

New York & New Jersey Pain Medicine Symposium 2019

Evolving Advanced Pain Therapies

November 7-10, 2019 • The Hyatt Regency Jersey City, New Jersey

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PROGRAM BOOK

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Dear Colleagues,

On behalf of the Chairman, Sudhir Diwan, MD, and Course Directors, Scott Woska, MD and Christopher Gharibo, MD and the New York and New Jersey Societies of Interventional Pain Physicians (NYSIPP & NJSIPP), we would like to thank you for joining us at the New York and New Jersey Pain Medicine Symposium 2019: Evolving Advanced Pain Therapies at the Hyatt Regency Jersey City, New Jersey.

The NYSIPP & NJSIPP Pain Medicine Symposium was established in 2011 with the primary objectives of educating health care professionals to promote the development and practice of safe, high quality, and cost effective interventional pain management techniques for the diagnosis and treatment of pain and related disorders, and to insure patient access to these interventions.

Our scientific program provides state-of-the-art information on advanced pain management techniques, pharmacology, neurostimulation, ultrasound, regenerative medicine, vertebral augmentation, spinal stenosis and minimally invasive decompression and minimally invasive sacroiliac fusion. We have also included sessions on international pain practice by world renowned pain experts, cutting edge spinal procedures (including endoscopic discectomy and lysis of epidural adhesions).

This course offer a full day hands on cadaver and ultrasound course, incorporating didactic lectures with the hands-on practice for improved technique and patient outcomes for interventional procedures presented by nationally and internationally renowned experts. Additionally, we have focused workshops for residents and fellows, and for nurse practitioners and physician assistants. On Sunday, November 10, we have a full day breakout session on the safe utilization of opioid medication specifically geared for primary care and conventional medical management physicians who require specific training in the prescribing and utilization of opioids and controlled substances. We are thrilled how this program continues to grow and evolve based on feedback from our attendees and experts in interventional pain management.

Congratulations to our 2019 award winners: Richard Rosenthal, MD, Lifetime Achievement Award Winner, Christopher Gharibo, MD, Outstanding Pain Physician Award Winner and Ricardo Plancarte-Sanchez, MD, International Scholar Award Winner. These physicians inspire us every day and we are thrilled to be able to honor and celebrate with them at the gala award dinner on Friday night, November 8, 2019. We invite and encourage everyone (attendees, honored guests and industry supporters) to join us to recognize these three gentleman for their contributions in interventional pain.

Industry Partners and technical exhibits are an important part of our meeting's success and benefit both the attendees and the companies who choose to participate.

As one of the largest regional Interventional Pain Meeting on East Coast, we appreciate the opportunity to work, grow and learn with all of you.

Thank you for joining us for our conference this year and we hope to continue to work with you many years to come.

Sincerely,



Sudhir Diwan, MD
CEO, NYSIPP, Chairman



Scott Woska, MD
Course Director



Christopher Gharibo, MD
Course Director

CONGRATULATIONS to our 2019 AWARD WINNERS

Please join all of us in recognizing
these 3 amazing physicians on
Friday, November 8, 2019, 7:00-10:00 PM
Manhattan Ballroom



Richard Rosenthal, MD
*2019 Lifetime Achievement
Award Winner*



Christopher Gharibo, MD
*2019 Outstanding Pain
Physician Award Winner*



Ricardo Plancarte-Sanchez, MD
*2019 International
Scholar Award Winner*

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Indications for Use: The Boston Scientific Spinal Cord Stimulator Systems are indicated as an aid in the management of chronic intractable pain of the trunk and/or limbs including unilateral or bilateral pain associated with the following: failed back surgery syndrome, Complex Regional Pain Syndrome (CRPS) Types I and II, intractable low back pain and leg pain. Associated conditions and etiologies may be: radicular pain syndrome, radiculopathy resulting in pain secondary to failed back syndrome or herniated disc, epistaxis, fibrosis, degenerative disc disease, herniated disc pain refractory to conservative and surgical interventions, ankylosing spondylitis, multiple back surgeries. **Contraindications, warnings, precautions, side effects:** The SCS Systems are contraindicated for patients who: are unable to operate the SCS System, have failed trial stimulation by failing to receive effective pain relief, are poor surgical risks, or are pregnant. Refer to the Instructions for Use provided with the SCS System or ControlVue Pain relief for potential adverse effects, warnings, and precautions prior to using this product. **Caution:** U.S. Federal law restricts this device to sale by or on the order of a physician.

The Cosman Radiofrequency Generators, associated Radiofrequency Lesion Probes and RF Canulae are indicated for use in procedures to create radiofrequency lesions for the treatment of pain or for lesioning nerve tissue for functional neuromodulation. The Cosman RF Injection Electrodes are used for percutaneous nerve blocks with local anesthetic solution or for radiofrequency lesioning of peripheral nerve tissue only. Refer to the Instructions for Use provided with Cosman generators, electrodes and canulae for potential adverse effects, warnings and precautions prior to using these products. **Caution:** U.S. Federal law restricts this device to sale by or on the order of a physician.

The Superion® Indirect Decompression System (IDS) is indicated to treat patients suffering from pain, numbness, and/or cramping in the legs (bilateral, intermittent) associated with a diagnosis of moderate lumbar spinal stenosis. The Superion® Indirect Decompression System is indicated for those patients with impaired physical function who experience relief in flexion from symptoms of leg/buttock/leg pain, with or without back pain, who have undergone at least 6 months of non-operative treatment. The Superion® Indirect Decompression System may be implanted at one or two adjacent lumbar levels in patients in whom operative treatment is indicated at no more than two levels, from L1 to L5. **Contraindications, warnings, precautions, side effects:** The Superion® Indirect Decompression System (IDS) is contraindicated for patients who: have spinal anatomy that prevent implantation of the device or cause the device to be unstable in situ, degenerative spondylolisthesis greater than grade I, Cauda equina syndrome, or prior disc resection or fusion at the index level. Refer to the Instructions for Use provided on www.vertiflex.com for additional indications for use, contraindications, precautions and potential adverse effects, warnings, and precautions prior to using this product. **Caution:** U.S. Federal law restricts this device to sale by or on the order of a physician.



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NY/NJ PAIN MEDICINE SYMPOSIUM 2019 EXECUTIVE BOARD

Program Chair: Sudhir Diwan, MD

Course Directors: Scott Woska, MD and Christopher Gharibo, MD

Course Co-Directors: Jeffrey Petersohn, MD, Edward Rubin, MD

FELLOWS AND RESIDENTS WORKSHOP

Workshop Directors: Neel Mehta, MD and Andrew Kaufman, MD

PA AND NP WORKSHOP

Workshop Director: Gerry DeGregoris, MD and Casey Grillo

OPIATE COURSE

Course Directors: Brian Durkin, MD and Vinay Puttanniah, MD

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Christopher Gharibo, MD

Karina Gritsenko, MD

Yury Khelemsky, MD

Scott Woska, MD

ULTRASOUND WORKSHOP DIRECTORS

Steve Aydin, MD and George Chang-Chien, MD

SCIENTIFIC PROGRAM COMMITTEE

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Brian Durkin, MD

Neel Mehta, MD

Karina Gritsenko, MD

Andrew Kaufman, MD

Dipan Patel, MD

Saurabh Dang, MD

OFFICE OF ADMINISTRATION

Program Chair: Sudhir Diwan, MD

Program COO: Edward Rubin, MD

Administrative Assistant: Cathy Pitbladdo

Pain Symposium coordinators: Sandra Vamos and Michelle Byers

MEETING SECRETARY



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GENERAL INFORMATION

VENUE AND DATES

Hyatt Regency Jersey City

2 Exchange Place, Jersey City, NJ 07302, USA

Fellows Workshop	Thursday, November 7, 7:50-12:00 PM	Harborside Room
PA/NP Workshop	Thursday, November 7, 7:50-12:00 PM	Palisades Room
SYMPOSIUM	Thursday-Saturday, November 7-9	Hudson Ballroom
Opiate Course	Sunday, November 10, 8:00-3:30 PM	Harborside Room
Ultrasound Workshop	Sunday, November 10, 8:30-12:30 PM	Hudson Ballroom
Regenerative Medicine Course	Sunday, November 10, 8:30-2:45 PM	Palisades Room
Cadaver Workshop	Sunday, November 10, 8:00-12:30 PM	Mount Sinai*
SPR Station	Sunday, November 10, 8:30-12:30 PM	Holland Room I.

* Center for Anatomy and Functional Morphology, Icahn School of Medicine at Mount Sinai, One Gustave L. Levy Place, New York, NY 10029

INTERNET ACCESS

Free of charge WiFi service is available at the venue. Please look for the code at the Registration Desk.

REGISTRATION DESK OPENING HOURS AT HYATT REGENCY JERSEY CITY

Thursday, November 7 th	7:00 AM-6:00 PM
Friday, November 8 th	7:00 AM-6:00 PM
Saturday, November 9 th	7:00 AM-5:00 PM
Sunday, November 10 th	7:30 AM-12:00 PM

COMMERCIAL EXHIBITION

The exhibition will be opened from Thursday, November 7th until Saturday, November 9 at the Hyatt Regency Jersey City. Delegates will have the opportunity to meet representatives of pharmaceutical and diagnostic equipment companies at their booths to discuss new developments and receive up-to-date product information.

MEMBER Symposium NYSIPP/NJSIPP and PainCast	\$800	PA/NP Workshop and Opiate Course	\$500
NON MEMBER Symposium	\$1000	International Delegates Symposium	\$400
Fellows/Residents Workshop and Symposium	\$125	International Fellows/Residents Symposium	\$150
Fellows Opiate Course	\$75	Opiate Course	\$350
PA/NP Workshop	\$300	Industry Registration	\$850
PA/NP Workshop and Symposium	\$450	Extra Exhibitor Badge	\$250

COFFEE BREAKS

Coffee, tea and snacks will be served in the Foyer for all coffee breaks regarding the program.

BREKAFAST AND LUNCH

Refer to the detailed program.

SPECIAL SOCIAL EVENTS

IntraVu Reception

Thursday, November 7, 2019, 5:40-6:40 PM, Harborside Room

Sponsored by Bronze Sponsor: IntraVu

Fellows Reception

Thursday, November 7, 2019, 5:40-7:40 PM, Manhattan Ballroom

Appetizers and drinks sponsored by Diamond Sponsor: Medtronic

Gala Dinner and Award Ceremony

Friday, November 8, 2019, Manhattan Ballroom

5:30-7:00 PM Cocktail Hour, *Sponsored by Bronze Sponsor: Stimwave*

7:00-10:00 PM Gala Dinner and Award Celebration

Faculty Dinner (by invitation only)

Saturday, November 9, 2019, 7:00 PM, The Atelier Ballroom*

Meeting at 6:45 PM Hyatt Regency Jersey City lobby

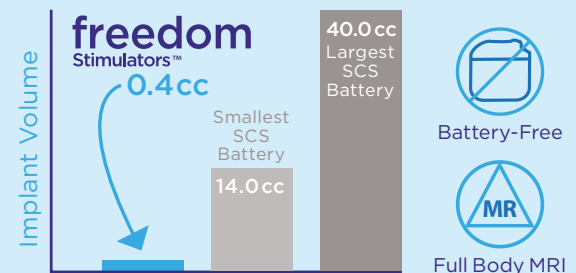
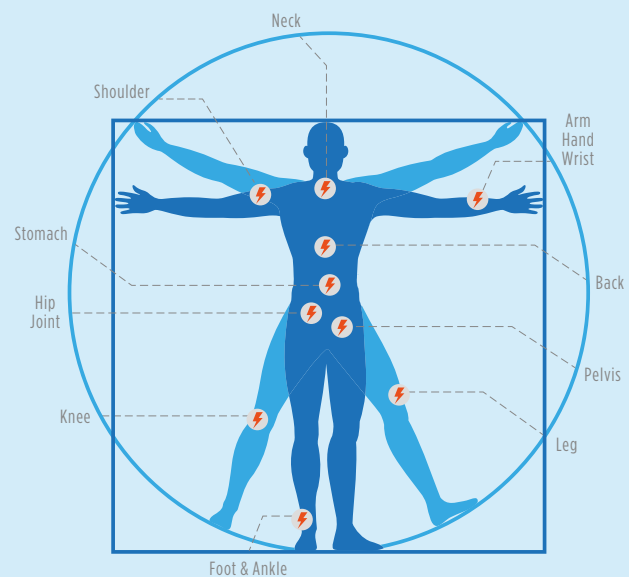
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LOST AND FOUND

Any found item may be turned into the Registration Desk. Enquiries about lost items can be directed to the Registration Desk also.

MOBILE PHONES

Please respect the speakers and presenters by ensuring that your mobile phone is switched off during the scientific sessions.

SMARTEVENTS® CONFERENCE APP

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TECHNICAL INFORMATION FOR SPEAKERS

The organizers kindly ask you to bring your presentations with you on a USB memory stick. Your presentation must be uploaded to the computers in the meeting room with the help of the assisting technicians responsible for the dedicated room. The presentation uploading deadline is the last coffee break prior to your scheduled presentation. Please note that double slide projection and personal laptops cannot be used.

PROGRAM CHANGES

The organizers cannot assume liability for any changes in the scientific program. Organizers will do their best to keep the participants up to date and possible changes in the program will be immediately communicated.

POSTERS TECHNICAL INFORMATION

E-Poster Kiosks will be exhibited in the Hudson Foyer area.

Poster viewing:

Friday, November 8th 10:10-10:30 AM / 3:20-3:40 PM

Saturday, November 9th 10:10-10:30 AM / 3:10-3:30 PM

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Viewpoints From Government Agencies

Links to pain management guidelines and recommendations, including the CDC Guideline for Prescribing Opioids for Chronic Pain



Organizations for Pain Professionals

Learn about the societies that focus on the medical practice of pain management and connect with professional organizations that advocate for patients and professionals

This program is brought to you by Collegium Pharmaceutical, Inc. Collegium is committed to being the leader in responsible pain management.

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1. Nalley, et al. Journal of Pain Research. 2018;11:2943 – 2948. | 2. Nalley, et al. Clinical Interventions in Aging. 2017;12:1409 – 1417.

Indications for Use: The Superior® Indirect Decompression System (IDS) is indicated to treat patients suffering from pain, numbness, and/or cramping in the legs (neurogenic intermittent claudication) secondary to a diagnosis of moderate lumbar spinal stenosis. The Superior® Interspinous Spacer is indicated for those patients with impaired physical function who experience relief in flexion from symptoms of leg/buttock/groin pain, with or without back pain, who have undergone at least 6 months of non-operative treatment. The Superior® Interspinous Spacer may be implanted at one or two adjacent lumbar levels in patients in whom operative treatment is indicated at no more than two levels, from L1 to L5. Contraindications, warnings, precautions, side effects. The Superior® Indirect Decompression System (IDS) is contraindicated for patients who: have spinal anatomy that prevent implantation of the device or cause the device to be unstable in situ (i.e., degenerative spondylolisthesis greater than grade 1), Cauda equina syndrome, or prior decompression or fusion at the index level. Refer to the Instructions for Use provided on www.vertiflex.com for additional Indications for Use, contraindications information and potential adverse effects, warnings, and precautions prior to using this product. Caution: U.S. Federal law restricts this device to sale by or on the order of a physician.



FELLOWS/ RESIDENTS WORKSHOP

THURSDAY, NOVEMBER 7, 2019

FELLOWS / RESIDENTS WORKSHOP

Harborside I+II Room

Program Chair: Sudhir Diwan, MD

Workshop Director: Neel Mehta, MD and Andrew Kaufman, MD

7:50-8:00 AM **Welcome Remarks**
Sudhir Diwan, MD, Jeffrey Petersohn, MD

SESSION THEME: MAKING OF THE BEST PAIN PHYSICIAN (8:00-9:40 AM)

Moderator: Neel Mehta, MD

8:00-8:20 AM **World Class Fellowship Training of a pain physician**
Miles Day, MD

8:20-8:40 AM **The flaws in training in the Academic Programs**
Christopher Gilligan, MD

8:40-9:00 AM **Private Practice Beyond Fellowship**
Jonathan Carlson, MD

9:00-9:15 AM **Building and expanding scope of IPM practice**
Michael Yang, MD

9:15-9:30 AM **Ethical Practice, Stark Law, Anti-Kickbacks, and Safe Harbor**
John Morrone, Esq.

9:30-9:45 AM **Getting Involved with NYSIPP/NJSIPP and ASIPP**
Yu Chiu, MD

9:45-10:00 AM **Mentorship during and after Fellowship**
Neel Mehta, MD

10:00-10:20 AM **Coffee break**

SESSION THEME: FINISHED THE FELLOWSHIP: NOW WHAT? (10:20-12:00 AM)

Moderator: Jeffrey Petersohn, MD

- 10:20-10:40 AM **Learning novel interventional pain procedures after Fellowship training**
Timothy Deer, MD
- 10:40-11:00 AM **Getting Involved with Clinical Studies and Publications**
Leonardo Kapural, MD
- 11:00-11:20 AM **Contract Negotiations – Opportunities and Pitfalls**
Jennifer Kirschenbaum, Esq.
- 11:20-11:40 AM **Conflicts of Interests while working with Industries**
Andrew Kaufman, MD
- 11:40-12:00 PM **Looking forward to a successful career**
Jeffrey Petersohn, MD

12:00-1:00 PM **Industry Sponsored Fellows Program Lunch** **Manhattan Ballroom**
Sponsored by Silver Sponsor: Legally Mine
Ease your PAIN: Stop Lawsuits, Reduce Taxes and Protect your License
Steve Comer, MD
No CME Credit Hours Available for this Session

1:00-5:40 PM **Join the Main Session in the Hudson Ballroom**

5:40-7:40 PM **Fellows, Residents, PA/NP Networking and Presentation** **Manhattan Ballroom**
Keys to Success
Dr. Manish Patel, DO
Appetizers and drinks sponsored by Diamond Sponsor: Medtronic
No CME credit hours available for this session

PA/NP WORKSHOP

THURSDAY, NOVEMBER 7, 2019

PA/NP WORKSHOP

Palisades Room

Workshop Directors: Gerry DeGregoris, MD and Casey Grillo

7:50-8:00 AM **Welcome Remarks**
Sudhir Diwan, MD, Edward Rubin, MD

FIRST SESSION: PERIOPERATIVE PAIN MANAGEMENT (8:00-9:45 AM)

Moderator: Gerry DeGregoris, MD

8:00-8:20 AM **Opioid Crisis: Challenging time for political leaders**
Mayor Steven Fulop, Jersey City and Paul Bellan-Boyer, Director of the Division of Injury Prevention

8:20-8:40 AM **CDC guidelines for opioids prescriptions that mid-levels should know**
Emily Davis, NP

8:40-8:55 AM **Acute Pain vs. Chronic Pain**
Asya Gutman, PA

8:55-9:10 AM **Perioperative Suboxone and High Dose Opiates**
Teddy Theodorakis, NP

9:10-9:30 AM **Managing post-operative incisions**
Ashley Comer, NP

9:30-9:45 AM **Multimodal analgesia**
Gerry DeGregoris, MD

9:45-10:00 AM **Coffee break**

SECOND SESSION: NON-OPIOIDS OPTIONS FOR CHRONIC PAIN CONTROL (10:00-12:00 AM)

Moderator: Edward Rubin, MD

- | | |
|----------------|---|
| 10:00-10:15 AM | Management of Intrathecal pumps by Mid-levels
Marina Perazzo, PA |
| 10:15-10:30 AM | Medical Management for Neuropathic Pain
Erica Bartoloni, PA-C |
| 10:30-10:45 AM | Medical Marijuana and Opioids
Sana Shaikh, MD |
| 10:45-11:00 AM | Patient education for Neuromodulation Therapies
Casey Grillo, NP |
| 11:00-11:15 AM | Role of Mid-levels in In-Patient Pain management
Deirdre O'Flaherty, NP |
| 11:15-11:30 AM | Role of Mid-levels in Private Pain Practice
Edward Rubin, MD |
| 11:30-11:45 AM | Alternative and Integrative Treatment Options
Siobhan Mangan, PA-C |
| 11:45-12:00 PM | Pain Crisis in ER: You are on call!
Sheena Chainani, PA-C |

12:00-1:00 PM	Industry Sponsored Lunch Sponsored by Silver Sponsor: Legally Mine Ease your PAIN: Stop Lawsuits, Reduce Taxes and Protect your License Steve Comer, MD No CME Credit Hours Available for this Session	Manhattan Ballroom
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1:00-5:40 PM **Join the Main Session**

5:40-7:40 PM	Fellows, Residents, PA/NP Networking and Presentation Keys to Success Dr. Manish Patel, DO Appetizers and drinks sponsored by Diamond Sponsor: Medtronic No CME credit hours available for this session	Manhattan Ballroom
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SYMPOSIUM PROGRAM / DAY 1

THURSDAY, NOVEMBER 7, 2019

SYMPOSIUM PROGRAM / DAY 1

Hudson IV+V+VI Room

Program Chair: Sudhir Diwan, MD

Course Directors: Scott Woska, MD and Dr. Christopher Gharibo, MD

Course Co-Directors: Edward Rubin, MD and Jeffrey Petersohn, MD

12:50-1:00 PM **Welcome Remarks**
Sudhir Diwan, MD, Scott Woska, MD, Christopher Gharibo, MD

SESSION ONE: ULTRASOUND IN INTERVENTIONAL PAIN MANAGEMENT (1:00-3:10 PM)

Moderator: Kenneth Candido, MD

1:00-1:20 PM **Ultrasound Therapeutics: What is on the Horizon**
Amit Gulati, MD

1:20-1:40 PM **Sonographic Anatomy: Challenges and Solutions**
Charles de Oliveira, MD

1:40-1:55 PM **Controversies in Ultrasound Guidance with Complex MSK Procedures**
George Chang-Chien, MD

1:55-2:10 PM **Ultrasound vs. Fluoroscopy for Head and Neck Procedures: Safety Reinvented**
Agnes Stogicza, MD

2:10-2:25 PM **Ultrasound in Sports injuries: A 'sideline' physician's perspective**
Robert Kinne, MD

2:25-2:40 PM **Pediatric ultrasound: acute pain blocks**
Veronica Carullo, MD

2:40-3:10 PM **Keynote: The Future of "Bundled" Ultrasound and Fluoroscopy guided Therapies**
Kenneth Candido, MD

3:10-3:30 PM **Coffee Break**

SESSION TWO: ADVANCED REGENERATIVE THERAPIES (3:30-5:40 PM)

Moderator: Doug Spiel, MD

- | | |
|--------------|---|
| 3:30-3:50 PM | Acellular regenerative therapy
Doug Spiel, MD |
| 3:50-4:10 PM | Allogenic Cell Therapy: Pros and Cons
Richard Rosenthal, MD |
| 4:10-4:30 PM | Stem Cell Augmentation of Intervertebral discs
Aaron Calodney, MD |
| 4:30-4:50 PM | Intra-articular vs. Subchondral injections of PRP and Stem cells
Steve Aydin, MD |
| 4:50-5:10 PM | Targeted Cells Delivery under Direct Visualization with Needle Scope
Eric Lee, MD |
| 5:10-5:30 PM | Regenerative Medicine – Beyond PRP and Stem cells
Sudhir Diwan, MD |
| 5:30-5:40 PM | Interactive discussion
All faculty |

5:40-7:00 PM	IntraVu Reception at Harborside Room Sponsored by Bronze Sponsor: IntraVu Speaker: Steven Struhl, MD No CME credit hours available for this session
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SYMPOSIUM PROGRAM / DAY 2

FRIDAY, NOVEMBER 8, 2019

7:00-7:50 AM	Industry Sponsored Breakfast Symposium Sponsored by Relievant The Intracept® Procedure for the Relief of Chronic Vertebrogenic Low Back Pain Ray Baker, MD, CMO, Relievant Medsystems, Inc. Building Your Intracept® Practice Brian Durkin, DO, Pain Institute of Long Island No CME Credit Hours Available for this Session	Harborside Room
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SYMPOSIUM PROGRAM / DAY 2

Hudson IV+V+VI Room

7:50-8:00 AM	Welcome Remarks Sudhir Diwan, MD, Scott Woska, MD, Christopher Gharibo, MD
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SESSION THREE: ADVANCED NEUROMODULATION IN 21ST CENTURY (8:00-10:10 AM)

Moderator: Robert Levy, MD

8:00-8:15 AM	Subthreshold Stimulation at various KH frequencies Adnan Al-Kaisy, MD
8:15-8:30 AM	SCS: Predicting Waveforms, lead placement and Tolerance Steven Falowski, MD
8:30-8:45 AM	Programming the IPG in 21st Century: High Dosing to Combination Therapies Youseff Josephson, MD
8:45-9:00 AM	Rethinking Paresthesia based SCS with closed loop Corey Hunter, MD
9:00-9:15 AM	Targeting DRG: Axial to Abdominal pain! Kenneth B. Chapman, MD
9:15-9:40 AM	Q & A and Interactive discussion lead by Dr. Levy All faculty
9:40-10:10 AM	Keynote: Current state of the Neuromodulation: Innovation explosion Robert Levy, MD

10:10-10:30 AM	Coffee Break with Exhibitors
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Scientific Poster Viewing

SESSION FOUR: CUTTING EDGE SPINAL PROCEDURES (10:30-12:30 PM)

Moderator: Scott Woska, MD

- 10:30-10:50 AM **Provocative Discography: Clinical implications revisited**
Scott Woska, MD
- 10:50-11:10 AM **Updates on Transforaminal Endoscopic Discectomy**
Sukdeb Datta, MD
- 11:10-11:30 AM **Vertebral augmentation: Assessment of Evidence**
Dawood Sayed, MD
- 11:30-11:50 AM **Vertebrogenic pain: Radiofrequency of basivertebral nerve**
Brian Durkin, MD
- 11:50-12:00 AM **Q & A and Interactive discussion lead by Dr. Woska**
All Faculty
- 12:00-12:30 PM **Keynote: Changing the trend of managing discogenic pain without surgery**
Doug Beall, MD

12:30-1:30 PM **Industry Sponsored Lunch** **Manhattan Ballroom**
Sponsored by Platinum Sponsor: Nevro
The Next Generation Platform from Nevro:
A New System for Maximizing Versatility in SCS
Presenters: Kasra Amirdelfan, MD, Sean Li, MD, Dawood Sayed, MD,
Peter Pryzbylkowski, MD
No CME Credit Hours Available for this Session

SESSION FIVE: ADVANCED PAIN PRACTICE IN 21ST CENTURY (1:30-3:20 PM)

Moderator: Sudhir Diwan, MD

- 1:30-1:50 PM **Cervical and Lumbar DRG Pulsed Radiofrequency**
Fabricio Assis, MD
- 1:50-2:10 PM **Splanchnic Nerve Blocks: Transdiscal approach**
Ricardo Plancarte Sanchez, MD
- 2:10-2:30 PM **Percutaneous Lysis of Epidural Adhesions: The Science and the Evidence**
Ira Fox, MD
- 2:30-2:50 PM **The Brain and the Heart: Transmission of Ischemic Pain**
Philippe Mavrocordatos, MD
- 2:50-3:10 PM **Motor Cortex Stimulation for Chronic Pain**
Monique Steegers, MD, FIPP
- 3:10-3:20 PM **Q & A and Interactive discussion lead by Dr. Diwan**
All faculty

3:20-3:40 PM **Coffee Break with Exhibitors**

Scientific Poster Viewing

SESSION SIX: DECADES OF DEGENERATIVE SPINE (3:40-5:40 PM)**Moderator:** Timothy Deer, MD

3:40-4:00 PM	Evidence based practice of RFA for spinal pain (Cervical, thoracic, lumbar) Stan Golovac, MD
4:00-4:20 PM	Sacroiliac pain: Continued Quest for Minimally Invasive Options Sudhir Diwan, MD
4:20-4:40 PM	Algorithms for Treatment of Spinal Stenosis – MIST guidelines Vincent Galan, MD
4:40-5:00 PM	Minimally invasive Decompression of spinal stenosis: Direct vs. Indirect Decompression Harold Cordner, MD
5:00-5:10 PM	Q & A and Interactive discussion lead by Dr. Deer All Faculty
5:10-5:40 PM	Keynote: Quest to ameliorate failed back surgery syndrome Timothy Deer, MD
5:40-6:10 PM	Meeting of the State Societies NYSIPP Meeting Palisades Room NJSIPP Meeting Harborside room

5:40-7:00 PM	Cocktail Hour Sponsored by Bronze Sponsor – Stimwave	Manhattan Ballroom
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7:00-10:00 PM Gala Dinner and Award Presentation

Master of Ceremony: Jeffrey Petersohn, MD

International Scholar Award

Richard Rosenthal, MD

Presenter: Sudhir Diwan, MD
Caroline Hernandez, MD**Outstanding Pain Physician Award**

Christopher Gharibo, MD

Presenter: Scott Woska, MD
Steve Aydin, MD**Lifetime Achievement Award**

Ricardo Plancarte-Sanchez, MD (Mexico)

Presenter: Aaron Calodney, MD
Robert Kinne, MD**Vote of Thanks:** Edward Rubin, MD**The Celebration:** Sing and dance with the “The Docs of Rock” band
and with Doctor Woska!

SYMPOSIUM PROGRAM / DAY 3

SATURDAY, NOVEMBER 9, 2019

7:00-8:00 AM	Industry Sponsored Breakfast Symposium Sponsored by Silver sponsor: Collegium Pharma Managing Chronic Pain With Abuse-Deterrent Extended-Release Opioids: Clinical Evidence and Implications Gerard DeGregoris III, MD Diplomate of The American Board of Anesthesiology Advanced Certification in Pain Management No CME Credit Hours Available for this Session	Harborside Room
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SYMPOSIUM PROGRAM / DAY 3

Hudson IV+V+VI Room

SESSION SEVEN: OPIOIDS – STILL INTEGRAL PART OF PAIN THERAPY? (8:00-10:10 AM)

Moderator: Christopher Gharibo, MD

8:00-8:20 AM	Medical Marijuana: Are we ready to jump on Band Wagon to replace opioids Orlando Florete, MD	
8:20-8:40 AM	History of Opioid Epidemic in America Kenneth Candido, MD	
8:40-9:00 AM	Let's be realistic! We need opioids!! Samyadev Datta, MD	
9:00-9:20 AM	The Culprits of exploding Opioids Crisis Christopher Gharibo, MD	
9:20-9:40 AM	Intrathecal Therapy: Curtailing Opioids Crisis Oscar de Leon Cassasola, MD	
9:40-10:10 AM	Keynote: ASIPP for the Survival of Interventional Pain: Guidelines to guiding lights Ramsin Benyamin, MD	

10:10-10:30 AM **Coffee Break with Exhibitors**

Bioness Product Theater – Live Scan Bioness patient

**Bioness Booth
Exhibit hall**

Lead by: Youssef Josephson, MD

Scientific Poster Viewing

SESSION EIGHT: RESIDENTS/FELLOWS SESSION AND ABSTRACT PRESENTATION (10:30-12:30 PM)

Moderator: Miles Day, MD

- 10:30-11:15 AM **Top Three Abstract Presentations**
Scientific Committee: Yury Khelemsky, MD, Vinay Puttanniah, MD, Miles Day, MD
- 11:15-11:30 AM **Overview of Abstract by Moderator and Prize Presentation**
Miles Day, MD

- 11:30-12:30 AM **Keynote lectures**
Moderator: Sudhir Diwan, MD
- 11:30-12:00 AM **Novel Targets for Neuromodulation: Glial cells**
Ricardo Vallejo, MD, PhD
- 12:00-12:30 PM **Complex spinal procedures: Navigating safety**
Gabor B. Racz, MD

- 12:30-1:30 PM **Industry Sponsored Lunch** **Manhattan Ballroom**
Sponsored By Gold Sponsor: Boston Scientific
Expanding your Treatment Options
Presenters: Sudhir Diwan, MD, James North, MD, Youssef Josephson, DO
No CME Credit Hours Available for this Session

SESSION NINE: CHALLENGES AND SOLUTIONS (1:30-3:10 PM)

Moderator: Edward Rubin, MD

- 1:30-1:55 PM **Thoracic pain: Challenges and solutions**
Paulo Renato Fonseca, MD
- 1:55-2:20 PM **Epidural steroids: Science of Particulate vs. Non-particulate**
Ricardo Buenaventura, MD
- 2:20-2:45 PM **Chronicification of Pain**
Jesse Lipnick, MD
- 2:45-3:10 PM **3 decades of CRPS: What did we learn?**
Semih Gungor, MD

- 3:20-3:40 PM **Coffee Break with Exhibitors**

Scientific Poster Viewing

SESSION TEN: PERIPHERAL NERVES: CHANGING PARADIGM (3:30-5:20 PM)

Moderator: Konstantin Slavin, MD

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|--------------|---|
| 3:30-3:45 PM | RFA of peripheral nerves of joints
Jeffrey Petersohn, MD |
| 3:45-4:00 PM | Many options for PNS: Algorithmic approach to select the best device
Sean Li, MD |
| 4:00-4:15 PM | Often Overlooked Entrapment Neuropathies
Andrea Trescot, MD |
| 4:15-4:30 PM | Wireless Peripheral Neuromodulation: The Science and the Evidence
Rick Weiner, MD |
| 4:30-4:50 PM | Q & A and Interactive panel discussion lead by Dr. Slavin
All faculty |
| 4:50-5:20 PM | Keynote: Peripheral nerves the Safe Harbor:
Radiofrequency to Neuromodulation
Konstantin Slavin, MD |

7:00-10:00 PM	Faculty Dinner by invitation only
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OPIATE COURSE

SUNDAY, NOVEMBER 10, 2019

OPIATE COURSE

Harborside Room

7:45-8:00 AM **Welcome Remarks**
Sudhir Diwan, MD, Scott Woska, MD, Christopher Gharibo, MD

GOOD MEDICINE (8:00-10:00 AM)

Moderator: Vinay Puttanniah, MD

8:00-8:25 AM **Pharmacology of opioids, side effects and overdose**
Vinay Puttanniah, MD

8:25-8:50 AM **Opioids in chronic pain: A “gold standard” analgesic**
Naum Shaparin, MD

8:50-9:15 AM **Epidural and Intrathecal opioids**
Abhilasha Solanki, MD

9:15-9:40 AM **Opioid prescriptions practice: ASIPP /CDC guidelines**
Hans Hansen, MD

9:40-10:00 AM **Interactive panel discussion and Q&A**
All faculty

10:00-10:30 AM **Coffee Break**

BAD MEDICINE (10:30-12:30 PM)

Moderator: Neel Mehta, MD

10:30-10:55 AM **Long acting vs. short acting and tamperproof preparations**
Christopher Gharibo, MD

10:55-11:20 AM **Difficult patient on chronic opioid therapy**
Amaresh Vydyanathan, MD

11:20-11:45 AM **Addiction, Tolerance and physical dependency**
Hans Hansen, MD

11:45-12:10 PM **Monitoring and Documentation for Prescription Practice**
Neel Mehta, MD

12:10-12:30 PM **Interactive panel discussion and Q & A**
All faculty

12:30-1:30 PM **Lunch**

UGLY MEDICINE (1:30-3:30 PM)

Moderator: Brian Durkin, DO

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|--------------|--|
| 1:30-1:50 PM | Legal consequences, DEA monitoring and “red flags”
Brian Durkin, DO |
| 1:50-2:10 PM | Pain Management without opioids:
Integrative medicine to injection procedures
Ruchi Sharma, MD |
| 2:10-2:30 PM | Dangerous cocktail: Opioids + Alcohol + Benzodiazepine
Jason Kreiner, MD |
| 2:30-2:50 PM | Opioids Crisis: Drug diversion, abuse and deaths
Samyadev Datta, MD |
| 2:50-3:10 PM | Medical Marijuana and Opioids: Deadly Crossroads?
Sana Shaikh, MD |
| 3:10-3:30 PM | Interactive panel discussion and Q & A
All faculty |

3:30 PM	Thank you: Meeting Adjourns Sudhir Diwan, MD, Scott Woska, MD, Christopher Gharibo, MD
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WORKSHOPS

SUNDAY, NOVEMBER 10, 2019

CADAVER WORKSHOP (8:00-12:30 PM)

Mount Sinai

Workshop directors

Sudhir Diwan, MD
Christopher Gharibo, MD
Karina Gritsenko, MD
Yury Khelemsky, MD
Scott Woska, MD

Faculty

Doug Beall, MD	Sean Li, MD
Kenneth B. Chapman, MD	Mike Mizrahi, DO
Saurabh Dang, MD	Dipan Patel, MD
Miles Day, MD	Gabor B. Racz, MD
Sudhir Diwan, MD	Dawood Sayed, MD
Rhanda Jafar, MD	Harry Sukumaran, MD
Youseff Josephson, MD	Andrea Trescot, MD
Leonardo Kapural, MD, PhD	Scott Woska, MD

Station 1 **Advanced Anatomical Lead Placement for 10kHz Spinal Cord Stimulation**

Faculty: Sean Li, MD, Scott Woska, MD

Station 2 **Advanced Techniques in Anatomical Based Spinal Cord Stimulation and Surgical Implantation**

Faculty: Doug Beall, MD, Harry Sukumaran, MD

Station 3 **Minimally Invasive procedures for Lumbar Spinal Stenosis**

Faculty: Leonardo Kapural, MD, PhD, Dawood Sayed, MD

Station 4 **Peripheral Nerve Stimulation**

Faculty: Dipan Patel, MD, Saurabh Dang, MD, Mike Mizrahi, DO

Station 5 **Peripheral Nerve Stimulation**

Faculty: Andrea Trescot, MD, Rhanda Jafar, MD

Station 6 **Site Specific Catheter Injections**

Faculty: Gabor Racz, MD, Miles Day, MD,

Station 7 **Spinal Cord Stimulation for Low Back or Lower Extremity Pain**

Faculty: Kenneth B. Chapman, MD, Youseff Josephson, MD

USEFUL INFORMATION

Mount Sinai address: Center for Anatomy and Functional Morphology,
Icahn School of Medicine at Mount Sinai, One Gustave L. Levy Place, New York, NY 10029

Bus transfer: Bus transfer is provided to Mount Sinai and back to the hotel. Bus will leave at 6.30 AM from Hyatt Regency Jersey City. Meeting point at the hotel lobby at 6:15 AM.

If coming independently please plan on using the entrance for the Addenburgh Building off of 5th Avenue and 101st Street. Attendees should not arrive before 7:30 AM or after 8:15 AM.

SUNDAY, NOVEMBER 10, 2019

ULTRASOUND WORKSHOP (8:30-12:00 PM)

Hudson Ballroom

Workshop directors

George Chang-Chien, DO
Steve M. Aydin, DO

Faculty

Steve M. Aydin, DO	Brian Durkin, DO
George Chang-Chien, MD	Amit Gulati, MD
Grant H. Chen, MD	Charles de Oliveira, MD
Gerry DeGregoris, MD	Agnes Stogicza, MD

Program

8:30-11:00 AM **Session 1-4**
11:00-12:00 PM **Session 5 – Free Rotation Time/Practice**

Station 1 **Hip, Knee, Ankle Joints** Amit Gulati, MD and Grant H. Chen, MD

Station 2 **Lumbar spine, Pelvis, Sacrum, and SI joints** Charles de Oliveira, MD and Steve M. Aydin, DO

Station 3 **Shoulder (SA, GH, Biceps, AC), and Cervical Spine**
Agnes Stogicza, MD and George Chang-Chien, MD

Station 4 **Elbow, Hand, and Wrist** Gerry DeGregoris, MD and Brian Durkin, DO

REGENERATIVE MEDICINE COURSE (8:30-2:45 PM)

Palisades Room

No CME Credit Hours Available for this Session

8:30-9:00 AM **Expanding Your Regenerative Medicine Practice Utilizing Ultrasound**
George Chang-Chien, MD

9:00-9:30 AM **Merging Science With The Business Of Regenerative Medicine-The Secret to Successful Profit Margins and Healthy Growth**
Christy Davies, MBA

9:30-10:00 AM **Bone Marrow Aspiration – A Clinical Perspective and Review**
Richard Rosenthal, MD

10:00-10:15 AM **Break**

10:15-10:50 AM **Exosomes How You Can Use them To Expand Your Practice – A Clinical Perspective**
Tim Moseley, PhD

11:00-11:45 AM **The Controversies and Future of Regenerative Medicine**
Sudhir Diwan, MD

11:45-12:45 PM **Lunch break**

12:45-2:45 PM **Hands on Course on Regenerative Medicine**

SPR STATION (8:30-12:30 PM)

Holland Room 1

Gel Model – Ultrasound Peripheral Nerve Stimulation

No CME Credit Hours Available for this Session

LEGALLY MINE PRESENTS

TAX REDUCTION, LICENSE PROTECTION
& LAWSUIT PREVENTION

THURSDAY

NOVEMBER 21ST

12:50 - 1:50 PM

Grand Ballroom Salon 3
Lunch Will Be Served



Come visit
us at our
booth to
learn more!

Come learn how to build legal barriers that will protect you and your license, AND help you save money on taxes. Let us teach you how to bridge the gap between healthcare and the law!

A small investment of your time and attention will pay a lifetime of dividends and keep more of the money you earn right where it belongs—IN YOUR POCKET.

COMPANY PROFILES

Abbott

For more than 125 years, we've brought technologies to the world—in nutrition, diagnostics, medical devices and branded generic pharmaceuticals—that create more possibilities for more people at all stages of life. St. Jude Medical is now part of Abbott, expanding our impact across more areas of care. www.abbott.com

Acutis Diagnostics

Acutis Diagnostics is a company in motion, one with an original approach to evolving pain management. Our expertise in clinical toxicology, our pursuit of innovative technologies and processes are continually pushed to enhance clinicians' judgments, and so especially enable the practitioners of pain management make better decisions, and achieve better outcomes.

Apex

APEX Biologix is a complete resource for regenerative medicine providing physicians specialized training, comprehensive business services, and premier supplies to improve their practices and enhance the lives of the patients they treat.

AIS

AIS™ HealthCare provides sterile, patient-specific intrathecal pain pump medications for the management of chronic pain. AIS 503A pharmacy services are supported with Advanced Nursing Solutions, providing physicians and patients with in-home pump refills, and a patient-centric Care Coordination Center that assists patients in achieving self-management goals and optimal wellness.

Avanos

Avanos is a medical device company focused on delivering clinically superior breakthrough solutions that will help patients get back to the things that matter. Headquartered in Alpharetta, Georgia, Avanos is committed to creating the next generation of innovative healthcare solutions which will address our most important healthcare needs, such as reducing the use of opioids while helping patients move from surgery to recovery. Avanos develops, manufactures, and markets its recognized brands in more than 90 countries.

Aventic

It is a FDA approved medical device using NASA technology and LED. It stimulates the blood circulation throughout the body and sends micro currents to stimulate the brain to help control pain. It is also used to block pain receptors. The device also is a stimuli muscle activity and regain control of the muscle . The light that we use proven to produce collagen . It is a home use device that anyone can use for a non surgical treatments. Our company mission is to increase the self esteem and confidence of our clientele, by using the latest scientific advancements in medical technology.

Basic Home Infusion

Basic Home Infusion specializes in providing pharmacy and nursing services for intrathecal pumps nationwide for chronic pain and spasticity. Over 30 years of unmatched experience and reputation providing patient specific medications, at-home pump refills, dose titrations and MRI support, with excellence in safety, quality, service and access to optimize therapeutic outcomes and improve quality of life.

BDSI

BioDelivery Sciences (BDSI) is a rapidly growing commercial-stage specialty pharmaceutical company dedicated to patients living with chronic conditions. BDSI is utilizing its novel and proprietary BioErodible MucoAdhesive (BEMA®) technology and other drug delivery technologies to develop and commercialize new applications of proven therapies aimed at addressing important unmet medical needs.

Bioness

StimRouter is a peripheral nerve stimulation device that reduces pain by delivering gentle electrical pulses directly to a target peripheral nerve to disrupt pain signals. StimRouter is implanted via a minimally-invasive, outpatient procedure and is approved to treat chronic pain of peripheral nerve origin, excluding pain in the craniofacial region.

Boston Scientific

Boston Scientific is dedicated to providing physicians with a variety of solutions to manage patients suffering from chronic pain. Our growing portfolio of pain management product offerings include leading technologies in spinal cord stimulation, minimally invasive indirect decompression and radiofrequency ablation.

CareStream America

The premier partner for regenerative and pain solutions including APIC-A2M with FACT, Exosomes, PRFM, 100% Pure Amniotic Fluid, Non-Centrifuge Bone Marrow Aspirate and Body Jet Eco for water-jet assisted micronized fat transfer. Our innovative Pro-Nox is a 50/50 Nitrous Oxide and Oxygen analgesic for relief of procedure pain and anxiety without opioids. Visit our website for our complete portfolio.

Clint Pharmaceuticals

Established in 1987, Clint Pharmaceuticals has become an industry-leading provider of high quality FDA-approved injectable pharmaceuticals. CPI is not a compounding pharmacy. We also distribute interventional pain management procedural trays and needles, orthopedic soft goods, and radiation protection apparel to physician offices and medical clinics throughout the United States.

Collegium

Collegium is a specialty pharmaceutical company committed to being the leader in responsible pain management. For nearly two decades, Collegium has been focused on developing and commercializing new medicines for pain management that reflects its Core Values and commitment to people suffering from pain, providers, and its communities. The result of those efforts is a portfolio of meaningfully differentiated medications to treat moderate to severe pain.

CornerLoc

CornerLoc™ SI Joint Stabilization & Fusion System has been designed to offer physicians a simple, safe, and definitive solution to debilitating sacroiliac joint pain. Our state of the art cortical graft, together with our DBM sponge, is effective in achieving optimal stabilization and fusion potential.

Doctor.com

Doctor.com is the only complete platform built to help healthcare organizations deliver a better customer experience at every step of the patient journey. The company's industry-leading technology seamlessly integrates provider data warehousing, web-wide listings management, reputation insights, universal online scheduling, and patient communications.

elliquence

elliquence, LLC manufactures patented Radiowave technology with innovative devices for orthopedic, neurosurgery, and pain management applications. Surgi-Max® Plus permits precision tissue preservation, non-adherent bipolar effects and surgical versatility. Disc-FX® Discectomy System, Trigger-Flex® steerable bipolar handpiece and a full line of endoscopic spine instruments are examples of the surgical accessories offered for use with the Surgi-Max Plus energy source. elliquence focuses on sparing healthy tissue while precisely treating pathology.

EmpathIQ

EmpathIQ is a software company dedicated to making your practice known in your community. We manage your online presence so that new patients can find you, learn about your services and give them the confidence to visit your office. Online reviews will make or break the future of your business, trust EmpathIQ with your online presence.

EpiMed

Epimed is a development, design, manufacturing and distribution company focusing on standard and unique solutions for physicians. Our products include Site Specific Catheters, RX-2 Epidural Needles, Coudé® Blunt Nerve Block Needles, full line of R-F™ Products, and Radiation Safety. Epimed is excited to provide the PainBlocker™ Cryo line of Cryoanalgesia.

Flowonix

Flowonix Medical Inc. is committed to working with healthcare professionals to enhance patients' lives through targeted drug delivery innovation and therapy advancements. Founded in 2005, our work aims to provide physicians an optimal solution for the treatment of numerous neurological disorders, helping their patients improve their overall quality of living.

Horizon Therapeutics

Horizon is focused on researching, developing and commercializing medicines that address critical needs for people impacted by rare and rheumatic diseases. Our pipeline is purposeful: we apply scientific expertise and courage to bring clinically meaningful therapies to patients. We believe science and compassion must work together to transform lives. For more information on how we go to incredible lengths to impact lives, please visit www.horizontherapeutics.com, follow us @HorizonNews on Twitter, like us on Facebook or explore career opportunities on LinkedIn.

Hudson Regional Hospital

Hudson Regional Hospital is a community hospital located in Secaucus, NJ. We are fully In-Network with all major insurance carriers. Hudson Regional Hospital's mission is to build a healthier community by providing exceptional care for all Tri-State Area residents through significant investments in new technology, facility improvements, and acquiring the top doctors and surgeons. We have recently established the Institute of Robotic Surgery which gives patients access to the most advanced robotic technologies right in Hudson County. The hospital has purchased the Da Vinci XI Robotic System, Mako robotic system, ExcelsiusGPS, and the Mazor Robotic Guidance System.

Hudson Regional Hospital's ER team provides around-the-clock comprehensive emergency care services that include short wait times, On-Site EMS/Ambulance, 24/7 Access to Specialty Physicians and a multi-lingual staff.

IntraVu

IntraVu® Inc. gives physicians a big opportunity with the IntraVu Scope, a minimally evasive technology, that allows for direct visualization of interior spaces with an exceptionally small size, high resolution, single use advanced imaging system.

Kimera

Kimera Labs Inc. is a biotech laboratory that develops perinatal exosome products for research and therapeutic purposes. Since 2012, Kimera Labs, a regenerative medicine-focused biotechnology company founded by a published scientist, has developed therapies that harness the power of stem cells, without the use of the cells themselves. By providing regenerative cellular signals under the control of messenger and micro RNA, we believe it is possible to instantiate healing processes that can benefit patients of any age.

Legally Mine

Our structured asset protection plan curtails frivolous lawsuits against medical professionals. Our program also significantly reduces our clients tax liability. By attending our course attendees will be educated in: How to keep their name and license off of the NPDB Protecting their earning power. Being able to utilize proven tax strategies Learning how to protect not only their business but their homes and everything they have worked hard for.

Lenco Diagnostic Labs

Lenco Diagnostic Laboratories, Inc. is one of New York and New Jersey's premier pain management testing laboratories offering both essential and comprehensive pain management toxicology. Our tests and reports can be customized to meet your practice's specific needs, and we can interface with all current Electronic Medical Record programs.

Medtronic

As a global leader in medical technology, services and solutions, Medtronic improves the lives and health of millions of people each year. We use our deep clinical, therapeutic, and economic expertise to address the complex challenges faced by healthcare systems today. Let's take healthcare Further, Together. Learn more at Medtronic.com

MLMIC

MLMIC is the largest writer of medical professional liability insurance in the State of New York. MLMIC insures more than 13,000 physicians, 3,000 dentists, dozens of hospitals, and thousands of other healthcare professionals and facilities. In 2018, MLMIC was acquired by Berkshire Hathaway, launching a new era as New York's premier medical professional liability carrier.

National Functional Evaluations

Functional evaluations provides state-of-the-art, objective, computerized reports that track musculoskeletal function and ensure that patients are achieving the proper treatment goals.

The reports are an excellent means of quantifying the effectiveness and efficacy of treatment. Test results are utilized to determine pharmacological efficacy, necessity for interventional procedures, and MMI determination. We are committed to providing top-tier Functional Evaluation testing, while maintaining unmatched quality of care. We'll bring our services wherever you are as a convenience for physicians and patients.

Nevro

Nevro is a global medical device company focused on providing innovative therapies that improve the quality of life of patients suffering from chronic pain. Nevro's Senza® spinal cord stimulation system is an evidence-based neuromodulation platform developed for treating chronic pain and the only SCS system that delivers Nevro's proprietary HF10TM therapy.

Nuvectora

Nuvectora® is a neuromodulation company committed to helping physicians improve the lives of people with chronic conditions. Nuvectora's Algovita® SCS system is approved in the United States and Europe for the treatment of chronic intractable pain of the trunk and/or limbs. To learn more about Nuvectora and our technologies, visit www.nuvectoramed.com.

PainTeq

PainTEQ™ is a Tampa based medical device manufacturer that focuses on providing breakthrough, FDA approved products that help patients eliminate chronic pain and provide a better quality of life. With our featured product, LinQ™ for SI Joint Dysfunction we deliver an effective, minimally invasive solution for both patients and physicians.

Pentec

Pentec Health, Inc. is a Joint Commission accredited specialty pharmacy and infusion provider that specializes in providing comprehensive care for patients with implanted pumps treating severe pain and/or spasticity. Our proprietary electronic communications platform ensures all disciplines remain informed and focused on improving patient outcomes.

Pfizer

At Pfizer, we apply science and our global resources to bring therapies to people that extend and significantly improve their lives through the discovery, development and manufacture of healthcare products. Our global portfolio includes medicines and vaccines, as well as many of the world's best-known consumer healthcare products. We work across developed and emerging markets to advance wellness, prevention, treatments and cures that challenge the most feared diseases of our time. We collaborate with healthcare providers, governments and local communities to support and expand access to reliable, affordable healthcare around the world.

Quality Laboratory Services

Quality Laboratory Services is a state-of-the-art clinical laboratory licensed in NY, NJ, FL, PA, MD and NM. We are proud to announce we provide serum and toxicology testing in all 50 states. QLS is located in the heart of Brooklyn and is easy accessible from Queens, Brooklyn, Manhattan, Bronx, Nassau and Suffolk counties, as well as from Westchester and New Jersey.

Redefine Healthcare

Redefine Healthcare is NJ's premier provider of comprehensive, multidisciplinary orthopedic pain and spine services. Our business model is based upon building partnerships with industry-leading physician practices to accelerate the value of each practice through organic growth of the patient base combined with operational efficiencies leading to increased profitability.

Relievant

Relievant Medsystems, a medical device company focused on solutions for chronic low back pain (CLBP), developed the Intracept Procedure – a minimally invasive procedure targeting the basivertebral nerve for the relief of CLBP. The Intracept Procedure is supported with two Level I randomized controlled trials demonstrating durable relief, clinical significance and consistent outcomes in subjects with CLBP. The Intracept System is FDA 510(k) cleared and commercially available in the US.

Remede MD

Remede,MD is a full spectrum hemp extract, scientifically formulated to contain a number of cannabinoids, including CBD. Our coated tablets are distributed by physicians ONLY. Everything we do is led by science. This means taking the best scientific practices and marrying them with the latest cutting-edge technology in every aspect of our operation- from cultivation to harvest to extraction and formulation. And since we control all of it, we know exactly what's in our products.

RGS

For over 10 years, RGS Healthcare has assisted physicians with the smooth implementation of ultrasound and c-arms into their practices. Buying an Ultrasound or C-ARM isn't just about the product, it's about the solution. We listen to your clinical and budgetary needs and recommend the best solution for your practice.

Scilex

The Scilex sales team is dedicated to being best in class; focused on innovative products for pain management. We are committed to social, environmental, economic, and ethical principles. We strive to be Responsible By Design in serving our healthcare professionals and their patients.

Sonosite Fuji Film

SonoSite helped pioneer the concept of portable, point-of-care ultrasound, and it continues to be a world-leading manufacturer and innovator of bedside ultrasound systems. For more information, go to: www.sonosite.com.

Southern Spine - StabiLink® Interlaminar System

While 35-40% of all lumbar cases involve L5-S1, many Interspinous Process Devices (IPD) are not suitable for this area and only act as extension blockers. StabiLink® Interlaminar System is safe and easy-to-use and has been proven to limit motion in all three planes.

SPR

The SPRINT® PNS System by SPR Therapeutics™ utilizes a percutaneously implanted 300 micron lead that delivers sustained pain relief in nearly 3 out of every 4 patients even after the lead is removed following 60 days of treatment. The SPRINT PNS System is supported by more than 25 peer-reviewed publications and is uniquely positioned for use early in the care continuum.

MOVE FORWARD FASTER!

Stimwave

Stimwave's Freedom SCS & PNS System, the world's only fully programmable wireless stimulator platform for Dorsal Root Ganglion, Peripheral Nerve and Spinal Cord Stimulation, features the world's smallest, microsize neurostimulator, 35x-100x smaller than other systems. Revolutionizing the industry with sleek, easily wearable technology for patients needing pain management. Freedom is the only Battery-Free, Surgery-Free, and Opioid-Free Neurostimulator. Stimwave's SCS System in the SURF RCT, demonstrated an average of 76% Reduction in Back Pain, with 88% of the patients in chronic pain remission at 6 months.

Stryker

Together with our customers, we are driven to make healthcare better. By continuously investing in research and technology, we provide the most advanced medical technology for interventional spine procedures. From workplace awards, community service involvement and retaining the very best employees, we have a reputation worth honoring. Our more than 100 expert sales representatives are rigorously trained to support your practice, offer product and procedural consultation and be an active partner in helping you achieve goals.

Surgicore

Surgicore Services Center Our Surgicore Surgical Centers are comprised of four State of the art, freestanding, physician owned, ambulatory surgical facilities, located in Saddle Brook, Paterson, Jersey City, and Manalapan, New Jersey. We offer state-of-the-art operating suites outfitted with the latest in medical technology.

Superior Spine

Superior Spine specializes in partnering with Pain Physicians that run or own their practice. We offer high quality products, from advanced interventions like kyphoplasty and SI Fusion to RF ablation and spinal needles, at a significant cost-savings. Our vision is to be your trusted partner to deliver quality products at affordable prices.

TerSera

TerSera Therapeutics is a specialty pharmaceutical company headquartered in suburban Chicago with a focus on select therapeutic areas, including oncology and pain & inflammatory disorders. Our mission is to develop products which truly make a difference for patients. Our focus is to bring intelligent solutions to our customers that go beyond the therapy itself in order to provide improved patient outcomes. We look forward to meeting you!

Top Lab (Advanced Comprehensive Labs)

TOPLAB specializes and excels in DRUG TESTING; using oral fluid and urine specimens, focusing on quantitative and qualitative results. We are a fully equipped laboratory with the latest and most advanced technology setting a new standard in Toxicology, Clinical Chemistry, Pathology and cutting-edge Molecular testing.

We are experts in the field of toxicology(drug of abuse) and pathology. We would love to process your samples and provide the most excellent service we can to your clients and to you!

US World Meds

US WorldMeds develops, licenses, and markets meaningful and accessible healthcare products that improve lives and result in a thriving community of patients, employees, and shareholders.

Vertiflex

The Vertiflex® Procedure is a broadly indicated, clinically proven, minimally invasive solution designed to deliver long-term relief from the pain associated with lumbar spinal stenosis (LSS). The procedure is intended to help restore mobility and improve quality of life for LSS patients. For more information, visit www.vertiflex.com

Vertos

Vertos Medical Inc. is a medical device company committed to developing innovative, minimally invasive treatments for lumbar spinal stenosis (LSS). Its proprietary technologies include mild®, which offers a safe, outpatient, minimally invasive, fluoroscopically guided therapeutic LSS treatment that requires no general anesthesia, no implants, and no stitches. LSS is primarily a degenerative, age-related narrowing of the lower spinal canal that causes symptoms of pain and numbness in the lower back, legs, or buttocks. mild® treats this condition by restoring space in the spinal canal using specialized mild® devices to remove hypertrophic ligamentum flavum through a 5.1 mm treatment portal. Clinical trials show that mild® can help LSS patients stand longer and walk farther with less pain, and no major device related complications have been reported. For more information, visit www.Vertosmed.com.



mild®

For **Lumbar Spinal Stenosis**

- Removes a root cause of neurogenic claudication
- Clinically effective in patients with multifactorial etiologies¹
- Safest decompression procedure²

When
ESIs
fall short,
the next
step
is

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The complication rate for the mild® procedure is low. As with most surgical procedures, serious adverse events can occur. This procedure is not for everyone. Physicians should discuss potential risks with patients. For complete information regarding indications for use, warnings, precautions, and methods of use, please reference the devices' Instructions for Use at www.vertosmed.com.

1. Staats PS, Chafin TB, Golovac S, et al. Long-term safety and efficacy of minimally invasive lumbar decompression procedure for the treatment of lumbar spinal stenosis with neurogenic claudication: 2-year results of MIDAS ENCORE. *Reg Anesth Pain Med*. 2018;43:789-794.
2. Based on clinical data within mild® Comparative Safety vs. Other Decompression Options chart; references located on www.vertosmed.com/physician/ along with chart.

ACKNOWLEDGEMENTS

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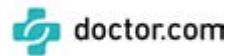
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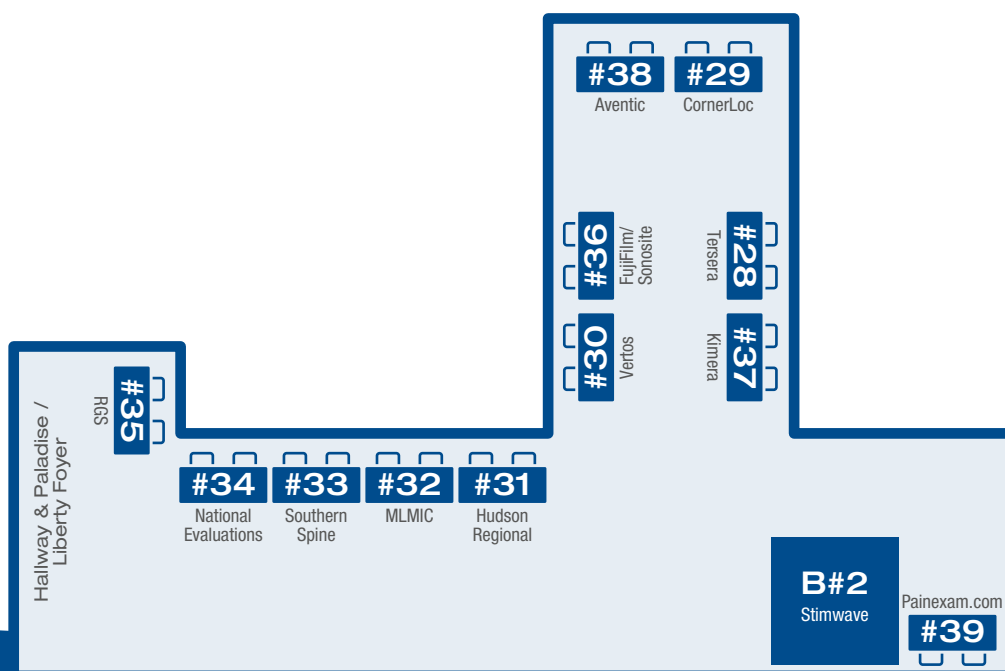
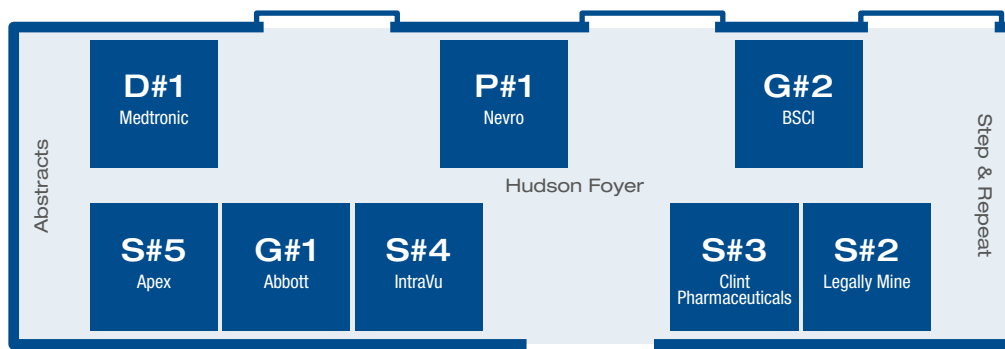
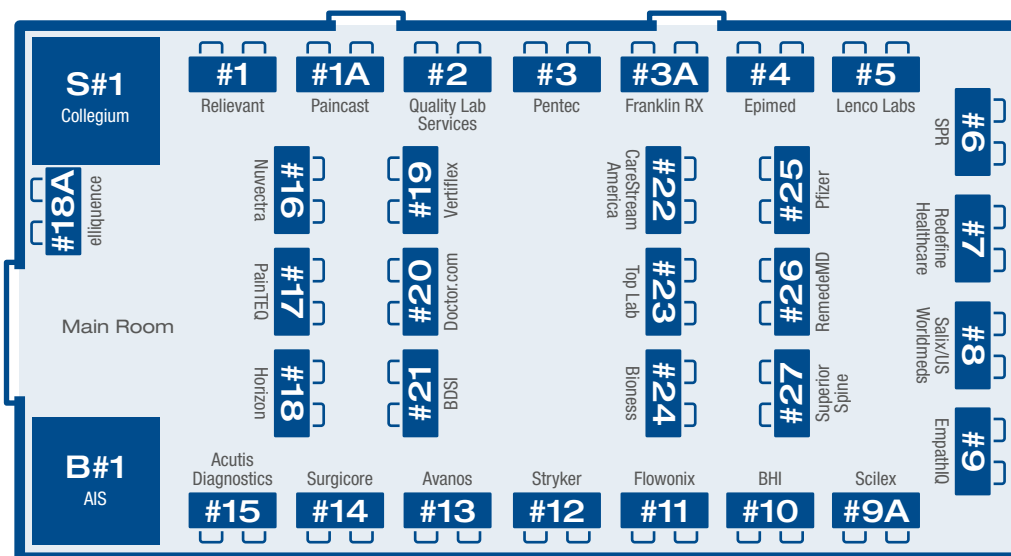
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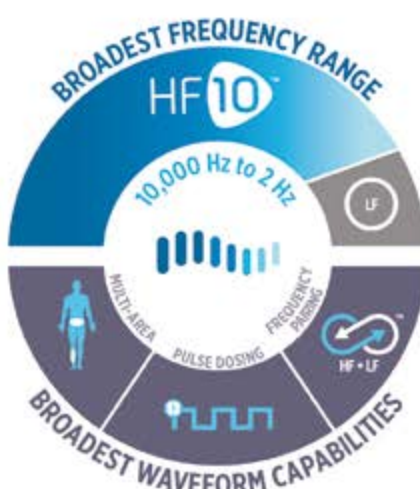


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