

# The 20th Annual Pain Management Symposium

**FEBRUARY 10 – 14, 2018**

Hyatt Regency Grand Cypress Hotel | Orlando, FL



**REGISTER TODAY! [ccfcme.org/2018Pain](http://ccfcme.org/2018Pain)**

## ABOUT THE PAIN MANAGEMENT SYMPOSIUM

Cleveland Clinic Department of Pain Management is pleased to offer *The 20th Annual Pain Management Symposium*. We invite you to join us in the beautiful setting of The Hyatt Regency Grand Cypress Hotel in Orlando, FL, during the week of February 10-14, 2018. This dynamic 5-day Symposium will focus 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 and healthcare reform. This Symposium will promote a better understanding of the pathophysiology of acute and chronic pain, examine the current opioid crisis, enhance knowledge regarding various chronic neuropathic pain conditions, explore the impact of healthcare reform on pain medicine practice and critically review novel state-of-the-art interventional and non-interventional techniques in diagnosis and management of chronic pain, cancer pain, back pain, pharmacology and pain in the elderly. An internationally 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 and a new program that will provide experience with Reiki and meditation using guided imagery. On Sunday through Tuesday, there are early evening problem-based learning discussions. A special group of educational sessions specifically developed for ARNPs and PAs working in pain practices will take place for the second time during this year's meeting.

Exclusive for practicing physicians and pain medicine fellows in training are unique workshops, offered multiple times throughout the week. They include optional afternoon cadaver workshops on various novel interventional pain management techniques. On Saturday and Sunday we offer live ultrasound-guided workshops covering upper and lower extremity blocks, truncal procedures and relevant pain procedures.

## WHO SHOULD ATTEND

Practitioners and health care professionals who seek to learn the latest developments in pain medicine, including anesthesia providers, interventional pain specialists, physical medicine and rehabilitation specialists, orthopaedic 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 who are interested in the practice of pain management will benefit from this program.

## BY ATTENDING, YOU WILL BE ABLE TO:

- Describe the issues surrounding the opioid crisis and the use of opioids for pain management including opioid guidelines, new legislation, addiction potential, and strategies to optimize outcomes.
- Discuss opioid addiction, medication-assisted addiction treatment, and how to recognize addiction in the chronic pain patient.
- Analyze the unique challenges of caring for elderly patients with pain and the potential role of pharmacogenomics.
- Describe new governmental quality and payment programs.
- Develop appropriate strategies to address the economic impact of healthcare reform and that will succeed in a changing healthcare environment.
- Identify rational selection and application of criteria for neuromodulation therapies to optimize patient outcome.
- Summarize rational use of imaging studies to help diagnosis and treat chronic pain.
- Describe the emerging treatments for pain and describe their potential clinical use, including deep brain stimulation, robotic spine surgery, stem cells, neuromodulation, and focused muscle stimulation.
- Describe contemporary approaches to the evaluation and treatment of low back pain.
- Analyze the relationship between pain and the brain, and describe its impact in developing successful treatment programs.

## SPECIAL ACTIVITIES



**Start your day with a walk around the Hyatt grounds with Deb and Leslie**  
Rain or Shine. Meet in the Lobby at 6 am.  
Walk until 6:45 am. Bottled Water provided.



**Symposium Registrants!**  
Try your luck with a Hole-in-One  
Saturday, February 10th from 2pm-4pm.  
One Shot-Closest to hole wins prize.  
Prize to be awarded at the Saturday BBQ Party.

**SYMPOSIUM DIRECTOR**

**Richard 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

**Loran Mounir-Soliman, MD**  
Coordinator, Symposium Ultrasound Workshops  
Departments of Pain Management and  
General Anesthesiology

**Deb McChrystal, OTR**  
Department of Pain Management

**Rev Josanne Pagel, MDiv, MPAS, PA-C**  
Clinical Affairs/Physician Assistant Services

**Leslie Tolman, RN, BSN**  
Department of Pain Management

**GUEST FACULTY**

**Chad Brummett, MD**  
Michigan Medicine  
Ann Arbor, MI

**Asokumar Buvanendran, MD**  
Rush University Medical Center  
Chicago, IL

**Timothy R. Deer, MD**  
Center for Pain Relief  
Charleston, WV

**Damean Freas, DO**  
Kure Pain, LLC  
Annapolis, MD

**Anita Gupta, DO, PharmD**  
Woodrow Wilson School  
Princeton University  
Princeton, NJ

**Maged Guirguis, MD**  
Ochsner Clinic  
New Orleans, LA

**Salim Hayek, MD, PhD**  
University Hospitals  
Cleveland, OH

**Timothy Maus, MD**  
Mayo Clinic  
Rochester, MN

**David Provenzano, MD**  
Pain Diagnostics and Interventional Care  
Pittsburgh, PA

**James P. Rathmell, MD**  
Brigham and Women’s Hospital  
Boston, MA

**Ricardo Vallejo, MD, PhD**  
Millennium Pain Center  
Bloomington, IL

**Jan Van Zundert, MD**  
Ziekenhuig Oost-Limburg  
Genk, Belgium

**Linda Watkins, PhD**  
University of Colorado Boulder  
Boulder, CO

**CLEVELAND CLINIC FACULTY**

**Elizabeth Casserly, PharmD, RPh**  
Pharmacy

**Jianguo Cheng, MD, PhD**  
Department of Pain Management

**Sara Davin, PsyD, MPH**  
Center for Neuro-Restoration

**Andre Machado, MD, PhD**  
Chairman, Neurological Institute

**Nagy Mekhail, MD, PhD**  
Department of Pain Management

**Scott Petersen, PA-C**  
Department of Pain Management

**Samuel Samuel, MD**  
Department of Pain Management

**Michael Steinmetz, MD**  
Chairman, Department of Neurological Surgery

**David Streem, MD**  
Center for Behavioral Health

**START YOUR DAY OFF RIGHT**

**6:30 – 7:30 am**

**Special Approaches**

*Rev Josanne Pagel, MDiv, MPAS, PA-C*  
(non CME)

Sign up at Registration

**Sunday and Tuesday**

**Experience Reiki as a Relaxation Technique**  
15 minute sessions. Reiki is a Universal Life force which surrounds all of us. Take 15 minutes to experience the calmness and relaxation a Reiki treatment can bring to you and consider how it can be used by your patients as an alternate pain controlling modality.

**Monday and Wednesday**

**Simple Meditation Techniques (Guided Imagery)**  
(Applications for clinical practice) Meditation has long been used in many cultures to “calm the mind”, promote health and wellness, and in some cases, assist with the treatment of certain conditions. Experience a guided imagery session so that you can relate to your patients the use of meditation in their treatment and care plan.

SATURDAY, FEBRUARY 10, 2018

- 7:00 am Registration, Continental Breakfast, and Visit Exhibits  
Informal Discussion with Faculty
- 7:50 am Welcome and Introduction  
Richard Rosenquist, MD

The Fundamentals

Moderator: Robert Bolash, MD

- 8:00 am Clinical Implications of Glial Dysregulation of Pain and Opioid Actions: Moving From Concept to Clinical Trials!  
Linda Watkins, PhD
- 9:00 am Rational Use of Spine Imaging  
Timothy Maus, MD
- 9:30 am Drug-Drug Interactions in Pain Medicine Practice  
Anita Gupta, DO, PharmD
- 10:00 am Refreshment Break and Visit Exhibits

- 10:30 am Anticoagulation and Interventional Pain Procedures: An Update  
Asokumar Buvanendran, MD
- 11:00 am Effective Use of the Medical Literature to Guide Clinical Practice  
James P. Rathmell, MD
- 11:30 am The Sacroiliac Joint: Structure, Function, Imaging, Diagnosis and Intervention  
Timothy Maus, MD
- 12:00 pm Panel Discussion/Question and Answer Period
- 12:30 pm Adjourn

6:30 – 8:30 pm  
Join us in celebrating our 20th Anniversary!  
Outside BBQ Party

SUNDAY, FEBRUARY 11, 2018

- 7:30 am Registration, Continental Breakfast, and Visit Exhibits  
Informal Discussion with Faculty

Low Back Pain

Moderator: Samuel Samuel, MD

- 8:00 am Imaging Findings in Lumbar Radicular Pain  
Timothy Maus, MD
- 8:40 am European Guidelines on Low Back Pain  
Jan Van Zundert, MD
- 9:00 am Surgical Treatment of Low Back Pain  
Michael Steinmetz, MD
- 9:20 am Back on TREK: Interdisciplinary Functional Restoration to Decrease Risk for Chronification of Low Back Pain  
Sara Davin, PsyD, MPH
- 9:40 am What is the Role of Spinal Fusion?  
Michael Steinmetz, MD
- 10:00 am Refreshment Break and Visit Exhibits

Emerging Treatments

- 10:30 am Robotic Spine Surgery  
Michael Steinmetz, MD
- 10:45 am Stem Cells in Pain Medicine: Mechanisms, Evidence and Application  
Jianguo Cheng, MD, PhD

- 11:00 am Deep Brain Stimulation for Stroke Recovery, Depression and Pain  
Andre Machado, MD, PhD
- 11:15 am Multifidus Muscle Activation to Treat Low Back Pain  
James P. Rathmell, MD
- 11:30 am New Sacral Nerve Stimulation Methods  
Timothy R. Deer, MD
- 11:45 am Closed Loop Neuromodulation  
Nagy Mekhail, MD, PhD
- 12:00 pm Panel Discussion/Question and Answer Period
- 12:30 pm Adjourn

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

- A. To Stop or Not, That is the Question: Acute Pain Management for the Patient on Chronic Buprenorphine  
Chad Brummett, MD
- B. Recognizing Addiction and Fostering Treatment in the Chronic Pain Patient  
David Stroom, MD
- C. Managing the “Agressive” Patient  
Sara Davin, PsyD, MPH and Rev Josanne Pagel, MDiv, MPAS, PA-C

MONDAY, FEBRUARY 12, 2018

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

The Opioid Crisis

Moderator: Richard Rosenquist, MD

- 8:00 am How Did We Get Here and Can We Get Out of This Mess?  
Anita Gupta, DO, PharmD
- 8:20 am Opioids and the State Medical Board  
Damean Freas, DO
- 8:40 am Opioid Addiction  
David Stroom, MD

- 9:00 am The Role of Acute Care Prescribing in the Opioid Epidemic  
Chad Brummett, MD
- 9:30 am Is There a Role for Chronic Opioids?  
James P. Rathmell, MD
- 9:50 am Medication Assisted Addiction Treatment  
David Stroom, MD
- 10:10 am Refreshment Break and Visit Exhibits





MONDAY, FEBRUARY 12, 2018 (CONT.)

The Economics of Pain Medication

- 10:40 am Integrated Care Networks/  
Contracts with Hospitals: Can the  
Solo Practitioner Still Negotiate?  
*David Provenzano, MD*
- 10:55 am Ethical and Effective  
Incorporation of Laboratory  
Testing Into Pain Practice  
*Damean Freas, DO*
- 11:10 am Acute and Chronic Pain Quality  
Measures: Current State and  
Potential Impact  
*Asokumar Buwanendran, MD*
- 11:25 am Cost Effectiveness of Intrathecal  
Drug Delivery  
*Robert Bolash, MD*
- 11:40 am MACRA and MIPS: 2018 Updates  
*Asokumar Buwanendran, MD*
- 11:55 am ASC Arrangements and  
Determining Best Site of Service  
for Payment and Patient Care  
*Richard Rosenquist, MD*
- 12:10 pm Panel Discussion/Question and  
Answer Period
- 12:30 pm Adjourn

PA/ARNP Session	
2:00 pm	Acute Pain Control in the Elderly <i>Scott Petersen, PA-C</i>
2:30 pm	Responsible Prescribing NP/PA Role <i>Rev Josanne Pagel, MDiv, MPAS, PA-C</i>
3:00 pm	Introducing Telehealth Into Your Practice <i>Robert Bolash, MD</i>
3:30 pm	Effective and Appropriate Use of Urine Drug Screening <i>Elizabeth Casserly, PharmD, RPh</i>
4:00 pm	Adjourn

6:00 – 7:00 pm Problem-based Learning Discussions	
D. Polypharmacy, Pain and Drug-Drug Interactions: Strategies to Balance Risk and Benefits <i>Anita Gupta, DO, PharmD and Elizabeth Casserly, PharmD, RPh</i>	
E. Polyanalgesic Consensus Conference Recommendations: Applications to Clinical Practice <i>Salim Hayek, MD, PhD</i>	
F. Neuromodulation – Optimizing Outcome by Choosing the Correct Technology <i>Ricardo Vallejo, MD, PhD</i>	

TUESDAY, FEBRUARY 13, 2018

- 7:30 am Continental Breakfast and  
Visit Exhibits  
*Informal Discussion with Faculty*
- Neuromodulation: Effective Utilization of  
Targets, Techniques and Devices  
*Moderator: Jianguo Cheng, MD, PhD*
- 8:00 am Current Understanding of SCS  
Mechanism of Action  
*Ricardo Vallejo, MD, PhD*
- 8:15 am Novel Intrathecal Dosing  
Approaches for Old Drugs  
*Robert Bolash, MD*
- 8:30 am Percutaneous Versus Paddle  
Leads: Indications and Relative  
Benefits  
*Andre Machado, MD, PhD*
- 8:45 am DRG Stimulation  
*Timothy R. Deer, MD*
- 9:00 am High Frequency Stimulation  
*Ricardo Vallejo, MD, PhD*
- 9:15 am New Chemical Entities and  
Targets for Spinally Delivered  
Drugs: What's on the Horizon?  
*Salim Hayek, MD, PhD*
- 9:30 am Burst Stimulation in Clinical  
Practice  
*Timothy R. Deer, MD*
- 9:45 am Spinal Cord Stimulation Infection  
Rate and Incremental Annual  
Expenditures: Results From a  
U.S. Payer Database  
*David Provenzano, MD*
- 10:00 am Refreshment Break and  
Visit Exhibits

- Neuromodulation Changing Paradigms and  
Devices: How Do I Choose the Best One for  
my Patient?  
*Moderator: Nagy Mekhail, MD, PhD*
- 10:30 am From Bedside to Bench Top Back  
to Bedside: Can We Apply What  
We Have Learned?  
*Ricardo Vallejo, MD, PhD*

- 11:00 am Matching the Diagnosis and  
the Technique/Device for the  
Best Patient Outcome -  
A Case Discussion with the  
Experts  
*Moderator: Nagy Mekhail, MD, PhD  
Panel: Asokumar Buwanendran, MD  
Timothy R. Deer, MD  
Maged Guirguis, MD  
Salim Hayek, MD, PhD  
Andre Machado, MD, PhD  
David Provenzano, MD  
Ricardo Vallejo, MD, PhD  
Jan Van Zundert, MD*
- 12:00 pm Panel Discussion/Question and  
Answer Period
- 12:30 pm Adjourn

PA/ARNP Session	
2:00 pm	How To (Or Should You) Fire Your Patient for Non-Compliance <i>Rev Josanne Pagel, MDiv, MPAS, PA-C</i>
2:30 pm	Tapering Off Opioids? <i>Scott Petersen, PA-C</i>
3:00 pm	When Do You Need a Psychologist? Communication Strategies to Engage Patients in Biopsychosocial Treatment <i>Sara Davin, PsyD, MPH</i>
3:30 pm	Inpatient Pain Consults – The Good, The Bad and The Ugly <i>Scott Petersen, PA-C</i>
4:00 pm	Adjourn

6:00 – 7:00 pm Problem-based Learning Discussions	
G. Effective Opioid Weaning Strategies <i>Robert Bolash, MD, and Elizabeth Casserly, PharmD, RPh</i>	
H. Large Specialty Group Versus Small Private Practice: Which is Best for Me? <i>Damean Freas, DO</i>	
I. Headache Management for the Pain Physician <i>Samuel Samuel, MD</i>	

<b>7:30 am</b>	<b>Continental Breakfast and Visit Exhibits</b> <i>Informal Discussion with Faculty</i>	<b>Pain Management in the Elderly Patient</b>
<b>Pain and the Brain</b> <i>Moderator: Shrif Costandi, MD</i>		<b>10:00 am</b> <b>Opioids in the Elderly</b> <i>Scott Petersen, PA-C</i>
<b>8:00 am</b>	<b>The Impact of Centralized Pain on Acute and Chronic Pain Outcomes</b> <i>Richard Rosenquist, MD</i>	<b>10:30 am</b> <b>Compression Fractures in the Elderly: More Than Meets the Eye</b> <i>Nagy Mekhail, MD, PhD</i>
<b>8:30 am</b>	<b>Fibromyalgia – Body or Brain?</b> <i>Maged Guirguis, MD</i>	<b>11:00 am</b> <b>Drug Metabolism in the Elderly: Can Pharmacogenomics Help Us?</b> <i>Anita Gupta, DO, PharmD</i>
<b>9:00 am</b>	<b>Psychological and Behavioral Strategies in the Management of Chronic Pain</b> <i>Sara Davin, PsyD, MPH</i>	<b>11:30 am</b> <b>Medical Marijuana in the Elderly Patient: Is There a Role?</b> <i>Samuel Samuel, MD</i>
<b>9:30 am</b>	<b>Refreshment Break and Visit Exhibits</b>	<b>12:00 pm</b> <b>Panel Discussion/Question and Answer Period</b>
		<b>12:30 pm</b> <b>Adjourn</b>

Optional Live Ultrasound Guided Workshops for Physicians

2:00 – 5:00 pm  
Fee: \$500 per workshop session

Only available for physician symposium registrants. Space is limited, so early online registration is recommended.

Saturday, February 10, 2018, Session 1

How to Improve Your Ultrasound Technique, Anatomy of Truncal and Lower Extremity Blocks, and 4 Hands-on Stations: 1) Trunk Blocks (TAP, Intercostal, Rectus Sheath, Iliohypogastric, Ilioinguinal), 2) Lower Extremity Nerve Blocks (Femoral, Obturator, Lateral Femoral Cutaneous Nerve Block ), 3) Lower Extremity Joint Injections (Hip, Knee), and 4) Ankle Injections (Posterior-tibial, Plantar Fascia)  
Faculty: Loran Mounir Soliman, MD; David Provenzano, MD; Shrif Costandi, MD; and Samuel Samuel, MD

Sunday, February 11, 2018, Session 2

Anatomy of Head and Neck Blocks (Stellate Ganglion, Cervical Roots, Brachial Plexus), Anatomy of Shoulder Joint, and 4 Hands-on Stations: 1) Stellate Ganglion Block, Cervical Nerve Root, Brachial Plexus, 2) Shoulder Joint, Suprascapular Nerve, 3) Upper Extremity Peripheral Nerves/ Elbow Injection, and 4) Pudendal Nerve Blocks, Caudal, Piriformis, SI Joint Injection  
Faculty: Loran Mounir Soliman, MD; David Provenzano, MD; Maged Guirguis, MD; and Samuel Samuel, MD

Optional Cadaver Workshops for Physicians

1:30 – 5:30 pm  
Fee: \$700 per workshop session

Only available for physician symposium registrants. Space is limited, so early online registration is recommended. The bus will depart at 12:30 pm and a boxed lunch will be provided. Attendees will rotate to each station.

Sunday, February 11, 2018, Session 3

Station 1 – Genicular and Hip RFA  
*Jianguo Cheng, MD, PhD*  
Station 2 – Cervical Facet Medial Branch RFA  
*James P. Rathmell, MD*  
Station 3 – Pelvic Pain Techniques (Pudendal Nerve RFA, Ganglion Impar)  
*Robert Bolash, MD*  
Station 4 – Lumbar Facet Medial Branch RFA and Facet Joint Injection  
*Jan Van Zundert, MD*

Monday, February 12, 2018, Session 4

Station 1 – Sympathetic Chain Blocks (Thoracic Paravertebral, LSB)  
*James P. Rathmell, MD*  
Station 2 – Headache Pain Blocks (Atlanto-Axial Joint, Third Occipital RFA)  
*Maged Guirguis, MD*  
Station 3 – Discography (Intradiscal Procedures and Transdiscal Biacuplasty)  
*Samuel Samuel, MD*  
Station 4 – Neurolytic Cancer Blocks (Celiac and Superior Hypogastric Plexus)  
*Shrif Costandi, MD*

Tuesday, February 13, 2018, Session 5 – Advanced Session

Station 1 – Dorsal Column SCS Lead Placement  
*Timothy R. Deer, MD*  
Station 2 – Trigeminal Nerve Blocks and Sphenopalatine Blocks  
*Salim Hayek, MD, PhD*  
Station 3 – Sacral Lateral Branch Cooled and Bipolar RFA for Sacroiliac Pain  
*Jianguo Cheng, MD, PhD*  
Station 4 – Vertebroplasty and Kyphoplasty for Compression Fractures  
*Shrif Costandi, MD*

## GENERAL INFORMATION

### Location

#### Hyatt Regency Grand Cypress Hotel

One Grand Cypress Blvd  
Orlando, FL 32836  
Phone: 407.239.1234

### Hotel Accommodations

A limited block of rooms has been reserved at Hyatt Regency Grand Cypress Hotel only until January 18, 2018. To make your reservation, go to [www.ccfme.org/painhotel](http://www.ccfme.org/painhotel) or contact the hotel at 888.421.1442. Identify yourself as an attendee for the **Cleveland Clinic Pain Management Symposium** for special rates of \$245 single/double plus taxes. The \$30 daily resort fee has been waived.

### Parking

Self-parking: \$10/day  
Valet parking: \$25/day

### Information

For further information about this activity, faculty disclosure, and Americans with Disabilities Act, contact the Cleveland Clinic Center for Continuing Education.

Local: 216.444.9990

Website: [ccfme.org/2018pain](http://ccfme.org/2018pain)

### 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 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™.
- Optional Cadaver Workshop live activity for a maximum of 4 AMA PRA Category 1 Credits™ per workshop.
- Optional Ultrasound Guided Workshop live activity for a maximum of 3 AMA PRA Category 1 Credits™ per workshop session.
- PA/ARNP session live activity for a maximum of 2 AMA PRA Category 1 Credits™ per session.

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.



### Free App for Attendees!

Included with your full registration is a complimentary mobile App available for download on tablets and smartphones, incorporating PowerPoint slides with note-taking and highlighting ability. Take notes at the activity and continue reviewing when you get home. Faculty presentations will also be available 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.

## REGISTER ONLINE AT [ccfme.org/2018Pain](http://ccfme.org/2018Pain)

**Fee includes:** continental breakfasts, refreshment breaks, faculty PowerPoint presentations in PDF format, available online and via mobile app

	On or Before January 1	After January 1
Physician	\$900	\$950
Non-physician	\$525	\$575
Resident*/Fellow*	\$475	\$525
CRNA/ PA/CNP	\$700	\$750
*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.		

### 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 12:00 noon ET, February 7, 2018. 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 January 5, 2018. After January 5, 2018, a \$300 cancellation fee will be deducted from your refund. No refunds will be issued after January 19, 2018.

For questions about registration or cancellation, email us at [cmeregistration@ccf.org](mailto:cmeregistration@ccf.org) or call 216.448.8710.

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.

The 20th Annual

# Pain Management Symposium



**FEBRUARY 10 – 14, 2018**

Hyatt Regency Grand Cypress Hotel | Orlando, FL



The Cleveland Clinic Foundation  
9500 Euclid Avenue, TR204  
Cleveland, OH 44195

NON-PROFIT ORG.  
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**REGISTER TODAY! [ccfcmc.org/2018Pain](http://ccfcmc.org/2018Pain)**