2nd Congress Featuring Cancer Pain and Perioperative Medicine Experts from Around the World
MSK's 2nd Congress of the Interventional Cancer Pain Symposium will provide an unparalleled experience for attendees involved in the treatment of oncologic pain patients. This year's program will have expanded experience in the fields of neurosurgery, rehabilitation, integrative medicine, supportive and palliative care, and interventional radiology for attendees. The advanced role of neuromodulation in the treatment of the oncologic population. Additionally, a new emergency and perioperative medicine track will include lectures and a regional anesthesia workshop on day 1 as well as a regional anesthesia cadaver workshop for anesthesia and emergency medicine health providers on day 2.

This course is intended for Physicians, Advanced Practice Providers, Residents and Fellows interested in learning state-of-the-art interventional pain procedures for treating oncologic patients.

Symposium Tracks

Lecture Track: Main Conference (Fri.-Sat.)

Highlights of the main conference agenda will include the expanded role and treatment options offered by neurosurgery, interventional radiology, oncology, supportive care, rehabilitation and integrative medicine. We will also have breakout sessions for the increasing role of Nursing and Advanced Practice Providers in the management of oncologic pain patients. Please refer to pages 3-4 for details.

Day 2 optional breakout sessions include:

- APP Breakout Series (includes hands-on live model rotations) - The advanced practice provider course will focus on up-to-date strategies in managing pain in cancer patients. Innovations have improved the options for our patients and providers have the opportunity to learn from experts in the field of pain cancer medicine.
- Innovations in Pain Medicine - Novel Research Series - This lecture series delves into new and interesting developments in pain medicine through an interactive lecture, panel, and discourse program.

Workshop Track (Fri.-Sat.)

This year’s technical workshops will be optimized to include sessions specifically designed in neuromodulation, intrathecal drug delivery, rehabilitation and complementary medicine. State-of-the-art techniques in fluoroscopy and ultrasound guidance will be available to all attendees who register for the advanced workshops.

Attendees can select one of the following workshops at registration:

- Track 1 | Cancer Pain Medicine - Please refer to pages 5-6 for details.
- Track 2 | Perioperative/ Emergency Medicine - Please refer to pages 7-8 for details.
- Track 3 | Peripheral Nerve Stimulation/Spine (PNS/Spine) - Please refer to pages 9-10 for details.
- Track 4 | Musculoskeletal (MSK)/Regenerative Medicine - Please refer to pages 11-12 for details.

Symposium Locations

Day 1 is accredited by Memorial Sloan Kettering Cancer Center and held at: Zuckerman Research Center 417 East 68th Street New York, NY

Day 2 is accredited by Dannaheimer and WAPMU and held at: New York Marriott Marquis 1535 Broadway New York, NY

CALL FOR ABSTRACTS

Memorial Sloan Kettering is pleased to invite you to submit an abstract for presentation at the Interventional Cancer Pain Symposium. Abstracts for the poster session will be selected on the basis of their scientific merit and content quality. Please submit abstracts online by August 15, 2019: mskcc.org/PainSymposium

MSK Course Director

Amithab Gulati, MD, FIPP, CIPS
Director, Chronic Pain

Course Co-directors

Vinyab Putnamiah, MD
Director Regional Anesthesia and Analgesia Memorial Sloan Kettering Cancer Center

Grant H. Chen, MD
Memorial Sloan Kettering Cancer Center

Invited Course Faculty

Ehsasham Baig, MSc, MD, FRCP CC
Memorial Sloan Kettering Cancer Center

Yasmin Hoyoandneck, MD, FIPP
University of Toronto

Brian Mendoza Brul, MD, MFA
Baylor University

Vijaya Gottumukkal, MB, BS, MD, FRCA
MD Anderson Cancer Center

Rajeev Gulati, MD
New York University

Jennifer Hah, MD, MS
Stanford University

Stephen C. Haskins, MD
Hospital for Special Surgery

Shane E. Bregan, MD
Huntsman Center Institute University of Utah

David Flamer, MD FRCP CC
University of Toronto

Michael Gefold, MD, PhD
Silver Centre for Pain Care

Vijaya Gottumukkal, MB, BS, MD, FRCA
MD Anderson Cancer Center

MD Anderson Cancer Center

Day 2 is accredited by Dannemiller and held at: New York Marriott Marquis 1535 Broadway New York, NY

MSK Course Faculty

Anousheh Afonso, MD
Robert J. Allen, Jr., MD
Aisha Baqi-Saqui, MD
Ori Barzilai, MD
Vittoria Antonio-Carter, MD
Keith Clement, MSN, RN, ANP-BC
Elizabeth Comer, MD
Anahita Dabo-Trubelja, MD
Irina Dynov, MSN, RN, FNP–BC
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Cosmin Gauran, MD
Theresa Gillis, MD
Danielle Gordon, PharmD, JD
Karen Holritz, NP

Mimi Hallemarim, BSN, RN, OCN
Lee P. Hingula, MD
Kasia Ibanez
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Shelly Latto-Neas, MD
Iiya Laufer, MD
Kelly Leap, BSN, RN, OCN
Aron Legles, MD
Emily Lin, MD
Eric Lis, MD
Tim Malhotra, M.H, MPH
Jun J. Mao, MD, MSCE
Sincere McMillan, DNP, RN, ANP–BC
Aida Milicctic, DNP, RN, FNP–BC

Natalie Moryl (Khojainova), MD
Eva Pendleton
Michael A. Postow, MD
Alessia Pedoto, MD
Benjamin Record, MD
Lisa Marie Ruppert, MD
Ernesto Santos, MD
Sara Shaikh, MD
Kara Singer, RN, MSN, ANP-C
Susan F. Slovin, MD, PhD
Grisha Syrkin, MD
Kathy Trotta, MD, RN, ANP-C
Robert A. Vesely, MD

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Grisha Syrkin, MD
Kathy Trotta, MD, RN, ANP-C
Robert A. Vesely, MD
Lecture Track: Main Conference

Highlights of the main conference agenda will include the expanded role and treatment options offered by neurosurgery, interventional radiology, oncology, supportive care, rehabilitation and integrative medicine. We will also have breakout sessions for the increasing role of Nursing and Advanced Practice Providers in the management of oncologic pain patients.

**DAY 1 • Friday, September 13**

- **8:00 am** | Treatment of Oncology: Amithabh Gulati, MD, FIPP, CIPS
- **9:00 am** | Innovations in Oncology: Michael A. Podole, MD
- **9:25 am** | Radiation Treatment: A Pain Double Edged Sword: Kavita V. Dharmarajan, MD
- **9:50 am** | Panel Discussion
- **10:00 am** | BREAK
- **10:20 am** | Neonatal Updates: Neel Mehta, MD
- **10:40 am** | Vertebroplasty for Oncologic Patients: Eric Liu, MD
- **11:00 am** | Electrical Neuromodulation: Better Experience and Evidence in Oncology: Neel Mehta, MD
- **11:20 am** | Intrathecal Drug Delivery Panel: Ask the Experts: Shane E. Brogan, MD, Dawood Sayed, MD
- **12:00 pm** | LUNCH
- **1:00 pm** | Breast Cancer Tumor Board: Vinay Puttanniah, MD
- **1:20 pm** | PMPS: An Algorithmic Approach to Treatment: Vinay Puttanniah, MD

**9:40 am** | Oncologic Pain: Amithabh Gulati, MD, FIPP, CIPS
- **10:00 am** | Updates on AIA and Complementary Treatment: Jun J. Mao, MD, MSCE
- **10:40 am** | Panel Discussion
- **11:00 am** | BREAK
- **11:20 am** | Focus on Prostate Cancer: Aron Legler, MD
- **11:40 am** | Update on Treatment Strategies and Surveillance: Susan F. Slotin, MD, PhD
- **12:00 pm** | Treatment Related Pain Syndromes: Natalie Nohl (Khojainova), MD
- **12:20 pm** | Treatments for Metastatic Bone Disease: Ernesto Santos, MD
- **1:00 pm** | Sacral Plexus Oncologic Pain: An Algorithmic Approach to Treatment: Aron Legler, MD
- **1:40 pm** | Panel
- **2:00 pm** | Keynote Speaker: Kris Vissers, MD, PhD, FIPP
- **6:00 pm** | Networking Reception: Josie Robertson Surgery Center

**Day 1 is accredited by MSK.**

**DAY 2 • Saturday, September 14**

- **7:00 am** | BREAKFAST
- **8:00 am** | Pharmacotherapy: Aron Legler, MD
- **8:20 am** | Review of Atypical Opioids and Rotation Strategies: Natalie Nohl (Khojainova), MD
- **8:40 am** | Opioid Irregularities and the Cancer Patient: Shelly Latte-Naor, MD
- **9:00 am** | Role of Ketamine for Oncologic Pain: Jun J. Mao, MD, MSCE
- **9:20 am** | Update on Novel Cancer Pain Therapeutics: Kris Vissers, MD, PhD, FIPP
- **9:40 am** | Panel Discussion
- **10:00 am** | BREAK
- **10:20 am** | Interventional Paradigms: Asha Baqui-Stern, MD
- **10:40 am** | Nuances in Celiac Plexus Blockade: Aron Legler, MD
- **11:00 am** | Paradigms in Treatment of Abdominopelvic Tumors: Asha Baqui-Stern, MD
- **11:20 am** | Head and Neck Cancer Pain: Evidence Based Treatment: Leo F. Hendryga, MD
- **11:40 am** | Corticosteroids for Tumor Related Pain: Virna Singh, MD
- **12:00 pm** | LUNCH
- **1:00 pm** | Rehabilitation Medicine: Lisa Marie Ruppert, MD
- **1:20 pm** | Role of Botulinum Toxin in Management of Pain: Aisha Baqui-Stern, MD
- **1:40 pm** | Incorporation of Spinal Bracing into the Treatment Plan: Lisa Marie Ruppert, MD
- **2:00 pm** | Encouraging Painful Spinal Bracing Before Oncologic Treatment: Brian Mendoza Bruel, MD, MBA
- **2:20 pm** | Exercise in Management of Cancer Related Fatigue: Graham Syrkyn, MD
- **2:40 pm** | Osteopathic Manipulation Therapy for the Cancer Patient: Jonas M. Sokolof, DO
- **3:00 pm** | Panel
- **4:00 pm** | Acupuncture: Jun J. Mao, MD, MSCE
- **4:40 pm** | Mindfulness: Shelly Latte-Naor, MD
- **5:00 pm** | Closing: Amithabh Gulati, MD, FIPP, CIPS

**Optional Breakout Sessions**

- **8:00 am** | Supportive Care Principles: Mary Elizabeth Davis, MSN, RN, CHPN, AOCNS
- **8:40 am** | Managing Substance Use Disorder for the Oncology Pain Patient: Kate Singer, RN, MSN, ANP, AOCNS
- **9:20 am** | Medical Marijuana-NY Rules and Regulations: Daniela Gordon, PharmD, JD
- **10:00 am** | EPIC Breakout Series: Supportive Care Principles: Mary Elizabeth Davis, MSN, RN, CHPN, AOCNS

**Innovations in Pain Medicine**

**New York Marriott Marquis**

1535 Broadway
Workshop Track 1
Cancer Pain Medicine

The audience will have lecture, live model, and hands-on cadaver experience in fluoroscopic and ultrasound guided cancer pain procedures. This workshop will cover novel techniques in neurostimulation and intrathecal drug delivery along with advanced ultrasound guided procedures.

DAY 1 • Friday, September 13

Lecture Track (Main Conference)
7:00 am BREAKFAST & REGISTRATION

Department of Medicine Grand Rounds
8:00 am Opioids, Anesthesia and Metastasis, Where Do We Stand?
Amitabh Gulati, MD, FIPP, CIPS

Treatments in Oncology
9:00 am Innovations in Oncology
Michael A. Postow, MD

9:25 am Radiation Treatment: A Pain Double Edged Sword
Karla V. Dharmanian, MD

9:50 am Panel Discussion

10:00 am BREAK

Neuroaxial Updates
10:20 am Cordotomy: A New Horizon for a Classic Procedure
Ilya Laufer, MD

10:40 am Vertebral Augmentation for Oncologic Patients
Eric Liu, MD

11:00 am Electrical Neuromodulation: Best Experience and Evidence in Oncology? New Malta, MD

11:20 am Intrathecal Drug Delivery Panel: Ask the Experts
Dawood Sayed, MD
Shane E. Brogan, MD
Neel Mehta, MD
Michael G. Byas-Smith, MD

12:00 pm LUNCH

Breast Cancer Tumor Board
Moderator: Vinay Puttanniah, MD

1:00 pm Breast Cancer: A Pain Perspective
Elizabeth Comen, MD

1:20 pm PMP: An Algorithmic Approach to Treatment (pre-pod op)
Vinay Puttanniah, MD

1:40 pm Plastic Surgery
Robert J. Allen, Jr., MD

2:00 pm Functional Rehabilitation Pearls
Theresa Gold, MD

2:20 pm Updates on AIA and Complementary Treatment
Jan J. Mee, MD, MScE

2:40 pm Panel Discussion

3:00 pm BREAK

Focus on Prostate Cancer
Moderator: Aron Legler, MD

3:20 pm Update on Treatment Strategies and Surveillance
Susan F. Skovin, MD, PhD

3:40 pm Treatment Related Pain Syndromes
Natalie Moryl (Vishnuroos), MD

4:00 pm Treatments for Metastatic Bone Disease
Ernesto Santon, MD

4:20 pm Sacrococcygeal Oncologic Pain: An Algorithmic Approach to Treatment
Arun Legler, MD

4:40 pm Keynote Speaker

5:00 pm Networking Reception
Attendees are invited to join the course faculty for a networking reception at Memorial Sloan Kettering’s Jose Robertson Surgery Center. Hors d’oeuvres and refreshments will be served.
Josie Robertson Surgery Center
1133 York Avenue
6:00-7:30 pm

5:30 pm Botox
TRA

6:00 pm ADJOURN

DAY 2 • Saturday, September 14

Cadaver Workshop
7:00 am BREAKFAST

Special Session
7:30 am Percutaneous Cordotomy
Amitabh Gulati, MD, FIPP, CIPS
Ilya Laufer, MD

8:00 am Workshop Rotation I
1) Intrathecal Pump Implants
Ilya Laufer, MD
Shane E. Brogan, MD

2) Thoracic and Cervical Neuromodulation
Neel Mehta, MD

3) Visceral Sympathetic Blocks
Sanjeev Narang, MD

4) Kyphoplasty and Radiofrequency Ablation
Envi Liu, MD
Dawood Sayed, MD

12:00 pm Working Lunch

CSF Kinetics, Complications and Advanced Drug Dynamics
Amitabh Gulati, MD, FIPP, CIPS
Anish S. Patel, MD, MBA
Shane E. Brogan, MD
Sanjeev Narang, MD

1:00 pm Demonstrations

2:00 pm Workshop Rotation II
5) Thoracic, SIJ, Lumbar Spine and Pudendal
Ehtesham Baig, MSc, MD, FRCPC
Grant H. Chen, MD
6) Knee and Hip Joint Denervation w/ RFA
Anuj Bhatia, MD, FRCA, FRCPC, CIPP, ASRA-PMUC FIPP
7) Stellate and Posterior Neck
Michael G. Byas-Smith, MD

8) Shoulder and Upper Extremity
David Flamer, MD FRCPC

Special Session
5:30 pm Botox
TBA

6:00 pm ADJOURN

Day 1 is accredited by MSK.
Day 2 is accredited by Dannemiller & WAPMU.
# Workshop Track 2: Perioperative/Emergency Medicine

A novel program specifically designed for Anesthesia and Emergency Medicine providers. This curriculum will focus on advanced ultrasound guided regional anesthesia techniques for the operating and emergency room (taught through live model and hands-on cadaver experience). Furthermore, difficult airway scenarios, point of care technologies, and diagnostic ultrasound techniques will be taught.

## DAY 1 • Friday, September 13

**Zuckerman Research Center**
417 East 68th Street

### Live Model Workshop

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<th>Time</th>
<th>Session</th>
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<tr>
<td>10:00</td>
<td>Anterior Chest Wall Blocks&lt;br&gt;Abdominal Sym pathetic and Abd Wall&lt;br&gt;Anterior Neck and Brachial Plexus&lt;br&gt;Posterior Neck and Cervical Spine</td>
<td>Room 105</td>
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<tr>
<td>11:00</td>
<td>BREAK</td>
<td>Room 105</td>
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<tr>
<td>12:00</td>
<td>LUNCH</td>
<td>Room 105</td>
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### Cadaver Workshop

**New York Marriott Marquis**
1535 Broadway

### Special Sessions

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<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tbody>
<tr>
<td>7:30</td>
<td>POCUS Talk&lt;br&gt;Focused EM Talk</td>
<td>Room 105</td>
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<tr>
<td>8:00</td>
<td>POCUS Cadaver Work:&lt;br&gt;Regional Anesthesia for EM&lt;br&gt;1) Intercostal and Chest Wall&lt;br&gt;2) Upper Extremity&lt;br&gt;3) Lower Extremity&lt;br&gt;4) Abdominal Wall Blocks</td>
<td>Room 105</td>
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<td>12:00</td>
<td>Working Lunch</td>
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## DAY 2 • Saturday, September 14

### CSF Kinetics, Complications and Advanced Drug Dynamics

A novel program specifically designed for Anesthesia and Emergency Medicine providers. This curriculum will focus on advanced ultrasound guided regional anesthesia techniques for the operating and emergency room (taught through live model and hands-on cadaver experience). Furthermore, difficult airway scenarios, point of care technologies, and diagnostic ultrasound techniques will be taught.

### Cadaver Workshop

**New York Marriott Marquis**
1535 Broadway

### Special Sessions

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<tr>
<td>7:30</td>
<td>Focused EM Talk&lt;br&gt;Focused EM Talk&lt;br&gt;Regional Anesthesia for EM&lt;br&gt;1) Intercostal and Chest Wall&lt;br&gt;2) Upper Extremity&lt;br&gt;3) Lower Extremity&lt;br&gt;4) Abdominal Wall Blocks</td>
<td>Room 105</td>
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<tr>
<td>12:00</td>
<td>Working Lunch</td>
<td>Room 105</td>
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Day 1 is accredited by MSK.
Day 2 is accredited by Dannemiller & WAPMU.

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**Day 1: Friday, September 13**

- **7:00 am**: Breakfast & Registration
- **8:00 am**: Opioids, Anesthesia and Metastasis, Where Do We Stand?<br>Antalish Gulati, MD, FFR, CIPS
- **9:05 am**: Anesthesia and "Chemobrain"
  - Robert A. Veselis, MD
- **9:30 am**: Regional Anesthesia and Metastasis<br>Vijaya Gottumukkala, MB, BS, MD, FRCA
- **9:55 am**: Car T Cell Treatment: Anesthesia and Critical Care Concerns<br>Gregory Fischer, MD
- **10:00 am**: Break<br>Moderator: Eric R. Kelhoffer, MD
- **10:20 am**: TIVA Vs. Volatiles: Effects of Anesthetics on Metastatic Disease<br>Vijaya Gottumukkala, MB, BS, MD, FRCA
- **10:40 am**: ERAS: Evidence in Oncologic Outcomes<br>Anoushka Afonso, MD
- **11:00 am**: Electrical Analgesia as Anesthetics<br>Antalish Gulati, MD, FFR, CIPS
- **11:20 am**: Chronic Opioid Use After Cancer Surgery: Implications for Perioperative Management<br>Jennifer Han, MD, MS
- **11:40 am**: Panel Discussion
- **12:00 am**: Lunch

**Day 2: Saturday, September 14**

- **7:00 am**: Breakfast
- **7:30 am**: POCUS Talk<br>Michael C. Haskins, MD
- **8:00 am**: POCUS Cadaver Work:<br>Regional Anesthesia for EM<br>1) Intercostal and Chest Wall<br>2) Upper Extremity<br>3) Lower Extremity<br>4) Abdominal Wall Blocks
- **12:00 am**: Working Lunch

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**Cadaver Workshop**

- **7:30 am**: POCUS Talk<br>Michael C. Haskins, MD
- **8:00 am**: POCUS Cadaver Work:<br>Regional Anesthesia for EM<br>1) Intercostal and Chest Wall<br>2) Upper Extremity<br>3) Lower Extremity<br>4) Abdominal Wall Blocks
- **12:00 am**: Working Lunch
Workshop Track 3
Peripheral Nerve Stimulation/Spine (PNS/Spine)

The field of peripheral nerve stimulation and regenerative medicine is rapidly changing, and this program will highlight these evolving fields. This workshop will emphasize ultrasound guided techniques in the use of peripheral nerve stimulators for pain patients and advanced ultrasound techniques in applying the newest technologies in regenerative medicine.

**DAY 1 • Friday, September 13**

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<td>7:00</td>
<td>BREAKFAST &amp; REGISTRATION</td>
<td>Zuckerman Research Center</td>
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<tr>
<td>8:00</td>
<td>Department of Medicine Grand Rounds</td>
<td>Auditorium</td>
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<tr>
<td>8:00</td>
<td>Opioids, Anesthesia and Metastasis, Where Do We Stand?</td>
<td>Room 105</td>
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<td>8:00</td>
<td>Amitabh Gulati, MD, FIPP, CIPS</td>
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<tr>
<td>8:30</td>
<td>Shoulder Joint and Nerves</td>
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<td>8:30</td>
<td>Elbow and Wrist, with Nerves</td>
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<td>Mark Friedrich &amp; Hulse, MD</td>
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<td>8:30</td>
<td>Hip Joint and Nerves</td>
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<td>David Spinner, DO</td>
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<td>8:30</td>
<td>Knee and Ankle with Nerves</td>
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<td>Mike Hitzazu, DO</td>
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<td>9:00</td>
<td>Live Model Workshop</td>
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<td>9:00</td>
<td>1) Shoulder Joint and Nerves</td>
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<td>9:00</td>
<td>2) Thoracic and Lumbosacral Spine</td>
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<td>9:00</td>
<td>3) Lower Extremity Targets</td>
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<tr>
<td>9:00</td>
<td>Jennifer Hah, MD, MS</td>
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<td>9:00</td>
<td>4) Technology Station</td>
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<td>9:00</td>
<td>David Spinner, DO</td>
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<td>10:00</td>
<td>BREAK</td>
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<td>10:00</td>
<td>Posterior Thoracic Spine with Nerves</td>
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<td>10:00</td>
<td>Elisha Sun, MD, FIPP, CIPS</td>
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<tr>
<td>10:00</td>
<td>Lumbar Spine with Nerves</td>
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<td>10:00</td>
<td>Anish Bhatia, MD, FRCA, FRCPC, CIPP, ASRA-FIPP, CIPS</td>
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<td>10:00</td>
<td>Sacrum and Muscles with Nerves</td>
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<td>10:00</td>
<td>Einar Ottestad, MD, FIPP, CIPS</td>
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<tr>
<td>10:00</td>
<td>Posterior Cervical Neck</td>
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<td>10:00</td>
<td>Michael G. Byas-Smith, MD</td>
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<tr>
<td>12:00</td>
<td>LUNCH</td>
<td>Room 136</td>
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<tr>
<td>1:00</td>
<td>Lectures</td>
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<tr>
<td>1:00</td>
<td>1) Physiology of Peripheral Nerve Stimulation</td>
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<tr>
<td>1:00</td>
<td>Jennifer Hah, MD, FIPP, CIPS</td>
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<tr>
<td>1:30</td>
<td>2) Indications and Targets</td>
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<tr>
<td>1:30</td>
<td>Einar Ottestad, MD, FIPP, CIPS</td>
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<tr>
<td>2:00</td>
<td>Outcomes and Research</td>
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<tr>
<td>2:00</td>
<td>Michael Golfeid, MD, PhD</td>
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<tr>
<td>2:30</td>
<td>Panel Discussion</td>
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<tr>
<td>2:30</td>
<td>Saref Jani, MD, MD</td>
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<tr>
<td>3:00</td>
<td>BREAK</td>
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<tr>
<td>3:00</td>
<td>Sacroiliac Joint Pathology and Fusion</td>
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<tr>
<td>3:00</td>
<td>Neil Matha, MD</td>
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<tr>
<td>3:40</td>
<td>New Advances for Spinal Stenosis</td>
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<tr>
<td>3:40</td>
<td>Endoscopic Treatment Options</td>
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<td>3:40</td>
<td>Ottestad, MD, FIPP, CIPS</td>
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<tr>
<td>4:00</td>
<td>Treatment for Ligamentum Flavum Hypertrophy</td>
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<td>4:00</td>
<td>Sayed E. Ghalouni, MD</td>
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<tr>
<td>4:20</td>
<td>Panel Discussion</td>
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<td>4:20</td>
<td>Einar Ottestad, MD, FIPP, CIPS</td>
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<td>Panel Discussion</td>
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<td>4:40</td>
<td>Keynote Speaker</td>
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<tr>
<td>5:00</td>
<td>Networking Reception</td>
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<tr>
<td>5:00</td>
<td>Josie Robertson Surgery Center</td>
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<tr>
<td>6:00</td>
<td>Room 105</td>
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<tr>
<td>6:00</td>
<td>1) Shoulder and Upper Extremity</td>
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<tr>
<td>6:00</td>
<td>Ofer Welisch, MD</td>
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<td>6:00</td>
<td>2) Thoracic and Lumbosacral Spine</td>
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<td>6:00</td>
<td>Einar Ottestad, MD, FIPP, CIPS</td>
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<td>3) Lower Extremity Targets</td>
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<td>6:00</td>
<td>Jennifer Hah, MD, FIPP, CIPS</td>
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<tr>
<td>6:00</td>
<td>4) Technology Station</td>
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<tr>
<td>6:00</td>
<td>David Spinner, DO</td>
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<tr>
<td>6:00</td>
<td>5) Sacroiliac Joint and Fusion</td>
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<td>6:00</td>
<td>Saref Jani, MD</td>
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<td>6:00</td>
<td>6) Minimally Invasive Lumbar Discectomy</td>
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<td>6:00</td>
<td>Sayed E. Ghalouni, MD</td>
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<tr>
<td>6:00</td>
<td>7) Interspinous Spacers</td>
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<tr>
<td>6:00</td>
<td>Jay M. Diet, MD</td>
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<tr>
<td>6:00</td>
<td>8) Endoscopy Neuroectomies</td>
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<tr>
<td>6:00</td>
<td>Ori Barzilai, MD</td>
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<td>Endoscopic Neuroectomies</td>
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<td>On Barzilai, MD</td>
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<td>9) Endoscopic Treatment Options</td>
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<td>On Barzilai, MD</td>
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<tr>
<td>6:00</td>
<td>10) Endoscopic Treatment Options</td>
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<td>On Barzilai, MD</td>
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**DAY 2 • Saturday, September 14**

**Cadaver Workshop**

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>7:00</td>
<td>BREAKFAST</td>
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<tr>
<td>7:30</td>
<td>Special Session</td>
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<td>8:00</td>
<td>Workshop Rotation I</td>
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<td>8:00</td>
<td>4) Technology Station</td>
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<td>8:00</td>
<td>David Spinner, DO</td>
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<tr>
<td>12:00</td>
<td>Working Lunch</td>
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<td>1:00</td>
<td>Demonstrations</td>
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<td>2:00</td>
<td>Workshop Rotation II</td>
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<td>2:00</td>
<td>Ori Barzilai, MD</td>
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**Day 1 is accredited by MSK.**

**Workshop Track 3**

**Peripheral Nerve Stimulation/Spine (PNS/Spine)**

The field of peripheral nerve stimulation and regenerative medicine is rapidly changing, and this program will highlight these evolving fields. This workshop will emphasize ultrasound guided techniques in the use of peripheral nerve stimulators for pain patients and advanced ultrasound techniques in applying the newest technologies in regenerative medicine.
Workshop Track 4  
**Musculoskeletal (MSK)/Regenerative Medicine**

This workshop track is an introduction into ultrasound training for musculoskeletal injuries and regenerative medicine. Advanced regenerative medicine techniques will be discussed in the second half of the workshop.

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**DAY 1 • Friday, September 13**

**Lecture Track (Main Conference)**

- 7:00 am BREAKFAST & REGISTRATION
- 8:00 am Opioids, Anesthesia and Metastasis, Where Do We Stand?  
  - Amitabh Gulati, MD, FIPP, CIPS
- 9:00 am Innovations in Oncology  
  - Michael A. Postow, MD
- 9:25 am Radiation Treatment: A Painful Double Edged Sword  
  - Kaiya V. Dharmarajan, MD
- 9:50 am Panel Discussion
- 10:00 am BREAK

**Neuroaxial Updates**

- 10:20 am Cordotomy: A New Horizon for a Classic Procedure  
  - Ilsy Lauber, MD
- 10:40 am Vertebral Augmentation for Oncologic Patients  
  - Eric Lin, MD
- 11:00 am Electrical Neuromodulation: Best Experience and Evidence in Oncology?  
  - Neil Mehra, MD
- 11:20 am Intrathecal Drug Delivery Panel: Ask the Experts  
  - Dawood Saeed, MD  
  - Shane E. Brogan, MD  
  - Neil Mehra, MD  
  - Michael G. Byas-Smith, MD
- 12:00 pm LUNCH

**Breast Cancer Tumor Board**

- 1:00 pm Breast Cancer: A Pain Perspective  
  - Elizabeth Comen, MD
- 1:20 pm PMP: An Algorithmic Approach to Treatment (pre-post op)  
  - Vinay Pathanath, MD

**1:40 pm** Plastic Surgery  
  - Robert J. Allen, Jr., MD
- 2:00 pm Functional Rehabilitation Pearls  
  - Theresa Gilles, MD
- 2:20 pm Updates on AIA and Complementary Treatment  
  - Jun J. Hsu, MD, MSCE
- 2:40 pm Panel Discussion
- 3:00 pm BREAK

**Focus on Prostate Cancer**

- 3:20 pm Update on Treatment Strategies and Surveillance  
  - Susan F. Smuin, MD, PhD
- 3:40 pm Treatment Related Pain Syndromes  
  - Nathan Ha (Wang), MD
- 4:00 pm Treatments for Metastatic Bone Disease  
  - Ernesto Santos, MD
- 4:20 pm Sacrococcygeal Oncologic Pain: An Algorithmic Approach to Treatment  
  - Arnon Lifchitz, MD
- 4:40 pm Panel
- 5:00 pm Keynote Speaker  
  - Kim Visser, MD, PhD, FIPP
- 6:00 pm Networking Reception  
  Attendees are invited to join the course faculty for a networking reception at Memorial Sloan Kettering’s Josie Robertson Surgery Center. Hors d’oeuvres and refreshments will be served

**Cadaver Workshop**

- 7:00 am BREAKFAST

**Special Session**

- 7:30 am Introduction to Pharmacotherapeutics for OA  
  - TBA
- 8:00 am Workshop Rotation I  
  1) Upper Extremity Joints (shoulder, elbow, wrist)  
  - TBA
  2) Upper Extremity Nerves and Muscles  
  - Matthew J. Pringle, MD  
  - Brian Mendoza Bruel, MD, MBA
- 9:00 am Workshop Rotation II  
  3) Lower Extremity Joints (hip, knee, ankle)  
  4) Lower Extremity Nerves and Muscles  
  - Mark Friedman B Hurdle, MD
- 10:00 am LUNCH

**WORKING LUNCH**

- 11:30 am CSF Kinetics, Complications and Advanced Drug Dynamics  
  - Amitabh Gulati, MD, FIPP, CIPS  
  - Anish S. Patel, MD, MBA  
  - Shane E. Brogan, MD  
  - Sanjeeet Narang, MD
- 12:00 pm WORKING LUNCH

**Special Session**

- 1:00 pm Advances in Botox  
  - TBA
- 2:00 pm Workshop Rotation II  
  5) Bone Marrow Aspirate  
  6) Round Table Regenerative Medicine Panels  
  7) Cervical and Thoracic Spine  
  8) Lumbar Spinal and Pelvic Musculature
- 3:00 pm Panel Discussion
- 3:30 pm WORKING LUNCH

**3:00 pm** **DAY 2 • Saturday, September 14**

**Lecture Track (Main Conference)**

- 7:00 am BREAKFAST

**Special Session**

- 7:30 am Introduction to Pharmacotherapeutics for OA  
  - TBA
- 8:00 am Workshop Rotation I  
  1) Upper Extremity Joints (shoulder, elbow, wrist)  
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- 3:00 pm Panel Discussion
- 3:30 pm WORKING LUNCH

**3:00 pm**
Symposium Fees

<table>
<thead>
<tr>
<th>Lecture Track: Main Conference (Fri.-Sat.)</th>
<th>Early*</th>
<th>General</th>
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<tbody>
<tr>
<td>Physicians (MDs, DOs)</td>
<td>$550</td>
<td>$600</td>
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<tr>
<td>Advanced Practice Providers &amp; Nurses</td>
<td>$250</td>
<td>$300</td>
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<tr>
<td>Residents &amp; Fellows</td>
<td>$100</td>
<td>$150</td>
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<tr>
<td>Industry Members**</td>
<td>$850</td>
<td>$900</td>
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Optional Add-on: Innovation & Research or APP Series

Workshop Track (Fri.-Sat.)

| Track 1: Cancer Pain Medicine – Physicians | $700  | $800 |
| Track 1: Cancer Pain Medicine – Residents & Fellows | $150  | $250 |
| Track 2: Perioperative/Emergency Medicine – Physicians | $700  | $800 |
| Track 2: Perioperative/Emergency Medicine – Residents & Fellows | $150  | $250 |
| Track 3: MSK/Regenerative Medicine – Physicians | $700  | $800 |
| Track 3: MSK/Regenerative Medicine – Residents & Fellows | $150  | $250 |
| Track 4: PNS/Spine – Physicians | $700  | $800 |
| Track 4: PNS/Spine – Residents & Fellows | $150  | $250 |

Optional Add-on: Innovation & Research or APP Series

REGISTER ONLINE:

mskcc.org/PainSymposium

Course registration includes continental breakfast, lunch, and refreshment breaks. Please contact cme@mskcc.org at least one week prior to the course if you have any special dietary requests or require any specific accommodations.

- Discount available to ICPS 2019 partners. Please email cme@mskcc.org for more information and a promotion code.
- MSK CME offers a 30% discounted rate for MSK Alumni, MSK Cancer Alliance and Cancer Care Partners. If you are a member of one of these groups, please contact cme@mskcc.org for more information.
- MSK employee registration is complimentary. However, you must complete course registration in order to attend this course. Please note that MSK employees interested in registering for the workshop track will need to sign up for the MSK waitlist (available through the registration site).

*Early registration expires July 13, 2019.
**Industry professionals may attend MSK CME activities for their own education. Marketing, sales, and promotion of products and services is strictly prohibited at MSK CME activities.

Contact

Memorial Sloan Kettering Cancer Center
Office of Continuing Medical Education
646-227-2025 cme@mskcc.org

Day 1 is accredited by Memorial Sloan Kettering Cancer Center and held at: Zuckerman Research Center
417 East 68th Street
New York, NY

Day 2 is accredited by Dannemiller and WAPMU and held at: New York Marriott Marquis
1535 Broadway
New York, NY

MSK has negotiated special rates and amenities at select hotels in Manhattan. For information on hotels in the vicinity of MSK with discounted rates, please visit: mskcc.org/cme

Accreditation

Day 1 Accreditation Statement
Memorial Sloan Kettering Cancer Center is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

AMA Credit Designation Statement
Memorial Sloan Kettering Cancer Center designates this live activity for a maximum of 8.25 AMA PRA Category 1 Credit™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The American Board of Anesthesiology® MOCA® Maintenance of Certification in Anesthesiology™ program and MOCA® are registered trademarks of The American Board of Anesthesiology®. This activity contributes to the CME component of the American Board of Anesthesiology’s redesigned Maintenance of Certification in Anesthesiology™ (MOCA®) program, known as MOCA 2.0™. Please consult the AB&A website, www.theABA.org, for a list of all MOCA 2.0 requirements. MOCA 2.0™ is a trademark of The American Board of Anesthesiology®. Max credits 8.25.

Faculty Disclosure

It is the policy of MSK to make every effort to insure balance, independence, objectivity, and scientific rigor in all continuing medical education activities which it provides as an ACCME accredited provider. In accordance with ACCME guidelines and standards, all faculty participating in an activity provided by MSK are expected to disclose any significant financial relationship(s) they have with the manufacturer(s) of any commercial product(s) and/or provider(s) of commercial services which are discussed by the faculty members in an educational presentation. As required by the ACCME, when an unlabeled use of a commercial product or an investigational use not yet approved for any purpose is discussed during an educational activity, MSK requires the speaker to disclose that the product is not labeled for the use under discussion or that the product is still investigational.

Day 2 Accreditation Statement
In support of improving patient care, this activity has been planned and implemented by Dannemiller and WAPMU. Dannemiller is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCMCE), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

Designation of Credit for Physicians
Dannemiller designates this live activity for a maximum of 9.50 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Non-Faculty Disclosure

The WAPMU and Dannemiller staff involved in the development of this activity has no financial relationships with commercial interests. To resolve identified/potential conflicts of interest, the educational content was fully reviewed by a physician member of the Dannemiller Clinical Content Review Committee who has no financial relationships with commercial interests. The resulting certified activity was found to provide educational content that is current, evidence based and commercially balanced.

Disclaimer

The content and views presented in this educational activity are those of the authors and do not necessarily reflect those of Dannemiller, MSKCC and WAPMU. This material is prepared based upon a review of multiple sources of information, but it is not exhaustive of the subject matter. Therefore, healthcare professionals and other individuals should review and consider other publications and materials on the subject matter before relying solely upon the information contained within this educational activity.

Off Label Statement

This educational activity may contain discussion of published and/or investigational uses of agents that are not indicated by FDA. The faculty has been asked to disclose this information when presented. The opinions expressed in the educational activity are those of the faculty. Please refer to the official prescribing information for each product for discussion of approved indications, contraindications, and warnings. Further attendees/participants should appraise the information presented critically and are encouraged to consult appropriate resources for any product or device mentioned in this program.

Evaluation and Credit

All attendees must complete the evaluation in order to receive a certificate of credit. (www.dannemiller.com/ICPS2019). The number of credits awarded will be based upon the hours you indicate you attended on the evaluation. After submitting the evaluation, a certificate will be issued via email. Credit is provided through November 1, 2019. No credit will be given after this date.