

11th Annual

New York & New Jersey Pain Medicine Symposium

Evolving Advanced Pain Therapies

November 3-6, 2022 • The Hyatt Regency Jersey City, New Jersey



PROGRAM BOOK



PURSuing ADVANCEMENT TOGETHER

Together, we can advance and innovate in our industry with practice optimization, personalized support, extensive evidence, and innovative therapies.

Learn more at BostonScientific.com/Pain



COGNITA™ PRACTICE OPTIMIZATION



WAVEWRITER ALPHA™ SCS SYSTEM




VERTIFLEX™ PROCEDURE†



RADIOFREQUENCY ABLATION

†Superion™ Indirect Decompression System

 The WaveWriter Alpha™ SCS System provides safe access to full-body MRI scans when used with specific components and the patient is exposed to the MRI environment under the defined conditions in the ImageReady™ MRI Full Body Guidelines for WaveWriter Alpha and WaveWriter Alpha Prime Spinal Cord Stimulator System.

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, radiculopathies resulting in pain secondary to failed back syndrome or herniated disc, epidural fibrosis, degenerative disc disease (herniated disc pain refractory to conservative and surgical interventions), arachnoiditis, 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 candidates, or are pregnant. Refer to the Instructions for Use provided with the SCS System or Pain.com 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.

Indications for Use: The Superior™ Indirect Decompression System (IDS) is indicated to treat skeletally mature patients suffering from pain, numbness, and/or cramping in the legs (neurogenic intermittent claudication) secondary to a diagnosis of moderate degenerative lumbar spinal stenosis, with or without Grade 1 spondylolisthesis, having radiographic evidence of thickened ligamentum flavum, narrowed lateral recess, and/or central canal or foraminal narrowing. 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 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.

The Boston Scientific Radiofrequency Generators, associated Radiofrequency Lesion Probes and RF Cannula are indicated for use in procedures to create radiofrequency lesions for the treatment of pain or for lesioning only peripheral nerve tissue for functional neurosurgical procedures. The Boston Scientific RF Injection Electrodes are used for percutaneous nerve blocks with local anesthetic solution for radiofrequency lesioning of peripheral nerve tissue only. The Boston Scientific LCED and Stereotactic TCD Electrodes are indicated for use in radiofrequency (RF) heat lesioning of nervous tissue including the Central Nervous System. **Warnings:** The Boston Scientific RF devices may cause interference with active devices such as neurostimulators, cardiac pacemakers, and defibrillators. Interference may affect the action of these active devices or may damage them. For appropriate guidance, consult the instructions for use for these active devices. Refer to the Instructions for Use provided with Boston Scientific generators, electrodes and annulas 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.

11th Annual New York & New Jersey Pain Medicine Symposium

Dear Colleagues,

On behalf of the Chairman, Sudhir Diwan, MD, and Course Directors, Scott Woska, MD, Christopher Gharibo, MD, Kenneth Chapman, MD and Sean Li, MD and the New York and New Jersey Societies of Interventional Pain Physicians (NYSIPP & NJSIPP), we are welcoming you to the New York and New Jersey Pain Medicine Symposium 2022: Evolving Advanced Pain Therapies. This year's meeting is being held November 3-6, 2022 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 of safe, high quality, and cost effective practice of 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 will provide cutting edge information on advanced state-of-the-art pain management techniques, advanced regenerative medicine therapies, advanced neuromodulation therapies and beyond, vertebral augmentation, discography and intradiscal procedures, radiofrequency, peripheral nerve stimulation, intrathecal therapy, minimally invasive sacroiliac fusion and for lumbar spinal stenosis. This course will offer a half 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 pre-conference courses for residents and fellows, and for nurse practitioners and physician assistants.

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. We anticipate in excess of 700 clinical providers specializing in pain management, interventional pain management and neurosurgery to attend, including physicians, mid-level practitioners, fellows, residents, nurses and pharmacists.

*We look forward to seeing you at the
11th Annual
New York & New Jersey
Pain Medicine Symposium
in November, 2022!*



Sudhir Diwan, MD
CEO, NYSIPP,
Chairman



Scott Woska, MD
Vice Chair



Christopher Gharibo, MD
Vice Chair



Steve Aydin, MD
Course Director



Karina Gritsenko, MD
Course Director



Sean Li, MD
Course Director



**Kirsten Klein,
AGNP-C**
Course Director

11th Annual
New York & New Jersey
Pain Medicine Symposium

Evolving Advanced Pain Therapies
November 3-6, 2022 • The Hyatt Regency Jersey City, New Jersey

Congratulations
to our
2022
AWARD WINNERS

Please join all of us in recognizing these
3 amazing people
on Friday, November 4, 2022, 7:00-10:00 PM
Manhattan Ballroom



Jose De Andres, MD
*International Scholar 2022
Award Winner*



Karina Gritsenko, MD
*Outstanding Pain Physician 2022
Award Winner*



Giancarlo Barolat, MD
*Lifetime Achievement 2022
Award Winner*

COMMITTEE & ORGANIZERS

NY/NJ Pain Medicine Symposium Organization Officials

Chairman: **Sudhir Diwan, MD**

Vice Chairs: **Scott Woska, MD, Christopher Gharibo, MD**

Course Directors: **Steve Aydin, MD, Karina Gritsenko, MD, Sean Li, MD, Kristen Klein, AGNP-C**

Fellows and Residents Pre-Conference Course Directors

Neel Mehta, MD and **Andrew Kaufman, MD**

PA and NP Pre-Conference Course Directors

Lauren Ronde, NP and **Kristen Klein, AGNP-C**

Cadaver Workshop Directors

Sudhir Diwan, MD, Christopher Gharibo, MD, Sean Li, MD, Scott Woska, MD

Ultrasound Workshop Directors

Steve Aydin, DO and **George Chang Chien, DO**

Regenerative Medicine Workshop Director

Sudhir Diwan, MD

Scientific Program Committee

Sudhir Diwan, MD – Chair
Kenneth Chapman, MD, – Co-Chair
Christopher Gharibo, MD

Scott Woska, MD
Brian Durkin, DO
Neel Mehta, MD

Karina Gritsenko, MD
Andrew Kaufman, MD
Saurabh Dang, MD

Office of Administration

Chairman: **Sudhir Diwan, MD**

COO: **Edward Rubin, MD**

Administrative Assistant to COO: **Cathy Pitbladdo**

Executive Director: **Sandra Vamos**

Meeting Secretary



CongressLine Ltd.
www.congressline.hu

GENERAL INFORMATION

VENUE AND DATES

Hyatt Regency Jersey City

New Jersey 2 Exchange Place, Jersey City, New Jersey 07302

Fellows and Residents Pre-Conference Course	Thursday, November 3, 7:50-12:00 PM	Harborside Room
PA/NP Pre-Conference Course	Thursday, November 3, 7:50-12:00 PM	Palisades Room
Practice Accelerator Pre-Conference Course	Thursday, November 3, 9:30-12:00 PM	Liberty Room
SYMPOSIUM	Thursday-Saturday, November 3-5	Hudson Ballroom
Ultrasound Workshop	Sunday, November 6, 9:00-11:30 AM	Hudson Ballroom IV+V+VI
Regenerative Medicine Workshop	Sunday, November 6, 8:30 AM-1:30 PM	Harborside Room
Cadaver Workshop	Sunday, November 6, 8:00 AM-1:00 PM	Hudson Ballroom I+II+III

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 3	7:00 AM-6:00 PM
Friday, November 4	7:00 AM-6:00 PM
Saturday, November 5	7:00 AM-5:00 PM
Sunday, November 6	7:30 AM-12:00 PM

COMMERCIAL EXHIBITION

The exhibition will be opened from Thursday, November 3 until Saturday, November 5th 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.

REGISTRATION FEE ONSITE

MEMBER Symposium (NYSIPP/NJSIPP and PainCast)	\$800
MEMBER Symposium with Workshop	\$950
NON MEMBER Symposium	\$950
NON MEMBER Symposium with Workshop	\$1100
FELLOWS/RESIDENTS Symposium	\$150
FELLOWS/RESIDENTS Symposium with Workshop	\$200
PA/NP Pre-Conference Course with Symposium	\$450
International Delegates Symposium	\$550
International Delegates Symposium with Workshop	\$650
International Delegates Symposium FELLOWS	\$75
International Delegates Symposium with Workshop FELLOWS	\$125
Industry Registration	\$850
Residents / Medical Student / PA/NP Student	FREE*
	<i>*proof of student status is required</i>
Extra Exhibitor Badge	\$350

COFFEE BREAKS

Coffee, tea and snacks will be served in the Exhibition area regarding the program.

BREKAFAST AND LUNCH

Refer to the detailed program.

SPECIAL SOCIAL EVENTS

Fellows, Residents, PA/NP Networking and Presentation

Thursday, November 3, 2022, 6:00-8:00 PM, Riverside Room

Sponsored by Platinum Sponsor Medtronic

Gala Dinner and Award Ceremony

Friday, November 4, 2022, Manhattan Ballroom

6:00-7:00 PM Cocktail Hour – Sponsored by Gold Sponsor Boston Scientific

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

Faculty Dinner (by invitation only)

Saturday, November 5, 2022

Venue: Yacht Atlantica

Meeting point & time: Hyatt Regency lobby at 6:30 PM, we walk together to Hyatt Dock

Boarding: from 6:35 PM

Sail: 7:00 PM / Return: 10:00 PM

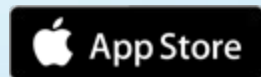
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**Download the application
and add the congress to
your events to enjoy all
features: program,
favorites, chat...**

**and many
more!**



HOW TO ADD NYNJ SYMPOSIUM TO MY EVENTS?

**Come to the registration
desk to find your personal QR
code or check the invitation
email in your inbox and follow
instructions.**



BADGES (environmentally friendly)

Eco-friendly identification badges are provided upon registration. For security purposes, all delegates and speakers are asked to wear their name badges at all times during the meeting. The identification badges are including a QR code with basic contact information such as name, city, workplace, and e-mail address. It can be helpful when contacting the Registration Desk and other participants. Please be aware that our exhibitors and sponsors might scan your badge QR code for their records when visiting their booths or attending an industry-sponsored breakfast/lunch. If you misplace your name badge, please go to the Registration Desk to arrange for a replacement.

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

NYNJ Pain Medicine Symposium in your hands: conference app is available for smartphones at Google Play and iTunes. Check the program, get together and chat with your fellow delegates, send your questions, get important (push) messages from the Organizers by downloading the SmartEvents app.

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

No specific poster session is scheduled, all posters are available for viewing during the opening hours. We recommend the poster presenters be around the screens during the breaks to be available for questions.

HEALTH & SAFETY

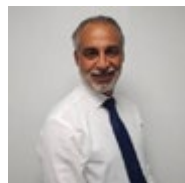
Hand sanitizer is available throughout the venue near food and exhibit areas. Wearing a face mask is not required but recommended, due to the inherent risk of exposure to COVID-19 exists in any public place where people are present. Attendees and staff may continue to wear masks for a variety of reasons, so please be kind and considerate of others.

MEET THE FACULTY

Sudhir Diwan, MD
Chairman



Latrice Akuamoah, MD



Adnan Al-Kaisy, MD



Shahzad Anwar, MD



Ripu Arora, MD



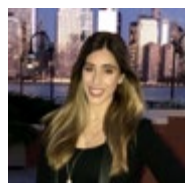
Fabricio Dias Assis, MD



Steve Aydin, DO



Giancarlo Barolat, MD



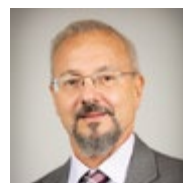
Erica Bartoloni, MS, PA-C



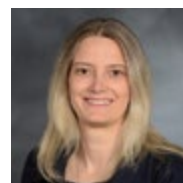
Doug Beall, MD



Sadiq Bhayani, MD



Kenneth Candido, MD



Veronica Carullo, MD



Kenneth B. Chapman, MD



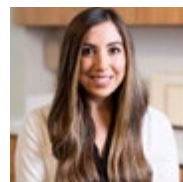
George Chang Chien, DO



Ashley Comer, NP



Harold Cordner, MD



Briana Damora, PA



Saurabh Dang, MD



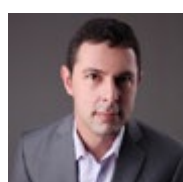
Sukdeb Datta, MD



Miles Day, MD



Jose De Andres, MD



Charles De Oliveira, MD



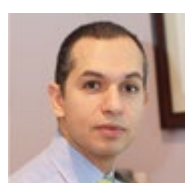
Timothy Deer, MD



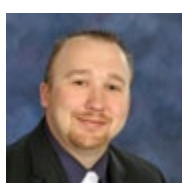
Rodrigo Díez Tafur, MD



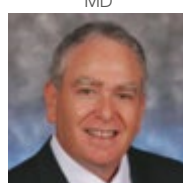
Brian Durkin, DO



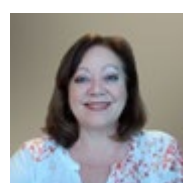
Tamer Elbaz, MD



Steven Falowski, MD



Ira Fox, MD



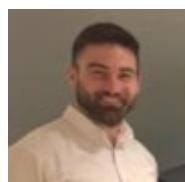
Meredith George, SCP-PM



Christopher Gharibo, MD



Christopher Gilligan, MD



Trevor Glanville, NP



Stanley Golovac, MD



Casey Grillo, NP



Karina Gritsenko, MD



Amitabh Gulati, MD



Mayank Gupta, MD



Roger Hartl, MD



Corey Hunter, MD



Neeraj Jain, MD



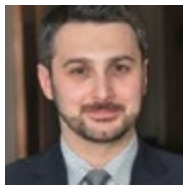
Hemant Kalia, MD



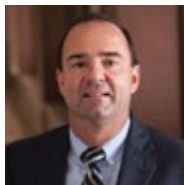
Leonardo Kapural, MD, PhD



Andrew Kaufman, MD



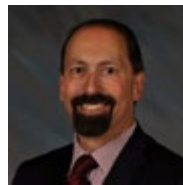
Yury Khelemsky, MD



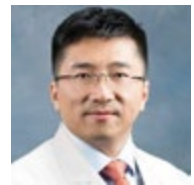
Kyle Kiesel, PT



Kristen Klein
AGNP-C



Robert Levy, MD, PhD



Sean Li, MD



Chih-Peng Lin,
MD, PhD



Philippe
Mavrocordatos, MD



Jesus Medina, MD



Erica Bartoloni
MS, PA-C



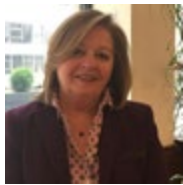
Neel Mehta, MD



Annu Navani, MD



Alif Noeriyanto
Rahman, MD



Deidre O'Flaherty, NP



Jen-Li Pan, MD



Arpit Patel, DO



Kiran Patel, MD



Juan De La Cruz
Pineda, MD



Ricardo Plancarte
Sanchez, MD



Carolina Hernandez
Porras, MD



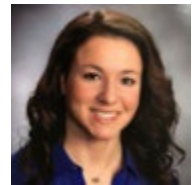
Vinay Puttannah, MD



Gabor B. Racz, MD



Lou Raso, MD



Lauren Ronde, NP



Steven Rosen, MD



Madeline Rosenberg,
NP



Edward Rubin, MD



Steven E. Sampson,
DO



Dawood Sayed, MD



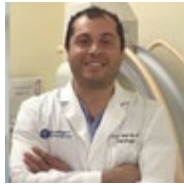
Michael E. Schatman,
PhD, CPE



Naum Shaparin, MD



Ashish Shetty, MD



Victor Silva, MD



Vanila M. Singh, MD



Konstantin Slavin, MD



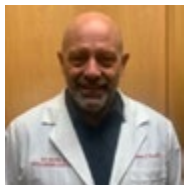
Dawn Sparks, MD



Agnes Stogicza, MD



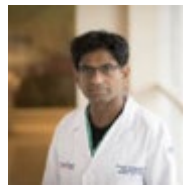
Harry Sukumaran, MD



Robert Tiso, MD



Andrea Trescot, MD



Amerash
Vydyanathan, MD



Sayed Emal Wahezi,
MD



Scott Woska, MD



Michael Yang, MD



Edward Yoon, MD

FELLOWS / RESIDENTS PRE-CONFERENCE COURSE

Thursday, November 3, 2022 • Harborside Room

Course Directors: **Neel Mehta, MD** and **Andrew Kaufman, MD**

7:50-8:00 AM **Welcome Remarks**
Karina Gritsenko, MD and Sean Li, MD

SESSION THEME: Making of the best Pain Physician (8:00-10:00 AM)

Moderator: Neel Mehta, MD

8:00-8:15 AM **Training of World Class Pain Physician**
Miles Day, MD

8:15-8:30 AM **The flaws in training in the Academic Programs**
Christopher Gilligan, MD

8:30-8:45 AM **Understanding the cost of care**
Michael Yang, MD

8:45-9:00 AM **Getting Involved with Clinical Studies and Publications**
Sean Li, MD

9:00-9:15 AM **Rebalancing the Pain Fellowship Curricula**
Michael Schatman, MD

9:15-9:30 AM **Learning Art of Medicine: improving patient's experience**
Naum Shaparin, MD

9:30-10:00 AM **Panel Discussion with Amitabh Gulati, MD**
Integration of Research into Clinical Practice
Panelist: Sayed Emal Wahezi, MD, Neel Mehta, MD, Karina Gritsenko, MD,
Agnes Stogicza, MD

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

SESSION THEME: Finished the fellowship: Now what? (10:30 AM -12:00 PM)

Moderator: Andrew Kaufman, MD

- 10:30-10:45 AM **New Contract Negotiations – Opportunities and Pitfalls**
Meredith George, SCP-PM
- 10:45-11:00 AM **Getting Involved with NYSIPP/NJSIPP and ASIPP**
Christopher Gharibo, MD
- 11:00-11:15 AM **Conflicts of Interests while working with Industries**
Andrew Kaufman, MD
- 11:15-11:30 AM **Building and Expanding the Scope of Pain Practice**
Timothy Deer, MD
- 11:30 AM-12:00 PM **Panel Discussion with Timothy Deer, MD
Transitioning from Training to Practice**
Panelist: Sukdeb Datta, MD, Amerash Vydyanathan, MD, Charles De Oliveira, MD
Hemant Kalia, MD

12:00-1:00 PM **Fellows/Residents Lunch Symposium** **Manhattan Ballroom**
Sponsored by Gold Sponsor Pacira
**THE POWER TO STOP PAIN COLD:
MANAGING KNEE PAIN PRE -AND POST- TKA**
Speaker: Karina Gritsenko, MD
No CME credit hours are available for this session.

1:00-5:30 PM **Join the Main Session in Hudson Ballroom**

6:00-8:00 PM **Fellows, Residents, PA/NP Networking and Presentation** **Riverside Room**
Sponsored by Platinum Sponsor Medtronic
Faculty: Vwaire Orhurhu, MD, MPH and Sudhir Diwan, MD
No CME credit hours are available for this session.

PA/NP PRE-CONFERENCE COURSE

Thursday, November 3, 2022 • Palisades Room

Course Directors: **Lauren Ronde, NP**, and **Kristen Klein, AGNP-C**

7:50-8:00 AM **Welcome Remarks**
Steve Aydin, DO and Kristen Klein, AGPN-C

FIRST SESSION (8:00-10:00 AM)

Moderator: Kristen Klein, AGNP-C

8:00-8:15 AM **Post-operative Pain Control in Orthopedic Patients**
Deidre O’Flaherty, NP

8:15-8:30 AM **Neuropathic Pain Modalities**
Erica Bartoloni, PA-C

8:30-8:45 AM **Restorative Implantable Neurostimulation System**
Lauren Ronde, NP

8:45-9:00 AM **Periop management of intrathecal pumps**
Trevor Glanville, NP

9:00-9:15 AM **Use of Methadone for Opioid Addiction vs Chronic Pain**
Briana Damora, FNP-BC

9:15-9:30 AM **Pelvic Pain: SCS vs DRG**
Latrice Akuamoah, MD

9:30-10:00 AM **Panel discussion with Kristen Klein, AGNP-C**
Keeping the pace with novel therapies
Panelist: Deidre O’Flaherty, NP, Erica Bartoloni, PA-C, Lauren Ronde, NP,
Trevor Glanville, NP, Briana Damora, FNP-BC, Latrice Akuamoah, MD

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

SECOND SESSION (10:30 AM-12:00 PM)

Moderator: Lauren Ronde, NP

10:30-10:45 AM **Interventions for LSS – fusion devices, spacers, PILD**
Ashley Comer, MSN, APRN, FNP-C

10:45-11:00 AM **Patient Education for Neuromodulation Therapies**
Casey Grillo, NP

11:00-11:15 AM **Vertebral Nerve Ablation**
Kristen Klein, AGNP-C

11:15-11:30 AM **Peripheral Nerve Stimulation**
Patrick McGinn, PA

11:30 AM-12:00 PM **Panel discussion with Lauren Ronde, NP**
Role of mid-levels in clinical practice
Panelists: Ashley Comer, MSN, APRN, FNP-C, Casey Grillo, NP,
Kristen Klein, AGNP-C, Patrick McGinn, PA, Madeline Rosenberg, NP

12:00-1:00 PM **PA/NP Lunch Symposium** **Palasides Room**
Sponsored by Gold Sponsor Nalu
SO MANY OPTIONS: CHOOSING THE RIGHT SYSTEM AND THE RIGHT PATIENT FOR BOTH SCS & PNS
Speaker: Casey Grillo, MSN, FNP-C
No CME credit hours are available for this session.

1:00-5:30 PM **Join the main symposium in Hudson Ballroom.**

6:00-8:00 PM **Fellows, Residents, PA/NP Networking and Presentation** **Riverside Room**
Sponsored by Platinum Sponsor Medtronic
Faculty: Vwaire Orhurhu, MD, MPH and Sudhir Diwan, MD
No CME credit hours are available for this session.

PRACTICE ACCELERATOR PRE-CONFERENCE COURSE

Thursday, November 3, 2022 • Liberty Room

9:30-10:00 AM **How to Grow a Regenerative Pain Practice**
Rikin J. Patel, MD

10:00-10:45 AM **How to handle a Regenerative Medicine Consult**
Corbyn May

10:45-11:00 AM **Networking Break**

11:00-11:30 AM **How I Built This? – Meet Dr. Steve Sampson**

11:30 AM-12:00 PM **Q&A w/ Panel Discussion**
Steve Sampson, MD, Rikin J. Patel, MD, Corbyn May

12:00-1:00 PM **Networking Lunch and Discussion**
Steve Sampson, MD, Rikin J. Patel, MD, Corbyn May, Tammy Epp

SYMPOSIUM PROGRAM

DAY 1 • Thursday, November 3, 2022 • Hudson IV+V+VI Room

Program Chair: **Sudhir Diwan, MD**

Vice Chairs: **Scott Woska, MD, Christopher Gharibo, MD**

Course Directors: **Steve Aydin, MD, Karina Gritsenko, MD, Sean Li, MD, Kristen Klein, AGNP-C**

12:50-1:00 PM

Welcome Remarks

Sudhir Diwan, MD, Scott Woska, MD, Christopher Gharibo, MD

SESSION ONE: Regenerative Medicine I. (1:00-3:00 PM)

Moderator: Doug Beall, MD

1:00-1:20 PM

Pluripotent Stem Cells -Induced vs Embryonic: Laboratory to Clinical Practice

Jen Li Pan, MD (Taiwan)

1:20-1:40 PM

Intraosseous Injections for Advanced OA

Steven Sampson, DO

1:40-2:00 PM

Intradiscal BMAC for Disc Regeneration after Microdiscectomy

Roger Hartl, MD

2:00-2:15 PM

Orthobilogics for Chronic MSK: What is the evidence?

Steve Aydin, DO

2:15-2:30 PM

Review of evidence on Intradiscal MSCs

Sudhir Diwan, MD

2:30-3:00 PM

Panel Discussion with Doug Beall, MD

How to integrate the RM into your practice: The best practice Model

Panel members: Steven Sampson, DO, Jen Li Pan, MD, Roger Hartl, MD,
Steve Aydin, DO

3:00-3:30 PM

Coffee Break with Exhibitors / Scientific Poster Viewing

SESSION TWO: REGENERATIVE MEDICINE II. (3:30-5:30 PM)

Moderator: Annu Navani, MD

- 3:30-3:50 PM **Recent Advances in Shoulder Interventions: Cryo vs. RFA**
Agnes Stogicza, MD (Hungary)
- 3:50-4:10 PM **Role of Dynamic Ultrasound in Regenerative Therapy**
Chih-Peng Lin, MD (Taiwan)
- 4:10-4:30 PM **Peripheral Blood Derived VSEL Stem Cells**
Shahzad Anwar, MD (Pakistan)
- 4:30-4:45 PM **Sonographic Anatomy: Challenges and Solutions**
Charles De Oliveira, MD (Brazil)
- 4:45-5:00 PM **Controversies in Ultrasound Guidance with Complex MSK Procedures**
George Chang Chien, DO
- 5:00-5:30 PM **Keynote: Future of Biologics in Spine, Orthopaedic, and MSK conditions**
Annu Navani, MD

6:00-8:00 PM **Fellows, Residents, PA/NP Networking and Presentation** **Riverside Room**
Sponsored by Platinum Sponsor Medtronic

Faculty: Vwaire Orhurhu, MD, MPH and Sudhir Diwan, MD

No CME credit hours are available for this session.

SYMPOSIUM PROGRAM

DAY 2 • Friday, November 4, 2022 • Hudson IV+V+VI Room

7:00-7:50 AM	Breakfast Symposium	Harborside Room
	Sponsored by Silver Sponsor Relieva	
	CHANGING THE CLBP PARADIGM WITH EVIDENCE-BASED GUIDELINES TO DIAGNOSE AND TREAT VERTEBROGENIC PAIN	
	Moderator: Sean Li, MD	
	Panelists: Kiran V. Patel, MD, Brian Durkin, DO, William Caldwell, DO, Anthony Giuffrida, MD, Douglas P. Beall, MD, Kristen Klein, NP	
	<i>No CME credit hours are available for this session.</i>	

SESSION THREE: Neuromodulation I. (8:00-10:00 AM)

Moderator: Robert Levy, MD

8:00-8:20 AM	Recent Advances in Neuromodulation: Has it improved outcome? Robert Levy, MD
8:20-8:40 AM	Phantom limb pain, SCS? or DRG? or Both? Adnan Al-Kaisy, MD (UK)
8:40-9:00 AM	The science behind Programming Spinal Cord Stimulators Jose De Andres, MD (Spain)
9:00-9:20 AM	SCS Trial: Do we need a trial? Ashish Shetty, MD (UK)
9:20-9:35 AM	DRG for Chronic Axial Back Pain Kenneth Chapman, MD
9:35-10:00 AM	Panel discussion with Robert Levy, MD Closed Loop vs. Open Loop SCS stimulation Panel members: Kiran Patel, MD, Steve Rosen, MD, Corey Hunter, MD, Mayank Gupta, MD, Sean Li, MD

10:00-10:30 AM **Coffee Break with Exhibitors / Scientific Poster Viewing**

SESSION FOUR: Neuromodulation II. (10:30 AM-12:30 PM)

Moderator: Sean Li, MD

10:30-10:50 AM	Lateral Stimulation for Focal Neuropathic Pain Lou Raso, MD
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10:50-11:10 AM	TDD vs. SCS: Cost-effectiveness Harold Cordner, MD
11:10-11:30 AM	Quality pain management: An Emerging Concept in Chronic Pain Philippe Mavrocordatos, MD (Switzerland)
11:30-11:45 AM	Navigating Complex Case of Neuromodulation Rodrigo Diez Tafur, MD (Peru)
11:45 AM-12:00 PM	The Era of Personalization: Innovations in Pain Solutions Sayeed Emal Wahezi, MD
12:00-12:30 PM	Keynote: Neuromodulation: Past, Present, and Future Giancarlo Barolat, MD

12:30-1:30 PM	Lunch Symposium	Manhattan Ballroom
Sponsored by Platinum Sponsor Medtronic		
PATIENT CENTRIC PAIN RELIEF SOLUTIONS: HOW MEDTRONIC IS TRANSFORMING TDD & SCS		
Speakers: Joseph Bax, DO, Suelane Do Ouro, MD, Amitabh Gulati, MD, Soriaya Motivala, MD, Armando Villarreal, MD		
<i>No CME credit hours are available for this session.</i>		

SESSION FIVE: Cancer Pain Updates (1:30-3:30 PM)

Moderator: Hemant Kalia, MD

1:30-1:50 PM	Palliative procedures for metastatic cancer pain Ricardo Sanchez Plancarte, MD (Mexico)
1:50-2:10 PM	IDDS: Novel Dosing Parameters Hemant Kalia, MD
2:10-2:30 PM	Challenges in Cancer Pain Management Kenneth Candido, MD
2:30-2:45 PM	Splanchnic vs. Celiac Plexus Block for Visceral Cancer Pain Carolina Hernandez Porras, MD (Mexico)
2:45-3:00 PM	ITDD PACC Guidelines Amitabh Gulati, MD
3:00-3:30 PM	Panel discussion on Challenges in cancer pain management with Stanley Golovac, MD Panelist: Karina Gritsenko, MD, Carolina Hernandez Porras, MD, Hemant Kalia, MD, Vinay Puttaniah, MD, Amerash Vydyanathan, MD

3:30-4:00 PM **Coffee Break with Exhibitors / Scientific Poster Viewing**

**11thAnnual
New York & New Jersey
Pain Medicine Symposium**

SESSION SIX: Education and Research (4:00-6:00 PM)

Moderator: Timothy Deer, MD

4:00-4:20 PM	Ultrasound for Spine: Do we need fluoroscope? Sadiq Bhayani, MD (Abu Dhabi)	
4:20-4:35 PM	Neglected Specialty of Pediatric Pain Veronica Carullo, MD	
4:35-4:50 PM	Interpretation of Imaging of Complex Spinal Conditions Doug Beall, MD	
4:50-5:05 PM	Knee RFA: Best evidence Karina Gritsenko, MD	
5:05-5:20 PM	Advanced Interventional Pain and Opioid Crisis Vanila Singh, MD	
5:20-5:35 PM	Clinical Psychology Underutilized Michael Schatman, PhD	
5:35-6:00 PM	Keynote: Future of spine surgeries: Open vs. MISS Timothy Deer, MD	
6:00-6:30 PM	NYSIPP State Society Meeting	Hudson Room
6:00-6:30 PM	NJSIPP State Society Meeting	Harborside Room
6:00-7:00 PM	Cocktail Hour Sponsored by Gold Sponsor Boston Scientific	
7:00-10:00 PM	Gala Dinner and Award Presentation	Manhattan Ballroom
	Lifetime Achievement 2022 Award recipient: Giancarlo Barolat, MD Introduction by Christopher Gharibo, MD	
	Outstanding Pain Physician 2022 Award recipient: Karina Gritsenko, MD Introduction by Sean Li, MD	
	International Scholar 2022 Award recipient: Jose De Andres, MD Introduction by Sudhir Diwan, MD	

SYMPOSIUM PROGRAM

DAY 3 • Saturday, November 5, 2022 • Hudson IV+V+VI Room

7:00-7:50 AM	Breakfast Symposium Sponsored by Bronze Sponsor Abbott THE NEXT GENERATION OF COVERAGE Speakers: Youssef Josephson, DO, Kiran Patel, MD <i>No CME credit hours are available for this session.</i>	Harborside Room
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SESSION SEVEN: Minimally Invasive Spine I. (8:00-10:00 AM)

Moderator: Sudhir Diwan, MD

8:00-8:20 AM	SI fusions: Best Approach for Safety and Effectiveness Steven Falowski, MD	
8:20-8:40 AM	Update on Basivertebral Ablation Brian Durkin, DO	
8:40-9:00 AM	Dysfunctional multifidus Christopher Gilligan, MD	
9:00-9:20 AM	Endoscopic Spine Sukdeb Datta, MD	
9:20-9:40 AM	Advanced Innovative Pain Interventions in Difficult Spine Cases Neeraj Jain, MD (India)	
9:40-10:00 AM	Panel Discussion with Sudhir Diwan, MD Symptomatic relief vs. Addressing the root cause Panelist: Christopher Gilligan MD, Kyle Kiesel, PT, Neeraj Jain, MD, Sukdeb Datta, MD, Brian Durkin, DO, Alif Noeriyanto Rahman, MD, Dawn Sparks, MD	
10:00-10:30 AM	Coffee Break with Exhibitors / Scientific Poster Viewing	

SESSION EIGHT: Minimally Invasive Spine II. (10:30 AM-12:30 PM)

Moderator: Scott Woska, MD

10:30-10:50 AM	Spinal Neuroplasty: Review of Technique and Evidence Victor Silva, MD (Mexico)
10:50-11:10 AM	Cervical DRG: Pulsed RFA vs. Neuromodulation Fabricio Dias Assis, MD (Brazil)
11:10-11:30 AM	Discogenic Pain vs Vertebral Body Pain: Clinical Management Dawood Sayed, MD
11:30-11:50 AM	Interspinous Decompression: Posterior vs Lateral Approach Steven Falowski, MD
11:50 AM-12:05 PM	SI Fusion: Effectiveness of One vs Two vs Three Implants Arpit Patel, DO
12:05-12:30 PM	Keynote: Clinical Practice, Research, and Industry Partnership: Balanced Integration Leonardo Kapural, MD

12:30-1:30 PM **Lunch Symposium** **Manhattan Ballroom**

Sponsored by Gold Sponsor SPR Therapeutics

SPRINT 60-DAY PNS TREATMENT: TECHNOLOGY TRANSFORMING CARE

Program:

Moderated Q&A - Amit Gulati, MD

Technological Advances Enabling 60-Day PNS Treatment - Amit Gulati, MD

Algorithmic Significance of Delayed Responses to PNS - Ali Valimahomed, MD

Real World Evidence Across Nearly 4500 Treated Patients - Harry Sukumaran, MD

14 Month Outcomes After Medial Branch PNS - Sean Li, MD

Exploring the Roles of Central Sensitization and Multifidus

in Chronic Low Back Pain - Nate Crosby, PhD, SPR Therapeutics R&D

No CME credit hours are available for this session.

SESSION NINE A : Interventional Pain (1:30-3:10 PM)

Moderator: Christopher Gharibo, MD

1:30-1:50 PM	NYS Take Home Naloxone and the Chronic Pain Patient Christopher Gharibo, MD
1:50-2:10 PM	Denials, Appeals, and Disputes: A Worsening Crisis Robert Tiso, MD
2:10-2:30 PM	EMG/NCV: Recent Advances and Clinical Implications Scott Woska, MD

- 2:30-2:45 PM **Ketamine Infusion for Neuropathic Pain**
Edward Rubin, MD
- 2:45-3:10 PM **Panel discussion with Ira Fox, MD**
Review of Practice Guidelines for Anticoagulants in Spinal Procedures
Panelists: Gabor Racz, MD, Amerash Vydyanathan, MD, Scott Woska, MD, Ripu Arora, MD
Alif Noeriyanto Rahman, MD

SESSION NINE B : Residents/Fellows Session and Abstract Presentation (3:10-3:40 PM)

Moderator: Miles Day, MD

Top Three Abstract Presentations

Scientific Committee: Yury Khelemsky, MD, Vinay Puttanniah, MD, Miles Day, MD, Karina Gritsenko, MD

Overview of Abstract by Moderator and Prize Presentation

Miles Day, MD

3:40-4:00 PM **Coffee Break with Exhibitors / Scientific Poster Viewing**

SESSION TEN: Advanced Neuromodulation (4:00-6:00 PM)

Moderator: Konstantin Slavin, MD

- 4:00-4:20 PM **PNS: Clinical Implications for Chronic Back Pain**
Sean Li, MD
- 4:20-4:40 PM **Do we need Wireless Neuromodulation?**
Andrea Trescot, MD
- 4:40-5:00 PM **Neuromodulation on Facial Pain**
Miles Day, MD
- 5:00-5:15 PM **Advanced Neuromodulation for Pelvic Pain**
Ashish Shetty, MD (UK)
- 5:15-5:30 PM **Peripheral neurolysis: Pulsed vs Thermal RF**
Steve Aydin, DO
- 5:30-6:00 PM **Keynote: PNS vs. SCS/DRG: Safety and Effectiveness**
Konstantin Slavin, MD

6:30-10:00 PM **Faculty Dinner** (invitation only)
Sponsored by Ethos Laboratories
Venue: Yacht Atlantica
Meeting point & time: Hyatt Regency lobby at 6:30 PM, we walk together to Hyatt Dock

Boarding: from 6:35 PM
Sail: 7:00 PM / Return: 10:00 PM

SUNDAY WORKSHOP PROGRAM

Sunday, November 6, 2022

No CME credit hours are available for the workshops.

Cadaver Workshop

Sunday, November 6, 2022 (8:00 AM-1:00 PM) – NON CME

Hyatt Regency Jersey City Hudson • I+II+III Room

Directors

Sudhir Diwan, MD
Christopher Gharibo, MD
Sean Li, MD
Scott Woska, MD

Faculty

Shahzad Anwar, MD
Fabricio Dias Assis, MD
Kenneth Candido, MD
Kenneth Chapman, MD
Harold Cordner, MD
Saurabh Dang, MD
Sukdeb Datta, MD
Rodrigo Diez Tafur, MD
Brian Durkin, DO
Tamer Elbaz, MD
Christopher Gharibo, MD
Neeraj Jain, MD

Hemant Kalia, MD
Leonardo Kapural, MD
Andrew Kaufman, MD
Sean Li, MD
Arpit Patel, DO
Kiran Patel, MD
Ricardo Sanchez Plancarte, MD
Steven Rosen, MD
Harry Sukumaran, MD
Scott Woska, MD
Edward Yoon, MD

Stations (attendees rotate through each station – 30-minute rotations):

	Sponsor	Procedure
Station 1	Abbott	DRG
Station 2	Vertos	Percutaneous Lumbar Decompression
Station 3	Nevro	SCS
Station 4	Bioventus	Lower Extremity PNS
Station 5	Boston Scientific	SCS
Station 6	SPR	Upper Extremity PNS
Station 7	Vertiflex	Interspinous Process Decompression
Station 8	Epimed	Neuroplasty

Ultrasound Workshop

Sunday, November 6, 2022 (8:30 AM-12:00 PM) – NON CME
Hyatt Regency Jersey City • Hudson IV + V + VI Room

Directors

Steve M. Aydin, DO
George Chang Chien, DO

Faculty

Amitabh Gulati, MD
Chih-Peng Lin, MD
Jesus Medina, MD
Charles De Oliveira, MD
Alif Noeriyanto Rahman, MD

Jen Li Pan, MD
Juan De La Cruz Pineda, MD
Carolina Hernandez Porras, MD
Victor Silva, MD
Amaresh Vydyanathan, MD

Stations

Station 1	Upper Extremity Musculoskeletal Injections
Station 2	Lower Extremity Musculoskeletal Injections
Station 3	Upper Extremity Nerve Blocks
Station 4	Lower Extremity Nerve Blocks
Station 5	Sacroiliac, Truncal Blocks, Lumbar Spine

Regenerative Medicine Workshop

Sunday, November 6 (9:00 AM-11:30 AM) – NON CME
Hyatt Regency Jersey City • Harborside Room

Course Director: Sudhir Diwan, MD

Speakers: Jay E. Bowen, MD, Co-Founder & Clinical Director DataBiologics
Jo-An Tremblay, Founder & CEO, Plymouth Medical
Dave Bowen, CEO, Valet Health

The group will be split up into 3 groups and cycle through workstations:

Station 1	Data-driven PRP & A2M protocols for joints, tendons & spine (real world patient reported outcomes)
Station 2	Optimal Bone Marrow extraction technique & concentration for interventional pain physicians
Station 3	Impactful digital marketing strategies & ROI for Orthobiologics patient acquisition

COMPANIES

Abbott

Abbott is a global healthcare leader that helps people live more fully at all stages of life. Our portfolio of life-changing technologies spans the spectrum of healthcare, with leading businesses and products in diagnostics, medical devices, nutritionals and branded generic medicines.

Aegis

Founded in 1990, Aegis Sciences Corporation is a forensic toxicology and healthcare laboratory that provides science-driven drug testing and consulting services based in Nashville, TN. Aegis delivers evidence-based, clinically actionable information related to medication compliance, substance abuse, and drug-drug interactions through definitive testing of urine, oral fluid, or blood specimens.

AIS Healthcare

Throughout the targeted drug delivery care continuum, AIS Healthcare is focused on raising the bar for quality. From the unparalleled sterility standards in our 503A specialty compounding pharmacies to comprehensive care services from our skilled nursing team, we go above and beyond to enhance the care experience for everyone.

Aspen Medical

As a leader in the design, development and marketing of orthotics, Aspen's core philosophy is to innovate and advance clinically-based solutions focused on serving the needs of healthcare professionals and enhancing patients' lives.

Aurora Spine

Aurora Spine specializes in developing surgical implants and new innovative medical technologies for minimally invasive treatments to provide patients with pain relief and short recovery times. We are committed to making our implants better, less invasive, and, most importantly, something that genuinely helps patients and improves their quality of life. Innovation targeted at our patients' well-being.

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.

BHI

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.

BioTras

BioTras stands for Bio-anatomical Training System, the new gold standard for cadaver training. BioTras has created a cutting edge simulator to revolutionize cadaver training by enhancing physician expertise and reduce training cost. We take the patient out of the training equation.



Omnia™ Powered by **HFX** | **Connect™**

Comprehensive.
Greater flexibility for pain relief
across multiple indications, including
painful diabetic neuropathy.

Learn about a new era
of patient support at nevro.com

HFX™
Relief, multiplied.™

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Bioventus

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 meet the needs of patients suffering from chronic pain. Our growing portfolio of pain management product offerings includes leading technologies in spinal cord stimulation, minimally invasive indirect decompression and radiofrequency ablation.

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.

CornerLoc

CornerLoc™ – Offering both the proven CornerLoc™ graft and the new modular TransLoc 3D™ SI Joint Fusion System. TransLoc 3D™ has both a posterior implant and lateral oblique screw and can be used to create a truly 3-dimensional hybrid construct, or the screws can be used as a transfixing compression system.

DocMatter

The NYSIPP DocMatter Community is an online environment built specifically for health care professionals to learn, collaborate by specialty area, mentor, share career advice, and otherwise network with your peers. The NYSIPP DocMatter Community should be reminiscent of in-person educational events, in that it is moderated, organized, and supported by a team of professionals to help you save time and find your cohort. We envision the NYSIPP DocMatter Community encouraging the kinds of open, in-depth discussions and mentor/mentee opportunities you typically have with fellow members in person: advocacy/insurance issues, clinical cases, questions, research topics, and other matters key to your practice and patient care in an on-demand, asynchronous environment.

Elliquence

Elliquence, LLC educates physicians on how to perform the least invasive procedural solutions for spine pathologies and provides the tools to support them. As examples, elliquence supplies an extensive and comprehensive variety of endoscopic spine systems along with the Disc-FX discectomy system and our family of Trigger-Flex® steerable bipolar handpieces. These are examples of the surgical accessories offered for use with the Surgi-Max® Ultra energy source, a unique high frequency, low heat RF energy source which spares healthy tissue while precisely treating pathology. “Less is More”.

Epimed

Epimed designs, develops, manufactures, and delivers standard and unique solutions for physicians with an emphasis on outcomes and safety. Our products include Site Specific Catheters (including the Racz®), RX-2 Epidural Needles, Coudé® Blunt Nerve Block Needles, a full line of R-F™ Products, and the PainBlocker™ Cryo line of Cryoanalgesia.

Ethos Laboratories

Ethos' proprietary Foundation Pain Index is a single numerical score on a scale of 0 – 100 which describes the degree of abnormal biochemistry relevant to pain. FPI is comprised of 11 biomarkers that have specific pathways related to chronic pain and provides novel, objective information about the biochemical origins of pain.

Finch Healthcare

Healthcare Services Company that leverages technology to help practices increase profitability, prevent employee burnout and focus on their patients. Finch has been providing accurate and prompt insurance verifications, streamlined prior authorization workflows and efficient medical billing processes to practices for over 20 years.

Franklin Rx Pharmacy

Franklin Rx Pharmacy is a private and locally-owned pharmacy that will handle all your individual pharmaceutical and surgical supply needs with knowledge, safety, and care. Due to our extensive experience in the industry we work closely with many health care facilities including but not limited to long-term care, nursing homes, hospitals, assisted living and retirement homes, group homes, home care agencies, clinics, outreach programs, and more.

With Franklin Rx Pharmacy, you get the kind of personalized care and services you can't get anywhere else. As a locally-owned, private pharmacy, Franklin Rx Pharmacy builds a close, personal relationship with their patients and provides education with high-quality customer service. We have the best knowledge and expertise in the community. That along with our highly trained staff, excellent customer service, and personal care, makes us the best choice in the area for pharmaceutical care. Above all else, our mission is to improve the lives of those we serve by making innovative and high-quality health and pharmacy services safe, affordable and easy to access.

We are the workers' compensation & no fault medication specialists in New York and New Jersey

GE Healthcare

GE Healthcare is the \$18 billion healthcare business of GE (NYSE: GE). As a leading global medical technology, pharmaceutical diagnostics and digital solutions innovator, GE Healthcare enables clinicians to make faster, more informed decisions through intelligent devices, data analytics, applications and services, supported by its Edison intelligence platform.

Hudson Regional Hospital

Hudson Regional Hospital's mission is to build a healthier community by providing exceptional care for all Hudson County residents through a significant investment in new technology including the Institute of Robotic Surgery featuring the Da Vinci XI Robotic System, ExcelsiusGPS and the Mazor Robotic Guidance System and access to more physician groups including some of the best physicians in the NYC-metro area.

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

Kowa Pharmaceuticals America, Inc.

Kowa Pharmaceuticals America, Inc., headquartered in Montgomery, Alabama, is committed to continuing the development and commercialization of safe, effective healthcare solutions primarily in the areas of acute pain and cardiometabolic diseases. Established in September 2008, Kowa Pharmaceuticals America focuses its efforts on the successful commercialization of its current and near-term portfolio of pharmaceutical products and business development activities

Mainstay Medical

Mainstay Medical (www.mainstaymedical.com) is focused on bringing to market ReActiv8®, an implantable Restorative Neurostimulation system which targets the spine stabilizing muscles in people with refractory disabling Chronic Mechanical Low Back Pain and who are not indicated for spine surgery or SCS.

Max More Spine

MaxMore Spine provides a full endoscopic spine line of equipment and technologies, including a unique facet-joint system, specialized intradiscal system, biportal, cervical, burrs and much more. MaxMore was founded in 2006 in Munich Germany and today is present in over 40 countries worldwide. Please visit www.max-more.com

Medtronic

Bold thinking. Bolder actions. We are Medtronic.

We lead global healthcare technology and boldly attack the most challenging health problems facing humanity by searching out and finding solutions. Our Mission — to alleviate pain, restore health, and extend life — unites a global team of 90,000+ passionate people. Powered by our diverse knowledge, insatiable curiosity, and desire to help all those who need it, we deliver innovative technologies that transform the lives of two people every second, every hour, every day. Expect more from us as we empower insight-driven care, experiences that put people first, and better outcomes for our world.

In everything we do, we are engineering the extraordinary.

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.

Modernizing Medicine

The modmed® Pain Management suite includes a cloud-based electronic health records (EHR) system, practice management system, revenue cycle management, telehealth and patient engagement tools designed to improve productivity by adapting to each doctor's style of practice, remembering preferences and automatically suggesting documentation and billing codes.

Nalu

Nalu is a medical technology company focused on developing and commercializing innovative and minimally invasive solutions for patients with chronic neuropathic pain. The Nalu Neurostimulation System delivers gentle electrical pulses to the nervous system to modulate pain signals to the brain. For more information visit, www.nalumed.com.

Contact: marketing@nalumed.com

Address: 2320 Faraday Ave, Suite 100, Carlsbad, CA 92008, Phone: 760-448-2360

NeuroStar

NeuroStar Advanced Therapy is proven for people who haven't benefited from prior antidepressant medication. Covered by most insurance. The #1 TMS choice of doctors with over four million treatments performed across the country. The only TMS with durability demonstrated over 12 months. Backed by the largest clinical dataset of any TMS for depression. Website: <https://neurostar.com/>

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Nevro HFX

Introducing HFX™, Nevro's one comprehensive platform for individualized relief from chronic pain. Built on the outcomes from 70,000+ patients, HFX combines innovative technologies, advanced therapies, and end-to-end patient support to achieve the best possible results.

Omnia Medical

Omnia Medical is a progressive orthopedic implant company with Engineering and Patient Care as its principal focus. Led by engineers, Omnia Medical designed the PsiF (Posterior Sacroiliac Fusion) implant in 2014, establishing one of the earliest posterior systems to enter the market. Today, Omnia Medical continues to transform the market with innovation and ingenuity.

Pacira BioSciences

Pacira BioSciences, Inc. is the industry leader in its commitment to non-opioid pain management and regenerative health solutions to improve patients' journeys along the neural pain pathway. To learn more about Pacira, including the corporate mission to reduce overreliance on opioids, visit www.pacira.com.

PainCast

PainCast is an exclusive online educational resource dedicated to pain physicians. Learn and grow with procedural videos, lectures, and interviews from pain experts around the world. Stop by our booth to sign up for a free account, and get 25% off for Pro Membership.

engineered to be more™

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— livable

— comfortable

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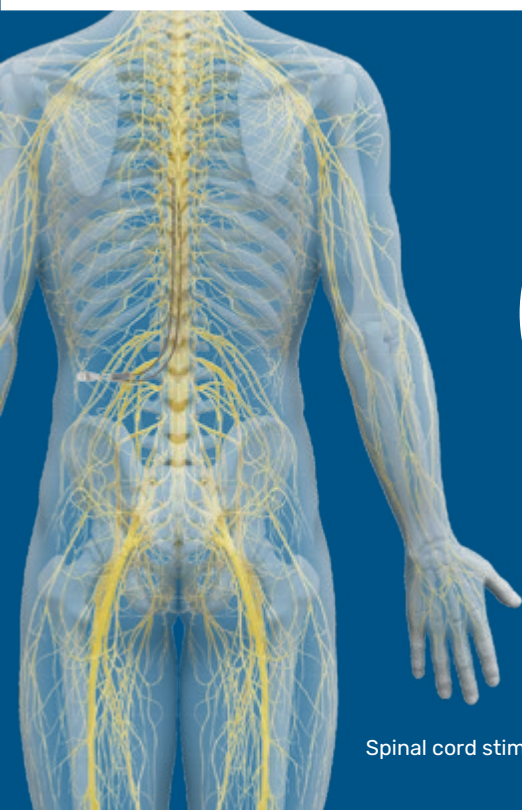
— upgradeable

— adaptable

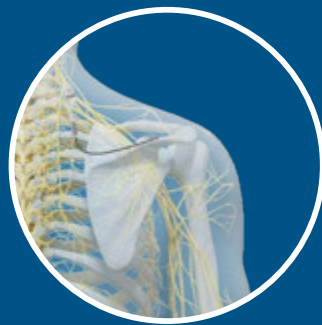


nalu[™]
neurostimulation

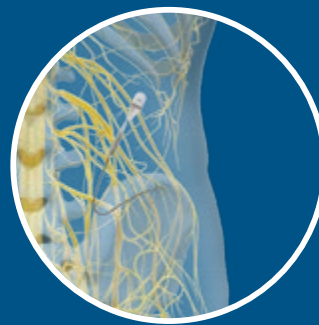
FDA Cleared for SCS & PNS



Spinal cord stimulation



Peripheral nerve stimulation
of the suprascapular nerve
for chronic shoulder pain



Peripheral nerve stimulation
of the superior cluneal nerves
for chronic low back pain



Peripheral nerve stimulation
of the genicular nerves
for chronic knee pain

PainExam

NRAP Academy presents the PainExam Board Review and CME series featuring up to 49.5 CME Credits, over 17 hours of audio and video lectures. The PainExam Complete package includes: the Missed Keyword Lecture Series, Regenerative Medicine for Spine Disease Course, Imaging for the Pain Practitioner Lecture and Ultrasound course for Interventional Pain Physicians. For live training and ultrasound workshops going to PainExam.com/events!

Pentec Health

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.

Plymouth Medical

Plymouth Medical is an Orthobiologics company specializing in a wide array of evidence-based products spanning the therapeutic continuum from Hyaluronic Acid to FDA compliant, minimally manipulated autologous cell therapies and devices. Our customers have exclusive access to our groundbreaking Education Portal, experienced Clinical Education Team providing training and support as well as our value-added services. www.plymouthmedical.com

Regenexx

Regenexx® is the worldwide, elite physician network utilizing the world's most innovated BMAC and blood platelet procedures for orthopedics. Regenexx® is devoted to growing your regenerative medicine practice through a turnkey approach with advanced technology, proven research with a patient registry database, physician/lab training, marketing with patient referrals and continued support services.

Relievent

Relievent Medsystems is a medical device company focused on treating chronic low back pain. After more than a decade of clinical validation and procedural development, the company developed the Intracept® Procedure – a minimally invasive treatment that targets the basivertebral nerve for the relief of chronic vertebrogenic low back pain. Learn more at relievent.com.

Saluda Medical

Saluda Medical is a global company revolutionizing the field of neuromodulation. The Evoke® System is the first and only smart spinal cord stimulator that can sense the spinal cord's response to stimulation and automatically adjust therapy 4+ million times per day to maintain consistent neural activation. Learn more at www.saludamedical.com.

Spinal Simplicity

The Minuteman is a posterior, non-pedicle fusion device, intended for use at a single level in the non-cervical spine (T1-S1). It is indicated for the treatment of lumbar spinal stenosis, degenerative disc disease, and/or spondylolisthesis.

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The SPRINT® PNS System, by SPR® Therapeutics, marks an innovative shift in the treatment of pain. Our breakthrough, 60-day treatment is a First-Line™ PNS option uniquely designed to recondition the central nervous system to provide significant and sustained relief from chronic pain — without a permanent implant, nerve damage or the risk of addiction.

Stimwave

Stimwave Technologies offers the Freedom PNS and SCS neurostimulator devices powered by a unique and innovative wireless energy transfer to the implanted electrode array and receiver thru HF-EMC. Stimwave's FDA-cleared and CE-marked product portfolio can treat nerves from the neck down that are causing chronic pain.

Stratus Medical

Stratus Medical is a medical device company focused on reducing pain and suffering and improving the quality of life for chronic pain patients through innovation. Our leading technology, the Nimbus Multitined Expandable Electrode was invented by a pain medicine physician who wanted a large volume radiofrequency lesion to reduce the anatomical uncertainty when treating targeted nerves with the goal to provide predictable and sustained pain relief.

Superior Spine

Superior Spine has serviced the NY/NJ pain management community for the last 11 years. We consistently bring new and innovative products to pain management physicians that improve patient care and build strong practices. We pride ourselves for having the most comprehensive product portfolio. We have come to be perceived as partners rather than just a typical distributor.

SurgiCore

SurgiCore is comprised of 11 state-of-the-art ambulatory surgery centers (ASCs) located in the Tri-State area. Our facilities are located in Paterson, Saddlebrook, Jersey City, Manalapan, Montvale, Queens, Brooklyn, Bronx, Far Rockaway, New York City (Fifth Avenue and Midtown).

Our facilities are used by world-renowned physicians, surgeons and anesthesiologists who are committed to highly personalized patient safety and care. With access to advanced medical technology, highly credentialed physicians and convenient locations in New York and New Jersey, more surgeons are choosing to do business with SurgiCore.

Tenon

The Catamaran™ SI Joint Fusion System offers a unique InferiorPosterior approach to stabilizing the SI joint using a single, titanium implant. The device consists of fenestrated pontoons fixated in the ilium and sacrum and an osteotome bridge that transfixes the joint along its longitudinal axis with fusion as the objective.

TerSera Therapeutics

TerSera Therapeutics is an international biopharmaceutical company focused on improving patients' lives by identifying, developing, and commercializing meaningful products that address unmet medical needs.

Vertos

Vertos Medical is an interventional pain company committed to developing innovative, minimally invasive treatments for lumbar spinal stenosis (LSS). mild, its proprietary technology, is an image-guided outpatient procedure that removes a major root cause of LSS through an incision smaller than the size of baby aspirin and requires no implants, no general anesthesia, and no stitches. To learn more, visit www.vertosmed.com.

VIVEX Biologics

VIVEX Biologics is a commercial stage, regenerative solutions company improving patient care through the innovation of tissue-based therapies. VIVEX strives to create treatment options and solutions that will improve the lives of patients. By leveraging the resources of the nation's oldest civilian tissue bank, VIVEX focuses on products and new technologies to meet the evolving needs of surgeons and patients while sustaining its 50-year commitment to serving and honoring tissue donors and families. The company's portfolio of allograft implants and other signature VIVEX solutions include viable bone matrices; demineralized bone matrices, such as cortical and cancellous bone in strips, sponges, fibers, and putties; amnion and dermis grafts; and intervertebral disc tissue allografts.

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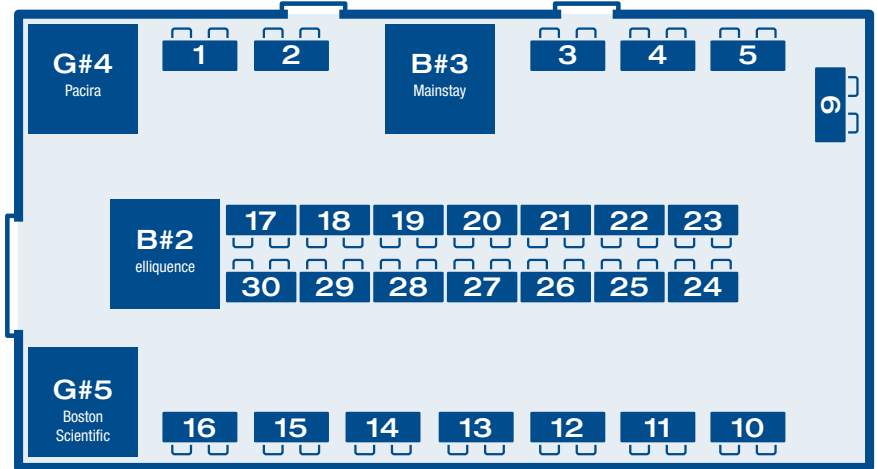
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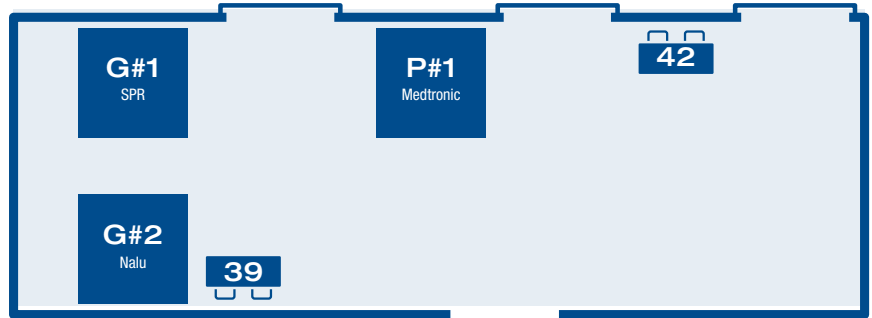
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- 19 Stratus
- 20 Epimed
- 21 Franklin Rx
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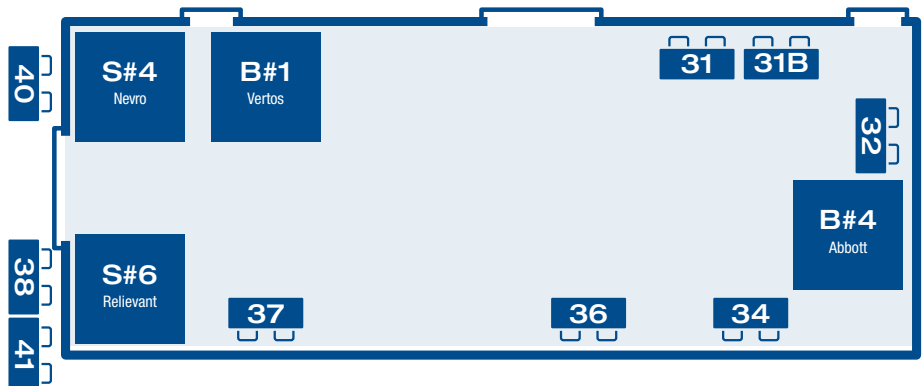
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