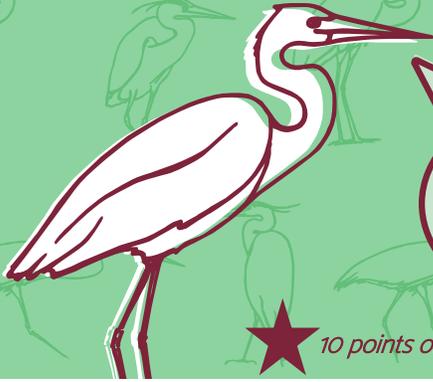


# Update in

CAROLINA REFRESHER COURSE 2022

33rd ANNUAL

# ANESTHESIOLOGY, PAIN & CRITICAL CARE MEDICINE



NEW Conference Center  
NEW Surgical Airway Workshop  
NEW MOCA 2.0® type IV credits  
NEW Schedule: Sun-Thurs

★ 10 points of MOCA 2.0® type IV credit (pending approval)

Kiawah Island, SC | June 12-16, 2022

Discounted room rates Sat. June 12 through Sat June 18, 2022



UNC  
SCHOOL OF MEDICINE



Welcome to the updated 2022 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 and hard 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.

| Registration Fee   | Early Rate | After 12/31      | After 3/15      | On Site           |
|--------------------|------------|------------------|-----------------|-------------------|
| Physician/CRNA/CAA | \$805      | 10% OFF<br>\$850 | 5% OFF<br>\$873 | 2.5% OFF<br>\$895 |
| Resident/SRNA/AA   | \$325      | \$325            | \$325           | \$325             |
| Student            |            |                  |                 |                   |

*"Excellent conference, impressive faculty, beautiful venue"*

*"Premier location! My 7<sup>th</sup> time coming, and I plan to attend next year!"*

*"The 30-minute presentations were a perfect time format"*

*"The speakers have been the very best of any conference I've attended"*



*New state of the art conference center at West Beach*



*View of iconic Ocean Golf Course clubhouse*

**Additional 10% off for previous registrants at all times. Additional 5% off if you refer a new registrant**

Maintenance of Certification in Anesthesiology™ program and MOCA™ are registered trademarks of The American Board of Anesthesiology

MOCA 2.0® is a trademark of The American Board of Anesthesiology

# CAROLINA REFRESHER COURSE *Faculty*

## Course Directors

**HARENDRA ARORA, MBBS, MBA, FASA**

Professor of Anesthesiology, University of North Carolina at Chapel Hill, Vice Chair for Education, Carolina Refresher Course Director

**JACOB ACTON, MD**

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

*University of North Carolina at  
Chapel Hill Faculty*

Department of Medicine

**JOHN VAVALLE, MD, MHS, FACC**

Assistant Professor of Medicine, Medical Director UNC Structural Heart Disease Program, Program Director Structural Heart Disease Fellowship

Department of Anesthesiology

**SAMUEL BLACKER, MD**

Assistant Professor of Anesthesiology, Director of Anesthesia Support Services

**DAVID FLYNN, MD, MBA**

Assistant Professor of Anesthesiology

**STUART GRANT, MB ChB, MMCI, FRCA**

Professor of Anesthesiology, Division Chief Regional Anesthesia, Director of Clinical Research

**DAVID HARDMAN, MD, MBA, FASA**

Professor of Anesthesiology

**MARK HENRY, MD**

Assistant Professor of Anesthesiology

**MARYAM JOWZA, MD**

Assistant Professor of Anesthesiology

**SHARON KAPELUK, MD**

Associate Professor of Anesthesiology

**PRIYA A. KUMAR, MD, FASA**

Professor of Anesthesiology

**ANTHONY PASSANNANTE, MD**

Professor and Executive Vice Chair of Anesthesiology

**JANEY PHELPS, MD**

Associate Professor of Anesthesiology and Pediatrics

**IRINA PHILLIPS, MD**

Assistant Professor of Anesthesiology

**LACEY STRAUBE, MD**

Assistant Professor of Anesthesiology

**DAVID ZVARA, MD, FASA**

Professor and Department Chair of Anesthesiology, Chief Operating Officer UNC Faculty Physicians

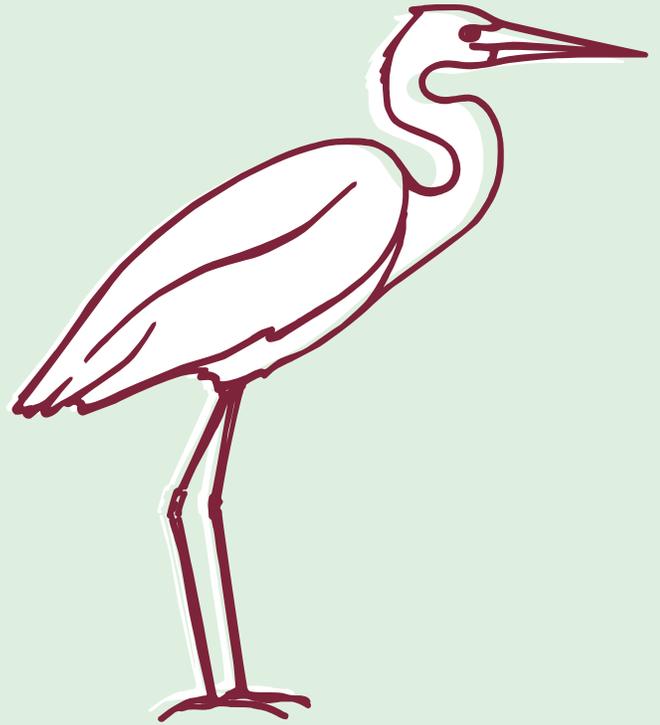
## Guest Faculty

**ANDREW SHAW, MB FRCA FFICM**

Chair, Dept of Intensive Care and Resuscitation, Cleveland Clinic, President Elect Society of Cardiovascular Anesthesiologists

**EUGENE R. VISCUSI, MD**

Professor of Anesthesiology, Chief of Pain Medicine, Director of Acute Pain Management, Sidney Kimmel Medical School of Thomas Jefferson University, ASRA President 2019-2021



## SUNDAY JUNE 12

## MONDAY JUNE 13

## TUESDAY JUNE 14

## WEDNESDAY JUNE 15

## THURSDAY JUNE 16

|  |  |   |   |  |
|--|--|---|---|--|
| <b>3-7pm</b> Registration  | <b>6:15-6:55am</b> Full hot breakfast buffet, exhibit area open  | Full hot breakfast buffet, exhibit area open  | Full hot breakfast buffet, exhibit area open  | Full hot breakfast buffet, exhibit area open   |
| <b>4:55-5:00</b> Welcome and course introduction   | <b>6:55-7:00</b> Daily Announcements   | Daily Announcements   | Daily Announcements   | Daily Announcements  |
| <b>5:00-5:30</b> Fluid and blood product therapy: What should we be doing in 2022<br><i>Anthony Passannante, MD</i>                                      | <b>7:00-7:30</b> Perioperative brain health and the elderly: Tailoring anesthetics to prevent delirium and mitigate cognitive decline<br><i>Samuel Blacker, MD</i> | Practical hemodynamic assessment and management<br><i>Andrew Shaw, MB FRCA FFICM</i>                                      | Novel techniques in treatment of joint degeneration: Can joint replacement surgery be avoided?<br><i>Irina Phillips, MD</i> | Truncal nerve blocks: Evidence based or flights of fancy<br><i>Stuart Grant, MB ChB, MMCI, FRCA</i>          |
| <b>5:30-6:00</b> Myths and dogmas in Neuroanesthesia<br><i>Samuel Blacker, MD</i>  | <b>7:30-8:00</b> Critical care ventilation strategies: From the ICU to the OR<br><i>Jacob D Acton, MD</i>  | Perioperative pain management in the patient with substance abuse disorder<br><i>Eugene Viscusi, MD</i>                   | IV fluid therapy in 2022 – still controversial?<br><i>Andrew Shaw, MB FRCA FFICM</i>  | Current concepts and controversies at the American Board of Anesthesiology<br><i>Anthony Passannante, MD</i> |
| <b>6:00-6:30</b> Is there a FAST exam in your future? Using POCUS to improve your clinical decision-making skills<br><i>David Hardman, MD, MBA, FASA</i> | <b>8:00-8:30</b> Transcatheter valve replacement procedures: The UNC experience with TAVR<br><i>John P. Vavalle, MD, MHS, FACC</i>                                 | Virtual reality after surgery: Can it decrease opioid use?<br><i>Janey Phelps, MD</i>                                     | Opioid free surgery and recovery: A pipedream or a reality in 2022?<br><i>Eugene Viscusi, MD</i>                            | Lessons learned from medicolegal expert witness case reviews<br><i>David Hardman, MD, MBA, FASA</i>          |
| <b>6:30-7:00</b> An ECMO primer: What we need to know<br><i>Mark Henry, MD</i>   | <b>8:30-9:00</b> Panel discussion Q&A with Faculty   | Panel discussion Q&A with Faculty   | Panel discussion Q&A with Faculty   | Panel discussion Q&A with Faculty  |
| <b>7:00-7:30</b> Panel discussion Q&A with Faculty   | <b>9:00-9:30</b> Break & Exhibits  | Break & Exhibits  | Break & Exhibits  | Break & Exhibits   |
| <b>7:30-9:00</b> Evening reception with heavy hors d'oeuvres: Meet the faculty and your colleagues   | <b>9:30-10:00</b> Capacity building in Malawi: UNC Global Anesthesia<br><i>Janey Phelps, MD</i>  | Endovascular procedures: Anesthetic approaches and perioperative considerations<br><i>Harendra Arora, MBBS, MBA, FASA</i> | Is there a role for cannabinoids in acute and chronic pain therapy?<br><i>Maryam Jowza, MD</i>                              | Guideline update for the management of patients with cardiac stents<br><i>Priya Kumar, MD, FASA</i>          |

### 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.**

|   |  |   |  |
|---|--|---|--|
| <b>10:00-10:30</b> Non-cardiac surgery in patients with left ventricular assist devices (LVAD)<br><i>Priya A. Kumar, MD, FASA</i>   | Perioperative acute kidney injury – 2022 Update<br><i>Andrew Shaw, MB FRCA FFICM</i>   | New developments in carotid disease and carotid endarterectomy<br><i>Anthony Passannante, MD</i>                                    | Perioperative management of acute pulmonary embolism<br><i>Mark Henry, MD</i>  |
| <b>10:30-11:00</b> Difficult airway rescue techniques<br><i>Sharon Kapeluk, MD</i>  | Patient satisfaction in outpatient surgery: How it's measured, why it matters, and what you can do about it<br><i>David Flynn, MD, MBA</i> | Non-obstetrical surgery in the pregnant patient: What should I be doing?<br><i>Lacey Straube, MD</i>                                | Value-based insurance contracts: Impact on anesthesia providers and how we should alter our practice in a value-based world<br><i>David Flynn, MD, MBA</i> |
| <b>11:00-11:30</b> Transcatheter tricuspid valve replacement, mitral clips and the emerging specialty of structural heart disease.<br><i>John P. Vavalle, MD, MHS, FACC</i> | Understanding the new ketamine guidelines for acute and chronic pain<br><i>Eugene Viscusi, MD</i>  | Hip fracture anesthesia: Have you been doing it all wrong?<br><i>Stuart Grant, MB ChB, MMCI, FRCA</i>                               | Post cesarean multimodal analgesia and opioid reduction.<br><i>Lacey Straube, MD</i>   |
| <b>11:30-12:00</b> Panel discussion Q&A with Faculty  | Panel discussion Q&A with Faculty  | Panel discussion Q&A with Faculty   | Panel discussion Q&A with Faculty and Course Wrap-up   |
| <b>12:00-1:00</b> Enhanced recovery for spine surgery<br><i>Samuel Blacker, MD</i>  | Plug and play: is it the best way? Emerging strategies for managing intensive care patients in the operating room<br><i>Mark Henry, MD</i> | Perioperative management of patients on partial opioid agonist and antagonist therapy<br><i>Irina Phillips, MD Maryam Jowza, MD</i> |  |
| <b>12:00-1:00</b> <b>Point of Care Ultrasound Workshop</b><br>POCUS: Lung, gastric, and abdominal scanning in live models<br><i>Multiple Faculty</i>                        | <b>Point of Care Ultrasound Workshop</b><br>POCUS: Cardiac parasternal, apical, and subcostal windows<br><i>Multiple Faculty</i>           | <b>Point of Care Ultrasound Workshop</b><br>POCUS: Cardiac parasternal, apical, and subcostal windows<br><i>Multiple Faculty</i>    |  |
| <b>12:00-1:00</b> <b>Regional Anesthesia Workshop</b><br>Regional Nerve Blocks<br><i>Grant, MB ChB, Hardman, MD</i>   | <b>Regional Anesthesia Workshop</b><br>Regional Nerve Blocks<br><i>Grant, MB ChB, Hardman, MD</i>  | <b>Regional Anesthesia Workshop</b><br>Regional Nerve Blocks<br><i>Grant, MB ChB, Hardman, MD</i>                                   |  |
| <b>12:00-1:00</b> <b>Airway Workshop</b><br>Cricothyroidotomy surgical workshop (6 registrants)<br><i>Sharon Kapeluk, MD</i>  | <b>Airway Workshop</b><br>Cricothyroidotomy surgical workshop (6 registrants)<br><i>Sharon Kapeluk, MD</i>                                 | <b>Airway Workshop</b><br>Cricothyroidotomy surgical workshop (6 registrants)<br><i>Sharon Kapeluk, MD</i>                          |  |

**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](http://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 (800) 654-2924 and identify yourself with the UNC School of Medicine, booking code 16785. 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.

**Kiawah Island Condominium Room Rates** One Bedroom \$250, Two Bedroom \$325; Discount room rates Sat. Jun. 11 - Sun. June 19.

### Conference Pricing

| Registration Fee   | Early Rate | After 12/31 | After 3/15 | On Site |
|--------------------|------------|-------------|------------|---------|
| Physician/CRNA/CAA | \$805      | \$850       | \$873      | \$895   |
| Resident/SRNA/AA   | \$325      | \$325       | \$325      | \$325   |
| Student            |            |             |            |         |

\*\*Previous registrants will receive an additional 10% discount and if they refer a new registrant an additional 5%. (i.e. a maximum of 15% additional discount)

### 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.

### Surgical Airway Workshop

The surgical airway workshops are limited to 6 participants each and will cover identifying landmarks and positioning for surgical airways, then hands on cricothyrotomy using a deer model. Complimentary, but first come, first serve. You can only register for one workshop each day.

### Regional Nerve Block Ultrasonography Workshops

The regional nerve blocks and ultrasonography 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
- Manage difficult airways and practice surgical airway techniques
- Review the management of obstetric patients
- Review pediatric sedation updates
- Implement the newest techniques in carotid surgery management
- Describe controversies in acute pain management
- Describe management of complex catheter based cardiac procedures

**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, anesthesiology 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 (ACCME) to provide continuing medical education for physicians.

**Contact Information** For additional information, please send an email to: [anesthesiologycme@aims.unc.edu](mailto:anesthesiologycme@aims.unc.edu) with "CRC 2022" in the subject line. Fee includes certificate of completion and online handouts. Continental breakfast and refreshments provided. Directions with information 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 Lynn Craven at 919-966-0009

**Refund/Credit/Payment/Cancellation Policy** Cancellation request prior to midnight, May 13, 2022 – a full refund will be issued. After midnight, May 13, 2022 – 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](http://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](http://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/CRC2022](http://GO.UNC.EDU/CRC2022)  
Scan the code to get started

You may also call or email Lynn Craven to register at 919-966-0009, or [Lynn\\_Craven@med.unc.edu](mailto:Lynn_Craven@med.unc.edu)

*Register today at*

**GO.UNC.EDU/CRC2022**



**Scan the  
code to get  
started**

