

November 17-19, 2016 Hilton San Diego Bayfront Hotel San Diego, California

See you there!

## Thursday, November 17, 2016

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18.3 AM 18.4	8:00 AM			Welcome and Op	ening Addresses						
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188 AV       Secretalize Joint and Lumber, Theoretic, and Secretalize Joint and Lumber, Theoretic, and Secretalize Joint Biols, Market Joint Biols	8:45 AM										
0.13.04 9.33 A4 9.35 A4 1135 A4	9:00 AM		MSK Ultrasound			Medicine:					
234 AM       Aver open is all attendes, no Application applica				Denervation Techniques	Cervical racet Joint Diocks	now to rrevent mem:					
1950 M       Inclusion regurated but axists are introded axists ar						Now open to all attendees no					
No.       Deck       Post       Deck       Post       Beak       Beak       Beak       Post       Beak						registration required but seats					
10:59 AV 19:59 A											
Bertester Course         WS-04         WS-04         WS-04         Merode VS-000000000000000000000000000000000000		Break in Foyer				n Foyer					
105.47 1139.42 1139.42 1139.42 1139.42 1139.42 1139.42 1139.44	10:30 AM	Refresher Course				IS-02	MP-02				
Image: Intervention ragin: Intervention regiments of the set of the				Hands-On Fluoroscopy	Hands-On Fluoroscopy and	Ask the Expert Interactive					
11:30 AL       Imaging in Pain         11:30 AL       Reference Course         12:30 FM       Reference Course         13:30 FM       Reference Course         13:30 FM       Reference Course         13:30 FM       Reference Course         13:30 FM       Reference Course         14:30 FM       Reference Course         14:30 FM       Reference Course         13:30 FM       Reference Course         13:30 FM       Reference Course         14:30 FM       Reference Course         15:30 FM       Reference Course         14:30 FM       Reference Course         14:30 FM       Reference Course         14:30 FM       Reference Course         15:30 FM       Reference Course		New Treatment Target									
1135 AM       Mediai strain-ford       Strain-ford       Strain-ford       Strain-ford       Strain-ford       Strain-ford       Strain-ford       Mediai strain-ford				Blocks:	Fluoroscopy for Abdominal						
12:00 PM       Nov open to all attendes, no nogistation required but sees an initied         12:00 PM       Texes       Secring/Adhesiolysis       Secrecycel (Scalad) Access)       Nov open to all attendes, no nogistation required but sees an initied         12:00 PM       Texes       Texes       February Section required but sees an initied         13:00 PM       Texes       February Section required but sees and Migrane for the Pain Physician       Nov open to all attendes, no nogistation required but sees and Migrane for the Pain Physician         1:30 PM       Refresher Course       Hands-On Fluoroscopy Workshop (Gadaw)       WS-07         2:30 PM       Headsches and Migrane for the Pain Physician       Section Physician Course       MP-03         3:30 PM       Section Physician Physician       Ceatawn       Section Physician Course       MP-04         3:30 PM       Section Physician Physician       Texes       Forecative Discography, Biscipary Workshop (Gadaw)       MR-07, SPECT, Myelogram       Moderated ePosters         3:30 PM       Section Physician Physician       Texes       Texes       Texes       Refresher Course       MP-04         4:40 PM       Break in Foyer       Texes       Nov open to all attendes, no nogistation required but sets are initiad       Nov open to all attendes, no nogistation required but sets are initiad         5:30 PM       Inagen of Philoscopy and Utasoon Workshop				Intraarticular, Epidural	(TAP/Ilioinguinal, Pudendal						
12:15 PM       Access)       are imited         12:20 PM       TOCKT       Second       are imited         12:30 PM       TOCKT       Euclide       Second       Access)       are imited         12:30 PM       TOCKT       TOCKT       Euclide       Second       Access)       are imited         13:30 PM       TOCKT       TOCKT       Euclide       Second       MP-03       MP-03         2:30 PM       Refresher Course       Hands-On Fluoroscopy       WS 07       Hands-On Fluoroscopy       Moderated aPosters       Moderated aPosters         2:30 PM       Readule an Physician       Intradiscal Procedures:       Provocative Discography, Biscupiasy       Second       Second       Me-03       Moderated aPosters         3:30 PM       Sister Provestive Discography, Biscupiasy       Spanchnic and Celleo;       Spanchnic and Celleo;       MR-03       Moderated aPosters         4:30 PM       Imaging in Pain       Imaging Complex Cancer       Second       MP-04       Me-03         4:30 PM       Imaging in Pain       Fusion: Unscoody workshop (cadaver), Version: Cases       Moderated aPosters       MP-04         5:30 PM       Fusion: Unscoody for Hip and Knee Second       MS-06       As the Expert Interactive Second       MP-04       Second       Me-04	12:00 PM				Internus/Piriformis,						
1:245 PM       TOCKET         1:00 PM       PBLD Lunchoon         1:15 PM       Intervention of the Pain Physician         2:00 PM       Refresher Course         1:45 PM       Intervention of the Pain Physician         2:30 PM       Intervention of the Pain Physician         2:30 PM       Sympathicia Brocedures:         3:30 PM       Sympathicia Brocedures:         3:30 PM       Sympathicia Brocedures:         3:30 PM       Spinal magning:         3:30 PM       Refresher Course         4:35 PM       Refresher Course         4:30 PM       Refresher Course         5:30 PM       Imaging in Pain         5:30 PM       Imaging in Pain         5:30 PM       Sinstein Foyer         5:30 PM       Imaging Conplex Canoer         5:30 PM       Refresher Course         5:30 PM       Imaging Conplex Canoer         5:30 PM <t< td=""><td>12:15 PM</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	12:15 PM										
1:245 PM       TOCKET         1:00 PM       PBLD Lunchoon         1:15 PM       Intervention of the Pain Physician         2:00 PM       Refresher Course         1:45 PM       Intervention of the Pain Physician         2:30 PM       Intervention of the Pain Physician         2:30 PM       Sympathicia Brocedures:         3:30 PM       Sympathicia Brocedures:         3:30 PM       Sympathicia Brocedures:         3:30 PM       Spinal magning:         3:30 PM       Refresher Course         4:35 PM       Refresher Course         4:30 PM       Refresher Course         5:30 PM       Imaging in Pain         5:30 PM       Imaging in Pain         5:30 PM       Sinstein Foyer         5:30 PM       Imaging Conplex Canoer         5:30 PM       Refresher Course         5:30 PM       Imaging Conplex Canoer         5:30 PM <t< td=""><td>12:30 PM</td><td></td><td>-</td><td></td><td></td><td><u> </u></td><td></td></t<>	12:30 PM		-			<u> </u>					
1:5 PA         PBLD Luncheon           1:30 PA            1:30 PA            1:45 PA            1:45 PA            1:45 PA            1:45 PA            2:00 P4         Refresher Course           Headaches and Migranes for the Pain Physician         Interaction of the Pain Physician         MP-03           3:00 PM            4:00 PM            4:00 PM            4:00 PM            1:00 PM            1:00 PM            1:00 PM            1:00 PM		TICKET									
1:3:PM       Image: Physical Processing Physical Physical Processing Physical Physical Processing Physical Physica Physical Physical Physical Physical Physica Physical Physical Phy	1:00 PM										
1:45 PM       Incert	1:15 PM	PBLD Luncheon			Lunch	on Own					
2:00 PM       Refresher Course       NP-03       MP-03       Ask the Expert Interactive Session       MP-03         2:30 PM       Headaches and Migranes for the Pain Physician       Intradiscal Procedures:       Sympathetic Blocks Uper Body and Abdomen       Session       MR-03         3:00 PM       3:00 PM       Site PM       Sympathetic Blocks Uper Body and Abdomen       MR-04       MR-04         3:00 PM       Site PM       Sympathetic Blocks Uper Body and Abdomen       MR-05       MR-05         3:00 PM       Site PM       Sympathetic Blocks Uper Body and Abdomen       MR-04         4:00 PM       Break in Foyer       Ercert WS-08       MR-04         4:00 PM       Refresher Course       Intradiscal Procedures:       Noderated ePosters         4:30 PM       Mefresher Course       Intradiscal Procedures:       Tricket WS-08       IS-04       As the Expert Interactive Session       MP-04         4:30 PM       Maging in Pain       Refresher Course       Intradiscal frequency Ablation       IS-04       As the Expert Interactive Session       MP-04         4:45 PM       Imaging in Pain       Fusion: Ultrasound and Fluorescopy and Ultrasound Workshop       IS-04       As the Expert Interactive Session       Moderated ePosters         5:30 PM       Sing PM       Sing PM       Sympathetis Blocks, Superior	1:30 PM										
2:15 PM         Headaches and Migranes for the Pain Physician         WS-06 Hands-On Fluoroscopy (cadaver)         WS-07 Hands-On Fluoroscopy (cadaver)         Ask the Expent Interactive Spinatelic Blocks Upper Body and Abdomen (Cervico-Thoraic Chain, Splanchnic and Celiae)         Ask the Expent Interactive Spinatelic Blocks Upper Body and Abdomen (Cervico-Thoraic Chain, Splanchnic and Celiae)         MP-03 Ask the Expent Interactive Spinatelic Blocks Upper Body and Abdomen (Cervico-Thoraic Chain, Splanchnic and Celiae)         Me-03 Moderated ePosters           3:05 PM 3:05 PM 3:05 PM 3:05 PM 3:05 PM 3:05 PM 4:00	1:45 PM										
2:19 PM       Hands-On Fluoroscopy (cadaver)       Ask the Experi Interactive Session       Ask the Experi Interactive Session         2:30 PM       Intradiscal Procedures:       Sympathetic Blocks Upper Body and Abdoment (Cervice Thorace Chain, Splanchnics and Cellae)       Reading and Interpretation of Spinal Imaging:       Moderated ePosters         3:00 PM       Intradiscal Procedures:       Sympathetic Blocks Upper Body and Abdoment (Cervice Thorace Chain, Splanchnics and Cellae)       Reading and Interpretation of Spinal Imaging:       Moderated ePosters         3:00 PM       Intradiscal Procedures:       Sympathetic Blocks Upper Body and Abdomen (Cervice Thorace Chain, Splanchnics and Cellae)       Not shop (Cervice Thorace Chain, Splanchnic)       Not shop (Cervice Thorace Ch	2:00 PM	Defeashes Osume					MD 00				
2:30 PM       Headches and Migranes for the Pain Physician       Workshop (cadaver)       Workshop (cadaver)       Workshop (cadaver)       Session         3:00 PM       Intradiscal Procedures: Provocative Discography, Biacupiasty       Sympathetic Block Uppr Body and Abdomen (Cervico-Thoracic Chain, Splanchnic and Celiac)       Reading and Interpretation of Splinal Imaging: MRI, CT, SPECT, Myelogram         3:00 PM       Break in Foyer       Interference       Interference         4:15 PM       Refresher Course Handson PM       Interference       Interference         4:30 PM       Refresher Course Handson PM       Interference       Interference         4:30 PM       Refresher Course Handson PM       Interference       Interference         5:00 PM       Fusion: Ultrasound Workshop (cadaver), live modei)       Interference       MP-04         5:00 PM       Fusion: Ultrasound Workshop (cadaver), live modei)       Moderated ePosters Sympathetic Blocks, Superior Hypogastic Plexus, Ganglion Impar)       Ask the Expert Interactive Session       Session         5:00 PM       Fusion: Ultrasound Workshop (cadaver)       More plane blocks, Superior Hypogastic Plexus, Ganglion       Nov open to all attendees, no registration required but seats are limited         5:00 PM       Fusion: Tursou Tursou trasound Workshop (cadaver)       Impar)       Nov open to all attendees, no registration required but seats are limited         6:00 PM	2:15 PM	Refresher Course									
2:45 PM       2:45 PM       Sympathetic Blocks Upper Body and Abdomen (Cervico-Thorade Chain, Spinal Imaging In Pain Imaging	2:30 PM			Workshop	Workshop						
3:00 PM       Biacuplasty       (Cervico-Thoracic Chain, Splanchnic and Celiac)         3:30 PM       Splanchnic and Celiac)       (Cervico-Thoracic Chain, Splanchnic and Celiac)         3:30 PM       Break in Foyer       Ticker         4:10 PM       Refresher Course       WS-08         4:30 PM       Imaging in Pain       Ticker         4:30 PM       Imaging in Pain       Ticker         4:30 PM       Fusion: Ultrasound Workshop       IS-04         4:30 PM       Manda-On Fluoroscopy and Vickabop       NP-04         4:30 PM       Fusion: Ultrasound Workshop       IS-04         6:15 PM       Fusion: Ultrasound Workshop       Sympathetic Blocks, Pelvic and Lower Extremity (Lumbar Signature)       Ask the Expert Interactive Session       Moderated ePosters         5:30 PM       Fusion: Ultrasound Morkshop       Eliocks, Radiofrequency Denervation (Including Coole)       Sympathetic Blocks, Delvic and Lower Extremity (Lumbar Signature)       Now open to all attendees, no registration required but seats are limited         5:30 PM       Fusion       Inpati (Including Coole)       Impaging In Pain       Now open to all attendees, no registration required but seats are limited         5:30 PM       Fusion       Inpati (Including Coole)       Impaging In Pain       Now open to all attendees, no registration required but seats are limited         6:00 PM	2:45 PM					Spinal Imaging:					
3:35 PM         3:30 PM         3:30 PM         3:30 PM         3:30 PM         3:45 PM         4:00 PM       Break in Foyer         4:15 PM         4:15 PM         4:30 PM         4:30 PM         4:30 PM         4:45 PM         6:00 PM         5:30 PM         5:45 PM         6:00 PM         6:15 - 7:30 PM             5:15 - 7:30 PM	3:00 PM				(Cervico-Thoracic Chain,	MRI, CT, SPECT, Myelogram					
3:45 PM       Imaging in Pain       Imaging	3:15 PM				Splanchnic and Celiac)						
4:00 PM       Break in Foyer         4:15 PM       Refresher Course         4:30 PM       Imaging in Pain         4:45 PM       Imaging in Pain         5:00 PM       Fusion: Ultrasound Workshop (cadaver, live model)         5:15 PM       Sympathetic Blocks, Pelvic and Lower Extremity (Lumbar Sympathetic Block, Superior Hypogastric Plexus, Ganglion Impar)       Managing Complex Cancer Cases       Now open to all attendees, no registration required but seats are limited         6:00 PM       5:15 PM       Special Event											
Break in Foyer       Break in Foyer       Break in Foyer         4:15 PM       Refresher Course       TICKET       WS-08       WS-09       IS-04       Ask the Expert Interactive Session       Moderated ePosters         4:45 PM       Imaging in Pain       Fusion: Ultrasound Workshop (cadaver, live model)       Sympathetic Blocks, Pelvic and Lower Extremity (Lumbar Sympathetic Block, Superior Hypogastric Plexus, Gangtion Impar)       Managing Complex Cancer Cases       Moderated ePosters         5:00 PM       5:30 PM       State Provide and Lower Extremity (Lumbar Sympathetic Block, Superior Hypogastric Plexus, Gangtion Impar)       Now open to all attendees, no registration required but seats are limited       Now open to all attendees, no registration required but seats are limited         6:00 PM       Special Event       Special Event       Special Event											
4:30 PM       Refresher Course       WS-08       WS-09       IS-04       MP-04         4:30 PM       Imaging in Pain       Hands-On Fluoroscopy and Ultrasound Workshop (cadaver, ive model)       Hands-On Fluoroscopy Workshop (cadaver, ive model)       Hands-On Fluoroscopy Workshop (cadaver, ive model)       Managing Complex Cancer Cases       Managing Complex Cancer Cases       Moderated ePosters         5:15 PM       Simpathetic Blocks, Radiofrequency Denervation (including Cooled Radiofrequency Denervation (including Cooled Radiofrequency Ablation)       Sympathetic Block, Superior Hypogastric Plexus, Ganglion Impar)       Now open to all attendees, no registration required but seats are limited       Now open to all attendees, no registration required but seats are limited         6:00 PM       Special Event       Special Event       Special Event		Break in Foyer		TIONET		n Foyer					
4:45 PM       Imaging in Pain       Imaging		Refresher Course		WS-08	WS-09						
5:00 PM       Fusion: Ultrasound and Fluoroscopy for Hip and Knee       Sympathetic Blocks, Pelvic and Lower Extremity (Lumbar Sympathetic Blocks, Superior       Managing Complex Cancer Cases         5:15 PM       Blocks, Radiofrequency Denervation (including Cooled Radiofrequency Ablation)       Managing Complex Cancer Cases         5:30 PM       Impar)       Now open to all attendees, no registration required but seats are limited         6:00 PM       Special Event		Imaging in Pain		Ultrasound Workshop	Workshop		Moderated ePosters				
5:15 PM     Fluoroscopy for High and Knee Blocks, Radiofrequency 5:30 PM     and Lower Extremity (Lumbar Sympathetic Blocks, Peinte and Lower Extremity (Lumbar Sympathetic Blocks, Superior Hypogastric Plexus, Ganglion Impar)     Now open to all attendees, no registration required but seats are limited       6:00 PM     6:15 - 7:30 PM     Special Event											
5:30 PM     Sympathetic block, superior     Sympathetic block, superior       5:30 PM     Denervation (including Cooled Radiofrequency Ablation)     Hypogastric Plexus, Ganglion Impar)     Now open to all attendees, no registration required but seats are limited       6:00 PM     Special Event				Fluoroscopy for Hip and Knee	and Lower Extremity (Lumbar	Cases					
5:45 PM     registration required but seats are limited       6:00 PM     Special Event				Denervation (including Cooled	Hypogastric Plexus, Ganglion						
6:00 PM         Special Event	5:45 PM			Radiofrequency Ablation)	impar)	registration required but seats					
Special Event	6:00 PM					are limited					
	6:15 - 7:30 PM			Specia	I Event						
			Win			ning					



See you there!

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## Main Meeting - Thursday, November 17, 2016

7:00 am -	7:45 am	Registration and Breakfast in Foyer		
	0.45			
7:45 am -	8:15 am	Welcome and Opening Addresses Presidential Address	Opport do Loop Copporte MD	Indigo D
7:45 am			Oscar de Leon-Casasola, MD	
7:55 am		ASRA Research Committee Chair Update	Gary Brenner, MD	
8:05 am		Meeting Chair Welcome	Ricardo Vallejo, MD	
		Refresher Course	Moderator:	
8:15 am -	10:15 am	Basic Sciences and Novel Analgesics	Kevin Vorenkamp, MD	Indigo D
8:15 am		Mechanisms Underlying the Transition from Acute to Chronic Postoperative Pain	Alfonso Romero-Sandoval, MD	2 credit
8:40 am		Emerging Pharmacological Strategies for the Treatment of Neuropathic Pain	Mark Wallace, MD	
9:05 am		Current Pharmacological Treatment for Neuropathic Pain: The Evidence	Richard Rosenquist, MD	
9:30 am		Interventional Techniques in Neuropathic Pain, From Blocks to Stimulation: the Evidence	David Provenzano, MD	
9:55 am		Panel Discussion and Open Forum		
10:15 am -	10:30 am	Break and Refreshments in Foyer		
		Refresher Course	Moderator:	
10:30 am -	12:30 pm	Dorsal Root Ganglion (DRG) Is Back: New Treatment Target	Carlos Pino, MD	Indigo D
10:30 am		Chronification of Pain: the Role of Neuroimmune Activation	Alfonso Romero-Sandoval, MD	2 credit
11:00 am		DRG in Radicular Pain: Diagnosis, Pathophysiology, and Rationale for Treatment	Gary Brenner, MD	
11:30 am		Pulsed Radiofrequency and Stimulation of the DRG	Marc Huntoon, MD	
12:00 pm		Panel Discussion and Open Forum		
12:30 pm -	2:00 pm	Lunch On Own		
or 12:45 pm -	1:45 pm	Problem-Based Learning Discussion (PBLD) Luncheon (additional fee)		Indigo Di
12.45 pm -	1.45 pm	robient-based Learning Discussion (rDLD) Luncheon (additional lee)		1 credit
		Refresher Course	Moderator:	
2:00 pm -	4:00 pm	Headaches and Migraines for the Pain Physician	Kevin Vorenkamp, MD	Indigo D
2:00 pm		International Classification of Headaches and Migraine and Pharmacological Treatment	James Watson, MD	2 credit
2:30 pm		Algorithms for Treatment of Chronic Migraines, Medication Overuse, Occipital Headache, Cervicogenic Headache	Imanuel Lerman, MD	HA
3:00 pm		Nothing Worked, Now What? Interventional Techniques for the Treatment of Headaches	Samer Narouze, MD	
3:30 pm		Panel Discussion and Open Forum		
4:00 pm -	4:15 pm	Break and Refreshments in Foyer		
		Refresher Course	Moderator:	
4:15 pm -	6:15 pm	Imaging in Pain	Kevin Vorenkamp, MD	Indigo D
4:15 pm		Functional Brain Imaging in Pain: Overview and Clinical Significance	Sean Mackey, MD	2 credits
4:45 pm		Imaging to Guide Interventions: Are They Reliable Tools?	Steven P. Cohen, MD	
5:15 pm		Making Rational Choices When Selecting the Best Imaging: Alternatives for the	John Carrino, MD	
		Panel Discussion and Open Forum		
5:45 pm				



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See you there!



## Problem Based Learning Discussions (PBLD) Thursday, November 17, 2016, 12:45-1:45 pm (additional fee, lunch included)

1 CME credit each

#### Indigo DH

PBLD-01	Growth and Marketing Strategies for a New or Established Pain Practice	Jason Pope, MD	
PBLD-02	Clinical Implications of Brain Changes Associated with Long-Term Marijuana Use	Francesca Filbey, PhD	
PBLD-03	Regenerative Medicine: Platelet Rich Plasma Injections and Stem Cells - How to Prepare them and Bill Properly	Dmitri Souzdalnitski, MD	
PBLD-04	Patient with a Headache in the First Visit	James Watson, MD	HA
PBLD-05	Intrathecal Drug Combination, Selection, and Guidelines in Non-Cancer Pain	Salim Hayek, MD	
PBLD-06	Starting an Ultrasound Program: An Introduction to Equipment, Patient Selection, and Billing	Antoun Nader, MD	US
PBLD-07	Common Sports Injuries and How to Treat Them	Elizabeth Huntoon, MD	
PBLD-08	Botulin Toxin for Headaches and Other Indications	Michael Ferrante, MD	HA
PBLD-09	Epidural Steroid Injections in 2016	Ramsin Benyamin, MD	
PBLD-10	Interventional Pain and Anticoagulation Guidelines: Details and Practical Application	Honorio Benzon, MD	
PBLD-11	Radiofrequency Beyond the Spine: Knee, Hip, and Shoulder	Jeffrey Petersohn, MD	
PBLD-12	Preparing Your Practice for the Merit-Based Incentive Payment System (MIPS)	Richard Rosenquist, MD	
PBLD-14	Cannabis and Opioids: Combine or Not to Combine and Legal Implications	Mark Wallace, MD	
PBLD-15	Interventions for Headaches Not Responding to Pharmacological Therapies	Magdalena Anitescu, MD	HA
PBLD-16	Opioids in Chronic Non-Cancer Pain: What You Need to Know in 2016	Christine Peeters-Asdourian, MD	
PBLD-17	New Waveforms and Programming in Spinal Cord Stimulation	Timothy Deer, MD	
PBLD-18	How to Best Choose Your Imaging Test in Patients with Pain	John Carrino, MD	
PBLD-19	Conditioning Your Interventions to Performance Improvement Not to Pain Scores: Useful Tips	Christopher Gilligan, MD	
PBLD-20	Neuropathic Pain: Evidence-Based Approach to Pharmacological Management	Andrea Nicol, MD	M <b>₽</b> CA®
PBLD-21	Tips to Manage the Chronic Pain Patient Around Surgery: Carpe Diem?	Marc Huntoon, MD	
PBLD-22	Optimizing the Use of Urine Toxicology Screen in Your Practice	Carlos Pino, MD	
PBLD-23	Workers Compensation Patients: The Good and Bad	Kenneth Scholtz, Esq.	
PBLD-24	Cervicogenic Headache: Diagnostic and Therapeutic Complexities	Gary Brenner, MD	HA
PBLD-25	Clinical Diagnosis of Opioid Induced Hyperalgesia	Jianren Mao, MD	



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### Friday, November 18, 2016

Session	Parallel A	Parallel B	Workshop	Workshop	Resident/Fellow Program Workshop WS-14 Interactive Session IS-12	Resident/Fellow Reception	Interactive Sessions	Moderated ePoster
Room	Indigo DH	Aqua ABC	Aqua D	Aqua EF	Aqua 310	Elevation Room	Indigo 204	Indigo 202A
7:00 AM							Non-CME Promotional Session	
7:15 AM							(breakfast included) organized by:	
7:30 AM				ng Started ation in Foyer			Collegium Pharmaceutical	
7:45 AM		Br	eakfast, Exhibition, ePosters, ASR	A Chat Room, Internet Café in Ext	nibit Hall		-	•
8:00 AM	PS-1a	PS-1b		TICKET WS-11	TICKET		IS-05	MP-05
8:15 AM	Parallel Session	Parallel Session		Half-Day Special Session Ultrasound Workshop	Resident/Fellow Program		Ask the Expert Interactive Session	Moderated ePosters
8:30 AM	Cannabinoids for Pain: Science, Politics, and Clinical	Cancer Pain		(cadaver, live model)	Educational Program		Alternative Treatments for	
8:45 AM	Applications			Ultrasound in Pain Medicine			Chronic Headaches not Responding to Conventional	
9:00 AM							Therapy	
9:15 AM								
9:30 AM							Now open to all attendees, no	
9:45 AM							registration required but seats are limited	
10:00 AM								
10:15 AM	Refreshments, E	Break in Exhibit Hall exhibition, ePosters, ASRA Chat Ro	oom, Internet Café			Break in Ex Refreshments, Exhibition, ePosters,		
10:30 AM		<del></del>						
10:45 AM	PS-2a	PS-2b	TICKET IS-06		TICKET			MP-06
11:00 AM	Parallel Session	Parallel Session	Ask the Expert Interactive Session		Resident/Fellow Program			Moderated ePosters
11:15 AM	PQRS, MIPs, MACRA: How to Avoid Losing Reimbursement	How Do We Reduce Surgery Rates for Spinal and Non-	Musculoskeletal and		Educational Program			
11:30 AM	Fees	Spinal Conditions?	Neurologic Physical Examination for the Pain					
11:45 AM			Medicine Practitioner					
12:00 PM								-
12:15 PM								
12:30 PM								
12:45 PM			_					
1:00 PM	Non-CME Promotional Session	Non-CME Promotional Session						
1:15 PM	(lunch included) organized by:	(lunch included) organized by:			Lunch	on Own		
1:30 PM	St. Jude Medical	Nevro						
1:45 PM		ļ	Ţ					
2:00 PM	PS-3b	PS-3a	TICKET WS-12	TICKET WS-13	TICKET WS-14		IS-07	MP-07
2:15 PM	Parallel Session	Parallel Session	Half-Day Special Session Fluoroscopy Workshop	Hands-On Ultrasound Workshop (live model)	Interactive Demonstration Workshop		Ask the Expert Interactive Session	Moderated ePosters
2:30 PM	Chronic Low Back Pain:	Integrative Medicine in Chronic						
2:45 PM	Using Jack-of-All-Trades Treatments, but Needing a	Pain Management	Radiofrequency Ablation:	Applications in the Thoracic and Lumbar Spine: Facet,	Botulinum Toxin for Headache Management and Shoulder		Transitioning from Fluoroscopy to Ultrasound	
3:00 PM	Master		Cervical, Thoracic, Lumbar, and Sacroiliac Joint	Epidurals, Paravertebral, Nerve Roots, MB	Girdle/Cervical Myofascial Pain		Pain Practice	
3:15 PM							1	
3:30 PM							Now open to all attendees, no registration required but seats	
3:45 PM							are limited	
4:00 PM		Exhibit Hall				Break in Exhibit Hall		
4:15 PM	C	ters, ASRA Chat Room, Internet afé			Refreshments, E	xhibition, ePosters, ASRA Chat Roo NP Meet and Greet in the Chat Roo	m, Internet Café	
4:30 PM	PA/NP Meet and Gr	eet in the Chat Room			F.W	NF Meet and Greet in the Chat Ko	511	
4:45 PM	PS-4a	PS-4b		TICKET WS-15	IS-12		IS-08	MP-08
5:00 PM	Parallel Session	Parallel Session		Hands-On Ultrasound Workshop (cadaver)			Ask the Expert Interactive Session	Moderated ePosters
5:15 PM	North American Neuromodulation Society	Pediatric Pain		Blocks of the Head and Neck:	Integrative Tools for Pain Management		Effectively Prescribing Opioid	
5:30 PM	(NANS) Panel			Trigeminal, SPG, Cervical Medial Branches, GON/TON,	management	Resident/Fellow and	Therapy and Maintaining Your License	
5:45 PM	Fallel			Stellate Ganglion		Pain Directors Meet and Greet	LIGHISE	
6:00 PM					Now open to all attendees, no registration required but seats are	Jointly organized by:		
6:15 PM					limited	ASRA and the Association of Pain Program Directors (APPD)	Now open to all attendees, no registration required but seats	
6:30 PM						Generously supported by:	are limited	
1						Medtronic		
6:45 PM						Medtronic		



See you there!

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## Main Meeting - Friday, November 18, 2016

7:00 am -	7:45 am	breakfast) Xtampza® ER (oxycodone) An Extended-Release Opioid with a Proprietary		Indigo 20
				indigo 20
7:30 am -	8:00 am	Getting Started		
		Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café	Foyer Exhibit Hall	
		breakiasi, Exhibition, ePosters, ASKA Chat Room, internet Care		
		PS-1a Parallel Session	Moderator:	
3:00 am -	10:00 am	Cannabinoids for Pain: Science, Politics, and Clinical Applications	Mark Wallace, MD	Indigo Dł
3:00 am		The Science of Cannabinoids for Pain Management	Mark Wallace, MD	2 credits
3:25 am		Would You Use Marijuana if You Knew The Long Term Effects on the Brain Structure and Function?	Francesca Filbey, PhD	
3:45 am		Regulatory, Legal, and Public Health Issues	Sanford Silverman, MD	
9:10 am		Recommendations for Clinical Practice and Research on Cannabinoids	Alfonso Romero-Sandoval, MD	M@CA
):35 am		Panel Discussion and Open Forum		
		PS-1b Parallel Session	Moderator:	
3:00 am -	10:00 am	Cancer Pain	Daniel Warren, MD	Aqua AB
3:00 am		Cancer Pain Syndromes	Daniel Warren, MD	2 credits
3:35 am		Paraneoplastic Pain Syndromes: Current Diagnosis and Treatments Intrathecal Infusion Tools and Medication in Cancer: How Do We Make a Smart	Brian Wainger, MD Amitabh Gulati, MD	
9:10 am		Choices?	Amitabri Gulati, MD	
9:40 am		Panel Discussion and Open Forum		
10:00 am -	10:45 am	Break in Exhibit Hall	Exhibit Hall	
		Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café		
		PS-2a Parallel Session	Moderator:	
10:45 am -	12:45 pm	PQRS, MIPS, MACRA: How to Avoid Losing Reimbursement Fees	David Provenzano, MD	Indigo DI
10:45 am		MIPS and Meaningful Use, PQRS, and Value-Based Programs: Practical Applications	Matthew Popovich, PhD	2 credits
11:10 am		Demonstrating Value: Benchmarking Past, Current, and Future	David Provenzano, MD	
11:35 am 12:00 pm		Achieving a Performance Threshold: How Will I Be Scored in MIPS and Who Is My Documentation, Coding, and Billing for Interventional Pain Management	Sharon Merrick, MS, CCS-P Kevin Vorenkamp, MD	
12:00 pm 12:25 pm		Panel Discussion and Open Forum	Revin volenkanip, MD	
- 1				
		PS-2b Parallel Session	Moderator:	
10:45 am -	12:45 pm	How Do We Reduce Surgery Rates for Spinal and Non-Spinal Conditions?	Carlos Pino, MD	Aqua AB
10:45 am		Degenerative Disc Disease: Molecular, Gene, and Cell-Based Therapies	Alexander Vaccaro, MD	2 credits
11:10 am 11:35 am		Predictors of Outcomes for Both Non-Surgical and Surgical Spine Care Causes of Post-Laminectomy Pain Syndrome	Richard Rauck, MD Asokumar Buvanendran, MD	M&CA
12:00 pm		Interventions to Prevent Surgery: From Disc to Knee (PRP, RFL, Biacuplasty)	Dimitri Souzdalnistki, MD	
12:25 pm		Panel Discussion and Open Forum	Dimitri Oodzadimistili, MD	
12:45 pm -	2:00 pm	Lunch On Own		
or				
		Non-CME Promotional Session Organized by St. Jude Medical (includes lunch)		la d'an Di
1:00 pm - or	1:45 pm	The Patient's Pain, Well-Being and User-Experience: What Matters Most?		Indigo Dł
J		Non-CME Promotional Session Organized by Nevro (includes lunch)		
1:00 pm -	1:45 pm	Advancing Chronic Pain Treatment with HF10 Therapy		Aqua AB
		DC 20 Devellal Section	Madaratari	
2:00 pm -	4:00 pm	PS-3a Parallel Session Integrative Medicine in Chronic Pain Management	<i>Moderator:</i> Lucy Chen, MD	Aqua AB
2:00 pm	4.00 pm	Cervical Manipulation: Pros and Cons	Elizabeth Huntoon, MD	2 credits
2:25 pm		Acupuncture in Chronic Pain: the Evidence	Lucy Chen, MD	
2:50 pm		Mind Body Intervention for Chronic Pain	Robert Saper, MD	
3:15 pm		Complementary Medicine and Acupuncture in Pain Management Research	Jianren Mao, MD	
3:40 pm		Panel Discussion and Open Forum		
		PS-3b Parallel Sesssion		
		Chronic Low Back Pain (LBP): Using Jack-of-All-Trades Treatments, but Needing a		
2:00 pm -	4:00 pm	Master	Carlos Pino, MD	Indigo Dł



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2:00 pm	Pathophysiology of Discogenic Pain and Facetogenic Pain
2:25 pm	An Algorythmic Approach for Treatment of Chronic LBP
2:50 pm	Spinal Stenosis: Is MILD an Alternative to Surgery?
3:15 pm	Prevention of Failed Back Surgery Syndrome: A Surgeon's Perspective
3:40 pm	Panel Discussion and Open Forum

Steven P. Cohen, MD Christine Peeters-Asdourian, MD Ramsin Benyamin, MD Alexander Vaccaro, MD

See you there!

2 credits

4:00 pm -	4:45 pm	Break in Exhibit Hall	Exhibit Hall	
		Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café		
		PS-4a Parallel Session	Moderator:	
4:45 pm -	6:45 pm	North American Neuromodulation Society (NANS) Panel	Todd Sitzman, MD	Indigo DH
4:45 pm		Dorsal Root Ganglion for Pain	Todd Sitzman, MD	2 credits
5:10 pm		Advances in MRI Compatibility for Spinal Cord Stimulation	Yair Safriel, MD	NI
5:35 pm		High Frequency Stimulation for Low Back Pain	Kasra Amirdelfan, MD	Neu
6:00 pm		Nerve Stimulation for Muscle Pain	John Chae, MD	
6:25 pm		Panel Discussion and Open Forum		
		PS-4b Parallel Session	Moderator:	
4:45 pm -	6:45 pm	Pediatric Pain	Charles Berde, MD	Aqua ABC
4:45 pm		Chronification of Acute Pain in Children: What Are the Consequences in Adulthood?	Santhanam Suresh, MD	2 credits
5:10 pm		Drug Dependance Before and After Medical Management in Children with Chronic Pain	Charles Berde, MD	Ped
5:40 pm		Experiences with Advanced Interventional Pain in Children	Santhanam Suresh, MD	
6:10 pm		Panel Discussion and Open Forum		



See you there!

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### Saturday, November 19, 2016

Session	Plenary	PA/NP Program	Workshop	Workshop	Resident/Fellow Workshops	Interactive Sessions	Moderated ePoster
Room	Indigo DH	Aqua ABC	Aqua D	Aqua EF	Aqua 310	Indigo 204	Indigo 202A
7:30 AM				Getting Started			
7:45 AM				Registration in Foyer Posters, ASRA Chat Room, Inter			
8:00 AM	Plen-01	Physician Assistant/	TICKET WS-16	TICKET WS-17	TICKET WS-21	IS-09	MP-09
8:15 AM	Plenary Session	Nurse Practitioner Program	Hands-On Fluoroscopy and	Half-Day Special Session	Resident/Fellow Workshop	Ask the Expert Interactive	Moderated ePosters
8:30 AM	Regenerative Medicine	The Terminally III Patient:	Ultrasound Workshop (cadaver, live model)	Fluoroscopy Workshop (cadaver)	Fluoroscopy Workshop	Sesssion	
8:45 AM		How We Can Help Make the End of Life Easier	Fusion: Ultrasound and	Surgical Practicum for		Practice Management 1: Practical and Stepwise	
9:00 AM			Fluoroscopy for Blocks of the Head and Neck	Implantation of Spinal Stimulators, Intrathecal Drug		Survival Guide for MACRA (MIPS, APMS) for Chronic Pain	
9:15 AM			(Trigeminal, SPG, Cervical	Delivery Systems, and Facial		Management Specialists	
9:30 AM			Medial Branches, GON/TON, Stellate Ganglion)	Peripheral Nerve Stimulators		Now open to all attendees, no	
9:45 AM						registration required but seats are limited	
						are infined	
10:00 AM		Decelar F. 1999 .				Develop F. 1999 P.	
10:15 AM 10:30 AM	Refreshments, Ex	Break in Exhibit Hall chibition, ePosters, ASRA Chat Ro	om, Internet Café		Refreshments, E	Break in Exhibit Hall whibition, ePosters, ASRA Chat Ro	om, Internet Café
10:45 AM			TICKET		TICKET		
	Plen-02 Plenary Session	Physician Assistant/ Nurse Practitioner Program	WS-18 Hands-On Fluoroscopy and		WS-22 Resident/Fellow Workshop	IS-10 Ask the Expert Interactive	MP-10 Moderated ePosters
11:00 AM			Ultrasound Workshop (cadaver,			Sesssion	Moderated erosters
11:15 AM	Neuromodulation (Stimulation)	Chronic Low Back Pain	live model) Fusion: Ultrasound and		Ultrasound Workshop	Practice Management 2: Successfully Growing Your	
11:30 AM			Fluoroscopic Techniques for Treating Soft Tissue Injuries			Pain Program, Product Line, and Revenue	
11:45 AM			(Platelet Rich Plasma, Hip/Knee/Shoulder Injection and				
12:00 PM			Visco-Supplementation, Trochenteric Injection,			Now open to all attendees, no	
12:15 PM			Elbow/Wrist, Suprascapular Nerve Pulsed RFA)			registration required but seats are limited	
12:30 PM							
12:45 PM 1:00 PM							
1:15 PM				Special Event			
1:30 PM			Exe	cellence in ASRA Awards Lunche Indigo DH	eon		
1:45 PM 2:00 PM				TICKET			
2:15 PM							
2:30 PM							
2:45 PM	Plen-03	Physician Assistant/	TICKET WS-19	TICKET WS-20		IS-11	MP-11
3:00 PM	Plenary Session	Nurse Practitioner Program	Hands-On Fluoroscopy	Hands-On Fluoroscopy		Ask the Expert Interactive	Moderated ePosters
3:15 PM	<b>Opioid Presciptions:</b>	Management of Complex	Workshop (cadaver)	Workshop (cadaver)		Sesssion	
3:30 PM	The Deadliest US Epidemic?	Patients in the Pain Clinic	Minimally Invasive Lumbar	Vertebral Augmentation		Practice Management 3: Economics, Compliance, and	
3:45 PM			Decompression (MILD)	(Kyphoplasty / Vertebroplasty / KIVA)		Human Resources	
4:00 PM			(WILD)	(IVA)			
4:15 PM						Now open to all attendees, no	
4:30 PM						registration required but seats are limited	
4:45 PM							
5:00 PM			Se	ession Adjournment and Free Tir	ne		
7:00-				·			
10:30 PM				Special Event SRA Annual Meeting Celebratio	n		
				Fiesta on the Bay!			
			Admiral Homblow	er Yacht setting sail from the Marrie	ut marquis marina		
				TICKET			

See you there!

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## Main Meeting - Saturday, November 19, 2016

7:30 am -	8:00 am	Getting Started		
		Registration	Foyer	
		Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café	Exhibit Hall	
		Plen-01 Plenary Session	Moderator:	
8:00 am -	10:00 am	Regenerative Medicine	Dmitri Souzdalnitski, MD	Indigo DH
8:00 am		Fundamentals of Stem Cell Therapy, Growth Factors, and Proteins	Dmitri Souzdalnitski, MD	2 credits
8:25 am		Regulatory Position on Regenerative Medicine	Armand Balboni, MD	Reg
8:50 am		Critical Appraisal of the Evidence on Regenerative Medicine	James Eisenach, MD	rteg
9:15 am		Regenerative Pain Medicine and Clinical Application in Spinal Pain	Alexander Vaccaro, MD	
9:40 am		Panel Discussion and Open Forum		
10:00 am -	10:45 am	Break in Exhibit Hall	Exhibit Hall	
		Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café		
		Plen-02 Plenary Session	Moderator:	
10:45 am -	12:45 pm	Neuromodulation (Stimulation)	Richard Rauck, MD	Indigo DH
10:45 am		Mechanisms of Spinal Neuromodulation	Richard Rauck, MD	2 credits
11:10 am		New Anatomical Targets in Neuromodulation	Ricardo Vallejo, MD	Nou
11:35 am		New Waves on SCS - Burst, High Frequency, and Subthreshold: Are They Better?	Leonardo Kapural, MD	Neu
12:00 pm		Convincing Payers that Neuromodulation Is Good for Patients and for Them: A	David Provenzano, MD	
12:25 pm		Panel Discussion and Open Forum		
		Special Event	Moderator:	
12:45 pm -	2:45 pm	Excellence in ASRA Awards Luncheon	Gary Brenner, MD	Indigo DH
12:45 pm		Buffet Lunch Service (additional fee, ticket required)		.75 credits
1:00 pm		Best of Meeting Abstracts Awards and Presentations		
1:40 pm		John J. Bonica Award Lecture: Outcome Measurement Tools in Chronic Pain Research:	Honorio Benzon, MD	
		Guidance, Not Guidelines		
2:30 pm		Adjournment and Move to Next Session		
		Plan 02 Planary Section		
2:45 pm -	5:00 pm	Plen-03 Plenary Session Opioid Prescriptions: The Deadliest US Epidemic?	Moderator: Asokumar Buvanendran, MD	Indian DH
2:45 pm - 2:45 pm	5:00 pm	Center for Disease Control Guidelines on Opioid Use	Asokumar Buvanendran, MD	Indigo DH 2.25 credits
3:20 pm		Marijuana and Opioids: To Combine or Not?	Mark Wallace, MD	
3:55 pm		Evidence for Chronic Opioid Therapy in Chronic Pain	Christine Peeters-Asdourian,	M@CA*
3.55 pm		Evidence for Chronic Opiola Therapy in Chronic Pain	MD	
4:30 pm		Panel Discussion and Open Forum		
5:00 pm -	7:00 pm	Session Adjournment and Free Time		
		Special Event		
		ASRA Annual Meeting Celebration: Fiesta on the Bay! (additional fee, ticket		
7:00 pm	10:30 pm	required)		



See you there!

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#### Workshops - Thursday, November 17, 2016 (additional fee, physicians only)

8:15 am -	12:45 pm	Morning Workshop Coordinator	Daniel Warren, MD		
3:15 am -	5:45 pm	WS-01 Full-Day Special Session Ultrasound Workshop (cadaver, live model) MSK Ultrasound	<i>Lead:</i> Samer Narouze, MD		Aqua AE
		View full program; includes lunch with the experts	Faculty: Thomas Grant, MD James Modir, MD Levon Nazarian, MD Phillip Peng, MD David Provenzano, MD Hariharan Shankar, MD Dmitri Souzdalnitski, MD	Associate Faculty: Robert Bolash, MD Mauricio Forero, MD Maged Mina, MD Hong Vo, MD	8 credi
8:15 am -	10:15 am	WS-02 Hands-On Fluoroscopy Workshop (cadaver) Sacroiliac Joint and Lumbar Spine Radiofrequency Denervation Techniques (including Cooled RFA)	<i>Lead:</i> Carlos Pino, MD		Aqua D
. 15 ani -	10.15 am	Review of Consensus	Faculty:	Associate Faculty:	2 credit
			Bruce Vrooman, MD	Esther Benedetti, MD	
8:15 am -	10:15 am	WS-03 Hands-On Fluoroscopy Workshop (cadaver) Lumbar, Thoracic, and Cervical Facet Joint Blocks	<i>Lead:</i> Magadalena Anitescu, MD		Aqua E
<u>. 15 am -</u>	10.15 am		Magadarena Antesed, MD	Associate Faculty: Maged Guirguis, MD	2 credit
		WS-04 Hands-On Fluoroscopy Workshop (cadaver) Cervical and Thoracic Spine Blocks: Medial Branches/Intraarticular, Epidural			
0:30 am -	12:30 pm	Catheter Steering/Adhesiolysis	Kevin Vorenkamp, MD Faculty:	Associate Faculty:	Aqua I 2 credi
			Andrea Nicol, MD Jeffrey Petersohn, MD	Dalia Elmofty, MD Maged Guirguis, MD	2 Credi
10:30 am -	12:30 nm	WS-05 Hands-On Fluoroscopy and Ultrasound Workshop (cadaver, live model) Fusion: Ultrasound and Fluoroscopy for Abdominal and Pelvic Blocks (TAP/llioinguinal, Pudendal Nerve, Pelvic Floor m/Obturator Internus/Piriformis, Sacroccygeal Lig, Caudal Access)	<i>Lead:</i> Philip Peng, MD		Aqua E
	- <u></u>		Faculty: Anuj Bhatia, MD Peter Cheng, MD	<i>Associate Faculty:</i> Esther Benedetti, MD	
2:00 pm	6:15 pm	Afternoon Workshop Coordinator	Andrea Nicol, MD		
2:00 pm -	4:00 pm	WS-06 Hands-On Fluoroscopy Workshop (cadaver) Intradiscal Procedures: Provocative Discography, Biacuplasty	<i>Lead:</i> Leonardo Kapural, MD		Aqua I
			Faculty: Maxim Eckmann, MD		2 credi
2:00 pm -	4:00 pm	WS-07 Hands-On Fluoroscopy Workshop (cadaver) Sympathetic Blocks Upper Body and Abdomen (Cervico-Thoracic Chain, Splanchnic and Celiac)	<i>Lead:</i> Timothy Lubenow, MD		Aqua E
			Faculty: Bruce Vrooman, MD	Associate Faculty: Maged Guirguis, MD	2 credi
4:15 pm -	<u>6:15 pm</u>	WS-08 Hands-On Fluoroscopy and Ultrasound Workshop (cadaver, live model) Fusion: Ultrasound and Fluoroscopy for Hip and Knee Blocks, Radiofrequency Denervation (including Cooled Radiofrequency Ablation)	Lead: Jeffrey Petersohn, MD <i>Faculty:</i> Ramsin Benyamin, MD Maxim Eckmann, MD	<i>Associate Faculty:</i> Esther Benedetti, MD	Aqua I
		WS-09 Hands-On Fluoroscopy Workshop (cadaver)			
4:15 pm -	6:15 pm	Sympathetic Blocks, Pelvic and Lower Extremity (Lumbar Sympathetic Block, Superior Hypogastric Plexus, Ganglion Impar)	, Lead: Amitabh Gulati, MD		Aqua E



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8:00 am - 1 2:00 pm - 6	12:45 pm 12:45 pm	Morning Workshop Coordinator WS-11 Half-Day Special Session Ultrasound Workshop (cadaver, live model) Ultrasound in Pain Medicine <u>View full program</u>	Maxim Eckmann, MD Lead: Samer Narouze, MD Faculty:		
2:00 pm - 6	12:45 pm	Ultrasound in Pain Medicine	Samer Narouze, MD Faculty:		
2:00 pm - 6	12:45 pm	Ultrasound in Pain Medicine	Samer Narouze, MD Faculty:		
2:00 pm - 6	<u>12:45 pm</u>		Faculty:		
·		view full program		Associate Faculty:	Aqua E credits
			Peter Cheng, MD Roderick Finlayson, MD Imanuel Lerman, MD James Modir, MD Philip Peng, MD David Provenzano, MD	Robert Bolash, MD Mauricio Forero, MD Maged Mina, MD Hong Vo, MD	
2:00 pm - 6	6:45 pm	Afternoon Workshop Coordinator	Magdalena Anitescu, MD, PhD		
	6:45 pm	WS-12 Half-Day Special Session Fluoroscopy Workshop (cadaver) Radiofrequency Ablation: Cervical, Thoracic, Lumbar, and Sacroiliac Joint	Lead: Maxim Eckmann, MD	Associate Franktur	Aqua D
			Faculty: Christopher Gilligan, MD Andrea Nicol, MD	Associate Faculty: Esther Benedetti, MD	credits
		WS-13 Hands-On Ultrasound Workshop (live model) Applications in the Thoracic and Lumbar Spine: Facet, Epidurals,	Lead:		
2:00 pm - 4	4:00 pm	Paravertebral, Nerve Roots, MB	Hariharan Shankar, MD		Aqua EF
			Faculty: Imanuel Lerman, MD		2 credits
		WS-14 Interactive Demonstration Workshop			
		Botulinum Toxin for Headache Management and Shoulder Girdle/Cervical	Lead:		
2:00 pm - 4	4:00 pm	Myofascial Pain	Michael Ferrante, MD		Aqua 31
			<i>Faculty:</i> Brian Wainger, MD		2 credits
		WS-15 Hands-On Ultrasound Workshop (cadaver) Ultrasound Guided Blocks of the Head and Neck: Stellate Ganglion, Cervical Medial Branches, GON/LON/TON, Peripheral Trigeminal Blocks and Maxillary	Lead:		
4:45 pm - 6	6:45 pm	Nerve	Philip Peng, MD		Aqua EF
			Faculty:		2 credits
			Antoun Nader, MD Dimitri Souzdalnitski, MD		$\bigcirc$



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		Workshops - Saturday, Nove (additional fee, physicians only)	mber 19, 2016		
8:00 am -	12:45 pm	Morning Workshop Coordinator	Maunak Rana, MD		
8:00 am -	10:00 am	WS-16 Hands-On Fluoroscopy and Ultrasound Workshop (cadaver, live model) Fusion: Bridging from Fluoroscopy to Ultrasound for Blocks of the Head and Neck (Trigeminal Ganglion, SPG, Cervical Medial Branches/TON, Stellate Ganglion)	Lead: Antoun Nader, MD Faculty:	Associate Faculty:	Aqua D 2 credit:
		WS-17 Half-Day Special Session Fluoroscopy Workshop (cadaver)	Maxim Eckmann, MD Tim Lubenow, MD Kevin Vorenkamp, MD	Dalia Elmofty, MD	US <mark>H</mark>
8:00 am -	12:45 pm	Surgical Practicum for Implantation of Spinal Stimulators, Intrathecal Drug Delivery Systems, and Facial Peripheral Nerve Stimulators	<i>Lead:</i> Jason Pope, MD		Aqua EF
			<i>Faculty:</i> Salim Hayek, MD Joshua Wellington, MD		4.75 credits Neu
10:45 am -	12:45 pm	WS-18 Hands-On Fluoroscopy and Ultrasound Workshop (cadaver, live model) Fusion: Ultrasound and Fluoroscopic Techniques for Treating Soft Tissue Injuries (Platelet Rich Plasma, Hip/Knee/Shoulder Injection and Visco- Supplementation, Trochanteric Injection, Elbow/Wrist, Suprascapular Nerve Injection)	<i>Lead:</i> Peter Cheng, MD		Aqua D
			Faculty: Hariharan Shankar, MD Eliezer Soto, MD Dmitri Souzdalnitski, MD	Associate Faculty: Dalia Elmofty, MD	2 credits
2:45 pm	5:00 pm	Afternoon Workshop Coordinator	Maxim Eckmann, MD		
2:45 pm -	5:00 pm	WS-19 Hands-On Fluoroscopy Workshop (cadaver) Minimally Invasive Lumbar Decompression (MILD)	<i>Lead:</i> Jason Pope, MD		Aqua D
			Faculty: Farshad Ahadian, MD Ramsin Benyamin, MD Ricardo Vallejo, MD		2.25 credits
2:45 pm -	5:00 pm	WS-20 Hands-On Fluoroscopy Workshop (cadaver) Vertebral Augmentation (Kyphoplasty / Vertebroplasty / KIVA)	Lead: Maunak Rana, MD		Aqua EF
			<i>Faculty:</i> Eliezer Soto, MD Bruce Vrooman, MD		credits



See you there!

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## Ask the Expert Interactive Sessions - Thursday, November 17, 2016 (open to all attendees, no registration required except IS-03 and IS-06, seats are limited)

<u>8:15 am -</u>	10:15 am	IS-01 Ask the Expert Interactive Session (no additional fee, space is limited) Complications in Pain Medicine: How to Prevent Them Nerve Injuries and Complications with Implantable Devices	Moderator: Marc Huntoon, MD Ramsin Benyamin, MD Salim Hayek, MD	Indigo 204 2 credits M⊉CA <sup>™</sup>
<u>10:30 am -</u>	12:30 pm	IS-02 Ask the Expert Interactive Session (no additional fee, space is limited) Measuring Pain Data Outcomes and How This Influences Reimbursement Health Outcomes Registries: Where Are We in 2016?	<i>Moderator:</i> Sean Mackey, MD Richard Rauck, MD	Indigo 204 2 credits
2:00 pm -	4:00 pm	How Understanding Your Data Can Influence Your Reimbursement IS-03 Ask the Expert Interactive Session (additional fee) Reading and Interpretation of Spinal Imaging: MRI, CT, SPECT, Myelogram	Richard Rosenquist, MD Moderator: James Rathmell, MD	Indigo 204
		Develop a better understanding of the different image modalities available to visualize spinal anatomy. Our expert faculty will review the indications, advantages and contraindications to MRI, CT, myelography and SPECT. The faculty will guide you through a systematic approach to understanding anatomical correlations and identifying spinal pathology that will help you in diagnosis and developing a treatment plan. This interactive session will be of benefit for residents, fellows, PAs/NPs, and physicians.	John Carrino, MD Brian Wainger, MD	2 credits NP-PA
4:15 pm -	6:15 pm	IS-04 Ask the Expert Interactive Session (no additional fee, space is limited) Managing Complex Cancer Cases	<i>Moderator:</i> Daniel Warren, MD	Indigo 204
		Optimizing the Use of Intrathecal Therapy in Cancer Pain Paraneoplastic Pain Syndrome	Timothy Deer, MD Brian Wainger, MD	2 credits

## Ask the Expert Interactive Sessions - Friday, November 18, 2016 (open to all attendees, no registration required except IS-03 and IS-06, seats are limited)

Botulinum Toxin for Headaches: When to Do It and How to Get Reimbursed Intravenous Alternative Treatments       Michael Ferrante, MD Jeffrey Petersohn, MD         10:45 am -       12:45 pm       Practitioner       Moderator: Elizabeth Huntoon, MD         10:45 am -       12:45 pm       Practitioner       Esther Benedetti, MD Brian Wainger, MD         MSK Exam Neurological Exam Designed for residents, fellows, PAs/NPs, and physicians who wish to sharpen their physical examination skills. The faculty will demonstrate how to examine gait; coordination; mental status; cranial and peripheral nerves; sensory; motor; reflexes; small and large joint exam, including hip, elbow and shoulder. Two models will be available for participants to practice their skills under the guidance of the faculty.       Moderator: Elizeze Soto, MD         2:00 pm -       4:00 pm       IS-07 Ask the Expert Interactive Session (no additional fee, space is limited) When to Use Fluoroscopy to Ultrasound Pain Practice       Moderator: Elizer Soto, MD         4:45 pm -       6:45 pm       IS-08 Ask the Expert Interactive Session (no additional fee, space is limited) IS-08 Ask the Expert Interactive Session (no additional fee, space is limited)       Moderator: Mark Wallace, MD         4:45 pm -       6:45 pm       Effectively Prescribing Opioid Therapy and Maintaining Your License       Mark Wallace, MD         Ramsin Benyamin, MD       Leonardo Kapural, MD       Sanford Silverman, MD       Leonardo Kapural, MD         4:45 pm -       6:45 pm       Ifferetivel Prescribing Opioid Therapy and Maintaining Your License </th <th>Indigo 204</th>	Indigo 204
10:45 am -       12:45 pm       Musculoskeletal and Neurologic Physical Examination for the Pain Medicine       Moderator: Elizabeth Huntoon, MD         10:45 am -       12:45 pm       MSK Exam       Esther Benedetti, MD         MSK Exam       Neurological Exam       Esther Benedetti, MD         Designed for residents, fellows, PAs/NPs, and physicians who wish to sharpen their physical examination skills. The faculty will demonstrate how to examine gait; coordination; mental status; cranial and peripheral nerves; sensory; motor; reflexes; small and large joint exam, including hip, elbow and shoulder. Two models will be available for participants to practice their skills under the guidance of the faculty.       Moderator: Elizer Soto, MD         2:00 pm -       4:00 pm       IS-07 Ask the Expert Interactive Session (no additional fee, space is limited) When to Use Fluoroscopy to Ultrasound Pain Practice       Moderator: Eliezer Soto, MD         2:00 pm -       4:00 pm       IS-08 Ask the Expert Interactive Session (no additional fee, space is limited) When to Use Ultrasound       Maunak Rana, MD         4:45 pm -       6:45 pm       Effectively Prescribing Opioid Therapy and Maintaining Your License       Mark Wallace, MD         Ramsin Benyamin, MD       Leonardo Kapural, MD       Sanford Silverman, MD	2 credits
MSK Exam       Esther Benedetti, MD         Neurological Exam       Brian Wainger, MD         Designed for residents, fellows, PAs/NPs, and physicians who wish to sharpen their       Brian Wainger, MD         physical examination skills. The faculty will demonstrate how to examine gait;       coordination; mental status; cranial and peripheral nerves; sensory; motor; reflexes;         small and large joint exam, including hip, elbow and shoulder. Two models will be       available for participants to practice their skills under the guidance of the faculty.         2:00 pm -       4:00 pm       IS-07 Ask the Expert Interactive Session (no additional fee, space is limited)       Moderator:         Eliezer Soto, MD       Moderator:       Eliezer Soto, MD         When to Use Fluoroscopy       Anuj Bhatia, MD         When to Use Ultrasound       Moderator:         IS-08 Ask the Expert Interactive Session (no additional fee, space is limited)       Moderator:         4:45 pm -       6:45 pm       Effectively Prescribing Opioid Therapy and Maintaining Your License       Mark Wallace, MD         Ramsin Benyamin, MD       Leonardo Kapural, MD       Sanford Silverman, MD	
Neurological Exam       Brian Wainger, MD         Designed for residents, fellows, PAs/NPs, and physicians who wish to sharpen their physical examination skills. The faculty will demonstrate how to examine gait; coordination; mental status; cranial and peripheral nerves; sensory; motor; reflexes; small and large joint exam, including hip, elbow and shoulder. Two models will be available for participants to practice their skills under the guidance of the faculty.       Moderator:         2:00 pm -       4:00 pm       IS-07 Ask the Expert Interactive Session (no additional fee, space is limited)       Moderator:         2:00 pm -       4:00 pm       Transitioning from Fluoroscopy to Ultrasound Pain Practice       Moderator:         2:00 pm -       4:00 pm       IS-07 Ask the Expert Interactive Session (no additional fee, space is limited)       Moderator:         2:00 pm -       4:00 pm       IS-08 Ask the Expert Interactive Session (no additional fee, space is limited)       Moderator:         4:45 pm -       6:45 pm       Effectively Prescribing Opioid Therapy and Maintaining Your License       Mark Wallace, MD         Ramsin Benyamin, MD       Leonardo Kapural, MD       Sanford Silverman, MD	Aqua D
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2:00 pm -       4:00 pm       Transitioning from Fluoroscopy to Ultrasound Pain Practice       Eliezer Soto, MD         When to Use Fluoroscopy       When to Use Fluoroscopy       Anuj Bhatia, MD         When to Use Ultrasound       Maunak Rana, MD         4:45 pm -       6:45 pm       Effectively Prescribing Opioid Therapy and Maintaining Your License         Mark Wallace, MD       Ramsin Benyamin, MD         Leonardo Kapural, MD       Sanford Silverman, MD	NP-PA
When to Use Fluoroscopy       Anuj Bhatia, MD         When to Use Ultrasound       Maunak Rana, MD         IS-08 Ask the Expert Interactive Session (no additional fee, space is limited)       Moderator:         4:45 pm -       6:45 pm         Effectively Prescribing Opioid Therapy and Maintaining Your License       Mark Wallace, MD         Ramsin Benyamin, MD       Leonardo Kapural, MD         Sanford Silverman, MD       Sanford Silverman, MD	
When to Use Ultrasound       Maunak Rana, MD         IS-08 Ask the Expert Interactive Session (no additional fee, space is limited)       Moderator:         4:45 pm -       6:45 pm         Effectively Prescribing Opioid Therapy and Maintaining Your License       Mark Wallace, MD         Ramsin Benyamin, MD       Leonardo Kapural, MD         Sanford Silverman, MD       Sanford Silverman, MD	Indigo 204
Associate of the second sec	2 credits
4:45 pm -         6:45 pm         Effectively Prescribing Opioid Therapy and Maintaining Your License         Mark Wallace, MD           Ramsin Benyamin, MD         Leonardo Kapural, MD         Sanford Silverman, MD	US
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Leonardo Kapural, MD Sanford Silverman, MD	Indigo 204
Sanford Silverman, MD	2 credits
	M╝CA™
IS-12 Ask the Expert Interactive Session (no additional fee space is limited) Moderator	
4:45 pm -         6:45 pm         Integrative Tools for Pain Management         Lucy Chen, MD	Aqua 310
Elizabeth Huntoon, MD	2 credits
Jianren Mao, MD	
Robert Saper, MD	



See you there!

November 17-19, 2016 Hilton San Diego Bayfront Hotel San Diego, California



## Ask the Expert Interactive Sessions - Saturday, November 19, 2016 (open to all attendees, no registration required unless indicated, seats are limited)

		IS-09 Ask the Expert Interactive Session (no additional fee, space is limited) Practice Management 1: Practical and Stepwise Survival Guide for MACRA (MIPS,	Moderator:	
8:00 am -	10:00 am	APMS) for Chronic Pain Management Specialists	David Provenzano, MD	Indigo 204
8:00 am		How Are ASRA and ASA Assisting Members in the Successful Management of the New Healthcare Environment?	David Provenzano, MD	2 credits
8:10 an		Overview of MIPS and MACRA: Selecting the Correct Program	Sharon Merrick, MS, CCS-P	
8:30 am		Implementing a Successful Program to Navigate MIPS	Asokumar Buvanendran, MD	
8:50 am		Joining an Alternative Payment Model or an Integrated Care Model: Is It Worth It?	Matthew Popovich, PhD	
9:10 am		Successful Integration of the Acute Pain Program into a Bundled Care Reimbursement Model	Eugene Viscusi, MD	
9:30 am		Panel Discussion and Open Forum		
		IS-10 Ask the Expert Interactive Session (no additional fee, space is limited)		
		Practice Management 2: Successfully Growing Your Pain Program, Product Line,	Moderator:	
10:45 am -	12:45 pm	and Revenue	Asokumar Buvanendran, MD	Indigo 204
10:45 am		Developing a Vibrant Academic Pain Program	Marc Huntoon, MD	2 credits
11:05 am		Developing a Successful Clinical Research Program	Mark Wallace, MD	
11:25 am		Understand Health Insurance Contracts: Maximize Reimbursement and Avoid Pittfalls	Jeffrey Peterson	
11:50 am		Human Resources: Determining Employee Policies, Wages, and Benefits	Daniel Warren, MD	
12:10 pm		Panel Discussion and Open Forum		
		IS-11 Ask the Expert Interactive Session (no additional fee, space is limited)	Moderator:	
2:45 pm -	5:00 pm	Practice Management 3: Economics, Compliance, and Human Resources	Kevin Vorenkamp, MD	Indigo 204
2:45 pm		Coding and Billing Compliance	Kevin Vorenkamp, MD	2.25 credits
3:05 pm		Maximizing Reimbursement: Effective Integration of Ancillary Services - Physical	Jeffrey Peterson	
		Therapy, Durable Medical Equipment, and Urine Drug Screens		
3:30 pm		Working with the Hospital: Employment vs. Co-Management Models	Jeffrey Peterson	
3:55 pm		Successful Integration of the Healthcare Team into a Chronic Pain Program	Dmitri Souzdalnitski, MD	
4:15 pm		Vital Signs of Your Pain Practice: Interpretation of Economic Indicators	Donny Bounds	
4:35 pm		Panel Discussion and Open Forum		



See you there!

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## Resident/Fellow Program - Friday, November 18, 2016 (additional fee, physicians only)

7:30 am -	8:00 am	Getting Started		
		Registration	Foyer	
		Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café	Exhibit Hall	
			Moderators:	
			Hariharan Shankar, MD and	
8:00 am -	10:00 am	Resident/Fellow Educational Program (additional fee, ticket required)	Eellan Sivanesan, MD	Aqua 310
8:00 am		Introduction and Welcome		2 credits
8:05 am		Resident Awards/Best of Abstracts Presentations	Hariharan Shankar, MD	
8:30 am		Basic Neuroimaging (MRI/CT) Interpretation for the Pain Physician	John Carrino, MD	
9:00 am		Pitfalls in Interpreting Urine Toxicology Screens	Carlos Pino, MD	
9:30 am		Panel Discussion and Open Forum		
10:00 am -	10:45 am	Morning Break in Exhibit Hall	Exhibit Hall	
		Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café		
			Moderators:	
			Hariharan Shankar, MD and	
10:45 am -	12:45 pm	Resident/Fellow Educational Program (continued)	Eellan Sivanesan, MD	Aqua 310
10:45 am		Acedemic vs. Private Practice	Jason Pope, MD	2 credits
11:15 am		Epidural Steroids Injections in 2016	Ramsin Benyamin, MD	
11:45 am		Contract Negotiation and Interpretation	Michael Cassidy	
12:15 pm		Panel Discussion and Open Forum	-	
				Elevation
5:30 pm -	6:45 pm	Resident/Fellow and Pain Directors Meet and Greet		Room
		Jointly organized by: ASRA and the Association of Pain Program Directors		
		(APPD)		

## Resident/Fellow Program - Saturday, November 19, 2016 (additional fee, physicians only)

7:30 am -	8:00 am	Getting Started			
		Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café	Exhibit Hall		
8:00 am -	10:00 am	WS-21 Resident/Fellow Workshop (additional fee, ticket required) Fluoroscopy Workshop	<i>Lead:</i> Carlos Pino, MD		Aqua 310
0.00 am	10.00 am	Neuroradiology, Fluoroanatomy, and Hands-On Fluroscopy Workshops	Ramsin Benyamin, MD Eliezer Soto, MD	Associate Faculty: Esther Benedetti, MD	2 credits
10:00 am -	10:45 am	Morning Break in Exhibit Hall	Exhibit Hall		
		Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café WS-22 Resident/Fellow Workshop (additional fee, ticket required)	Lead:		
10:45 am -	12:45 pm	Ultrasound Workshop	Santhanam Suresh, MD		Aqua 310
		Ultrasound Anatomy and Hands-On Workshops	<i>Faculty:</i> Amitabh Gulati, MD	<i>Associate Faculty:</i> Robert Bolash, MD	2 credits

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### PA (Physician Assistant) / Nurse Practitioner Program Friday, November 18, 2016

4:00 pm - 4:45 pm

Break in Exhibit Hall: PA/NP Meet and Greet in the Chat Room Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café Exhibit Hall

See you there!

### PA (Physician Assistant) / Nurse Practitioner Program Saturday, November 19, 2016

7:30 am -	8:00 am	Getting Started		
		Registration	Foyer	
		Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café	Exhibit Hall	
0.00	10.00	The Terminally III Deficit Llaw We Can Llab Make the End of Life Facian	Moderator:	
8:00 am - 8:00 am	10:00 am	The Terminally III Patient: How We Can Help Make the End of Life Easier Welcome and Introduction	Bridget Calhoun, Dr PH, PA-C B. Calhoun, O. de Leon-	Aqua ABC 1.75 credits
0.00 am			Casasola, R. Vallejo	1.75 credits
8:10 am		Relieving Terminal Dyspnea	Magadalena Anitescu, MD	
8:30 am		How to Treat Terminal Delirium	Jennifer Grimmer, DNP, FNP-	
8:50 am		Medical Management of Intestinal Obstruction at the End of Life	Daniel Warren, MD	
9:10 am		Myofascial Pain: Diagnosis and Treatment	Elizabeth Huntoon, MD	
9:30 am		Panel Discussion and Open Forum		
10:00 am -	10:45 am	Break in Exhibit Hall	Exhibit Hall	
		Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café		
			Moderator:	
10:45 am -	12:45 pm	Chronic Low Back Pain (LBP)	Krista Brecht, RN, MSc	Aqua ABC
10:45 am		Physical Exam in Chronic Low Back Pain	Christopher Gilligan, MD	2 credits
11:15 am		Imaging Utilization for Spine Disorders	Roderick Finlayson, MD	
11:45 am		Diagnostic Algorithm in Chronic Low Back Pain	Magadalena Anitescu, MD	
12:15 pm		Panel Discussion and Open Forum		
		Special Event (additional fee, ticket required)		
12:45 pm -	2:45 pm	Excellence in ASRA Awards Luncheon	Gary Brenner, MD	Indigo DH
			Moderator:	
2:45 pm -	5:00 pm	Management of Complex Patients in the Pain Clinic	Jeffrey Petersohn, MD	Aqua ABC
2:45 pm		Complex Regional Pain Syndrome (CRPS) Type I and Type II: An Update	Jeffrey Petersohn, MD	2.25 credits
3:15 pm		Concomitant Use of Opioids and Marijuana: Evidence and Legal Implications	Krista Brecht, RN, MSc	
3:45 pm		Urine Toxicology Interpretation	Carlos Pino, MD	
4:15 pm		Panel Discussion and Open Forum		
5:00 pm -	7:00 pm	Session Adjournment and Free Time		
		Special Event		
7:00 pm	10:30 pm	Special Event ASRA Annual Meeting Celebration: Fiesta on the Bay! (additional fee, ticket requ	uired)	



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## **Moderated Poster Sessions**

(non-CME)

Thursday, November 17, 2016						
8:15 am -	10:15 am	MP-01	Edward Mariano, MD	Indigo 202A		
10:30 am -	12:30 pm	MP-02	Oscar de Leon-Casasola, MD	Indigo 202A		
2:00 pm -	4:00 pm	MP-03	Eugene Viscusi, MD	Indigo 202A		
4:15 pm -	6:15 pm	MP-04	James Rathmell, MD	Indigo 202A		
Friday, Nove	ember 18, 20	16				
8:00 am -	10:00 am	MP-05	Steven P. Cohen, MD	Indigo 202A		
10:45 am -	12:45 pm	MP-06	Andrea Nicol, MD	Indigo 202A		
2:00 pm -	4:00 pm	MP-07	Charles Berde, MD	Indigo 202A		
4:45 pm -	6:45 pm	MP-08	Edward Mariano, MD	Indigo 202A		
Saturday, November 19, 2016						
8:00 am -	10:00 am	MP-09	Edward Mariano, MD	Indigo 202A		
10:45 am -	12:45 pm	MP-10	Eugene Viscusi, MD	Indigo 202A		
2:45 pm -	5:00 pm	MP-11	James Eisenach, MD	Indigo 202A		