

The 20th Annual Pain Management Symposium

FEBRUARY 10 – 14, 2018

Hyatt Regency Grand Cypress Hotel | Orlando, FL



REGISTER TODAY! 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 Buvanendran, MD
- 11:25 am Cost Effectiveness of Intrathecal Drug Delivery
Robert Bolash, MD
- 11:40 am MACRA and MIPS: 2018 Updates
Asokumar Buvanendran, 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 Buvanendran, 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>	

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

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 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

Orlando Activities & Events

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

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 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.

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Pain Management Symposium



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

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