Welcome to the updated 2023 Carolina Refresher Course (CRC): A unique and enjoyable learning experience in a friendly and relaxed environment utilizing 30-minute lecture sessions, speaker question and answer panels, problem-based learning discussions, and hands-on workshops in point-of-care ultrasound, regional anesthesia, and surgical airway skills. We offer you a faculty of polished guest speakers along with our outstanding UNC faculty in medicine and anesthesiology, who consistently receive rave reviews from our course attendees. You will return to your practice feeling invigorated with updated clinically relevant information and techniques that will enhance your patient safety knowledge, technical skills and practice.

The Carolina Refresher Course is designed to provide medical education sessions in the morning with the afternoons free to relax and enjoy the amenities of this lush 10,000 acre privately owned barrier island, with approximately half of this acreage preserved in its natural state. History buffs will enjoy visiting the nearby city of Charleston, South Carolina, the best-preserved colonial city in America and a haven for foodies, featuring outstanding restaurants offering creative southern cuisine. Kiawah Island Resort boasts five different golf courses, including its renowned links Ocean Golf Course, and is one of only four locations in the US to host every major American PGA event, including the 2012 and 2021 PGA Championship, along with the Ryder Cup. Kiawah Island Resort is also recognized as the #1 Tennis Resort in the world in 2019, as rated by Tennisresortsonline.com, with two tennis complexes featuring clay courts, hard courts and pickleball courts. Other family activities include kid’s camps, youth and teen activities, nature tours, eco charters, shaded biking trails and kayaking, multiple pools, and miles of balmy ocean beaches featuring child-friendly gentle surf.

We hope you will be able to join us at this idyllic venue for what promises to be a relaxing and enjoyable week of continuing medical education at its finest.

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<tr>
<th>Registration Fee</th>
<th>Early Rate</th>
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<td>Physician/CRNA/CAA</td>
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MOCA 2.0® is a trademark of The American Board of Anesthesiology®
COURSE DIRECTORS

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Professor of Anesthesiology, University of North Carolina at Chapel Hill, Carolina Refresher Course Co-Director

JACOB ACTON, MD
Assistant Professor of Anesthesiology, University of North Carolina at Chapel Hill, Carolina Refresher Course Co-Director

GUEST FACULTY

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Section Head, Orthopedic Anesthesiology
Chair, Enhanced Recovery After Surgery (ERAS) Guiding Team
Department of Anesthesiology
Virginia Mason Medical Center

University of North Carolina at Chapel Hill Faculty

Department of Medicine
Division of Hematology

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Professor of Medicine
Fellowship Program Director

Department of Anesthesiology

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Vice Chair of Patient Safety and Quality Improvement, Medical Director of CRNAs, Medical Director of PACU

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Program Director of Regional Anesthesia Fellowship

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Assistant Professor of Anesthesiology

EVA WALLER, MD
Assistant Professor of Anesthesiology and Pediatrics

DAVID ZVARA, MD, FASA
Professor and Chair of Anesthesiology
<table>
<thead>
<tr>
<th>Time</th>
<th>Sunday, June 18</th>
<th>Monday, June 19</th>
<th>Tuesday, June 20</th>
<th>Wednesday, June 21</th>
<th>Thursday, June 22</th>
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<tr>
<td>3-7pm</td>
<td>Registration</td>
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<tr>
<td>4:55-5:00</td>
<td>Welcome and course introduction</td>
<td>Daily Announcements</td>
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<tr>
<td>5:00-5:30</td>
<td>Folklore, Fairy Tales and Fantasy: Examining Dogmas in Anesthesiology</td>
<td>Vascular Access: Never Miss Again</td>
<td>Influence and Data: Are You Getting the Most Out of Your Available Data?</td>
<td>Perioperative Management of Cirrhosis</td>
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<td>5:30-6:00</td>
<td>It’s Getting Hot in Here, so Let’s Turn Down Those Flows Joseph Sisk, MD</td>
<td>Ultrasound for Regional Anesthesia: Tips and Tricks for Clinical Success David Auyong, MD</td>
<td>Acquired Coagulation Defects and How to Manage Them Alice Ma, MD</td>
<td>Virtual Cadaver Lab: Clinical Pearls to Improve Regional Anesthesia Success David Auyong, MD</td>
<td>Reducing Intraoperative Blood Transfusions: Fighting Dogma with Evidence &amp; Quality Improvement Greg Balfanz, MD</td>
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<tr>
<td>6:00-6:30</td>
<td>Using POCUS to Improve Your Clinical Decision-Making Skills David Hardman, MD, MBA, FASA</td>
<td>Ketamine – a Miracle Drug or a Perioperative Myth? Dominika James, MD</td>
<td>Infertility and Pregnancy Complications in Female Anesthesia Providers Eva Waller, MD</td>
<td>Sickle Cell Disease and Implications for the Surgical Patient Alice Ma, MD</td>
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<td>6:30-7:00</td>
<td>Anesthesiology Workforce in 2023: Where Are We, and Where Are We Going? David Zvara, MD</td>
<td>Panel discussion Q&amp;A with Faculty</td>
<td>Panel discussion Q&amp;A with Faculty</td>
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<tr>
<td>7:00-7:30</td>
<td>Panel discussion Q&amp;A with Faculty</td>
<td>Break &amp; Exhibits</td>
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<tr>
<td>7:30-9:00</td>
<td>Evening reception with heavy hors d’oeuvres: Meet the faculty and your colleagues.</td>
<td>Perioperative Nerve Injury During Regional and Neuraxial Anesthesia David Hardman, MD, MBA, FASA</td>
<td>Caring for the Patient Without a Pulse: Management of LVAD Patients Undergoing Non-Cardiac Surgery Shawn Jia, MD</td>
<td>Pulmonary Aspiration Prevention in the GI Suite! Alexander Doyal, MD</td>
<td>Perioperative Management of Common Valvular Abnormalities Laurieane Guichard, MD</td>
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<td>10:00-11:30</td>
<td>Pediatric Crisis? There’s an App for That! Joseph Sisk, MD</td>
<td>Which Anesthetic Approach is Best for Patients with Severe Pulmonary Hypertension? Alan Smeltz, MD</td>
<td>Throwing the Pharmacologic Kitchen Sink: Salvage Therapies for Vasodilatory Shock Shawn Jia, MD</td>
<td>Management of Accidental Dural Puncture: Conservative Strategies and Epidual Blood Patch Lacey Straube, MD</td>
<td>Congenital Coagulation Defects and How to Manage Them Alice Ma, MD</td>
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<tr>
<td>11:00-11:30</td>
<td>Intraoperative Rescue TEE for the Hemodynamically Unstable Patient Laurieane Guichard, MD</td>
<td>Making Trunk Blocks Work Monika Nanda, MD</td>
<td>Analgesia for Breast Surgery Monika Nanda, MD</td>
<td>Ventilator Strategies in the Obese Robotic Surgery Patient Jacob Acton, MD</td>
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<tr>
<td>11:30-12:00</td>
<td>Panel discussion Q&amp;A with Faculty</td>
<td>Panel discussion Q&amp;A with Faculty</td>
<td>Panel discussion Q&amp;A with Faculty</td>
<td>Panel discussion Q&amp;A with Faculty Course Wrap-up</td>
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<td>12:00-1:00</td>
<td>Problem-Based Learning Discussion Femoral Block, PENG, Fascia Iliaca: How do I Choose the Best Block for My Hip Fracture Patient? Monika Nanda, MD</td>
<td>Problem-Based Learning Discussion Perioperative Management of Patients on Buprenorphine Therapy Dominika James, MD</td>
<td>Problem-Based Learning Discussion Management of Obstetric Hemorrhage Lacey Straube, MD</td>
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<td>12:00-1:00</td>
<td>Point of Care Ultrasound Workshop POCUS: Lung, Gastric, Abdominal, and Cardiac Scanning in Live Models Multiple Faculty</td>
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<td>12:00-1:00</td>
<td>Regional Anesthesia Workshop Regional Nerve Blocks Hardman, MD, Doyal, MD</td>
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**Welcome Reception**

Complimentary heavy hors d’oeuvres, beer, wine, and soft drinks. *Cash bar for mixed drinks

**SUNDAY 7:30p - 9:00p**

**EVERYONE IS WELCOME TO JOIN:** Course registrants, family members, exhibitors and faculty.
Conference Location All sessions will be conducted at the new West Beach Conference Center, Kiawah Island Resort. Kiawah Island is 21 miles south of Charleston and a 45-minute drive from Charleston International Airport (CHS). Additional resort information is available at kiawahisland.com. Kiawah Island Resort is on a lush barrier island with unspoiled beaches, great visibility due to lack of high rises, waterways perfect for kayaking and one of the top US golf courses. Be sure to sample the Southern charm, sights and world-class restaurants of Charleston, one of the best-preserved colonial cities in America.

Staying in Kiawah A block of 1- and 2-bedroom condos has been reserved for attendees of the Carolina Refresher Course at the Kiawah Island Resort. To make a reservation, please call Kiawah Island Resort at (866) 763-5056 and identify yourself with the UNC School of Medicine, booking code 19970. Individuals are responsible for making their own reservations. A non-refundable deposit equal to one night’s stay per reserved accommodation is required. The deposit guarantees accommodations for the scheduled arrival day and will be applied to the last night’s reservation. Early departure, or failure to arrive on the scheduled arrival day, will result in forfeiture of the deposit. It is recommended that reservations be made at the earliest opportunity. There are a limited number of rooms at the preferred rate, and they book quickly! In addition, a limited block of rooms is available at the beachfront Sanctuary luxury hotel upon request. Please contact Kiawah Resort for prices and availability.


Conference Pricing

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Point-of-Care-Ultrasound Workshops

Three-day workshop will cover cardiac, lung and abdominal scanning and is limited to a total of 16 participants, 4 attendees per instructor. Complimentary, but first come, first serve. You can only register for one workshop each day.

Regional Nerve Block Ultrasoundography Workshops

The regional nerve blocks and ultrasoundography workshop sessions are limited to 8 participants each and will cover the different ultrasound scanning views for peripheral nerve blocks and associated anatomy. Complimentary, but first come, first serve. You can only register for one workshop each day.

Problem-Based Learning Discussions

Problem-Based Learning Discussion sessions are complementary, but limited to 12 participants each, so please register early as they tend to fill quickly. Case discussions and references will be emailed to registered attendees two weeks prior to the course.

Educational Objectives

The information presented at this educational activity should improve your ability to:
- Perform new regional nerve blocks
- Review basic point-of-care-ultrasound indications and recognize pathology
- Describe goal directed fluid therapy techniques
- Review the management of obstetric patients
- Review pediatric perioperative management
- Review updates in ventilator management
- Describe controversies in acute pain management
- Describe management of complex cardiac patient populations
- Review multiple quality improvement parameters
- Describe management of patients on opioid antagonists management

Statement of Need

Anesthesiology, Pain, and Critical Care Medicine are medical disciplines uniquely characterized by an exponentially expanding base of peer reviewed literature, evolving technology, and new techniques combined with ever increasing clinical realms of practice in which this novel information is relevant. The Carolina Refresher Course seeks to present a portion of this material in a format that emphasizes utility, practicality, and retention so that the content learned may be easily and effectively applied in the improvement of patient safety, comfort, and satisfaction.

Target Audiences

The course is designed for physicians, including but not limited to anesthesiologists, critical care specialists, pain specialists, surgeons, and internists, as well as certified registered nurse anesthetists, anesthesiologist resident and fellow physicians, certified anesthesiologist assistants, and allied services practitioners.

Course Credit

Physicians: The School of Medicine of the University of North Carolina at Chapel Hill designates this live activity for a maximum of 23.5 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

CRNAs: This program has been approved by the American Association of Nurse Anesthetists for a pending approval maximum of CE credits; Code Number pending. Expiration Date pending. CRNAs should only claim credit commensurate with the extent of their participation in the activity.

Accreditation

The School of Medicine of the University of North Carolina is accredited by the Accreditation Council for Continuing Medical Education (ACME) to provide continuing medical education for physicians.

Contact Information

For additional information, please send an email to: CRC@med.unc.edu with “CRC 2023” in the subject line. Fee includes certificate of completion and online handouts. Continental breakfast and refreshments provided. Directions with information to on how to download handouts will be sent several weeks before the meeting.

Disclosures

This activity has been planned and implemented under the sole supervision of the course directors, in association with the UNC Office of Continuing Professional Development (UNC CPD). This activity has not received any financial support from commercial interests.

ADA Statement

If an attendee requires the use of auxiliary aids or services identified by the American Disabilities Act in order to attend this meeting, he or she should contact Thomas Costello at 919-966-0009.

Refund/Credit/Payment/Cancellation Policy

Cancellation request prior to midnight, May 19, 2023 — a full refund will be issued. After midnight, May 19, 2023 — no refunds will be issued. All cancellations must be submitted in writing (fax, email, or postmarked mail). No Substitutes.

Patient Safety and Quality Improvement

This activity contributes to the patient safety CME requirement for the CME component of the American Board of Anesthesiology’s (ABA) redesigned Maintenance of Certification in Anesthesiology™ (MOCA®) program, known as MOCA 2.0®. Please consult the ABA website, www.theABA.org, for a list of MOCA 2.0 requirements. This activity contributes to the Quality Improvement component of the American Board of Anesthesiology’s (ABA) redesigned Maintenance of Certification in Anesthesiology™ (MOCA®) program, known as MOCA 2.0®. Please consult the ABA website, www.theABA.org, for a list of all MOCA 2.0 Quality Improvement requirements and their associated point values.

Register ONLINE at GO.UNC.EDU/CRC23
Scan the code to get started

You may also call or email Thomas Costello to register at 919-966-0009, or CRC@med.unc.edu
Register today at
GO.UNC.EDU/CRC23
Scan the code to get started