

ICPS 2019

INTERVENTIONAL CANCER PAIN SYMPOSIUM

SEPTEMBER 13-14, 2019
NEW YORK, NY

2nd Congress Featuring Cancer Pain and Perioperative Medicine Experts from Around the World



mskcc.org/PainSymposium



Memorial Sloan Kettering
Cancer Center

CALL FOR ABSTRACTS

MOCA[®] | MAINTENANCE OF CERTIFICATION IN
ANESTHESIOLOGY

IN PARTNERSHIP WITH



WORLD ACADEMY OF PAIN
MEDICINE ULTRASONOGRAPHY



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 an expanded experience in the fields of neurosurgery, rehabilitation, integrative medicine, supportive and palliative care, and interventional radiology for attendees. The advanced workshop will incorporate the ever-expanding role of neuromodulation in the treatment of the oncologic population. Additionally, a new emergency and perioperative medicine track will includes 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 cancer pain 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 Dannemiller and WAPMU and held at:

New York Marriott Marquis
535 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



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

Course Co-directors



Vinay Puttanniah, MD
 Director, Regional Anesthesia and Analgesia
 Memorial Sloan Kettering Cancer Center



Grant H. Chen, MD
 Memorial Sloan Kettering Cancer Center



Neel Mehta, MD
 Medical Director, Pain Medicine
 Weill-Cornell Pain Medicine Center

Invited Course Faculty

Ehtesham Baig, MSc, MD, FRCPC
 Toronto Western Hospital,
 University Health Network

Anuj Bhatia, MD, FRCA, FRCPC, CIPP, ASRA-PMUC FIPP
 Toronto Western Hospital,
 University Health Network

Michael G. Byas-Smith, MD
 Capital Caring

Shane E. Brogan, MD
 Huntsman Cancer Institute
 University of Utah

Brian Mendoza Bruel, MD, MBA
 Baylor University

Kavita V. Dharmarajan, MD
 Mount Sinai

David Flamer, MD FRCPC
 University of Toronto

Michael Gofeld, MD, PhD
 Silver Centre for Pain Care

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

Rajneesh Gulati, MD
 New York University

Jennifer Hah, MD, MS
 Stanford University

Stephen C. Haskins, MD
 Hospital for Special Surgery

Yasmine Hoydonckx, MD, FIPP
 University of Toronto
 Toronto Western Hospital

Corey W. Hunter, MD, FIPP
 Ainsworth Institute of Pain Management

Mark Friedrich B Hurdle, MD
 Mayo Clinic

Samir Jani, MD
 Garden State Medical Center

Dhanalakshmi Koyyalagunta, MD
 MD Anderson Cancer Center

Mike Mizrahi, DO
 Weill Cornell Medicine

Sanjeet Narang, MD
 Dana Farber

Einar Ottestad, MD, FIPP, CIPS
 Stanford University

Anish S. Patel, MD, MBA
 National Spine & Pain Centers
 AIS HealthCare

Vsevolod (Sev) Perelman, MD, MSc, CCFP(EM), FCFP (C), CHSE-A, CIPS
 Sinai Health System,
 Mount Sinai Hospital

MSK Course Faculty

Anoushka Afonso, MD
Robert J. Allen, Jr., MD
Aisha Baqai-Stern, MD
Ori Barzilai, MD
Vittoria Arslan-Carlon, MD
Keith Clement, MSN, RN, ANP-BC
Elizabeth Comen, MD
Anahita Dabo-Trubelja, MD
Mary Elizabeth Davis, MSN, RN, CHPN, AOCNS
Gary E. Deng, MD, PhD
Irina Dynov, MSN, RN, FNP-BC
Gregory Fischer, MD
Cosmin Gauran, MD
Theresa Gillis, MD
Danielle Gordon, PharmD, JD
Karen Holritz, NP

Mimi Hailemariam, BSN, RN, OCN
Lee P. Hingula, MD
Kasia Ibanez
Noelene Johnson, MSN, RN, AOCNS
Jessica Karanikolos, BSN, RN
Eric R. Kelhoffer, MD
Shelly Latte-Naor, MD
Ilya Laufer, MD
Kelly Leap, BSN, RN, OCN
Aron Legler, MD
Emily Lin, MD
Eric Lis, MD
Tim Malhotra, MD, MPH
Jun J. Mao, MD, MSCE
Sincere McMillan, DNP, RN, ANP-BC
Aida Milcetic, 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
Sana Shaikh, MD
Kara Singer, RN, MSN, ANP-C
Susan F. Slovin, MD, PhD
Grisha Syrkin, MD
Kathy Trotta, MSN, RN, ANP-C
Robert A. Veselis, 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

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 MODERATOR: Amitabh Gulati, MD, FIPP, CIPS	
9:00 AM	Innovations in Oncology Michael A. Postow, MD
9:25 AM	Radiation Treatment: A Pain Double Edged Sword Kavita V. Dharmarajan, MD
9:50 AM	Panel Discussion
10:00 AM	BREAK
Neuroaxial Updates MODERATOR: Neel Mehta, MD	
10:20 AM	Cordotomy: A New Horizon for a Classic Procedure Ilya Laufer, MD
10:40 AM	Vertebral Augmentation for Oncologic Patients Eric Lis, MD
11:00 AM	Electrical Neuromodulation: Best Experience and Evidence in Oncology? Neel Mehta, 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	PMPS: An Algorithmic Approach to Treatment (pre-post op) Vinay Puttanniah, MD

Zuckerman Research Center 417 East 68th Street	
1:40 PM	Plastic Surgery Robert J. Allen, Jr., MD
2:00 PM	Functional Rehabilitation Pearls Theresa Gillis, MD
2:20 PM	Updates on AIA and Complementary Treatment Jun J. Mao, MD, MSCE
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3:00 PM	BREAK
Focus on Prostate Cancer MODERATOR: Aron Legler, MD	
3:20 PM	Update on Treatment Strategies and Surveillance Susan F. Slovin, MD, PhD
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4:00 PM	Treatments for Metastatic Bone Disease Ernesto Santos, MD
4:20 PM	Sacroiliac Oncologic Pain: An Algorithmic Approach to Treatment Aron Legler, MD
4:40 PM	Panel
5:00 PM	Keynote Speaker Kris Vissers, 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.
Josie Robertson Surgery Center 1133 York Avenue 6:00-7:30 PM	

DAY 2 • Saturday, September 14

7:00 AM	BREAKFAST
Pharmacotherapy MODERATOR: Aron Legler, MD	
8:00 AM	Review of Atypical Opioids and Rotation Strategies Natalie Moryl (Khojainova), MD
8:20 AM	Opioid Irregularities and the Cancer Patient Dhanalakshmi Koyyalagunta, MD
8:40 AM	Cannabinoid's for Cancer Pain: Review of Treatment Strategies Sana Shaikh, MD
9:00 AM	Role of Ketamine for Oncologic Pain Vinita Singh, MD
9:20 AM	Update on Novel Cancer Pain Therapeutics Kris Vissers, MD, PhD, FIPP
9:40 AM	Panel
10:00 AM	BREAK
Interventional Paradigms MODERATOR: Aisha Baqai-Stern, MD	
10:20 AM	Nuances in Celiac Plexus Blockade Dhanalakshmi Koyyalagunta, MD
10:40 AM	Paradigms in Treatment of Abdominopelvic Tumors Aisha Baqai-Stern, MD
11:00 AM	Paradigms for Thoracic and Chest Wall Pain Aron Legler, MD
11:20 AM	Head and Neck Cancer Pain: Evidence Based Treatment Lee P. Hingula, MD
11:40 AM	Corticosteroids for Tumor Related Pain Vinita Singh, MD
12:00 PM	LUNCH
Rehabilitation Medicine MODERATOR: Lisa Marie Ruppert, MD	
1:00 PM	Role of Botulinum Toxin in Management of Pain Kasia Ibanez
1:20 PM	Incorporation of Spinal Bracing into the Treatment Plan Lisa Marie Ruppert, MD
1:40 PM	Encouraging Prehabilitation Before Oncologic Treatment Brian Mendoza Bruel, MD, MBA
2:00 PM	Exercise in Management of Cancer Related Fatigue Grisha Syrkin, MD
2:20 PM	Osteopathic Manipulation Therapy for the Cancer Patient Jonas M. Sokolof, DO
2:40 PM	Panel
3:00 PM	BREAK

New York Marriott Marquis
535 Broadway

Integrative Medicine and Psychology MODERATOR: Sana Shaikh, MD	
3:20 PM	Virtual Reality as a Pain Therapy Benjamin Record, MD
3:40 PM	Yoga and Pain Medicine (Lecture and Demo) Gary E. Deng, MD, PhD
4:00 PM	Acupuncture Jun J. Mao, MD, MSCE
4:20 PM	Massage Therapy Eva Pendleton
4:40 PM	Mindfulness Shelly Latte-Naor, MD
5:00 PM	Closing Amitabh Gulati, MD, FIPP, CIPS

Optional Breakout Sessions

APP Breakout Series	
8:00 AM	Supportive Care Principles Mary Elizabeth Davis, MSN, RN, CHPN, AOCNS
8:20 AM	Opioid Management in the Geriatric Patient Sincere McMillan, DNP, RN, ANP-BC
8:40 AM	Managing Substance Use Disorder for the Oncology Pain Patient Kara Singer, RN, MSN, ANP-C Noelene Johnson, MSN, RN, AOCNS
9:00 AM	Opioid Monitoring Strategies Mimi Hailemariam, Kelly Leap and Jessica Karanikolos
9:20 AM	Medical Marijuana-NY Rules and Regulations Danielle Gordon, PharmD, JD
9:40 AM	Panel Discussion
10:00 AM	BREAK
10:20 AM	Epidural Management for Pain Control Karen Holritz, NP Kathy Trotta, MSN, RN, ANP-C
10:40 AM	Incorporating Regional Anesthesia for Surgical Pain Emily Lin, MD
11:00 AM	Evaluating for Epidural Complications Tim Malhotra, MD, MPH Aida Milcetic, DNP, RN, FNP-BC
11:20 AM	Intrathecal Drug Delivery and Neuromodulation Keith Clement, MSN, RN, ANP-BC Irina Dynov, MSN, RN, FNP-BC
11:40 AM	Panel Discussion
12:00 PM	LUNCH

Innovations in Pain Medicine

1:00 - 5:00 PM
Additional details will be announced soon.



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

Zuckerman Research Center
417 East 68th Street

Lecture Track (Main Conference)

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Josie Robertson Surgery Center 1133 York Avenue 6:00-7:30 PM	

DAY 2 • Saturday, September 14

New York Marriott Marquis
535 Broadway

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 Sanjeet Narang, MD 4) Kyphoplasty and Radiofrequency Ablation Eric Lis, 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 Sanjeet 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



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

7:00 AM	BREAKFAST & REGISTRATION
Department of Medicine Grand Rounds  Auditorium	
8:00 AM	Opioids, Anesthesia and Metastasis, Where Do We Stand? Amitabh Gulati, MD, FIPP, CIPS
Lectures  Room 136	
MODERATOR: Anahita Dabo-Trubelja, MD	
9:00 AM	Anesthesia and “Chemobrain” Robert A. Veselis, MD
9:25 AM	Regional Anesthesia and Metastasis Vijaya Gottumukkala, MB, BS, MD, FRCA
9:50 AM	Car T Cell Treatment: Anesthesia and Critical Care Concerns Gregory Fischer, MD
10:00 AM	BREAK
MODERATOR: Eric R. Kelhoffer, MD	
10:20 AM	TIVA Vs. Volatiles: Effects of Anesthetics on Metastatic Disease Vijaya Gottumukkala, MB, BS, MD, FRCA
10:40 AM	ERAS: Evidence in Oncologic Outcomes Anoushka Afonso, MD
11:00 AM	Electrical Analgesia as Anesthetics Amitabh Gulati, MD, FIPP, CIPS
11:20 AM	Chronic Opioid Use After Cancer Surgery: Implications for Perioperative Management Jennifer Hah, MD, MS
11:40 AM	Panel Discussion
12:00 PM	LUNCH

Live Model Workshop  Room 105	
1:00 PM	Anterior Chest Wall Blocks Emily Lin, MD, MS
	Abdominal Sympathetic and Abd Wall Michael G. Byas-Smith, MD
	Anterior Neck and Brachial Plexus Amitabh Gulati, MD, FIPP, CIPS
	Posterior Neck and Cervical Spine Yasmine Hoydonckx, MD, FIPP
3:00 PM	BREAK
3:20 PM	Thoracic Spine, Paravertebral and Intercostal Ehtesham Baig, MSc, MD, FRCPC
	Lumbosacral Spine and Pudendal David Flamer, MD FRCPC
	Lower Extremity Nerves TBA
	Upper Extremity and Shoulder Nerves Jennifer Hah, MD, MS
5:00 PM	Keynote Speaker Kris Vissers, MD, PhD, FIPP  Auditorium
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.
	 Josie Robertson Surgery Center 1133 York Avenue 6:00-7:30 PM

DAY 2 • Saturday, September 14

New York Marriott Marquis
535 Broadway

7:00 AM	BREAKFAST
Cadaver Workshop	
Special Sessions	
7:30 AM	POCUS Talk Stephen C. Haskins, MD
	Focused EM Talk Vsevolod (Sev) Perelman, MD, MSc, CCFP(EM), FCFP (C), CHSE-A, CIPS
8:00 AM	POCUS Cadaver Work:
	1) POCUS - Heart Anahita Dabo-Trubelja, MD
	2) POCUS - Lung Stephen C. Haskins, MD
	3) POCUS - Abdomen Cosmin Gauran, MD
	4) POCUS - Vascular Cosmin Gauran, 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 Sanjeet Narang, MD
1:00 PM	Demonstrations
1:30 PM	Suturing Station
2:00 PM	Advanced Regional Anesthesia
	1) Thoracic Chest Wall with Tube Placement
	2) Lower Exrtremity with Peripheral Nerve Stimulation
	3) Upper Extremity with Peripheral Nerve Stimulation
	4) Abdominal Wall Blocks
	Difficult Airway Tract (EM and Anesthesia):
	Difficult Airway Station - Simulator Alessia Pedoto, MD Eric Kelhoffer, MD
	Difficult Airway Station - Tracheostomy/Jet Rajneesh Gulati, MD
	Difficult Airway Station - Lung Isolation Alessia Pedoto, MD
	Difficult Airway Station - Video Assisted
6:00 PM	ADJOURN



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

7:00 AM	BREAKFAST & REGISTRATION	
	Department of Medicine Grand Rounds	Auditorium
8:00 AM	Opioids, Anesthesia and Metastasis, Where Do We Stand? Amitabh Gulati, MD, FIPP, CIPS	
	Live Model Workshop	Room 105
9:00	Shoulder Joint and Nerves TBA	
	Elbow and Wrist, with Nerves Mark Friedrich B Hurdle, MD	
	Hip Joint and Nerves David Spinner, DO	
	Knee and Ankle with Nerves Mike Mizrahi, DO	
10:00 AM	BREAK	
	Posterior Thoracic Spine with Nerves Ehtesham Baig, MSc, MD, FRCPC	
	Lumbar Spine with Nerves Anuj Bhatia, MD, FRCA, FRCPC, CIPP, ASRA-PMUC FIPP	
	Sacrum and Muscles with Nerves Einar Ottestad, MD, FIPP, CIPS	
	Posterior Cervical Neck Michael G. Byas-Smith, MD	
12:00 PM	LUNCH	
	Lectures	Room 136
1:00 PM	Physiology of Peripheral Nerve Stimulation Jennifer Hah, MD, MS	
1:30 PM	Indications and Targets Einar Ottestad, MD, FIPP, CIPS	



Zuckerman Research Center
417 East 68th Street

2:00 PM	Outcomes and Research Michael Gofeld, MD, PhD	
2:30 PM	Panel Discussion	
3:00 PM	BREAK	
3:20 PM	Sacroiliac Joint Pathology and Fusion Samir Jani, MD	
3:40 PM	New Advances for Spinal Stenosis Neel Mehta, MD	
4:00 PM	Treatments for Ligamentum Flavum Hypertrophy Sayed E. Wahezi, MD	
4:20 PM	Endoscopic Treatment Options Ori Barzilai, MD	
4:40 PM	Panel Discussion	
5:00 PM	Keynote Speaker Kris Vissers, MD, PhD, FIPP	Auditorium
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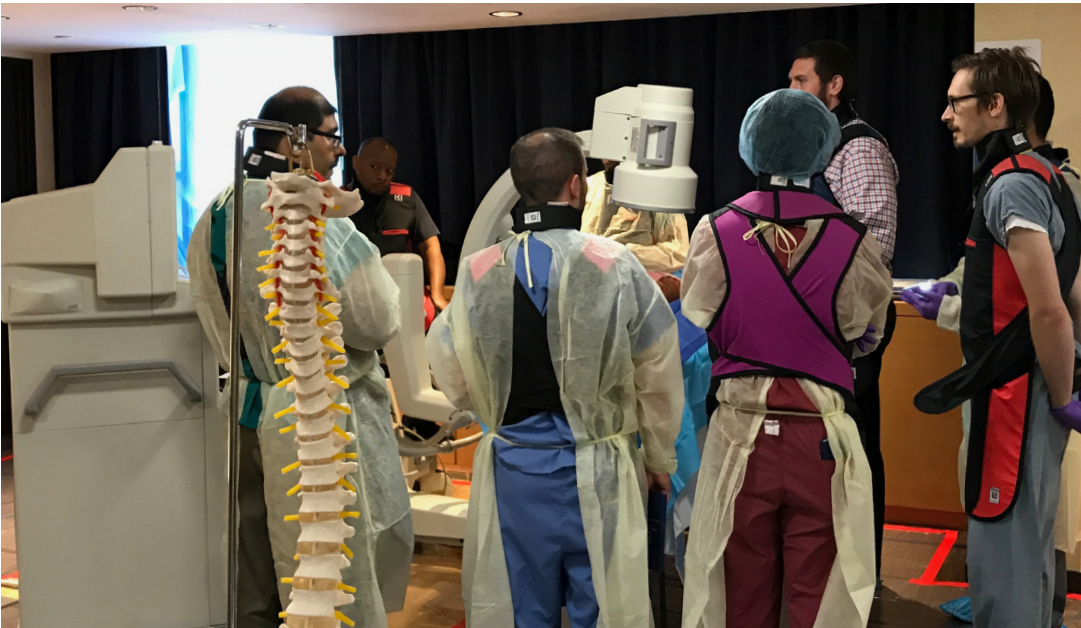
DAY 2 • Saturday, September 14

New York Marriott Marquis
535 Broadway



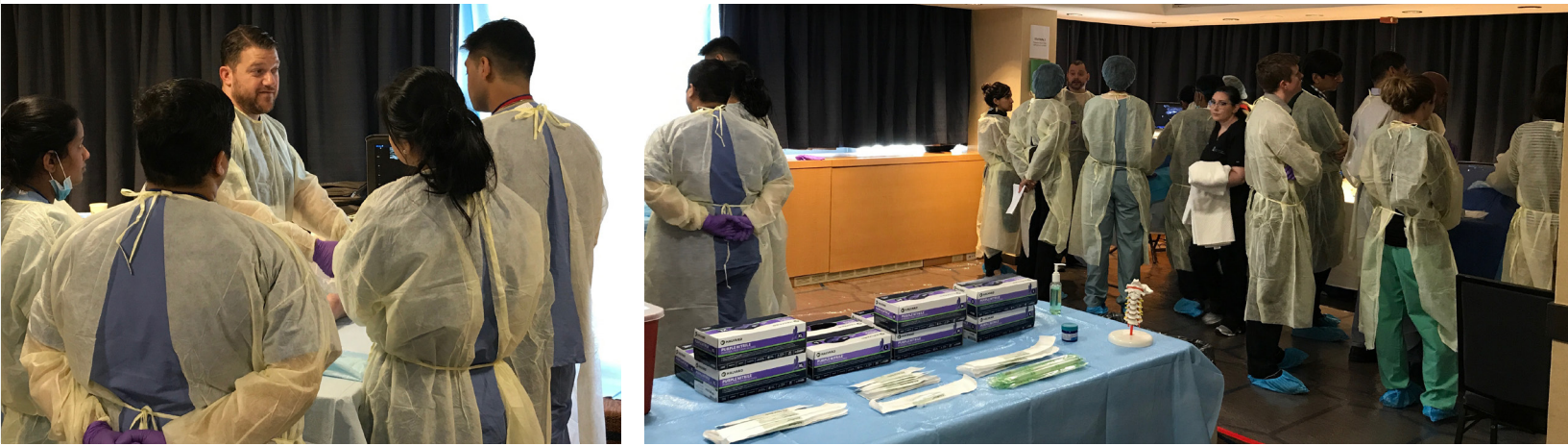
Cadaver Workshop

7:00 AM	BREAKFAST
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7:30 AM	TBA TBA
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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 Sanjeet Narang, MD
1:00 PM	Demonstrations
2:00 PM	Workshop Rotation II 5) Sacroiliac Joint and Fusion Samir Jani, MD 6) Minimally Invasive Lumbar Discectomy Sayed E. Wahezi, MD 7) Interspinous Spacers Jay M. Shah, MD Corey W. Hunter, MD, FIPP Dawood Sayed, MD 8) Endoscopy Neuroectomies Ori Barzilai, MD
6:00 PM	ADJOURN



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.



DAY 1 • Friday, September 13

Zuckerman Research Center
417 East 68th Street

Lecture Track (Main Conference)

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DAY 2 • Saturday, September 14

New York Marriott Marquis
535 Broadway

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 Mike Mizrahi, DO 3) Lower Extremity Joints (hip, knee, ankle) Matthew J. Pingree, MD Brian Mendoza Bruel, MD, MBA 4) Lower Extremity Nerves and Muscles Mark Friedrich B Hurdle, 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 Sanjeet Narang, MD
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) Lumbosacral Spine and Pelvic Musculature
6:00 PM	ADJOURN



Symposium Fees

Lecture Track: Main Conference (Fri.-Sat.)	Early*	General
Physicians (MDs, DOs)	\$550	\$600
Advanced Practice Providers & Nurses	\$250	\$300
Residents & Fellows	\$100	\$150
Industry Members**	\$850	\$900
Optional Add-on: Innovation & Research or APP Series	--	--

Workshop Track (Fri.-Sat.)	Early*	General
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

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
P: **646-227-2025** E: cme@mskcc.org



*IN PARTNERSHIP WITH



Symposium Location



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
535 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 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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Day 2 Accreditation Statement
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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.