The 22nd Annual
Pain Management Symposium

MARCH 21-25, 2020
Hyatt Regency Grand Cypress Hotel
Orlando, FL

REGISTER TODAY!  ccfcme.org/2020Pain
ABOUT THE PAIN MANAGEMENT SYMPOSIUM

Cleveland Clinic Department of Pain Management is pleased to offer The 22nd Annual Pain Management Symposium. We invite you to join us for spring break in Orlando, Florida, at the Hyatt Regency Grand Cypress during the week of March 21-25, 2020. This dynamic five-day Symposium focuses on in-depth reviews and analyses of recent advances in pain medicine and regional anesthesia/analgesia.

The practice of pain medicine is undergoing tremendous changes as a result of therapeutic advances, healthcare reform, and the downstream impact of the opioid crisis. This Symposium will promote a better understanding of the pathophysiology of acute and chronic pain, enhance knowledge regarding various chronic somatic and neuropathic pain conditions, and critically review novel state-of-the-art interventional and noninterventional techniques in diagnosis and management of chronic pain. A renowned faculty will provide insightful assessment and clinical practice evaluation of the topics. Each year our attendees look forward to the Saturday evening reception, which promises to be a fantastic social gathering for attendees and faculty.

In addition to the didactic program, attendees have opportunities to participate in a variety of educational activities. Each day begins with informal discussions with faculty during the continental breakfasts. Sunday through Tuesday there are optional early evening problem-based learning discussions and a special group of educational sessions specifically developed for ARNPs and PAs working in pain practices.

Optional afternoon cadaver workshops on various novel interventional pain management techniques and live ultrasound-guided workshops covering upper and lower extremity blocks, truncal procedures and relevant pain procedures will be offered to practicing physicians and pain medicine fellows in training.

WHO SHOULD ATTEND

Practitioners and healthcare professionals who seek to learn the latest developments in pain medicine, including anesthesia providers, interventional pain specialists, physical medicine and rehabilitation specialists, orthopedic and spine surgeons, neurologists, neurosurgeons, headache specialists, palliative care specialists, primary care physicians, physical therapists, physician assistants, nurse practitioners and residents and fellows in training interested in the practice of pain management.

BY ATTENDING, YOU WILL BE ABLE TO:

• Review current evidence from research and clinical trials and describe their application to pain management practices.
• Analyze the role of opioid analgesics in the treatment of acute and chronic pain in the face of the national opioid epidemic.
• Examine the expanding full-spectrum options to the evaluation and treatment of chronic shoulder, knee, and hip pain.
• Summarize the efficacy of comprehensive approaches to treating chronic low back pain.
• Develop strategies to provide affordable pain care that addresses the regulatory, billing, and ethical challenges in pain practice.
• Review new developments within the spectrum of neuromodulation therapies and describe their best use in clinical practice.
• Critically assess the efficacy and safety data on cannabis and cannabinoids and how it affects their use in chronic pain treatment.
• Review the efficacy and adverse effects of emerging therapies for pain and describe their potential use in clinical practice.
SYMPOSIUM DIRECTOR
Richard W. Rosenquist, MD
Chairman
Department of Pain Management
Anesthesiology Institute
Cleveland Clinic
Cleveland, OH

CLEVELAND CLINIC PLANNING COMMITTEE
Robert Bolash, MD
Department of Pain Management
Shrif Costandi, MD
Coordinator, Symposium Cadaver Workshops
Department of Pain Management
Sree Kolli, MD
Coordinator, Symposium Ultrasound Workshops
Department of General Anesthesiology
Deb McChrystal, OTR
Department of Pain Management
Leslie Tolman, RN, BSN
Department of Pain Management

GUEST FACULTY
Hance Clarke, MD, PhD
Toronto General Hospital
Toronto, Ontario, Canada
Timothy R. Deer, MD
The Spine & Nerve Centers
Charleston, WV
Damean Freas, DO
KureSmart Pain LLC
Annapolis, MD
Maxim Eckmann, MD
UT Health San Antonio
San Antonio, TX
Marc A. Huntoon, MD
VCU Health
Henrico, VA
Leonardo Kapural, MD, PhD
Carolina's Pain Institute and Center for Clinical Research
Winston Salem, NC
Lee A. Kral, PharmD, BCPS
University of Iowa Hospitals & Clinics
Iowa City, IA
Timothy R. Lubenow, MD
Rush University Medical Center
Chicago, IL
Sharon Merrick, MS, CCS-P
American Society of Anesthesiologists
Schaumburg, IL
Samer Narouze, MD, PhD
Western Reserve Hospital
Cuyahoga Falls, OH
B. Todd Sitzman, MD, MPH
Advanced Pain Therapy
Hattiesburg, MS
Ricardo Vallejo, MD, PhD
Millennium Pain Center
Bloomington, IL

CLEVELAND CLINIC FACULTY
Benjamin Abraham, MD
Department of Pain Management
Hersimren Basi, MD
Department of Pain Management
Crawford Barnett, MD
Department of Pain Management
Sara Davin, PsyD, MPH
Center for Behavioral Health
Nagy Mekhail, MD, PhD
Department of Pain Management
Scott Petersen, PA-C
Department of Pain Management
Jonathan Schaffer, MD, MBA
Department of Orthopaedic Surgery
Philip Toal, PT, DPT
Department of Rehabilitation & Sports Therapy
SATURDAY, MARCH 21, 2020

7:00 am Registration/Continental Breakfast/Visit Exhibits
Informal Discussion with Faculty

7:50 am Welcome and Introduction
Richard W. Rosenquist, MD

The Fundamentals
Moderator: Richard W. Rosenquist, MD

8:00 am Evaluating the Headache Patient
Samer Narouze, MD, PhD

8:30 am Spinal Cord Stimulation Mechanism of Action: Changing Concepts
Ricardo Vallejo, MD, PhD

9:00 am Anatomic Basis for Treating Joint Pain
Maxim Eckmann, MD

9:30 am Changing Paradigms for Acute Pain Management
Richard Rosenquist, MD

10:00 am Refreshment Break/Visit Exhibits

10:30 am Complex Regional Pain Syndrome: Essentials of our Current Understanding
Robert Bolash, MD

11:00 am Painful Traumatic Peripheral Nerve Injuries: Evaluation and Treatment Planning
Marc A. Huntoon, MD

11:30 am Incorporating Interventional Treatments for Headache
Samer Narouze, MD, PhD

12:00 pm Panel Discussion/Question and Answer Period

12:30 pm Adjourn

SUNDAY, MARCH 22, 2020

7:30 am Continental Breakfast/Visit Exhibits
Informal Discussion with Faculty

Regulatory, Billing and Ethical Challenges in Pain Practice
Moderator: Robert Bolash, MD

8:00 am State Medical Boards and Opioid Prescribing
Damean Freas, DO

8:40 am 2020 Medicare Billing Changes: Impact on Practice
Sharon Merrick, MS, CCS-P

9:00 am Legal Implications of Telemedicine
Jonathan Schaffer, MD, MBA

9:20 am Solutions to Problematic Billing and Coding Situations
Sharon Merrick, MS, CCS-P

9:40 am Conflict of Interest and Professional Organizations
B. Todd Sitzman, MD, MPH

10:00 am Refreshment Break/Visit Exhibits

Emerging Pharmacological and Interventional Treatment

10:30 am TDD versus SCS: Conventional Wisdom versus Science
Nagy Mekhail, MD, PhD

10:45 am Basivertebral Nerve Ablation
Shrif Costandi, MD

11:00 am Shoulder RFA
Maxim Eckmann, MD

11:15 am Interspinous Spacers for Spinal Stenosis
Timothy R. Deer, MD

11:30 am Nerve Growth Factor Inhibitors: A New Pharmacotherapeutic Class for Chronic Low Back Pain
Robert Bolash, MD

11:45 am What is the Role of Evoked Compound Action Potential (ECAP) Monitoring in Neuromodulation Outcomes?
Nagy Mekhail, MD, PhD

12:00 pm Panel Discussion/Question and Answer Period

12:30 pm Adjourn

MONDAY, MARCH 23, 2020

7:30 am Continental Breakfast/Visit Exhibits
Informal Discussion with Faculty

Neuromodulation: Effective Utilization of Targets, Techniques and Devices
Moderator: Benjamin Abraham, MD

8:00 am What Are the Unmet Needs in Neuromodulation in 2020?
B. Todd Sitzman, MD, MPH

8:30 am Tonic Stimulation
Ricardo Vallejo, MD, PhD

8:45 am Peripheral Nerve Stimulation
Marc A. Huntoon, MD

9:00 am Burst Stimulation
Timothy R. Deer, MD

9:15 am High Frequency Stimulation
Leonardo Kapural, MD, PhD

9:30 am Feedback Modified Stimulation
Shrif Costandi, MD

9:45 am Do Multiple Waveforms Diminish SCS Tolerance?
B. Todd Sitzman, MD, MPH

10:00 am Intrathecal Drug Delivery
Robert Bolash, MD

10:15 am DRG Stimulation
Timothy R. Lubenow, MD

10:30 am Refreshment Break/Visit Exhibits

6:00 – 7:00 pm Problem-based Learning Discussions

A. Medical Marijuana: The Canadian Experience
Hance Clarke, MD, PhD

B. Telemedicine: Perils, Pitfalls and Opportunity
Jonathan Schaffer, MD, MBA

C. Optimizing SCS Success
B. Todd Sitzman, MD, MPH
MONDAY, MARCH 23, 2020 (CONT.)

Neuromodulation – Changing Paradigms and Devices: How Do I Choose the Best One For My Patient?

11:00 am Matching the Diagnosis and the Technique/Device for the Best Patient Outcome – A Case Discussion with the Experts
Moderator: Robert Bolash, MD
Panelists: Timothy R. Deer, MD
Maxim Eckmann, MD
Marc A. Huntoon, MD
Leonardo Kapural, MD, PhD
Timothy R. Lubenow, MD
B. Todd Sitzman, MD, MPH
Ricardo Vallejo, MD, PhD

12:00 pm Panel Discussion/Question and Answer Period

12:30 pm Adjourn

PA/ARNP Session

2:00 pm Effective Use of Physical Therapy in the Management of Chronic Pain
Philip Toal, PT, DPT

2:30 pm Pain Care in the Elderly
Scott Petersen, PA-C

3:00 pm Drug/Drug Interactions: Best Practices for Avoiding Complications
Lee A. Kral, PharmD, BCPS

3:30 pm Psychological Evaluation of the Pain Patient
Sara Davin, PsyD, MPH

4:00 pm Adjourn

5:00 – 7:00 pm Problem-based Learning Discussions

D. Opioid Prescribing: A View from the Board of Medicine
Damean Freas, DO

E. Evaluation and Treatment of the Chronic Abdominal Pain Patient
Leonardo Kapural, MD, PhD

F. Contemporary Treatment of CRPS
Timothy R. Lubenow, MD

TUESDAY, MARCH 24, 2020

7:30 am Continental Breakfast/Visit Exhibits
Informal Discussion with Faculty

Moderator: Crawford Barnett, MD

8:00 am Opioid Stewardship at the Provincial Level
Hance Clarke, MD, PhD

8:20 am Perioperative Pain Management for Major Orthopaedic Surgical Procedures: A Surgeon’s Perspective
Jonathan Schaffer, MD, MBA

8:40 am Is There Still a Role for Opioids in the Management of Chronic Pain?
Lee A. Kral, PharmD, BCPS

9:00 am Misapplication of Guidelines in Addressing the Opioid Crisis?
Crawford Barnett, MD

9:20 am What is the Role of the Transitional Pain Service?
Hance Clarke, MD, PhD

9:40 am Safely Tapering Opioids: Is There a Recipe or Best Practice?
Lee A. Kral, PharmD, BCPS

10:00 am Refreshment Break/Visit Exhibits

10:30 am Beyond Interventions: Comprehensive Approaches to Chronic Pain Treatment
Sara Davin, PsyD, MPH

10:45 am Interventional Therapies for Low Back Pain
Hersimren Basi, MD

11:00 am Medical Management of Chronic Back Pain
Benjamin Abraham, MD

11:15 am Long-term Management after Failed Surgical Outcomes
Timothy R. Lubenow, MD

11:30 am Back on TREK
Sara Davin, PsyD, MPH

11:45 am Physical Therapy for Low Back Pain: Optimizing Treatment Recommendations for Long-Term Success
Philip Toal, PT, DPT

12:00 pm Panel Discussion/Question and Answer Period

12:30 pm Adjourn

PA/ARNP Session

2:00 pm Evaluating the Joint Pain Patient
Philip Toal, PT, DPT

2:30 pm Transitioning Inpatient Consults to Effective Outpatient Care
Scott Petersen, PA-C

3:00 pm Approaching Difficult Conversations
Sara Davin, PsyD, MPH

3:30 pm Shared Medical Appointments
Robert Bolash, MD

4:00 pm Adjourn

6:00 – 7:00 pm Problem-based Learning Discussions

G. Peripheral Nerve Stimulation: New Options for Treating Pain
Marc A. Huntoon, MD

H. Effective Opioid Tapering Strategies
Lee A. Kral, PharmD, BCPS

I. Comprehensive Treatment Programs for Low Back Pain
Sara Davin, PsyD, MPH
**WEDNESDAY, MARCH 25, 2020**

7:30 am continental breakfast

**Medical Marijuana**
Moderator: Hersimren Basi, MD

8:00 am Role of Cannabinoids in Chronic Pain Treatment
Hance Clarke, MD, PhD

8:45 am Adverse Effects of Cannabinoids
Scott Petersen, PA-C

9:05 am Legal Implications of Cannabis and Cannabinoids in Pain Medicine
Richard W. Rosenquist, MD

9:30 am Refreshment Break

**Musculoskeletal Pain Management: Expanding Options for Full Spectrum Treatment**

10:00 am Interventional Approaches to Managing Chronic Musculoskeletal Joint Pain
Maxim Eckmann, MD

10:30 am Physical Therapy for Joint Pain: Formal and Home Based Treatments
Philip Toal, PT, DPT

11:00 am NGF-Inhibitors for Hip, Knee and Shoulder Osteoarthritis
Robert Bolash, MD

11:30 am Persistent Pain after Joint Replacement: Evaluation and Treatment Options
Jonathan Schaffer, MD, MBA

12:00 pm Panel Discussion/Question and Answer Period

12:30 pm Adjourn

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**SATURDAY, MARCH 21, 2020**

Optional Ultrasound Guided Workshop for Physicians - Live Model 2:00 – 5:00 pm | Fee: $500

Only available for physician symposium registrants. Space is limited, so early online registration is recommended. Attendees will rotate to each station.

**How to Improve Your Ultrasound Technique, Anatomy of Truncal, Lower Extremity and Headache Blocks, with five Hands-on Stations:**

1) Trunk Blocks (TAP, iliohypogastric, ilioinguinal, Genitofemoral, Intercostal and Erector Spinae)
2) Lower Extremity Nerve Blocks (Femoral, Obturator, LFCN and Adductor/Saphenous)
3) Lower Extremity Joint Injections [Hip, Knee, PENG (Pericapsular Nerve Group) Block]
4) Ankle Injections (Posterior tibial, Superficial Peroneal, Deep Peroneal, Plantar Fascia)
5) Headache Blocks (Occipital nerve blocks, Trigeminal nerve, Cervical facet blocks)

Faculty: Robert Bolash, MD; Maxim Eckmann, MD; Marc A. Huntoon, MD; Sree Kolli, MD; and Samer Narouze, MD, PhD

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**SATURDAY, MARCH 21, 2020**

Optional Cadaver Workshops for Physicians 1:30 – 5:30 pm | Fee: $700 per Workshop

Only available for physician symposium registrants. Space is limited, so early online registration is recommended. Bus transportation departs at 12:30 pm, and a boxed lunch is included. Attendees will rotate to each station.

**In addition to lectures and scanning on live models, this ultrasound workshop will include a combined session in the cadaver lab. This workshop will provide learners with the opportunity to have hands on experience performing ultrasound guided blocks in cadavers and scanning dynamic anatomy in live models. Anatomy of Head and Neck, Upper Extremity, Anatomy of Shoulder Joint, and Four Hands-on Stations:**

1) Stellate Ganglion Block, Cervical Nerve Root, Brachial Plexus Block
2) Shoulder Joint, Suprascapular Nerve Block
3) Upper Extremity Peripheral Nerves/Elbow Injection, Median Nerve at Carpal Tunnel
4) Pudendal Nerve Block, Caudal, Pinformis, SI Joint Injections

Faculty: Hersimren Basi, MD; Maxim Eckmann, MD; Marc A. Huntoon, MD; Sree Kolli, MD; and Samer Narouze, MD, PhD

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**SUNDAY, MARCH 22, 2020**

Optional Ultrasound Guided Workshop for Physicians – Live Model and Cadaver 1:30 – 5:00 pm | Fee: $650

Only available for physician symposium registrants. Space is limited, so early online registration is recommended. Bus transportation departs at 12:30 pm, and a boxed lunch is included. Attendees will rotate to each station.

**In addition to lectures and scanning on live models, this ultrasound workshop will include a combined session in the cadaver lab. This workshop will provide learners with the opportunity to have hands on experience performing ultrasound guided blocks in cadavers and scanning dynamic anatomy in live models. Anatomy of Head and Neck, Upper Extremity, Anatomy of Shoulder Joint, and Four Hands-on Stations:**

1) Sympathetic Chain Blocks (Thoracic Paravertebral, LSB) - Crawford Barnett, MD
2) Trigeminal Nerve Blocks and Sphenopalatine Blocks - Benjamin Abraham, MD
3) Intracapsular Procedures (Discography) - Shrif Costandi, MD
4) Intra-abdominal Blocks (Celiac, Splanchnic, Superior Hypogastric Plexus) - Leonardo Kapural, MD, PhD

Faculty: Hersimren Basi, MD; Maxim Eckmann, MD; Marc A. Huntoon, MD; Sree Kolli, MD; and Samer Narouze, MD, PhD

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**Optional Cadaver Workshops for Physicians**

1:30 – 5:30 pm | Fee: $700 per Workshop

Only available for physician symposium registrants. Space is limited, so early online registration is recommended. Bus transportation departs at 12:30 pm, and a boxed lunch is included. Attendees will rotate to each station.

**Saturday, March 21, 2020**

Station 1 – Genicular and Hip RFA - Shrif Costandi, MD
Station 2 – Cervical Facet Medial Branch RFA - Hersimren Basi, MD
Station 3 – Pelvic Pain Techniques (Pudendal Nerve RFA, Ganglion Impar) - Benjamin Abraham, MD
Station 4 – Lumbar Facet Medial Branch RFA and Facet Joint Injection - Crawford Barnett, MD

**Monday, March 23, 2020**

Station 1 – Sympathetic Chain Blocks (Thoracic Paravertebral, LSB) - Crawford Barnett, MD
Station 2 – Trigeminal Nerve Blocks and Sphenopalatine Blocks - Benjamin Abraham, MD
Station 3 – Intradiscal Procedures (Discography) - Shrif Costandi, MD
Station 4 – Intra-abdominal Blocks (Celiac, Splanchnic, Superior Hypogastric Plexus) - Leonardo Kapural, MD, PhD

**Tuesday, March 24, 2020 – Advanced Session**

Station 1 – Dorsal Column SCS Lead Placement - Ricardo Vallejo, MD, PhD
Station 2 – Headache Pain Blocks – (Atlanto-Axial Joint, Third Occipital RFA) - Hersimren Basi, MD
Station 3 – Sacral Lateral Branch Cooled and Bipolar RFA for Sacroiliac Pain - Benjamin Abraham, MD
Station 4 – Vertebroplasty and Kyphoplasty for Compression Fractures - Shrif Costandi, MD

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**Special Workshop Discounts**

Register for multiple workshop sessions and save!

- Register for two workshops, save $100
- Register for three workshops, save $150
- Register for four workshops, save $200

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**WEDNESDAY, MARCH 25, 2020**

7:30 am Continental Breakfast

Informal Discussion with Faculty

**Medical Marijuana**
Moderator: Hersimren Basi, MD

8:00 am Role of Cannabinoids in Chronic Pain Treatment
Hance Clarke, MD, PhD

8:45 am Adverse Effects of Cannabinoids
Scott Petersen, PA-C

9:05 am Legal Implications of Cannabis and Cannabinoids in Pain Medicine
Richard W. Rosenquist, MD

9:30 am Refreshment Break

**Musculoskeletal Pain Management: Expanding Options for Full Spectrum Treatment**

10:00 am Interventional Approaches to Managing Chronic Musculoskeletal Joint Pain
Maxim Eckmann, MD

10:30 am Physical Therapy for Joint Pain: Formal and Home Based Treatments
Philip Toal, PT, DPT

11:00 am NGF-Inhibitors for Hip, Knee and Shoulder Osteoarthritis
Robert Bolash, MD

11:30 am Persistent Pain after Joint Replacement: Evaluation and Treatment Options
Jonathan Schaffer, MD, MBA

12:00 pm Panel Discussion/Question and Answer Period

12:30 pm Adjourn
**GENERAL INFORMATION**

**Location**
Hyatt Regency Grand Cypress  
One Grand Cypress Blvd.  
Orlando, FL 32836  
Telephone: (407) 239-1234

**Hotel Accommodations**
A limited block of rooms has been reserved at the Hyatt Regency Grand Cypress until **Thursday, February 27, 2020**. For reservations, visit [www.ccfcme.org/PainHotel](http://www.ccfcme.org/PainHotel), or call the hotel Reservation Department at (407) 239-1234. Identify yourself as an attendee of the **Cleveland Clinic Pain Management 2020** for special rates of $269 single/double, plus taxes and applicable fees. The $30 Hotel Fee is waived for guests reserving under our block.

**Parking**
Self-parking: $10/day  
Valet for overnight guests: $31/day  
Rates subject to taxes and may change without notice; includes in & out privileges.

**Information**
For further information about this activity, faculty disclosure, and American Disability Act, visit the Cleveland Clinic Center for Continuing Education website: ccfcme.org/2020pain

**Orlando Activities & Events**
[www.visitorlando.com/about-us](http://www.visitorlando.com/about-us)

**Accreditation**
The Cleveland Clinic Foundation Center for Continuing Education is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. The Cleveland Clinic Foundation Center for Continuing Education designates:
- Pain Management Symposium live activity for a maximum of 23.25 AMA PRA Category 1 Credits™.
- PA/ARNP Session live activity for a maximum of 2 AMA PRA Category 1 Credits™ per session.
- Optional Cadaver Workshop live activity for a maximum of 4 AMA PRA Category 1 Credits™ per workshop.
- Optional Live Ultrasound Guided Workshop live activity for a maximum of 3 AMA PRA Category 1 Credits™.
- Optional Live Ultrasound/Cadaver Workshop live activity for a maximum of 3.5 AMA PRA Category 1 Credits™.

Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Participants claiming CME credit from this activity may submit the credit hours to the American Osteopathic Association for Category 2 credit.

**Other Health Care Professionals**
A certificate of attendance will be provided to other health care professionals for requesting credits in accordance with state nursing boards, specialty societies, or other professional associations.

**Study References**
Included with your full registration is access to the faculty presentations online in PDF format on a password protected website. You will have access prior to the activity to allow you to download or print the slides. The website will be updated after the activity with faculty final presentations.

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**REGISTER ONLINE AT** [ccfcme.org/2020Pain](http://ccfcme.org/2020Pain)

**Fee includes:** continental breakfasts, refreshment breaks, faculty PowerPoint presentations available online in PDF format pre and post activity.

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*Letter from program director is required to receive the discounted fee. If letter is not received two weeks prior to the activity, the full physician fee will be charged.

**Special Workshop Discounts**
Register for multiple workshop sessions and save!
- Register for two workshops, save $100  
- Register for three workshops, save $150  
- Register for four workshops, save $200

**Group Discount Available**
Groups of 3 or more from the same office/institution will receive a 10% discount off the full registration fee. Registrants must call **216.448.8710** to receive a promotional code for special pricing.

**Registration and Cancellation**
Preregistrations are accepted until 2:00 pm ET, March 12, 2020. Register on site after this date.

In case of cancellation, email notification is required to process your refund. A full refund will be issued if canceled by February 15, 2020. After February 15, 2020, a $300 cancellation fee will be deducted from your refund. No refunds will be issued after February 25, 2020.

For questions about registration or cancellation, email us at cmeregistration@ccf.org or call **216.448.8710**.

The Cleveland Clinic Center for Continuing Education reserves the right to cancel or postpone an activity at our sole discretion. In the unlikely event that this occurs, any registration fee(s) paid will be refunded. Be advised that Cleveland Clinic is not responsible for related costs including airline tickets, hotel costs, or any similar fee penalties incurred as a result of any trip cancellations or changes.
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Orlando

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