



## Main Meeting Thursday, November 18, 2021

6:15 am	7:15 am	Wellness Program			
6:30 am -	7:45 am	Registration and Breakfast in Foyer			
7:00 am -	7:45 am	Non-CME Ancillary Event by Heron Therapeutics (breakfast included)			Imperial AB
7:45 am -	8:15 am	Welcome and Opening Addresses			Grand Ballroom A
7:45 am		Meeting Chair Welcome	Maged Guirguis, MD		
8:00 am		Presidential Address	Samer Narouze, MD, PhD		
8:15 am -	9:45 am	RC-01 Refresher Course Neuropathic Pain: Overview of the Current Treatment and Future Therapeutic Approaches	Moderator: Magdalena Anitescu, MD, PhD		Grand Ballroom A
8:15 am		Best of Meeting Abstract #2505			
8:20 am		Current View on Pathophysiology and New Hypothesis for CRPS	Chad Brummett, MD		
8:40 am		Scalable, Population Approach to Perioperative Behavioral Medicine: Results from Multiple Randomized Trials	Beth Darnall, PhD	1.50 credits 	
9:00 am		Novel Treatments in Pharmacology and Interventions	Leonardo Kapural, MD, PhD		
9:20 am		Panel Discussion and Open Forum			
9:45 am -	10:00 am	Break and Refreshments in Foyer			
10:00 am	12:00 pm	RC-02 Refresher Course: Headache Management: An Updated Reality	Moderator: Carlos Pino, MD		Grand Ballroom A
10:00 am		Best of Meeting Abstract #2369			
10:05 am		Stronger Together: Collaboration for Multidisciplinary Approach to Headache Management	Lynn Kohan, MD		
10:25 am		Percutaneous Interventional Strategies for Migraine Prevention	Meredith Barad, MD	2.00 credits 	
10:45 am		Pediatric Headache Treatment & Management	Shalini Shah, MD, MBA		
11:05 am		Pros and Cons of Newer Targeted Migraine Therapy	Alexander Feoktistov, MD, PhD		
11:25 am		TMS and Neuromodulation Therapies for Headache: Current Evidence	Prasad Shirvalkar, MD, PhD		
11:45 am		Panel Discussion and Open Forum			
12:00 pm	1:30 pm	Lunch On Own			
		or			
12:15 pm	1:15 pm	Problem-Based Learning Discussions (PBLD) Lunch			Imperial Ballroom AB
		Open to all, tickets \$90, lunch included, see list			1.00 credit
1:30 pm -	3:30 pm	RC-03 Refresher Course: Spinal Cord Stimulation: Excellent Tool for the Right Patient	Moderator: Salim Hayek, MD, PhD		Grand Ballroom A
1:30 pm		Best of Meeting Abstract #2292			
1:35 pm		Multisociety Recommendations for Patient Selection and Spinal Cord Stimulation Trials	Harsha Shanthanna, MD, PhD		2.00 credits
1:55 pm		Salvage Therapy: Is that Real?	Sam Eldabe, MD, FRCA		



# 20th Annual Pain Medicine Meeting

November 18-20, 2021 | San Francisco, CA  
#ASRAFALL21 | www.asra.com/pain



2:15 pm	Utilization of Closed Loop Stimulation Beyond Clinical Trials	Lawrence Poree, MD, PhD	
2:35 pm	Role of Glial Cell Activation and its Use in Clinical Practice	Eellan Sivanesan, MD	
2:55 pm	Advancement of IDDS Therapy in Chronic Non Cancer Pain	Jennifer Hah, MD	
3:15 pm	Panel Discussion and Open Forum		

**3:30 pm - 3:45 pm Break and Refreshments in Foyer**

<b>3:45 pm - 5:15 pm</b>	RC-04 Refresher Course: <b>Beyond Opioid Crisis: Lessons Learned and Need for Alternatives</b>	Moderator: Eugene Viscusi, MD	Grand Ballroom A
3:45 pm	Opioid Epidemic Current State and What Practically Helped	Asokumar Buvanendran, MD	1.50 credits
4:05 pm	Newer Opioid Target Medications: Are They Safer?	Gina Votta-Velis, MD, PhD	
4:25 pm	Alternative Therapy What has Helped and What has Failed	Mark Wallace, MD	
4:45 pm	Panel Discussion and Open Forum		

<b>5:15 pm - 6:30 pm</b>	Special Event <b>Welcome Networking Reception and Exhibit Hall Grand Opening</b>		Grand Ballroom B
	Free to all attendees, guest tickets \$30; 21 and over only		

## Main Meeting Friday, November 19, 2021

<b>6:15 am - 7:15 am</b>	<b>Wellness Program</b>		
<b>7:00 am - 7:45 am</b>	<b>Non-CME Ancillary Event by Avanos (breakfast included)</b>		Imperial AB

<b>7:30 am - 8:00 am</b>	<b>Getting Started</b>		Foyer
	Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café		Grand Ballroom B

<b>8:00 am - 9:45 am</b>	PS-01a Parallel Session <b>Chronic Back Pain in Non-Surgical Candidates</b>	Moderator: Dalia Elmofty, MD	Grand Ballroom A
8:00 am	Best of Resident/ Fellow Travel Award Abstract #2160		
8:05 am	Pathophysiology and Etiology of Low Back Pain	Nagy Mekhail, MD	1.75 credits
8:25 am	Role of Healthy Back and Functional Restoration Programs	Yashar Eshraghi, MD	
8:45 am	Non-Surgical Decompression for Spinal Stenosis Pros and Cons	Aaron Calodney, MD	
9:05 am	Neuromodulation and Novel Interventions Targeting Basivertebral Nerve and Multifidus Muscle Current Evidence	Harsha Shanthanna, MD, PhD	
9:25 am	Panel Discussion and Open Forum		

<b>8:00 am - 9:45 am</b>	PS-01b Parallel Session <b>Updates on Cancer Pain Management</b>	Moderator: Gina Votta-Velis, MD	Imperial AB
8:00 am	Best of Resident/ Fellow Travel Award Abstract #2299		
8:05 am	An Interdisciplinary Approach for Best Outcome	Oscar de Leon-Casasola, MD	1.75 credits
8:25 am	Cancer Pain is there a Role for Infusion Therapy and Cannabinoids Treatment	May Chin, MD	
8:45 am	Interventional Treatments in Cancer Pain: Do No Harm	Amitabh Gulati, MD	
9:05 am	Cancer and Palliative Care IDDS Pearls and Pitfalls	Robert Goldstein, MD	
9:25 am	Panel Discussion and Open Forum		



# 20th Annual Pain Medicine Meeting

November 18-20, 2021 | San Francisco, CA  
 #ASRA FALL21 | www.asra.com/pain



<b>9:45 am</b>	<b>10:30 am</b>	<b>Break in Exhibit Hall</b>		Grand Ballroom B
Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café PA, Nurse Practitioner, and Nursing Meet and Greet				
<b>10:30 am</b>	<b>12:15 pm</b>	<b>PS-02a Parallel Session</b> <b>Radiofrequency Ablation: Current Evidence for Spine and Joint Pain</b>	Moderator: Kevin Vorenkamp, MD	Grand Ballroom A
10:30 am		Is There a True Clinical Difference in Lesion Size: Applied Physics of RFA	Magdalena Anitescu, MD, PhD	1.75 credits
10:50 am		Update on Consensus Practice Guidelines for Cervical RFA	Samer Narouze, MD, PhD	
11:10 am		Joints RFA and Update on Clinical Outcome and Patient Selection	Leonardo Kapural, MD, PhD	
11:30 am		Treating Discogenic and Vertebral Bone Pain	Aaron Calodney, MD	
11:50 am		Panel Discussion and Open Forum		
<b>10:30 am</b>	<b>12:15 pm</b>	<b>PS-02b Parallel Session</b> <b>Chronic Pain in Pediatrics: Current Science and Integrative Practice</b>	Moderator: Hariharan Shankar, MD, MBBS	Imperial AB
10:30 am		Opioids in Pediatric Chronic Pain Patients: Recognizing Problems and Prescribing Safely	Amber Borucki, MD	1.75 credits
10:50 am		Controlling Post-Surgical Pain and Importance of Early Rehabilitation After Surgery	Karen Boretsky, MD	
11:10 am		Current Available Treatment Strategies and Future Promising Therapies	Maged Mina, MD	
11:30 am		Utilization of Innovation in Cognitive Behavioral Therapy	Lauren Harrison, PhD	
11:50 am		Panel Discussion and Open Forum		
<b>12:15 pm - 1:45 pm</b>	<b>Lunch On Own</b>			
<b>12:30 pm</b>	<b>1:15 pm</b>	<b>Non-CME Ancillary Event by Medtronic (lunch included)</b>		Grand Ballroom A
<b>12:30 pm</b>	<b>1:15 pm</b>	<b>Non-CME Ancillary Event by Nevro (lunch included)</b>		Imperial AB
<b>1:45 pm - 3:30 pm</b>		<b>PS-03a Parallel Session</b> <b>Advancement in the Field of Peripheral Nerve Stimulation: Lessons Learned</b>	Moderator: Einar Ottestad, MD	Grand Ballroom A
1:45 pm		Best of Resident/ Fellow Travel Award Abstract #2229		
1:50 pm		Is There a Role for PNS in the Perioperative Setting?	Dawood Sayed, MD	1.75 credits
2:10 pm		Utilization in Post Amputation and Post-Surgical Pain Current Evidence	Jennifer Hah, MD	
2:30 pm		Patient Selection for Wireless Devices and MRI Compatibility	Alexios Carayannopoulos, DO	
2:50 pm		Avoiding Complication, Safety and Guidelines for Trial and Implantation		
3:10 PM		Panel Discussion and Open Forum	Konstantin Slavin, MD	
<b>1:45 pm - 3:30 pm</b>		<b>PS-03b Parallel Session</b> <b>Translating Chronic Pain Research Into Practice</b>	Moderator: Andrea Chadwick, MD	Imperial AB
1:45 pm		From Animal Studies to Patient Trials Current Challenges and Innovative Solutions	Nick Knezevic, MD, PhD	1.75 credits
2:05 pm		Big Data Registries and Utilization of AI for Research	Harsha Shanthanna, MD, PhD	
2:25 pm		Would Following Guidelines Change Everyday Clinical Practice, What is the Evidence?	Tim Deer, MD	
2:45 pm		Securing Recourses for Clinical Trials and How to Avoid Bias	Steven Cohen, MD	



# 20th Annual Pain Medicine Meeting

November 18-20, 2021 | San Francisco, CA  
#ASRA FALL21 | [www.asra.com/pain](http://www.asra.com/pain)



3:05 pm	Panel Discussion and Open Forum		
<b>3:30 pm - 4:15 pm</b>	<b>Break in Exhibit Hall</b>		Grand Ballroom B
Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café New Member Meet and Greet			
<b>4:15 pm - 6:00 pm</b>	<b>PS-04a Parallel Session Regenerative Medicine: What Has Worked and Where is the Evidence?</b>	Moderator: Alexios Carayannopoulos, DO	Grand Ballroom A
4:15 pm	Recent Advances in Regenerative Medicine Science	Jianguo Cheng, MD, PhD	1.75 credits
4:35 pm	Advancing the Evidence Base of Regenerative Medicine	Dmitri Souza, MD, PhD	
4:55 pm	Regulatory Landscape for Regenerative Medicine in 2021	Christine Hunt, DO, MS	
5:15 pm	Integration of Regenerative Medicine into Your Practice	Thomas Buchheit, MD	
5:35 pm	Panel Discussion and Open Forum		

<b>6:00 pm - 7:30 pm</b>	<b>Special Event Resident/Fellow and Pain Program Directors Meet and Greet</b>		Plaza B
Complimentary to Residents/Fellows and Fellowship Directors			
<b>6:00 pm - 7:30 pm</b>	<b>Non CME: Measuring The Pace of Innovation: Evidence From the Latest Groundbreaking Clinical Trials</b>	Moderator: Samer Narouze, MD	Yosemite B
6:00 pm	MRI for In Vivo Analysis of Ablation Zones Formed by Cooled Radiofrequency Neurotomy to Treat Chronic Joint Pain Across Multiple Axial Spine Sites	William A. Keck Mehul Desai, MD	
6:15 pm	Abbott NeuroSphere™ Virtual Clinic Multi-center Prospective Pilot Study Results	Brad Maruca Timothy R Deer, MD	
6:30 pm	Innovation Driven by Science: FAST SCS & the COMBO RCT	Nilesh Patel, MD Louis Raso, MD	
6:45 pm	Medtronic, Leading Innovation in SCS and TDD	Charlie Covert Ricardo Vallejo, MD	
7:00 pm	Panel Discussion and Open Forum		

## Main Meeting Saturday, November 20, 2021

<b>6:15 am - 7:15 am</b>	<b>Wellness Program</b>		
<b>7:00 am - 7:45 am</b>	<b>Non-CME Ancillary Event by SPR Therapeutics (breakfast included)</b>		Imperial AB
<b>7:30 am - 8:00 am</b>	<b>Getting Started</b>		Foyer
Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café			
<b>8:00 am - 10:00 am</b>	<b>Plen-01 Plenary Session Disruptive, Constructive, or Destructive Innovations</b>	Moderator: Maged Guirguis, MD	Grand Ballroom A
8:00 am	Challenges in Utilizing Digital Medicine for Chronic Pain Management	Kevin Vorenkamp, MD	2.00 credits



# 20th Annual Pain Medicine Meeting

November 18-20, 2021 | San Francisco, CA  
#ASRAFALL21 | [www.asra.com/pain](http://www.asra.com/pain)



8:20 am	Novel Innovations and Burn Out: Does it Help or Increase Burden?	Dalia Elmofty, MD	 Well-ness
8:40 am	Is Learning Worth the Effort? Embedding Knowledge in Patient Care	Sean Mackey, MD	
9:00 am	Virtual Reality for Patients with Chronic Abdominal Pain	Brennan Spiegel, MD, MSHS	
9:20 am	Panel Discussion and Open Forum		

<b>10:00 am - 10:45 am</b>	<b>Break in Exhibit Hall</b>		Grand Ballroom B
	Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café		

<b>10:45 am - 12:45 pm</b>	Plen-02 Plenary Session <b>Risk Mitigation and Complication Management for Best Practice</b>	Moderator: Dalia Elmofty, MD	Grand Ballroom A
10:45 am	Guidelines to Prevent Infection and Complications from Interventional Procedures	David Provenzano, MD	2.00 credits 
11:05 am	New Multisociety Guidelines to Prevent Complications from Cervical Facet Intervention	Steven Cohen, MD	
11:25 am	Needles Gone Wild	Samer Narouze, MD, PhD	
11:45 am	Do We Need Steroid Stewardship? Guidelines for Dosing, Effectiveness and Complications	Michael Hooten, MD	
12:05 pm	Panel Discussion and Open Forum		

<b>12:45 pm - 2:15 pm</b>	Special Event <b>Excellence in ASRA Awards Luncheon</b>	Moderators: Samer Narouze, MD, and David Provenzano, MD	Grand Ballroom A
12:45 pm	Buffet Lunch Service (lunch tickets: \$10 member, \$20 non-member)		0.75 credits 
12:55 pm	Brief Report on Graduate Student Research Grant	Adlai Pappy, II, MD, MBA	
1:00 pm	Presidential Scholar Award	Kevin Vorenkamp, MD	
1:05 pm	Chronic Pain Award Research Grant Update	Gina Votta-Velis, MD, PhD	
1:12 pm	Introduction to Bonica Award Recipient	Samer Narouze, MD, and David Provenzano, MD	
1:15 pm	John J. Bonica Award Lecture: How I Helped My Patients...and Colleagues Through Research	Oscar de Leon-Casasola, MD	
2:00 pm	Adjournment and Move to Next Session		

<b>2:15 pm - 4:30 pm</b>	Plen-03 Plenary Session <b>A Whole New World: National Crisis and Bias Impact on Chronic Pain Practice</b>	Moderator: Amy Pearson, MD	Grand Ballroom A
2:15 pm	National Crisis and Bias Effects on Population Management	Richard Rosenquist, MD	2.25 credits
2:35 pm	Lessons Learned from a Recent Pandemic: Evolutionary Changes in Pain Practice	Ameet Nagpal, MD	 Pain & SUD  WRAPM
2:50 pm	Is There a Role for Gender and Race Affecting Treatment Outcomes	Johnathan H Goree, MD	 Mentor/Leader  Well-ness  PnEd
3:10 pm	Taking the Bias out of Pain Diagnosis and Treatment	Johnathan H Goree, MD	
3:30 pm	Resilience Against Discrimination and Inequality	Tina Doshi, MD, MHS	
3:50 pm	Panel Discussion and Open Forum		

<b>4:30 pm - 7:00 pm</b>	<b>Session Adjournment / Free Time</b>		
--------------------------	--	--	--

<b>7:00 pm - 10:00 pm</b>	Special Event <b>ASRA Annual Meeting Celebration: Cityscape</b>		Cityscape
	Tickets: \$50 member, \$75 non-member, \$30 children 9 and under		



## Problem Based Learning Discussions (PBLD) Lunch Thursday, November 18, 2021, 12:15-1:15 pm

(open to all, \$90 additional fee, includes lunch)

1.00 credit each

Imperial Ballroom AB

PBLD-01	Peripheral Nerve Stimulators in Chronic Pain Management	Einar Ottestad, MD Neu
PBLD-02	Harm Reduction: How to Implement the Use of Buprenorphine, Naltrexone, Naloxone in Your Practice	Mark Wallace, MD PnEd  MOCA
PBLD-03	Mixing Alcohol and Marijuana with Prescribed Opioids: Current Guidelines and Best Practice	Gary Schwartz, MD MOCA
PBLD-04	Headaches: When to Worry and What to Do	Meredith Barad, MD HA
PBLD-05	<del>The World of Implantable Medical Electronic from Head to Toe for Pain: Imaging Study Compatibility and Requirements</del>	Cancelled Neu
PBLD-06	A Step by Step Guide to Secure Grants and Design Clinical Trials in Academic Practice	Andrea Chadwick, MD, MS WRAPM
PBLD-07	A Step by Step Guide to Start Research in My Private Practice	Nick Knezevic, MD, PhD WRAPM
PBLD-08	The Art of Intrathecal Infusion Therapy: Trouble Shooting Intrathecal Pump and When and How to Change Medications	Magdalena Anitescu, MD Neu MOCA
PBLD-09	<del>Inclusion, Diversity, and Disparity in Pain Medicine</del>	Cancelled WRAPM
PBLD-10	Telemedicine and Second Opinion Virtual Medicine Programs for Pain Management	Lynn Kohan, MD MOCA
PBLD-11	How to Conduct Independent Medical Examination	Kenneth Candido, MD 
PBLD-12	How to Get You Back on the Playing Field: Common Sports Injuries Conventional and Regenerative Approaches	Yashar Eshraghi, MD
PBLD-13	The Pain Fellowship: A Program Directors Guide on How to Match into Your Fellowship of Choice	Gina Votta-Velis, MD WRAPM
PBLD-14	Radiofrequency Beyond the Spine Indications and Evidence	Rene Przkora, MD, PhD
PBLD-15	Requirements and Patient Selection to Start Infusion Therapy in My Practice	May Chin, MD MOCA
PBLD-16	<del>New Patient Complaining of Whole Body Pain. How to Manage? - Cancelled</del>	Cancelled
PBLD-17	DRG Stimulation: Patient Selection, Troubleshooting and Managing Complications	Lawrence Poree, MD, PhD Neu
PBLD-18	<del>Bone Pain: How to Implement Vertebroplasty, Kyphoplasty and Intercept Procedure into Your Interventional Practice</del>	Cancelled MOCA
PBLD-19	<del>Chronic Pain After COVID-19: Clinical Repercussions</del>	Cancelled
PBLD-20	Patient Selection for Decompression Procedure and How to Manage Complications	Timothy Lubenow, MD 



## Workshops

### Thursday, November 18, 2021

(additional fee, physicians only)

8:15 am - 9:45 am	WS-01 Hands-On Ultrasound Workshop (live model) (\$345) <b>Advanced Musculoskeletal Ultrasound for Pain Medicine (Advanced Course)</b> Major joints of upper extremity Major joints of lower extremity	Lead: Philip Peng, MD MBBS Faculty: Meredith Barad, MD Jennifer Hah, MD Maged Mina, MD	Associate Faculty: Leena Mathew, MD Nafiseh Warner, MD	Golden Gate 3 1.50 credits US
8:15 am - 9:45 am	WS-02 Hands-on Fluoroscopy Workshop (cadaver) (\$345) <b>Sympathetic Blocks and RFA: Abdomen/Pelvis/Lower Extremities (Celiac, Splanchnic, LSB, Superior Hypogastric, Ganglion Impar)</b>	Lead: May Chin, MD Faculty: Jianguo Cheng, MD, PhD Amitabh Gulati, MD	Associate Faculty: Rany Abdallah, MD, PhD Melinda Lawrence, MD	Golden Gate 6-7 1.50 credits
10:00 am - 12:00 pm	WS-03 Hands-On Ultrasound Workshop (live model) (\$345) <b>Ultrasound Use in Pain Medicine: Truncal and Plane Blocks</b> (erector spinae, quadratus lumborum, TAP, fascia iliaca, paravertebral, intercostal, PECS)	Lead: Maged Mina, MD Faculty: Nabil Elkassabany, MD, MSCE Antoun Nader, MD Dmitri Souza, MD, PhD	Associate Faculty: Vafi Salmasi, MD, MSCR Sayed Wahezi, MD	Golden Gate 3 2.00 credits US
10:00 am - 12:00 pm	WS-04 Hands-On Fluoroscopy Workshop (cadaver) (\$345) <b>Neuromodulation Beginner</b> SCS trial and Implant SCS cervical trial	Lead: David Provenzano, MD Faculty: Sam Eldabe, MD, FRCA Salim Hayek, MD, PhD Eellan Sivanesan, MD	Associate Faculty: Chong Kim, MD	Golden Gate 6-7 2.00 credits Neu MOC
1:30 pm - 3:30 pm	WS-06 Hands-On Ultrasound Workshop (live model) (\$345) <b>US: Head and Neck: Supra Orbital, Occipital, Maxillary, Cervical MBB, Stellate</b>	Lead: Kenneth Candido, MD Faculty: Kenneth Candido, MD Johnathan H Goree, M.D. Antoun Nader, MD	Associate Faculty: Leena Mathew, MD	Golden Gate 4-5 2.00 credits HA US
1:30 pm - 3:30 pm	WS-07 Hands-On Fluoroscopy Workshop (cadaver) (\$345) <b>Head and Neck: Trigeminal, Stellate, Sphenopalatine, and Mandibular/Maxillary Branches</b>	Lead: Timothy Lubenow, MD Faculty: Immanuel Lerman, MD, MS Maxim Eckmann, MD Amitabh Gulati, MD	Associate Faculty: Chong Kim, MD Nafiseh Warner, MD	Golden Gate 6-7 2.00 credits HA
3:45 pm - 5:15 pm	WS-09 Hands-On Fluoroscopy Workshop (cadaver) (\$345) <b>Cervical Injections and RFA: Epidural and Facet Joint Steroid Injections and Medial Branch Blocks and RFA</b>	Lead: Richard Rosenquist, MD Faculty: Aaron Calodney, MD Immanuel Lerman, MD, MS Dmitri Souza, MD, PhD	Associate Faculty: Rany Abdallah, MD, PhD Yasmine Hoydonckx, MD	Golden Gate 6-7 1.50 credits HA

## Workshops

### Friday, November 19, 2021

(additional fee, physicians only)

8:00 am - 10:00 am	WS-10 Hands-On Fluoroscopy & Ultrasound Workshop (live model) (\$345) <b>Regenerative Medicine Workshop</b> Evolving the State of the Art: Research and Clinical Practice in Regenerative Medicine	Lead: Dmitri Souza, MD, PhD Faculty: Jianguo Cheng, MD, PhD Thomas Buchheit, MD Christine Hunt, DO, MS	Associate Faculty: Yasmine Hoydonckx, MD Nathan Harrison, MD	Golden Gate 3 2.00 credits Reg
8:00 am - 12:15 pm	WS-11 Half-Day Special Session Fluoroscopy & Ultrasound Workshop (cadaver, live model) (\$445) <b>Peripheral Nerve Stimulation and Ultrasound Neurography (Advanced Course)</b> Upper Extremity Lower Extremity Trunk and Back Occipital and Supra Orbital Nerve Stim	Lead: Timothy Deer, MD Faculty: Alexios Carayannopoulos, DO Einar Ottestad, MD Lawrence Poree, MD, PhD	Associate Faculty: Vafi Salmasi, MD, MSCR. Armando Villarreal, MD, MBA	Golden Gate 4-5 4.25 credits Neu
8:00 am - 10:00 am	WS-12 Hands-On Fluoroscopy & Ultrasound Workshop (cadaver, live model) (\$345) <b>Major Joints Blocks and RFA Denervation (Hip, Knee, and Shoulder)</b>	Lead: Carlos Pino, MD Faculty: Ameet Nagpal, MD	Associate Faculty: Rany Abdallah, MD, PhD	Golden Gate 6-7 2.00 credits



**20th Annual  
Pain Medicine Meeting**  
November 18-20, 2021 | San Francisco, CA  
#ASRAFALL21 | www.asra.com/pain



Philip Peng, MD, MBBS

Chong Kim, MD

<b>10:30 am - 12:30 pm</b>	WS-13 Hands-On Ultrasound Workshop (live model) (\$345) <b>Botex for Migraines and Spasticity, Adult and Pediatric Populations</b>	Lead: Lynn Kohan, MD	Golden Gate 3
		Faculty: Alexander Feoktistov, MD, PhD Shalini Shah, MD, MBA	Associate Faculty: Melinda M. Lawrence, MD
			2.00 credits 
<b>10:30 am - 12:30 pm</b>	WS-14 Resident/Fellow Workshop (cadaver) (\$30) <b>Fluoroanatomy and Hands-On Fluoroscopy</b>	Lead: Kenneth Candido, MD	Golden Gate 6-7
		Faculty: May Chin, MD Timothy Lubenow, MD	Associate Faculty: Nathan Harrison, MD Christine Oryhan, MD
			2.00 credits 
<b>1:30 pm - 3:30 pm</b>	WS-15 Hands-On Ultrasound Workshop (live model) (\$345) <b>Ultrasound in Pain Medicine I</b> Knee and Hip Block	Lead: Philip Peng, MD MBBS	Golden Gate 4-5
		Faculty: Robert Goldstein, MD Amitabh Gulati, MD Gary Schwartz, MD	Associate Faculty: Sayed Wahezi, MD
			2.00 credits 
<b>1:45 pm - 6:00 pm</b>	WS-16 Half-Day Special Session Fluoroscopy Workshop (cadaver) (\$445) <b>Thoracic / Lumbar Vertebral Augmentation, Implantable Augmented Devices, Radiofrequency (RF) Annuloplasty (Advanced Course)</b> Basivertebral Nerve RFA	Lead: Jeffrey Petersohn, MD	Golden Gate 6-7
		Faculty: Magdalena Anitescu, MD, PhD Yashar Eshraghi, MD Leonardo Kapural, MD, PhD Maunak Rana, MD	Associate Faculty: Vasudha Goel, MD
			4.25 credits
<b>4:00 pm - 6:00 pm</b>	WS-17 Hands-On Fluoroscopy Workshop (cadaver) (\$345) <b>Thoracolumbar Injections and RFA</b> Thoracic and Lumbar Medial Branch Blocks and RFA, Thoracolumbar and Sacral Transforaminal Epidural Steroid Injections	Lead: Aaron Calodney, MD	Golden Gate 3
		Faculty: Kenneth Candido, MD Mark Wallace, MD	Associate Faculty: Melinda M. Lawrence, MD Vafi Salmasi, MD, MSCR
			2.00 credits

**Workshops**  
**Saturday, November 20, 2021**  
(additional fee, physicians only)

<b>8:00 am - 10:00 am</b>	WS-18 Hands-On Fluoroscopy Workshop (cadaver) (\$345) <b>Advanced Neuromodulation (Advanced Course)</b> Dorsal Root Ganglion Trial Closed Loop Stimulation Trial  SCS Troubleshooting Station and Implant	Lead: Sam Eidabe, MD, FRCA	Golden Gate 6-7
		Faculty: Johnathan H Goree, M.D. Lawrence Poree, MD, PhD  Eellan Sivanesan, MD	Associate Faculty: Melinda M Lawrence, MD Armando Villarreal, MD; MBA
			2.00 credits 
<b>10:45 am - 12:45 pm</b>	WS-19 Resident/Fellow Workshop (live model) (\$30) <b>Sonoanatomy and Hands-On Ultrasound</b>	Lead: Hariharan Shankar, MD, MBBS	Golden Gate 3
		Faculty: Robert Goldstein, MD Jennifer Hah, MD Amy Pearson, MD	Associate Faculty: Leena Mathew, MD Nafiseh Warner, MD
			2.00 credits 
<b>10:45 am - 12:45 pm</b>	WS-20 Hands-On Fluoroscopy Workshop (cadaver) (\$345) <b>Direct and Indirect Spinal Decompression</b> Minimally Invasive Spine Decompression Interspinous Process Spacer	Lead: Asokumar Buvanendran, MD	Golden Gate 4-5
		Faculty: Leonardo Kapural, MD, PhD Timothy Lubenow, MD	Associate Faculty: Chong Kim, MD Sayed Wahezi, MD
			2.00 credits
<b>2:15 pm - 4:15 pm</b>	WS-21 Hands-On Ultrasound Workshop (live model) (\$345) <b>Ultrasound in Pain Medicine II</b> Common Pain Procedures: Suprascapular Nerve, Ilioinguinal Nerve, Genitofemoral Nerve, Stellate Ganglion, Greater Occipital, Piriformis, Pudendal	Lead: Robert Goldstein, MD	Golden Gate 3
		Faculty: Anuj Bhatia, MD Maged Mina, MD Shalini Shah, MD, MBA	Associate Faculty: Vasudha Goel, MD Sayed Wahezi, MD
			2.00 credits 
<b>2:15 pm - 4:15 pm</b>	WS-22 Hands-On Fluoroscopy Workshop (cadaver) (\$345) <b>Surgical Skills, Intrathecal Pumps and Battery Placement</b>	Lead: Salim Hayek, MD, PhD	Golden Gate 4-5
		Faculty: Amitabh Gulati, MD Dawood Sayed, MD Erika Petersen, MD	Associate Faculty: Melinda M. Lawrence, MD Armando Villarreal, MD; MBA
			2.00 credits 
<b>2:15 pm - 4:15 pm</b>	WS-23 Hands-on Fluoroscopy Workshop (cadaver) (\$345) <b>Sacroiliac Joint Procedures Injections, (RFA) and Sacroiliac Joint Fusion</b> Fusion and Injection RFA	Lead: Brian Bruel, MD	Golden Gate 6-7
		Faculty: Sandeep Amin, MD Aaron Calodney, MD	Associate Faculty: Rany Abdallah, MD, PhD Christine Oryhan, MD
			2.00 credits



## Ask the Experts Interactive Sessions

### Thursday, November 18, 2021

(open to all attendees, seats are limited)

<b>7:00 am - 8:00 am</b>	Fellows and Residents Special Session: <b>Basic Coding and Compliance</b>	Moderator: David Provenzano, MD	Plaza A
<b>8:15 am - 9:45 am</b>	IS-01 Ask the Experts Interactive Session <b>The World of Tomorrow: Is it Happening Already?</b>	Moderators: Kevin Vorenkamp, MD Maged Guirguis, MD	Imperial Ballroom AB
8:15 am	Applying AI to Neuroimaging	Andreas Rauschecker, MD, PhD	1.50 credits
8:30 am	Unrevealing the Mysteries of Chronic Pain: Role of Gene Therapy	Nick Knezevic, MD, PhD	
8:45 am	Brain Stimulation for Multidimensional Treatment of Refractory Chronic Pain	Prasad Shirvalkar, MD, PhD	
9:00 am	Panel Discussion and Open Forum		
<b>10:00 am - 12:00 pm</b>	IS-02 Ask the Experts Interactive Session <b>Living in Harmony with Surgical Specialties: Do No Harm</b>	Moderator: Konstantin Slaviv, MD	Plaza A
10:00 am	Surgeon Perspective on Collaboration with Pain Physicians in a Multidisciplinary Setting	Erika Petersen, MD	2.00 credits
10:15 am	Is there a Role for the Pain Physician in the Preoperative Period?	Yasmine Hoydonckx, MD	
10:30 am	Precision Perioperative Behavioral Pain Medicine	Beth Darnall, PhD	
10:45 am	Chronic Persistent Surgical Pain and How to Manage	Hesham Eisharkawy, MD, MBA, MSc	
11:00 am	Panel Discussion and Open Forum		
<b>10:00 am - 12:00 pm</b>	Spec-01 Special Interactive Session ( <i>\$75, registration required</i> ) <b>Musculoskeletal and Neurologic Physical Examination for the Pain Medicine Practitioner</b>	Moderator: Brian Bruel, MD	Golden Gate 4-5
	Faculty will demonstrate how to examine gait; coordination; mental status; cranial and peripheral nerves; motor; reflexes; small and large joint exam. Two models will be available for participants to practice under faculty guidance.	Immanuel Lerman, MD, MS Sandeep Amin, MD	2.00 credits 
<b>1:30 pm - 3:30 pm</b>	IS-03 Ask the Experts Interactive Session <b>Providing the Right Guidance to Develop Guidelines in Pain Medicine</b>	Moderator: Brian Sites, MD	Plaza A
1:30 pm	The Guideline Development Process - Why is it Important to Get it Right?	Brian Sites, MD	2.00 credits
1:45 pm	Assessing and Grading Evidence to Inform the Knowledge Base for Developing Guidelines	Anuj Bhatia, MD	
2:00 pm	Working Back from the End-Result: How are Guidelines Assessed and How can Knowing this Help Us Develop Better Guidelines?	Yasmine Hoydonckx, MD	
2:15 pm	Panel Discussion and Open Forum		
<b>3:45 pm - 5:15 pm</b>	IS-04 Ask the Experts Interactive Session <b>Infusion Therapy in Chronic Pain a Practical Approach</b>	Moderator: Hariharan Shankar, MD, MBBS	Plaza A
	Challenges Starting Infusion Therapy in Outpatient Practice	Alaa Abd-Elisayed, MD	1.50 credits
	Guidelines for Ketamine and Lidocaine Infusions and Patient Selection	Magdalena Anitescu, MD	
	Infusion Therapy for Treatment of Chronic Headaches	Alexander Feoktistov, MD, PhD	
	Emerging Infusion Therapies for Chronic Pain and Current Evidence	Kenneth Candido, MD	
<b>3:45 pm - 5:15 pm</b>	Spec-02 Special Interactive Session ( <i>\$75, registration required</i> ) <b>Reading and Interpretation of Spinal Imaging and EMG</b>	Moderator: Maunak Rana, MD	Imperial AB
3:45 pm	Interpretation and Utility of EMG/NCS: When to Order and How to Use in Caring for Patients	Ameet Nagpal, MD	1.50 credits
4:05 pm	Pain Generators: Correlating MRI Findings to Patient Symptoms	Erika Petersen, MD	
4:25 pm	Just Because You Can, Doesn't Mean You Should: Choosing Candidates for Interventional Pain Procedures	Sandeep Amin, MD	
4:45 pm	Panel Discussion and Open Forum		



**Ask the Experts Interactive Sessions**  
**Friday, November 19, 2021**  
(open to all attendees, seats are limited)

7:00 am - 8:00 am		Fellows and Residents Special Session <b>Negotiating Your Contract</b>	Jay Grider, DO	Plaza A	
10:30 am - 12:15 pm		IS-06 Ask the Experts Interactive Session <b>Major Joints Pain: Role of Interventions in the Continuum of Care</b>	Moderator: Maxim Eckmann, MD	Plaza A	
10:30 am		The Role of Pain Medicine in Perioperative Surgical Home	Sandra Kopp, MD	1.75 credits	
10:45 am		Radiofrequency Ablation and Other Interventional Treatments for Chronic Knee Pain	Steven Cohen, MD		PnEd
11:00 am		Evidence on Best Practice for SIJ Fusion and How to Decide on Surgical vs Percutaneous Fusion	Rene Przkora, MD, PhD		
11:15 am		Panel Discussion and Open Forum			
1:30 pm - 3:30 pm		Spec-03 Special Interactive Session ( <i>\$75, registration required</i> ) <b>Musculoskeletal and Neurologic Physical Examination for the Pain Medicine Practitioner</b>	Moderator: Ameet Nagpal, MD	Golden Gate 3	
		Faculty will demonstrate how to examine gait; coordination; mental status; cranial and peripheral nerves; motor; reflexes; small and large joint exam. Two models will be available for participants to practice under faculty guidance.	Alexander Feoktistov, MD, PhD Alaa Abd-Elsayed, MD	2.00 credits	PnEd
1:45 pm - 3:30 pm		IS-07 Ask the Experts Interactive Session <b>Treating Challenging Conditions Current Updates in 2021</b>	Moderator: Anuj Bhatia, MD	Plaza A	
1:45 pm		Cases of Patients with Chronic Pelvic Pain not Responding to Medical Management	Nafisseh Warner, MD	1.75 credits	
2:00 pm		Multidisciplinary Treatment Approach for Patients with Chronic Non-Surgical and Post Surgical Abdominal Pain	Brennan Spiegel, MD Mshs		PnEd MOCA
2:15 pm		New Symptom of Facial Pain: What to do Now and What is the Recommendation if it Became Chronic	Immanuel Lerman, MD, MS		
2:30 pm		Panel Discussion and Open Forum			
4:15 pm - 6:00 pm		IS-05 Ask the Experts Interactive Session <b>Pain Biomarkers and Functional Imaging</b>	Moderator: Sean Mackey, MD, PhD	Imperial Ballroom AB	
4:15pm		Advances and Future Prospects of Neuroimaging for Pain	Sean Mackey, MD, PhD	1.75 credits	
4:30 pm		Clinical and Research Applications of Biomarker Data	Tina Doshi, MD, MHS		
4:45pm		Pain as a Pre Clinical Stage of Dementia	Nafisseh Warner, MD		
5:00pm		Panel Discussion and Open Forum			
4:15 pm - 6:00 pm		IS-08 Ask the Experts Interactive Session <b>The Happiness Advantage a Pathway to Wellness</b>	Moderator: Oscar de Leon-Casasola, MD	Plaza A	
4:15 pm		Chronic Fatigue, Stress and Depression "When Healers Need Healing"	Andrea Chadwick, MD, MS	1.75 credits	
4:30 pm		Connection, Compassion, and Challenges with Chronic Pain Patients	Amy Pearson, MD		WRAPM Well-thrives
4:45 pm		Expanding Access to Behavioral Medicine in Chronic Pain: Evidence-Based Solutions	Beth Darnall, PhD		FMD PnEd
5:00 pm		Utilizing Functional Medicine in Pain Management and its Intersection with Metabolic Health	Leena Mathew, MD		
5:15 pm		Panel Discussion and Open Forum			



## ASRA-ASA Practice Management Portfolio

Saturday, November 20, 2021

(open to all, no registration required but seats are limited)

<b>8:00 am - 10:00 am</b>	PMP-01 Practice Management Portfolio <b>Business Fundamentals-Interactive Session</b>	Moderator: Maxim Eckmann, MD	Plaza A
8:00 am	How to Negotiate and Re-Negotiate Your Contract	Jeffrey Petersohn, MD	2.00 credits
8:20 am	To Sell or Not Sell to a Large Group	Aaron Calodney, MD	 
8:40 am	How to Negotiate with Insurers	Jay Grider, DO	
9:00 am	Investing in Ambulatory Surgery Care: Is it a Smart Decision	David Provenzano, MD	
9:20 am	Salary Based vs RVU Based Compensation: Which is Better for Physicians and Patient Outcomes	Richard Rosenquist, MD	
9:40 am	Panel Discussion and Open Forum		
<b>10:45 am - 12:45 pm</b>	PMP-02 Practice Management Portfolio <b>Innovations in Practice Management</b>	Moderator: Jay Grider, DO	Plaza A
10:45 am	Telehealth Coding and Payment Up to the Minute	Kevin Vorenkamp, MD	2.00 credits
11:05 am	How Can Machine AI Impact My Practice	Maxim Eckmann, MD	
11:25 am	Non Traditional Income Stream: Investing in Innovation and Research	Yashar Eshraghi, MD	
11:45 am	Using Social Media for Marketing and Patients Awareness a Double Edged Sword	Christine Hunt, DO, MS	
12:05 pm	Update on Coding for Evaluation and Management	Gary Schwartz, MD	
12:25 pm	Panel Discussion and Open Forum		
<b>2:15 pm - 4:30 pm</b>	PMP-03 Practice Management Portfolio <b>Managing the Practice and Quality Improvement</b>	Moderator: Maxim Eckmann, MD	Plaza A
2:15 pm	Lean Patient Flow: Key to Improving Revenue and Patient Satisfaction	Jay Grider, DO	2.25 credits
2:40 pm	Leveraging Your EMR for Better Efficiency and Compliance with Clinical Quality Measures	Gary Schwartz, MD	
3:05 pm	Avoid Coding and Compliance Tug-of-War: Understanding the Basics	Kevin Vorenkamp, MD	
3:30 pm	Panel Discussion and Open Forum		



## PA / Nurse Practitioner / Nursing Program Friday, November 19, 2021

9:45 am - 10:30 am	<b>PA/NP/Nursing Meet and Greet in the Chat Room</b>	Exhibit Hall
Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café		

## PA / Nurse Practitioner / Nursing Program Saturday, November 20, 2021

7:30 am - 8:00 am	<b>Getting Started</b>	Foyer
Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café		Exhibit Hall

<b>8:00 am - 10:00 am</b>	<b>PA-NP 01: Perioperative and Acute Pain Management of the Complex Pain Patient</b>	Moderator: Heather Jackson, NP, PhD	Imperial AB
8:00 am	Welcome and Introductions	Samer Narouze, MD	2.00 credits
8:05 am	Identification of Patients at Risk for Persistent Postoperative Pain	Hesham Elsharkawy, MD, MBA, MSc	
8:30 am	Case Studies - Pre-op Optimization (Opioid Tapers, Buprenorphine Management, Non-opioid Management)	Oluwatobi Hunter, DNP	
8:55 am	Inpatient Buprenorphine Induction: When and How	Vafi Salmasi, MD, MSCR	
9:20 am	The Role of TPS	Kimberlee Bayless, DNP	
9:45 am	Panel Discussion and Open Forum		

<b>10:00 am - 10:45 am</b>	<b>Break in Exhibit Hall</b>	Exhibit Hall
Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café		

<b>10:45 am - 12:45 pm</b>	<b>PA-NP 02: Skills Lab and Workshop</b>	Moderator: Tina Doshi, MD	Imperial AB
10:45 am	Musculoskeletal and Neuro Exam	Ameet Nagpal, MD	2.00 credits
11:10 am	Joint and Spine Basic Imaging Review and Can Not Miss Complications	Brian Bruel, MD	
11:35 am	Trigger Point Injections	Tina Doshi, MD	
12:00 pm	Intrathecal Pumps (Hands On): Reprogramming and Refill Management	Kimberlee Bayless, DNP	
12:25 pm	Infusion Therapies (Hands On) Protocols and Monitoring Techniques	Rany Abdallah, MD, PhD	

<b>2:15 pm - 4:30 pm</b>	<b>PA-NP 03: Management of Patients with Complex Chronic Pain</b>	Moderator: Oluwatobi Hunter, DNP	Imperial AB
2:15 pm	Brief Overview Interventional Procedures & Imaging (SCS, IDD and PNS): Is There a Role for Wireless Systems	Alexios Carayannopoulos, DO, MPH	2.25 credits
2:40 pm	Update on Billing, Coding and Insurance Authorization	Amy Turner, RN BSN MMHC CPC CHC CHIAP	
3:05 pm	Interpretation, Appropriate Use of Risk Stratification and Compliance Monitoring Tools in Opioid Prescribing	Heather Jackson, NP, PhD	
3:30 pm	Cannabis and Cannabinoids Utilization and Safety in Chronic Pain Pros and Cons	Mark Wallace, MD	
3:55 pm	Open Forum: Difficult Conversations Case Studies: Urine Drug Screen, PDMP Reports, Cannabis, etc.	Kimberlee Bayless, DNP/ Heather Jackson, NP, PhD	
4:15	Panel Discussion and Open Forum		

# Moderated Poster Sessions

(non-CME)

		Yosemite A		Yosemite B	
Thursday		Track A	Moderator	Track B	Moderator
8:15 am -	9:45 am	<b>MP-01a</b>	Harsha Shanthanna, MD, PhD	<b>MP-01b</b>	Karen Boretsky, MD
10:00 am -	12:00 pm	<b>MP-02a</b>	Gina Votta-Velis, MD	<b>MP-02b</b>	Thomas Buchheit, MD
1:30 pm -	3:30 pm	<b>MP-03a</b>	Eugene Viscusi, MD	<b>MP-03b</b>	Hesham Elsharkawy, MD, MBA, MSc
3:45 pm -	5:15 pm	<b>MP-04a</b>	Nick Knezevic, MD, PhD	<b>MP-04b</b>	Chad Brummett, MD
Friday		Track A	Moderator	Track B	Moderator
8:00 am -	9:45 am	<b>MP-05a</b>	Konstantin Slavin, MD	<b>MP-05b</b>	Chad Brummett, MD
10:30 am -	12:15 pm	<b>MP-06a</b>	Leena Mathew, MD	<b>MP-06b</b>	Sandeep Amin, MD
1:45 pm -	3:30 pm	<b>MP-07a</b>	Nagy Mekhail, MD	<b>MP-07b</b>	Jianguo Cheng, MD, PhD
4:15 pm -	6:00 pm	<b>MP-08a</b>	Steven Cohen, MD	<b>MP-08b</b>	Eellan Sivanesan, MD
Saturday		Track A	Moderator	Track B	Moderator
8:00 am -	10:00 am	<b>MP-09a</b>	Michael Hooten, MD	<b>MP-09b</b>	Sandeep Amin, MD
10:45 am -	12:45 pm	<b>MP-10a</b>	Alaa Abd-Elseyed, MD	<b>MP-10b</b>	Rene Przkora, MD, PhD
2:15 pm -	4:30 pm	<b>MP-11a</b>	Sean Mackey, MD	<b>MP-11b</b>	Carlos Pino, MD