NRS 8998 DNP Project (Analysis) (2 cr)</td>
</tr>
<tr>
<td>NRS 8998 DNP Project (Analysis) (2 cr)</td>
<td>NRS 8998 DNP Project (Dissemination) (2 cr)</td>
<td>NRS 8742 Advanced Practice Seminar for Nurse Anesthesia IV- Approaches to Healthcare Education (1 cr)</td>
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<tr>
<td>NRS 8998 DNP Project (Analysis) (2 cr)</td>
<td>NRS 8998 DNP Project (Dissemination) (2 cr)</td>
<td>NRS 7775 Nurse Anesthesia Clinical Internship VII (2 cr)</td>
</tr>
<tr>
<td>NRS 8732 Advanced Practice Seminar for Nurse Anesthesia III-Advanced Concepts in Perioperative Cardiac Care (1 cr)</td>
<td>NRS 8742 Advanced Practice Seminar for Nurse Anesthesia IV- Approaches to Healthcare Education (1 cr)</td>
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</tr>
<tr>
<td>NRS 7765 Nurse Anesthesia Clinical Internship VI (1 cr)</td>
<td>NRS 7775 Nurse Anesthesia Clinical Internship VII (2 cr)</td>
<td></td>
</tr>
</tbody>
</table>

Students are required to take courses in the sequence listed on the POS.
Application Requirements

Deadline September 15 each year

- apply early – don’t wait

Compliance with Oakland University graduate study admission requirements.

Completion of a Bachelor of Science degree in Nursing from an institution accredited by the National League for Nursing or the Commission on Collegiate Nursing Education.
Application Requirements

The undergraduate cumulative GPA - 3.0 or above

BSN – traditional or second degree

BSN after ADN

• Calculated GPA
Application Requirements

Graduate Record Examination (GRE) is required if your GPA (BSN or calculated) is less than 3.5.

Acceptable GRE scores are:

- \( V > 400, \ Q > 400, \ A > 3.0 \) tests before Aug, 2011
- \( V > 146, \ Q > 140, \ A > 3.0 \) tests after Aug, 2011
- Completion of a Physical Assessment course during nursing school
Application Requirements

Undergraduate physiology and pathophysiology: completed within 7 years of applying to the program.

Undergraduate anatomy, pharmacology and either organic chemistry or biochemistry: completed within 10 years of applying to the program.

Grades in these classes must be at or above 3.0.
Application Requirements

When retaking courses to fulfill the completion deadline you:

• Can take it at a university, community college or online.
  - it does not have to qualify for OU equivalency
  - It does not have to include the lab portion
  - Anatomy & Physiology can be a combined course
    - Only required to take 1 course
Application Requirements
Intensive Care Unit (ICU) experience

- 1 year is the national minimum
  - within 2 years of application
  - minimum of 24 hours a week

- No ICU preference
  - must deal with the critically ill population and manage vasopressors, ventilators and/or hemodynamic monitors a majority of the time

Emergency room, recovery room and step-down units do not satisfy the ICU requirement.
Application Requirements

Eligible for a current Registered Nurse license in the state of Michigan

Must have MI license by the start of the program

Two satisfactory letters of recommendation

• One must be from a current nurse manager

• Other may come from any other person who can attest to your abilities

ACLS, BLS, PALS & CCRN cards: copies must be current
Application Requirements

Goal Statement

• 500 - 1,000 words
• Why you feel anesthesia is the profession for you

Supplemental Applications (2)

• Work experience & Professional development
• ICU experience & undergraduate science courses
Selection of Students

- From 2012 - 2016, the number of applicants has been between 130 - 186
- We have interviewed 70 - 104 qualified candidates each year
- Admitted class sizes have ranged from 21 - 25
Selection of Students - Cohort options

- Kalamazoo
  - 4 students
  - Applicant pool varies: 10 - 20 / interview 8
- Toledo (must be licensed in Ohio & Michigan)
  - 2 students
  - Applicant pool varies / interview 10 - 12
- Marquette
  - 2-3 students
  - Applicant pool small / interview 3 - 5
Selection of Students

- Average GPA
  - Class of 2015: 3.67
  - Class of 2016: 3.69
  - Class of 2017: 3.72
  - Class of 2018: 3.77
  - Class of 2019: 3.65
Selection of Students

- Years of ICU experience (at time of application - in alignment with national averages)
  - Class of 2015: 2.2
  - Class of 2016: 2.05
  - Class of 2017: 2.17
  - Class of 2018: 2.13
  - Class of 2019: 2.18
Selection of Students

On going process

Files reviewed throughout the year

Interviews granted to the top applicants who meet the admission criteria

Interviews take place in the Fall

• October - with decisions made by the beginning of November
Selection of Students

Interview

• Panel interview

Basic ICU assessment

Professional Involvement

• Committees
• Education
• Certifications
• Shadow
Selection of Students

Selection of class members multifaceted

• All aspects important

Select predetermined number for class

• Based upon prior year class sizes

Will select predetermined number of alternates
Selection of Students

Once offers are made, commitment to the program is paramount.

Please be ethical with accepting & declining

If you were not selected, do not give up

• What can you do differently?
• Call soon
Graduate Student Expectations

Financial Information

• Tuition rate
  - $8,116.00 per semester
    - Adjusted each year at OU by BOT
  - 9 semesters
  - 87 credits
  - 36 months
Graduate Student Expectations

Financial Information

• Incidental costs - $10,000
  - Precordial stethoscope
  - Books
  - Lab coat
  - Health Insurance
  - Certifications (ACLS, BLS, PALS, NRP)
  - Travel / lodging
    - Rural site rotation with housing
    - Will be in upper peninsula
Graduate Student Expectations

• Why rural site requirement?

• Rural site offers autonomous anesthesia practice
  • High amounts of neuraxial / ultrasound guided nerve blocks
  • Several are CRNA only practices
  • Allows for full scope of anesthesia practice
  • Graduates able to go into independent practice right after program

• Increased marketability = employment security
Graduate Student Expectations

Financial Information (cont.)

• Conferences - $2,500.00
  - 1 in-state per year minimum
  - Others added at faculty discretion

• Transportation to clinical sites

• Approximate cost - $75,255
  - Very low for graduate education, compared to other programs in state, & future earnings
Graduate Student Expectations

Financial Support

• Tuition reimbursement from hospitals

• Scholarships

• Military: Army / Navy Nurse Corps

• Grant: Nurse Anesthesia Traineeship - Title VIII

• Other Loans
  • finaid@oakland.edu

• Family support
  • savings / nest egg
Graduate Student Expectations

Commitment to the program

- Average of 64 hours a week, each week, throughout the 28 months
  - Class & clinical
  - Study time additional
- Alters your life
- “I’ll do whatever it takes”
Graduate Student Expectations

Support systems in place:
• Family, spouse, children
• Cannot be burdens or excuses
• Financial

Back-up plans in place
Graduate Student Expectations

Health insurance coverage is required
Please plan accordingly
Affordable Healthcare Act
No longer offered through Beaumont

Graham Health Center at OU available to all students
Involvement in publications

The International Student Journal of Nurse Anesthesia

Volume 15 Issue 3 Fall 2016

TOPICS IN THIS ISSUE
- Cardiovascular Implantable Electronic Devices
- Parturient with Prolonged Prothrombin Time
- Remifentanil for Carotid Endarterectomy
- Transcatheter Aortic Valve Replacement
- Negative Pressure Pulmonary Edema
- Adenocarcinoma and Polycythemia
- Abdominal Aortic Aneurysm Repair
-Awareness and Substance Abuse
- Parturient with Neurofibromatosis
- Esophageal Doppler Monitoring
- Smith-Lemli-Opitz Syndrome
- Pediatric Diabetes Insipidus
- Rubinstein-Taybi Syndrome
- Protamine Reaction
- Multiple Sclerosis
- Tracheal Injury

Volume 16 Issue 1 Spring 2017

TOPICS IN THIS ISSUE
- Pneumothorax during Robotic Laparoscopy
- Abdominal Aortic Aneurysm Repair
- Pulmonary Recruitment Maneuvers
- Postoperative Nausea & Vomiting
- Pediatric Laryngeal Mask Airway
- Charcot-Marie Tooth Disease
- Subcutaneous Emphysema
- Carotid Endarterectomy
- Pediatric Transfusion
- Beach Chair Position
- Chiari Malformation
- Pericardial Disease
- Sickle Cell Disease
- Mastocytosis

Oakland University | School of Nursing
Student Scientific Presentations
MANA Spring Meeting 2017
Student Leadership Tracks

A Model for Nurse Anesthesia Professional Development

Track is a 1-2 semester mentored leadership experience for student anesthetists

4 tracks

Association Involvement / Government Relations

Leadership /Management

Education

Research

Won the AANA Student Excellence in Education Award 2007
Medical Missions
Philippines
Honduras
Korea
Haiti
Dominican Republic
Kenya
Clinical Hours

Dependant upon assignment

- Allow time for set-up, morning report, patient assessment, line insertion

Specialty rotations contain longer days

Off shifts required

- Afternoons, midnights

Not “day shift” mentality

- Wake up a patient you put to sleep
- Finish case you prepared for
Clinical Rotations

Unique to our program, you have the opportunity to rotate to many different clinical specialties

Allows student to become proficient and competent in each area
Clinical Rotations

- Pediatrics
- Obstetrics
- Rural / Independent Practice
  - Upper peninsula & others
- Afternoons
- Midnights
- Cardiovascular
- Thoracic
- Vascular
- Neuro-ENT
- Trauma
- NORA
Current Clinical Affiliate Sites

- Allegan General Hospital
- Beaumont - Farmington Hills
- Beaumont - Grosse Pointe
- Beaumont - Troy
- Bell Hospital - Ishpeming, MI
- Children’s Hospital of Michigan
- Covenant Health System
- Dickinson County Healthcare System
- Flower Hospital - Toledo, OH
- Kalamazoo - Bronson / Borgess
- Marquette General Hospital
- McLaren - Flint
- McLaren - Macomb
- Oaklawn Hospital - Marshall, MI
- OSF St. Francis - Escanaba, MI
- Pennock Hospital, Hastings, MI
- Port Huron Hospital
- Portage Hospital, Hancock, MI
- Providence Hospital
- Scheurer - Pigeon, MI
- St. John Hospital-Detroit
- Toledo Hospital - Main
- VA Medical Center
- Wildwood Surgery Center, Toledo
Program Benefits

Time Off

• Approx. 35 days for vacation or personal use

• Beyond this allotment, days must be made up in order to qualify for graduation

• Case totals does not mandate criteria for graduation
# Clinical Experiences - 2015

<table>
<thead>
<tr>
<th></th>
<th>Required</th>
<th>OU Mean</th>
<th>National Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Number of Cases</td>
<td>600</td>
<td>905</td>
<td>865.4</td>
</tr>
<tr>
<td>Total Hours of Anesthesia Administration</td>
<td>0</td>
<td>1,756</td>
<td>1,703</td>
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## Anatomical Categories - 2015

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<th>Category</th>
<th>Required</th>
<th>OU Mean</th>
<th>National Mean</th>
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<tbody>
<tr>
<td>Head – Intracranial</td>
<td>5 / 20</td>
<td>19</td>
<td>14.6</td>
</tr>
<tr>
<td>Intrathoracic Heart</td>
<td>5 / 10</td>
<td>27.7</td>
<td>18.9</td>
</tr>
<tr>
<td>Intrathoracic Lung</td>
<td>5</td>
<td>13.85</td>
<td>11.1</td>
</tr>
<tr>
<td>Vascular</td>
<td>10</td>
<td>52.2</td>
<td>36.7</td>
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</table>
# Special Cases - 2015

<table>
<thead>
<tr>
<th></th>
<th>Required</th>
<th>OU Mean</th>
<th>National Mean</th>
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<tbody>
<tr>
<td>Geriatric</td>
<td>50</td>
<td>243.5</td>
<td>226.4</td>
</tr>
<tr>
<td>Pediatric 2-12</td>
<td>25</td>
<td>95.75</td>
<td>72.5</td>
</tr>
<tr>
<td>Pediatric &lt; 2</td>
<td>10</td>
<td>35.5</td>
<td>23.6</td>
</tr>
<tr>
<td>Neonate</td>
<td>5</td>
<td>3.55</td>
<td>1.9</td>
</tr>
<tr>
<td>Trauma/Emergency</td>
<td>30</td>
<td>56.3</td>
<td>59.6</td>
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# Position - 2015

<table>
<thead>
<tr>
<th></th>
<th>Required</th>
<th>OU Mean</th>
<th>National Mean</th>
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<tbody>
<tr>
<td>Prone</td>
<td>20</td>
<td>56</td>
<td>55.4</td>
</tr>
<tr>
<td>Lithotomy</td>
<td>25</td>
<td>84.4</td>
<td>88</td>
</tr>
<tr>
<td>Lateral</td>
<td>5</td>
<td>85.1</td>
<td>84.2</td>
</tr>
<tr>
<td>Sitting</td>
<td>5</td>
<td>34</td>
<td>26.8</td>
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## Methods of Anesthesia - 2015

<table>
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<tr>
<th>Procedure</th>
<th>Required</th>
<th>OU Mean</th>
<th>National Mean</th>
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<tr>
<td>General Anesthesia</td>
<td>350</td>
<td>678.85</td>
<td>608.5</td>
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<td>Inhalation Induction</td>
<td>10</td>
<td>127.65</td>
<td>87.7</td>
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<td>Mask Management</td>
<td>25</td>
<td>69.8</td>
<td>59.6</td>
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<td>LMA</td>
<td>25</td>
<td>150</td>
<td>110.9</td>
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<tr>
<td>Tracheal Intubation/Oral</td>
<td>200</td>
<td>393.6</td>
<td>388.7</td>
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<tr>
<td>Tracheal Intubation/Nasal</td>
<td>10</td>
<td>12.7</td>
<td>17</td>
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# Methods of Anesthesia - 2015

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<th>Administration</th>
<th>Required</th>
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<th>National Mean</th>
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<tbody>
<tr>
<td>25 of 3 categories below</td>
<td>101.8</td>
<td>104</td>
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<tr>
<td>Spinal</td>
<td>0</td>
<td>50.1</td>
<td>40.6</td>
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<tr>
<td>Epidural</td>
<td>0</td>
<td>20.15</td>
<td>36.3</td>
</tr>
<tr>
<td>Peripheral</td>
<td>0</td>
<td>31.55</td>
<td>27.1</td>
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Questions

Andrea Bittinger CRNA, MSN
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248-898-7683