Program Overview:

The University of Pittsburgh Physicians Department of Anesthesiology and Perioperative Medicine will sponsor the Annual UPMC Update in Anesthesia, Pain & Intensive Care Conference April 26-27, 2019 at the beautiful Nemacolin Woodlands Resort, Farmington, PA.

This distinctive program is designed to join experts in anesthesiology and perioperative medicine in a collaborative educational program. This program is intended to review and update the knowledge and skills of anesthesia and perioperative medicine and other healthcare providers. What differentiates this course is its focus on recent updates in non-opioid therapies, opioid addiction, perioperative management for liver and cardiac transplantation, obstetric, pediatric and acute and chronic pain medicine. The program emphasizes the role of operation management, “opioid-free anesthesia and recovery”, the role of anesthesiology providers in perioperative medicine, and ultrasound-guided techniques for point of care and regional anesthesia.

This activity is sponsored by the University of Pittsburgh Physicians Department of Anesthesiology and Perioperative Medicine and the University of Pittsburgh School of Medicine Center for Continuing Education in the Health Sciences. (Course # 7854)

Target Audience:

The target audience for this meeting consists of pain and primary care physicians, anesthesiologists, neurologists, neurosurgeons, emergency room and rehab physicians, surgeons, gastroenterologists, internal medicine and family practice physicians, general practitioners, residents, fellows, pharmacists, nurses, CRNAs, CRNPs, PA-Cs, and any other interested individuals.

Learning Objectives:

Upon conclusion of the program, attendees should be able to understand:

- Updates in cardiac and liver transplantation anesthesia and intensive care genetics
- Opioid free surgery
- The role of anesthesiologists in perioperative medicine
- Updates in operating room management
- Updates in chronic pain and opioid addiction
- Updates in pediatric acute & chronic pain medicine
- Update in regional anesthesia and analgesia
- The role of alternative techniques in perioperative pain
- Updates in Auriculotherapy
Program Schedule:

Nurse Program Friday, April 26, 2019
PAIN MANAGEMENT EDUCATION FOR THE ACUTE CARE NURSE: THE OPIOID CRISIS AND BEYOND

<table>
<thead>
<tr>
<th>TIME</th>
<th>TITLE</th>
<th>SPEAKER</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:15 am - 8:30 am</td>
<td>Registration, Continental Breakfast &amp; Exhibits</td>
<td>Jacques E. Chelly, MD, MBA, PhD</td>
</tr>
<tr>
<td>8:30 am - 8:45 am</td>
<td>Welcome &amp; Opening Remarks</td>
<td>Jacques E. Chelly, MD, MBA, PhD</td>
</tr>
<tr>
<td>8:45 am - 9:45 am</td>
<td>Auriculotherapy</td>
<td>Tammy Flemming, DNP, ACNP-BC, RN</td>
</tr>
<tr>
<td>9:45 am - 10:45 am</td>
<td>The Role of Fear Avoidance in Chronic Pain Rehabilitation</td>
<td>Tammy Flemming, DNP, ACNP-BC, RN</td>
</tr>
<tr>
<td>10:45 am - 11:00 am</td>
<td>Coffee Break</td>
<td></td>
</tr>
<tr>
<td>11:00 am - 12:00 pm</td>
<td>Status of Addiction Medicine - Opioid Epidemic Update</td>
<td>Ryan West, MS, CFI</td>
</tr>
<tr>
<td>12:00 pm - 12:45 pm</td>
<td>Lunch</td>
<td></td>
</tr>
<tr>
<td>12:45 pm - 1:45 pm</td>
<td>The Fire Extinguisher: Intranasal Naloxone</td>
<td>Jennifer Pruskowski, PharmD, BCPS, BCGP, CPE</td>
</tr>
<tr>
<td>1:45 pm - 2:30 pm</td>
<td>There’s a Pill for That…NOT! Non-Pharmacological Interventions for Nursing</td>
<td>Lois J. Pizzi, MSN, ACNS-BC, RN-BC</td>
</tr>
</tbody>
</table>
| 2:30 pm - 3:30 pm | A Medical Marijuana Update for Pennsylvania  
(Non-MD CME)                                                       | Trent Emerick, MD, MBA                                                 |
| 3:30 pm       | Conference Adjournment and Evaluation                                |                                                                         |

UPMC Provider Unit is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation. The learner will be awarded 5.75 continuing education contact hours(s) for attending the program in its entirety and upon completion and submission of an evaluation form.

Faculty List:

Jacques E. Chelly, MD, PhD, MBA  
Course Director  
Professor  
University of Pittsburgh School of Medicine  
Department of Anesthesiology and Perioperative Medicine  
Department of Orthopedic Surgery  
Director, Regional Anesthesiology & Acute Pain Medicine Fellowship  
University of Pittsburgh/UPMC Department of Anesthesiology and Perioperative Medicine  
Pittsburgh, PA

Tammy Flemming, DNP, ACNP-BC, RN  
Course Co-Director  
Certified Registered Nurse Practitioner  
Chronic Pain Division  
UPMC Department of Anesthesiology and Perioperative Medicine  
Pittsburgh, PA

Lois J. Pizzi, MSN, ACNS-BC, RN-BC  
Course Co-Director  
Clinical Nurse Specialist  
University of Pittsburgh Medical Center  
UPMC Shadyside  
Pittsburgh, PA

Trent Emerick, MD, MBA  
Assistant Professor  
University of Pittsburgh School of Medicine  
Co-Associate Program Director, Pain Medicine Fellowship  
University of Pittsburgh/UPMC Department of Anesthesiology and Perioperative Medicine  
Pittsburgh, PA

Jennifer Pruskowski, PharmD, BCPS, BCGP, CPE  
Assistant Professor, Pharmacy and Therapeutics  
University of Pittsburgh School of Pharmacy  
Co-Director Geriatric and Palliative Care Area  
UPMC Palliative and Supportive Institute  
University of Pittsburgh School of Pharmacy/UPMC Department of Pharmacy  
Pittsburgh, PA

Ryan West, MS, CFI  
Greenbriar Treatment Center  
6200 Brooktree Road  
Suite 210  
Wexford, PA 15090
### Saturday, April 27, 2019

#### ADVANCES IN CARDIOTHORACIC AND TRANSPLANT ANESTHESIOLOGY

<table>
<thead>
<tr>
<th>TIME</th>
<th>TITLE</th>
<th>SPEAKER</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 am - 8:00 am</td>
<td>Registration, Continental Breakfast &amp; Exhibits</td>
<td>Aman Mahajan, MD, PhD, MBA, Jacques E. Chelly, MD, PhD, MBA</td>
</tr>
<tr>
<td>8:00 am - 8:15 am</td>
<td>ABC’s of Thoracic Anesthesia</td>
<td>Erin A. Sullivan, MD, FASA</td>
</tr>
<tr>
<td>8:15 am - 8:45 am</td>
<td>Past, Present and Future of Ventricular Assist Devices</td>
<td>Christopher Sciortino, MD, MS, PhD, FACS</td>
</tr>
<tr>
<td>8:45 am - 9:15 am</td>
<td>Anesthesia for Electrophysiological Procedures</td>
<td>Kimberly Howard-Quijano, MD</td>
</tr>
<tr>
<td>9:15 am - 9:45 am</td>
<td>Problem Based Echocardiography</td>
<td>Kathirvel Subramaniam, MD, MPH, FASE</td>
</tr>
<tr>
<td>9:45 am - 10:15 am</td>
<td>Coffee Break and Exhibits</td>
<td></td>
</tr>
<tr>
<td>10:15 am - 10:45 am</td>
<td>ERAS for Liver Surgery and Transplantation</td>
<td>Raymond M. Planinsic, MD, FASA</td>
</tr>
<tr>
<td>10:45 am - 11:15 am</td>
<td>Perioperative Renal Protection</td>
<td>Ibtesam Hilmi, MB, ChB</td>
</tr>
<tr>
<td>11:15 am - 11:45 am</td>
<td>Newer Techniques in Coagulation, Monitoring and Therapy</td>
<td>Ramona Nicolau-Raducu, MD, PhD</td>
</tr>
<tr>
<td>11:45 am - 12:15 pm</td>
<td>Goal Directed Hemodynamic Therapy</td>
<td>Michael Boisen, MD</td>
</tr>
<tr>
<td>12:15 pm - 12:30 pm</td>
<td>Questions &amp; Answers</td>
<td>Raymond M. Planinsic, MD, FASA</td>
</tr>
<tr>
<td>12:30 pm – 2:00 pm</td>
<td>Lunch and Exhibits</td>
<td></td>
</tr>
<tr>
<td>2:00 pm – 5:00 pm</td>
<td>Workshops: POCUS and Coagulation Monitoring</td>
<td>Drs. Subramaniam, Howard-Quijano, Planinsic, Boisen, Nicolau-Raducu</td>
</tr>
<tr>
<td>5:00 pm</td>
<td>Adjournement</td>
<td></td>
</tr>
</tbody>
</table>

#### THE ANESTHESIOLOGISTS ROLE IN OR MANAGEMENT

<table>
<thead>
<tr>
<th>TIME</th>
<th>TITLE</th>
<th>SPEAKER</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:45 am - 8:00 am</td>
<td>THE ANESTHESIOLOGISTS ROLE IN OR MANAGEMENT</td>
<td>Aman Mahajan, MD, PhD, MBA, Jacques E. Chelly, MD, PhD, MBA</td>
</tr>
<tr>
<td>7:45 am - 8:00 am</td>
<td>Registration, Continental Breakfast &amp; Exhibits</td>
<td>Aman Mahajan, MD, PhD, MBA, Jacques E. Chelly, MD, PhD, MBA</td>
</tr>
<tr>
<td>7:45 am - 8:00 am</td>
<td>Welcome and Opening Remarks</td>
<td>Aman Mahajan, MD, PhD, MBA, Jacques E. Chelly, MD, PhD, MBA</td>
</tr>
<tr>
<td>8:00 am - 8:45 am</td>
<td>The Role of Anesthesiologists in Perioperative Medicine</td>
<td>Bassam Kadry, MD</td>
</tr>
<tr>
<td>8:45 am - 9:30 am</td>
<td>Technology Solutions to Improve OR Management</td>
<td>Mark Hudson, MD, MBA</td>
</tr>
<tr>
<td>9:30 am - 10:00 am</td>
<td>Productivity Surveillance and Active Resource Management in Surgical Services</td>
<td>Mark Hudson, MD, MBA</td>
</tr>
<tr>
<td>10:00 am - 10:15 am</td>
<td>Coffee Break and Exhibits</td>
<td></td>
</tr>
<tr>
<td>10:15 am - 10:45 am</td>
<td>Opioid Free Surgery: Point of View from a Surgeon</td>
<td>Benjamin Davies, MD</td>
</tr>
<tr>
<td>10:45 am - 11:15 am</td>
<td>Opioid Free Surgery: Point of View from an Anesthesiologist</td>
<td>Jacques E. Chelly, MD, PhD, MBA</td>
</tr>
<tr>
<td>11:15 am - 11:45 am</td>
<td>Quadratus Lumborum Blocks</td>
<td>Sabry Ayad, MD</td>
</tr>
<tr>
<td>11:45 am - 12:15 pm</td>
<td>Fascial Blocks</td>
<td>Nicholas Schott, MD</td>
</tr>
<tr>
<td>12:15 pm - 12:45 pm</td>
<td>General Discussion</td>
<td>All Faculty</td>
</tr>
<tr>
<td>12:45 pm – 2:00 pm</td>
<td>Lunch and Exhibits</td>
<td></td>
</tr>
</tbody>
</table>

### Breakout Sessions A through D run concurrently
Saturday beginning at 2:00 pm
### Breakout Session A - PEDIATRIC REGIONAL ANESTHESIOLOGY

<table>
<thead>
<tr>
<th>TIME</th>
<th>TITLE</th>
<th>SPEAKER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00 pm - 2:15 pm</td>
<td>Introduction to Pediatric Regional Anesthesiology</td>
<td>Mihaela Visoiu, MD</td>
</tr>
<tr>
<td>2:15 pm - 3:00 pm</td>
<td>Challenges of Pediatric Ambulatory Regional Anesthesia</td>
<td>Alexander Praslick, MD</td>
</tr>
<tr>
<td>3:00 pm - 3:15 pm</td>
<td>Coffee Break and Exhibitors</td>
<td></td>
</tr>
<tr>
<td>3:15 pm - 4:15 pm</td>
<td>Postoperative Pediatric Pain Perception</td>
<td>Mihaela Visoiu, MD</td>
</tr>
<tr>
<td>4:15 pm - 5:00 pm</td>
<td>Tourniquets, Compartment Syndrome and Pediatric Nerve Blocks: What we know, and we don’t</td>
<td>Karen Boretsky, MD</td>
</tr>
<tr>
<td>5:00 pm - 5:30 pm</td>
<td>Question and Answer Session</td>
<td>Mihaela Visoiu, MD</td>
</tr>
<tr>
<td>5:30 pm</td>
<td>Adjournment</td>
<td></td>
</tr>
</tbody>
</table>

### Breakout Session B - UPDATES IN CHRONIC PAIN

<table>
<thead>
<tr>
<th>TIME</th>
<th>TITLE</th>
<th>SPEAKER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00 pm - 2:45 pm</td>
<td>Central Sensitization and Chronic Pain: Evaluation and Treatment of Fibromyalgia and Widespread Pain Disorders</td>
<td>Daniel Clauw, MD</td>
</tr>
<tr>
<td>2:45 pm - 3:30 pm</td>
<td>Medical Cannabis Update (Non MD CME)</td>
<td>Ajay Wasan, MD, MSc</td>
</tr>
<tr>
<td>3:30 pm - 3:45 pm</td>
<td>Coffee Break and Exhibitors</td>
<td></td>
</tr>
<tr>
<td>3:45 pm - 4:30 pm</td>
<td>Precision Medicine and Chronic Pain</td>
<td>Zong Fu Chen, MD</td>
</tr>
<tr>
<td>4:30 pm - 5:15 pm</td>
<td>Calcitonin Gene Related Peptide Blocking for Migraine.</td>
<td>Cheryl Bernstein, MD</td>
</tr>
<tr>
<td>5:15 pm - 5:30 pm</td>
<td>Question and Answer Session</td>
<td>Cheryl Bernstein, MD</td>
</tr>
<tr>
<td>5:30 pm</td>
<td>Adjournment</td>
<td></td>
</tr>
</tbody>
</table>

### Breakout Session C - OPERATING ROOM MANAGEMENT

<table>
<thead>
<tr>
<th>TIME</th>
<th>TITLE</th>
<th>SPEAKER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00 pm - 2:45 pm</td>
<td>Anesthesiology Crisis Response – Lessons Learned from the Tree of Life Synagogue Tragedy</td>
<td>Shawn Beaman, MD, FASA</td>
</tr>
<tr>
<td>2:45 pm - 3:30 pm</td>
<td>Systernwide Site Anesthesiology Management Across a Large Multihospital System</td>
<td>Joseph Quinlan, MD</td>
</tr>
<tr>
<td>3:30 pm - 3:45 pm</td>
<td>Coffee Break and Exhibitors</td>
<td></td>
</tr>
<tr>
<td>3:45 pm - 4:15 pm</td>
<td>Measuring Clinical Productivity</td>
<td>Mark Hudson, MD, MBA</td>
</tr>
<tr>
<td>4:15 pm - 4:45 pm</td>
<td>Factors Improving OR Provider Team Efficiency</td>
<td>Joseph Quinlan, MD</td>
</tr>
<tr>
<td>4:45 pm - 5:30 pm</td>
<td>Panel Discussion: Anesthesiology Practice Management</td>
<td>Shawn Beaman, MD, FASA, Mark Hudson, MD, MBA, Joseph Quinlan, MD</td>
</tr>
<tr>
<td>5:30 pm</td>
<td>Adjournment</td>
<td></td>
</tr>
</tbody>
</table>

### Breakout Session D - OBSTETRIC ANESTHESIA: ADVANCING COMPREHENSIVE PERINATAL CARE

<table>
<thead>
<tr>
<th>TIME</th>
<th>TITLE</th>
<th>SPEAKER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00 pm - 2:45 pm</td>
<td>Labor and Postpartum Analgesia: Current Practice, New Developments</td>
<td>Grace Lim, MD, MSc</td>
</tr>
<tr>
<td>2:45 pm - 3:30 pm</td>
<td>Lung and Cardiac Ultrasound in Obstetrics</td>
<td>Patricia Dalby, MD</td>
</tr>
<tr>
<td>3:30 pm - 3:45 pm</td>
<td>Coffee Break and Exhibitors</td>
<td></td>
</tr>
<tr>
<td>3:45 pm - 4:30 pm</td>
<td>Obstetric Anesthesia Critical Care</td>
<td>Jennifer Hofer, MD</td>
</tr>
<tr>
<td>4:30 pm - 5:15 pm</td>
<td>OB Anesthesia: Advancing Comprehensive Perinatal Care</td>
<td>Patricia Dalby, MD, Grace Lim, MD, MSc, Jennifer Hofer, MD</td>
</tr>
<tr>
<td>5:15 pm - 5:30 pm</td>
<td>Question and Answer Session</td>
<td>Grace Lim, MD, MSc</td>
</tr>
<tr>
<td>5:30 pm</td>
<td>Adjournment</td>
<td></td>
</tr>
</tbody>
</table>

**Breakout Sessions A through D run concurrently Saturday beginning at 2:00 pm**
**Registration Fee:**

Friday registration fee includes Friday admission to the program, breakfast, break, and lunch.

Saturday registration fee includes admission to the Saturday program, breakfast, breaks and lunch. For either day, those who are not registered, a fee of $30 will be charged for breakfast and $40 for lunch.

Conference registration is available online at [https://cccehs.upmc.com](https://cccehs.upmc.com) (Click on “Upcoming Events”). All cancellations must be in writing and sent to us via U.S. mail or email to Barb Novak Chismar, BA, Conference Manager, chisbm@upmc.edu or 3471 Fifth Avenue, Suite 402, Pittsburgh, PA 15213.

Tuition for cancellations postmarked or date stamped before April 1, 2019 will be refunded in full. After April 1, 2019, a $50.00 administrative fee will be assessed, the remaining amount refunded. Refunds will not be made after April 10, 2019.

<table>
<thead>
<tr>
<th>Category</th>
<th>Fee on or before April 1, 2019</th>
<th>Fee after April 1, 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPMC MD, DO, PhD Friday and Saturday</td>
<td>$275.00</td>
<td>$350.00</td>
</tr>
<tr>
<td>UPMC MD, DO, PhD Saturday</td>
<td>$200.00</td>
<td>$250.00</td>
</tr>
<tr>
<td>Non-UPMC MD, DO, PhD Friday and Saturday</td>
<td>$475.00</td>
<td>$550.00</td>
</tr>
<tr>
<td>Non-UPMC MD, DO, PhD Saturday</td>
<td>$400.00</td>
<td>$475.00</td>
</tr>
<tr>
<td>UPMC Residents/Fellows Friday and Saturday</td>
<td>$50.00</td>
<td>$100.00</td>
</tr>
<tr>
<td>UPMC Residents/Fellows Saturday</td>
<td>$0.00</td>
<td>$50.00</td>
</tr>
<tr>
<td>Non-UPMC Residents/Fellows Friday and Saturday</td>
<td>$125.00</td>
<td>$175.00</td>
</tr>
<tr>
<td>Non-UPMC Residents/Fellows Saturday</td>
<td>$100.00</td>
<td>$150.00</td>
</tr>
<tr>
<td>Nurses Friday and Saturday</td>
<td>$175.00</td>
<td>$200.00</td>
</tr>
<tr>
<td>Nurses Friday</td>
<td>$75.00</td>
<td>$100.00</td>
</tr>
<tr>
<td>SRNA Friday and Saturday</td>
<td>$50.00</td>
<td>$100.00</td>
</tr>
<tr>
<td>UPMC CRNAs Friday and Saturday</td>
<td>$200.00</td>
<td>$250.00</td>
</tr>
<tr>
<td>UPMC CRNAs Friday</td>
<td>$150.00</td>
<td>$200.00</td>
</tr>
<tr>
<td>UPMC CRNA Saturday</td>
<td>$150.00</td>
<td>$200.00</td>
</tr>
<tr>
<td>Non-UPMC CRNAs Friday and Saturday</td>
<td>$350.00</td>
<td>$375.00</td>
</tr>
<tr>
<td>Non-UPMC CRNA Friday</td>
<td>$300.00</td>
<td>$375.00</td>
</tr>
<tr>
<td>Non-UPMC CRNAs Saturday</td>
<td>$300.00</td>
<td>$375.00</td>
</tr>
</tbody>
</table>

**Lodging/Accommodations:**

The conference has contracted a limited number of hotel rooms at the Nemacolin Woodlands Resort. The discounted group rate of $189/$219 (Lodge or Townhouse/Chateau) per night plus applicable taxes and resort fees is available for conference attendees. Early registration is encouraged to assure group room rate. You may book a room by calling the resort at 1 (866) 344-6957. Ask for the UPMC Update in Anesthesia, Pain & Intensive Care Conference 2019 room block (Code 10C4QH) to receive the reduced rate. Please visit [http://www.nemacolin.com/](http://www.nemacolin.com/) for details regarding the resort amenities and activities.
CME Accreditation and Designation Statements:

The University of Pittsburgh School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The University of Pittsburgh School of Medicine designates this live activity for a maximum of 12.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Other health care professionals are awarded 1.2 continuing education units (CEU’s) which are equal to 12.2 contact hours.

- UPMC Provider Unit is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center’s Commission on Accreditation. The learner will be awarded 5.75 continuing education contact hour(s) for attending the program in its entirety and upon completion and submission of an evaluation form.

- This program has been prior approved by the American Association of Nurse Anesthetists for x.x Class A CE credits; Code Number ______; Expiration Date _______. Course ID: ________ Application in process.

Nondiscrimination, Equal Opportunity, and Affirmative Action:

The University of Pittsburgh is an affirmative action, equal opportunity institution.

Faculty Disclosure:

All individuals in a position to control the content of this educational activity are required to disclose all relevant financial relationships with any entity producing, marketing, re-selling, or distributing health care goods or services, used on, or consumed by, patients.

The Americans with Disabilities Act Information:

Participation by all individuals is encouraged. Advance notification of any special needs will help us provide better service. Please notify us of your needs at least two weeks in advance of the program by calling Barb Novak Chismar at 412-692-4505 or chisbn@upmc.edu.

Faculty List:

Aman Mahajan, MD, PhD, MBA
Peter & Eva Professor and Chair
UPMC Department of Anesthesiology & Perioperative Medicine
University of Pittsburgh School of Medicine
Professor of Anesthesiology, Bioinformatics, and Pharmacology
Professor of Bioengineering, Swanson School of Engineering
Director, UPMC Perioperative Services
University of Pittsburgh/UPMC Department of Anesthesiology and Perioperative Medicine

Jacques E. Chelly, MD, PhD, MBA
Course Director
Professor
University of Pittsburgh School of Medicine
Department of Anesthesiology and Perioperative Medicine
Department of Orthopedic Surgery
Director, Regional Anesthesiology & Acute Pain Medicine Fellowship
University of Pittsburgh/UPMC Department of Anesthesiology and Perioperative Medicine

Pittsburgh, PA
Cheryl Bernstein, MD  
Course Co-Director  
Associate Professor, Anesthesiology and Neurology  
University of Pittsburgh School of Medicine  
University of Pittsburgh/UPMC Department of Anesthesiology and Perioperative Medicine  
Department of Neurology  
Pittsburgh, PA

Mark E. Hudson, MD, MBA  
Course Co-Director  
Professor, Anesthesiology  
University of Pittsburgh School of Medicine  
Executive Vice-Chairman  
University of Pittsburgh/UPMC Department of Anesthesiology and Perioperative Medicine  
Pittsburgh, PA

Grace Lim, MD, MSc  
Course Co-Director  
Assistant Professor  
University of Pittsburgh School of Medicine  
Director, Obstetric Anesthesiology, Magee-Womens Hospital of UPMC  
University of Pittsburgh/UPMC Department of Anesthesiology and Perioperative Medicine  
Pittsburgh, PA

Raymond M. Planinsic, MD, FASA  
Course Co-Director  
Professor  
University of Pittsburgh School of Medicine  
Director, Transplantation Anesthesiology & Transplant Anesthesiology Fellowship Program UPMC Presbyterian  
University of Pittsburgh/UPMC Department of Anesthesiology and Perioperative Medicine  
Pittsburgh, PA

Kathirvel Subramaniam, MD, MPH, FASE  
Course Co-Director  
Associate Professor  
University of Pittsburgh School of Medicine  
University of Pittsburgh/UPMC Department of Anesthesiology and Perioperative Medicine  
Pittsburgh, PA

Mihaela Visoiu, MD  
Course Co-Director  
Assistant Professor  
University of Pittsburgh School of Medicine  
Department of Anesthesiology and Perioperative Medicine  
University of Pittsburgh/UPMC Department of Anesthesiology and Perioperative Medicine  
Pittsburgh, PA

Sabry Ayad, MD, MB ChB, MBA  
Professor, Anesthesiology  
Department of Anesthesiology and Pain Management  
Cleveland Clinic Lerner College of Medicine at Case Western Reserve University  
Cleveland, OH

Shawn T. Beaman, MD, FASA  
Associate Professor  
University of Pittsburgh School of Medicine  
Chief Anesthesiologist UPMC Presbyterian  
Director, Trauma Anesthesiology, UPMC Presbyterian  
University of Pittsburgh/UPMC Department of Anesthesiology and Perioperative Medicine  
Pittsburgh, PA

Michael Boisen, MD  
Assistant Professor  
University of Pittsburgh School of Medicine  
Associate Program Director, Adult Cardiothoracic Anesthesiology Fellowship Program  
University of Pittsburgh/UPMC Department of Anesthesiology and Perioperative Medicine  
Pittsburgh, PA

Karen R. Boretsky, MD  
Instructor in Anesthesia, Harvard Medical School  
Director, Perioperative Regional Anesthesia Service  
Department of Anesthesiology Perioperative and Pain Medicine  
Boston Children’s Hospital  
Boston, MA

Zong Fu Chen, MD  
Clinical Associate Professor  
Director, Pain Service UPMC East  
UPMC Department of Anesthesiology and Perioperative Medicine  
Monroeville, PA

Daniel J. Clauw, MD  
Professor, University of Michigan School of Medicine  
Departments of Anesthesiology, Medicine and Psychiatry  
Director of the Chronic Pain and Fatigue Research Center, University of Michigan  
Ann Arbor, MI

Patricia Dalby, MD  
Associate Professor  
University of Pittsburgh School of Medicine  
Director, Obstetric Anesthesiology Fellowship Program  
University of Pittsburgh/UPMC Department of Anesthesiology and Perioperative Medicine  
Pittsburgh, PA

Benjamin Davies, MD  
Associate Professor  
University of Pittsburgh School of Medicine  
Director of the Urologic Oncology, UPMC Shadyside  
University of Pittsburgh/UPMC Department of Urology  
Pittsburgh, PA

Ibtesam A. Hilmi, MB, CHB, FRCA  
Professor  
University of Pittsburgh/UPMC Department of Anesthesiology and Perioperative Medicine  
Pittsburgh, PA

Jennifer Hofer, MD  
Associate Professor  
University of Chicago School of Medicine  
Associate Program Director Obstetrical Anesthesiology Fellowship  
University of Chicago Department of Anesthesiology and Critical Care Medicine  
Chicago, IL
Kimberly Howard-Quijano, MD, MS
Associate Professor
University of Pittsburgh School of Medicine
Director of Translational Research
Director, Neurosurgical Anesthesiology
University of Pittsburgh/UPMC Department of Anesthesiology and Perioperative Medicine
Pittsburgh, PA

Bassam Kadry, MD
Clinical Associate Professor
Stanford University School of Medicine
Department of Anesthesiology, Perioperative and Pain Medicine
Stanford University
Stanford, CA

Ramona Nicolau-Raducu, MD, PhD
Associate Professor
University of Miami Miller School of Medicine
Department of Clinical Anesthesiology
Chief, Division of Solid Organ Transplant and Vascular Anesthesia
University of Miami Miller School of Medicine
Miami, FL

Alexander Praslick, MD
Clinical Assistant Professor
UPMC Department of Anesthesiology and Perioperative Medicine
Pittsburgh, PA

Joseph Quinlan, MD
Professor
University of Pittsburgh School of Medicine
Director, Operating Room Management, UPMC
University of Pittsburgh/UPMC Department of Anesthesiology and Perioperative Medicine
Pittsburgh, PA

Nicholas Schott, MD
Clinical Assistant Professor
Associate Fellowship Program Director, Regional Anesthesiology and Acute Pain Medicine
UPMC Department of Anesthesiology and Perioperative Medicine
Pittsburgh, PA

Christopher M. Sciortino, MD, MS, PhD, FACS
Assistant Professor
University of Pittsburgh School of Medicine
Surgical Director, UPMC Advanced Heart Failure Center
University of Pittsburgh/UPMC Department of Cardiothoracic Surgery
Pittsburgh, PA

Erin Sullivan, MD, FASA
Associate Professor
University of Pittsburgh School of Medicine
Director, Cardiothoracic Anesthesiology
Director, Adult Cardiothoracic Anesthesiology Fellowship
University of Pittsburgh/UPMC Department of Anesthesiology and Perioperative Medicine
Pittsburgh, PA

Ajay D. Wasan, MD, MSc
Professor
University of Pittsburgh School of Medicine

Vice Chair for Pain Medicine
Department of Anesthesiology and Perioperative Medicine
University of Pittsburgh/UPMC Department of Anesthesiology and Perioperative Medicine
Department of Psychiatry
Pittsburgh, PA

Ryan West, MS, CFI
Greenbriar Treatment Center
6200 Brooktree Road
Suite 210
Wexford, PA 15090

Conference Manager:
Barb Novak Chismar, BA
Education Office Project Manager
Department of Anesthesiology and Perioperative Medicine
University of Pittsburgh Medical Center
Pittsburgh, PA

Administrative Assistant:
Austin Rauso
Education Office Assistant
Department of Anesthesiology and Perioperative Medicine
University of Pittsburgh Medical Center
Pittsburgh, PA