



New Location!

The 21st Annual Pain Management Symposium

MARCH 16-20, 2019

Hard Rock Hotel | San Diego, CA



REGISTER TODAY! ccfcme.org/2019Pain

ABOUT THE PAIN MANAGEMENT SYMPOSIUM

Cleveland Clinic Department of Pain Management is pleased to offer *The 21st Annual Pain Management Symposium*. We invite you to join us in the Gaslamp District of San Diego, California at the Hard Rock Hotel during the week of March 16-20, 2019. 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, 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 neuropathic pain conditions, and critically review novel state-of-the-art interventional and non-interventional techniques in diagnosis and management of chronic pain, cancer pain, and headaches. 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. On 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.

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. This year will see the addition of a cadaver session to the second day of the Ultrasound Workshops.

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 opioid crisis and the use of opioids for pain management including opioid guidelines, new legislation, addiction potential, and strategies to optimize outcomes.
- Critically assess the data on the pros and cons of cannabinoids and the issues affecting their use in chronic pain treatment.
- Discuss the evolving role of ketamine in the treatment of chronic and acute pain.
- Review new developments within the spectrum of neuromodulation therapies.
- Develop strategies to provide affordable pain care that addresses changes in regulatory, billing, and ethical challenges in pain practice.
- List some emerging therapies for pain and describe their potential use in clinical practice.
- Examine contemporary approaches to headache and back pain evaluation and treatment.
- Review current evidence and apply relevant prescribing and management guidelines as they apply to pain management.
- Demonstrate use of various technical skills needed to perform interventional pain procedures.

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
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Deb McChrystal, OTR

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Leslie Tolman, RN, BSN

Department of Pain Management

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Ann Arbor, MI

Timothy R. Deer, MD

Center for Pain Relief
Charleston, WV

Michael Frey, MD

Ft. Myers, FL

Christopher J. Gilligan, MD

Brigham and Women's Hospital
Boston, MA

Leo Kapural, MD, PhD

Carolinas Pain Institute and
Center for Clinical Research
Winston Salem, NC

David "DJ" Kennedy, MD

Vanderbilt University Medical Center
Nashville, TN

Immanuel R. Lerman, MD

University of California, San Diego
San Diego, CA

David Provenzano, MD

Pain Diagnostics and Interventional Care
Pittsburgh, PA

Konstantin Slavin, MD

The University of Illinois College of Medicine
Chicago, IL

Ricardo Vallejo, MD, PhD

Millennium Pain Center
Bloomington, IL

Mark S. Wallace, MD

University of California, San Diego
La Jolla, CA

CLEVELAND CLINIC FACULTY

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Genomic Medicine Institute

MaryAnn Mays, MD

Center for Neuro-Restoration

Nagy Mekhail, MD, PhD

Department of Pain Management

Thomas Mroz, MD

Center for Spine Health

Scott Petersen, PA-C

Department of Pain Management

Samuel Samuel, MD

Department of Pain Management

Jijun Xu, MD, PhD

Department of Pain Management



SATURDAY, MARCH 16, 2019

7:00 am	Registration, Continental Breakfast, and Visit Exhibits <i>Informal Discussion with Faculty</i>	10:00 am	Refreshment Break and Visit Exhibits
7:50 am	Welcome and Introduction <i>Richard W. Rosenquist, MD</i>	10:30 am	Cervical Spine Surgery: Watchful Waiting vs. Decompression <i>Thomas Mroz, MD</i>
The Fundamentals <i>Moderator: Richard W. Rosenquist, MD</i>		11:00 am	New Algorithm for Treatment of Chronic Abdominal Pain <i>Leo Kapural, MD, PhD</i>
8:00 am	Radiofrequency Ablation: The Importance of Understanding Basic Science <i>David Provenzano, MD</i>	11:30 am	Core Stability <i>David "DJ" Kennedy, MD</i>
8:30 am	Spinal Cord Stimulation – Mechanism of Action <i>Ricardo Vallejo, MD, PhD</i>	12:00 pm	Panel Discussion/Question and Answer Period
9:00 am	Evaluation and Treatment of Neck and Arm Pain Following Cervical Fusion <i>Thomas Mroz, MD</i>	12:30 pm	Adjourn
9:30 am	Sacroiliac Joint RFA: Indications, Better Technique, Better Outcomes? <i>David "DJ" Kennedy, MD</i>	6:30 – 8:30 pm Reception Let's Rock and Roll! 	

SUNDAY, MARCH 17, 2019

7:30 am	Registration, Continental Breakfast, and Visit Exhibits <i>Informal Discussion with Faculty</i>	Emerging Pharmacological and Interventional Treatment	
Regulatory, Billing and Ethical Challenges in Pain Practice <i>Moderator: Robert Bolash, MD</i>		10:30 am	Intracept <i>David "DJ" Kennedy, MD</i>
8:00 am	Neuromodulation – Will Overuse Kill the Technology? <i>Timothy R. Deer, MD</i>	10:45 am	ReActiv8 <i>Christopher J. Gilligan, MD</i>
8:20 am	Kickbacks and the Price of Business <i>Michael Frey, MD</i>	11:00 am	CGRP Antagonists <i>MaryAnn Mays, MD</i>
8:40 am	CPT and RUC: How is a Code Created and Get Value? <i>Richard W. Rosenquist, MD</i>	11:15 am	Nerve Growth Factor <i>Mark S. Wallace, MD</i>
9:00 am	Effective Billing for Neuromodulation Procedures <i>Robert Bolash, MD</i>	11:30 am	NaV1.7 as a Pharmacogenomic Target for Pain <i>Robert Bolash, MD</i>
9:20 am	Site of Service Payment Differentials: Changes in 2018 and Beyond <i>David Provenzano, MD</i>	11:45 am	Salvaging Failed Spinal Cord Stimulation: The Evidence <i>David Provenzano, MD</i>
9:40 am	Medical and Ethical Concerns in Billing <i>Michael Frey, MD</i>	12:00 pm	Panel Discussion/Question and Answer Period
10:00 am	Refreshment Break and Visit Exhibits	12:30 pm	Adjourn
		6:00 – 7:00 pm Problem-based Learning Discussions	
		A. Incorporating Wellness Into Your Pain Practice <i>Teresa Dews, MD</i>	
		B. Evaluating the Patient with Chronic Abdominal Pain <i>Leo Kapural, MD, PhD</i>	
		C. Update on Anticoagulation Guidelines for Chronic Pain Procedures <i>David Provenzano, MD</i>	

MONDAY, MARCH 18, 2019

7:30 am	Continental Breakfast and Visit Exhibits <i>Informal Discussion with Faculty</i>	9:00 am	Burst Stimulation <i>Timothy R. Deer, MD</i>
Neuromodulation: Effective Utilization of Targets, Techniques and Devices <i>Moderator: Samuel Samuel, MD</i>		9:15 am	High Frequency Stimulation <i>Leo Kapural, MD, PhD</i>
8:00 am	Neurostimulation: From Inception to the Future <i>Nagy Mekhail, MD, PhD</i>	9:30 am	Feedback Modified Stimulation <i>Nagy Mekhail, MD, PhD</i>
8:30 am	Tonic Stimulation <i>Ricardo Vallejo, MD, PhD</i>	9:45 am	Craniofacial Stimulation <i>Konstantin Slavin, MD</i>
8:45 am	Peripheral Nerve Stimulation <i>Konstantin Slavin, MD</i>	10:00 am	Intrathecal Drug Delivery <i>Robert Bolash, MD</i>
		10:15 am	DRG Stimulation <i>Timothy R. Deer, MD</i>
		10:30 am	Refreshment Break and Visit Exhibits

MONDAY, MARCH 18, 2019 (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: Nagy Mekhail, MD, PhD
Panelists: Robert Bolash, MD;
Timothy R. Deer, MD;
Leo Kapural, MD, PhD;
Konstantin Slavin, MD;
Ricardo Vallejo, MD, PhD;
Mark S. Wallace, MD
- 12:00 pm** **Panel Discussion/Question and Answer Period**
- 12:30 pm** **Adjourn**

PA/ARNP Session

- 2:00 pm** **Effective Physician and Advanced Practice Provider Collaboration**
Teresa Dews, MD
- 2:30 pm** **Pain Care in the Elderly**
Scott Petersen, PA-C
- 3:00 pm** **Pharmacogenomics and Opioids**
Jennifer Hockings, PharmD, PhD
- 3:30 pm** **Neurologic Evaluation of the Pain Patient**
Immanuel R. Lerman, MD
- 4:00 pm** **Adjourn**

6:00 – 7:00 pm

Problem-based Learning Discussions

D. Ethical Lapses in Clinical Practice: One Physicians Journey
Michael Frey, MD

E. Troubleshooting SCs
Ricardo Vallejo, MD, PhD

F. To Stop or Not, That is the Question: Acute Pain Management for the Patient on Chronic Buprenorphine
Chad Brummett, MD

TUESDAY, MARCH 19, 2019

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

The Opioid Crisis

Moderator: Jijun Xu, MD, PhD

- 8:00 am** **The Role of Acute Prescribing in the Opioid Epidemic**
Chad Brummett, MD
- 8:45 am** **Buprenorphine: A Viable Alternative?**
Robert Bolash, MD
- 9:00 am** **Pharmacogenomics: Fad or the Future?**
Jennifer Hockings, PharmD, PhD
- 9:15 am** **Evolving Role of Pain Physicians in Identifying, Treating Opioid Use Disorder**
Richard W. Rosenquist, MD
- 9:30 am** **Opioid Stewardship at the Enterprise Level**
Christopher J. Gilligan, MD
- 9:45 am** **FDA Approved Direct to Consumer Pharmacogenomic Testing: How Do I Respond?**
Jennifer Hockings, PharmD, PhD
- 10:00 am** **Refreshment Break and Visit Exhibits**

Ketamine for Pain Medicine

- 10:30 am** **Ketamine for Chronic Pain**
Samuel Samuel, MD
- 10:45 am** **Ketamine for Acute Pain**
See Kolli, MD
- 11:00 am** **Ketamine: Miracle Drug or Latest Fad?**
Teresa Dews, MD
- 11:15 am** **Contraindications to Ketamine Treatment**
Samuel Samuel, MD

- 11:30 am** **Non-Pain Related Applications of Ketamine**
Christopher J. Gilligan, MD

- 11:45 am** **Ketamine for CRPS**
Jijun Xu, MD, PhD
- 12:00 pm** **Panel Discussion/Question and Answer Period**
- 12:30 pm** **Adjourn**

PA/ARNP Session

- 2:00 pm** **Evaluating the Low Back Pain Patient**
Christopher J. Gilligan, MD
- 2:30 pm** **Transitioning Inpatient Consults to Effective Outpatient Care**
Scott Petersen, PA-C
- 3:00 pm** **Approaching Difficult Conversations**
Robert Bolash, MD
- 3:30 pm** **5 Headaches You Should Know**
MaryAnn Mays, MD
- 4:00 pm** **Adjourn**

6:00 – 7:00 pm

Problem-based Learning Discussions

G. Low Back Pain Care Path Outcomes: Reduced Cost or Better Patient Care or Both?
Christopher J. Gilligan, MD

H. Effective Opioid Tapering Strategies
Robert Bolash, MD

I. Medical Marijuana
Mark S. Wallace, MD

7:30 am	Registration and Continental Breakfast <i>Informal Discussion with Faculty</i>	Headaches	
		10:00 am	Evaluating the Headache Patient: When Is Imaging Indicated? <i>Imanuel R. Lerman, MD</i>
Medical Marijuana <i>Moderator: Teresa Dews, MD</i>		10:30 am	Rational Approach to Pharmacological Migraine Treatment <i>MaryAnn Mays, MD</i>
8:00 am	Role of Cannabinoids in Chronic Pain Treatment <i>Mark S. Wallace, MD</i>	11:00 am	Interventional Approaches to Headache Management <i>Samuel Samuel, MD</i>
8:30 am	Adverse Effects of Cannabinoids <i>Scott Petersen, PA-C</i>	11:30 am	Adverse Effects of Pharmacological Treatments <i>MaryAnn Mays, MD</i>
9:00 am	Oils, Edibles, Smoking, Vaping: How Do You Decide? <i>Mark S. Wallace, MD</i>	12:00 pm	Panel Discussion/Question and Answer Period
9:30 am	Refreshment Break	12:30 pm	Adjourn

Optional Live Ultrasound Guided Workshop for Physicians

2:00 – 5:00 pm | Fee: \$500

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

Saturday, March 16, 2019, 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, Genitofemoral, Erector Spinae), 2) Lower Extremity Nerve Blocks (Femoral, Obturator, LFCN), 3) Lower Extremity Joint Injections (Hip, Knee), PENG (Pericapsular Nerve Group Block), and 4) Ankle Injections (Post-tibial, Superficial Peroneal, Plantar Fascia)

Faculty: Sree Kolli, MD; Imanuel R. Lerman, MD; David Provenzano, MD; Samuel Samuel, MD; Jijun Xu, MD, PhD

NEW THIS YEAR!

Optional Live Ultrasound/Cadaver Workshop for Physicians

1:30 – 5:00 pm | Fee: \$650

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.

Sunday, March 17, 2019, Session 2

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 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: Sree Kolli, MD; David Provenzano, MD; Imanuel R. Lerman, MD; Samuel Samuel, MD; Jijun Xu, MD, PhD

Optional Cadaver Workshops for Physicians

1:30 – 5:30 pm | Fee: \$700

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.

Saturday, March 16, 2019, Session 3

Station 1 – Genicular and Hip RFA

Shrif Costandi, MD

Station 2 – Cervical Facet Medial Branch RFA

Teresa Dews, 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

David "DJ" Kennedy, MD

Monday, March 18, 2019, Session 4

Station 1 – Sympathetic Chain Blocks (Thoracic Paravertebral, LSB)

Jijun Xu, MD, PhD

Station 2 – Trigeminal Nerve Blocks and Sphenopalatine Blocks

Samuel Samuel, MD

Station 3 – Intradiscal Procedures (Discography)

Shrif Costandi, MD

Station 4 – Intra-abdominal Blocks (Celiac, Splanchnic, Superior Hypogastric Plexus)

Leo Kapural, MD, PhD

Tuesday, March 19, 2019, Session 5 – Advanced Session

Station 1 – Dorsal Column SCS Lead Placement

Christopher J. Gilligan, MD

Station 2 – Headache Pain Blocks (Atlanto-Axial Joint, Third Occipital RFA)

Samuel Samuel, MD

Station 3 – Sacral Lateral Branch Cooled and Bipolar RFA for Sacroiliac Pain

Teresa Dews, MD

Station 4 – Vertebroplasty and Kyphoplasty for Compression Fractures

Shrif Costandi, MD

GENERAL INFORMATION

Location

Hard Rock Hotel San Diego

207 5th Avenue
San Diego, CA 92101
Phone: 619.702.3000

Hotel Accommodations

A limited block of rooms has been reserved at the Hard Rock Hotel until

Thursday, February 21, 2019. To make your reservation, go to ccfcme.org/PainHotel or call the hotel Reservation Department at **877.344.ROCK (7625)**. Identify yourself as an attendee of the **Cleveland Clinic Pain Management Symposium** for special rates of \$239 single/double plus taxes, tourism fees and \$15 (discounted) per day All Access Pass.

Parking

Event parking: \$20/day
Valet for overnight guests: \$49/day
Parking rates may be subject to state & local taxes and may change without notice.

Faculty Disclosure

The Cleveland Clinic Foundation Center for Continuing Education has implemented a policy to comply with the current Accreditation Council for Continuing Medical Education Standards for Commercial Support requiring resolution of all faculty conflicts of interest. Faculty declaring a relevant commercial interest will be identified in the activity syllabus

Information

For further information about this activity, contact the Cleveland Clinic Center for Continuing Education website: ccfcme.org/2019pain

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.

Americans with Disabilities Act

The Cleveland Clinic Foundation Center for Continuing Education fully intends to comply with the legal requirements of the Americans with Disabilities Act. If you need assistance, please notify us at least two weeks prior to the activity.



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 ccfcme.org/2019Pain

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

	On or Before January 30	After January 30
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 2:00 pm ET, March 12, 2019. 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, 2019. After February 15, 2019, a \$300 cancellation fee will be deducted from your refund. No refunds will be issued after February 25, 2019.

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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