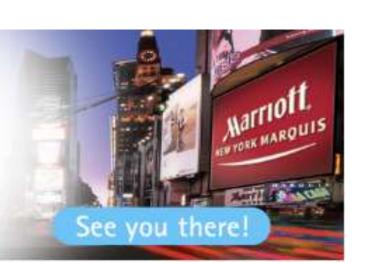


REGIONAL ANESTHESIA & PAIN MEDICINE

ASRA's 43rd

Annual Regional Anesthesiology & Acute Pain Medicine Meeting





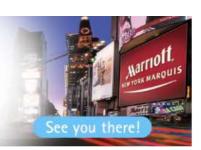
Wednesday, April 18, 2018 Fellow Neuromodulation **Fellow Neuromodulation** Fellow Neuromodulation **PoCUS Workshops EDRA Exam ASRA Written Exam ASRA Practical Exam ASRA Practical Exam** Workshop (lectures) Workshop (hands-on) Workshop (hands-on) Gramercy Soho Empire Complex Hotel Room Astor Ballroom B Majestic Complex Manhattan Astor Ballroom A (Soho Complex) (Soho Complex) 6th floor 7th floor 8th floor 7th floor 7th floor Name 7th floor 7th floor 7:00 AM 7:15 AM **Registration Open** 7:30 AM TICKET Fellow Neuromodulation 7:45 AM Cadaver Workshop (by invitation) 8:00 AM TICKET Pre-01 **Welcome and Registration Exam Candidates 1-9** Welcome and Introductory 8:15 AM Half-Day Special Session **Lectures and Panel** Workshop 8:30 AM TICKET TICKET **Discussions** Introduction to 8:45 AM ASRA Pain and MSK ASRA Pain and MSK Interventional Ultrasound Certificate **Perioperative Point-of-Care** Interventional Ultrasound TICKET 9:00 AM TICKET **Ultrasound:** Certificate **Practical Exam** Airway, Lung, Diaphragm, Fellow Neuromodulation Cadaver Workshop Candidates 6-9 9:15 AM Fellow Neuromodulation Gastric, eFAST (by invitation) Written Exam **EDRA Exam Registration** Cadaver Workshop 9:30 AM Candidates 1-5 (by invitation) Group B: **Neuromodulation Techniques** 9:45 AM Cadaver Lab Group A: TICKET 10:00 AM **Interactive Lectures and Panel Discussions Break Exam Candidates 1-9** 10:15 AM European Diploma in Regional Anesthesia & Acute 10:30 AM TICKET TICKET Pain Management (EDRA) ASRA Pain and MSK Interventional Ultrasound Certificate ASRA Pain and MSK 10:45 AM Interventional Ultrasound Part 1 Certificate **Practical Exam** 11:00 AM Written Exam Candidates 1-5 Written Exam 11:15 AM Candidates 6-9 11:30 AM 11:45 AM 12:00 PM 12:15 PM **Lunch on Own** 12:30 PM TICKET Fellow Neuromodulation 12:45 PM Cadaver Workshop (by invitation) 1:00 PM TICKET Pre-02 **PBLDs** 1:15 PM Half-Day Special Session (all) Workshop TICKET 1:30 PM TICKET Fellow Neuromodulation Fellow Neuromodulation Cadaver Workshop **Introduction to Focused** 1:45 PM Cadaver Workshop (by invitation) **Cardiac Ultrasound (FoCUS)** (by invitation) 2:00 PM Group A: **Neuromodulation Techniques** Group B: 2:15 PM Cadaver Lab **Interactive Lectures and** 2:30 PM **Panel Discussions** 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM TICKET 4:30 PM TICKET Happy Hour Reception **Happy Hour Reception** 4:45 PM 16th Floor Sky Lobby Lounge 16th Floor Sky Lobby 5:00 PM 5:15 PM 5:30 PM



REGIONAL ANESTHESIA & PAIN MEDICINE

Annual Regional Anesthesiology & Acute Pain Medicine Meeting





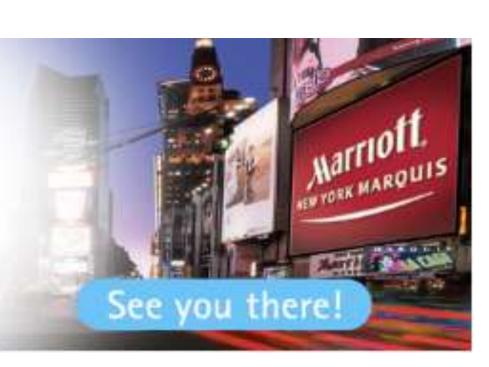
Pre-Congress Special Sessions Wednesday, April 18, 2018

7:30 am -	6:00 pm	Workshop Coordinators	Sandra Kopp, MD; Daniel Warren,	MD	
					Majestic (lectures)
		ACD A Advanced Nevrence division Community Hands on Wentshan with	Loods		6th floor
7-00	C- 00	ASRA Advanced Neuromodulation Comprehensive Hands-on Workshop with	Lead:		Astor (workshop)
7:30 am -	6:00 pm	Practical Case Management for the Future Implanters (by invitation)	David Provenzano, MD		7th floor
			Asokumar Buvanendran, MD		non-CME
			Timothy Deer, MD		
			Sam Eldabe, MD Steven Falowski, MD		
			Jay Grider, MD		
			Salim Hayek, MD		
			Marc Huntoon, MD		
			Timothy Lubenow, MD		
			Neel Mehta, MD		
			Kiran Patel, MD		
			Carlos Pino, MD		
			Jason Pope, MD		
			Todd Sitzman, MD		
			Michael Harned, MD		
			Paul Verrills, MBBS		
			Mark Wallace, MD		
			Joshua Wellington, MD		
					Soho (written)
		ASRA Pain and MSK Interventional Ultrasound Certificate	Lead:		Empire (practical)
8:00 am -	12:00 pm	Written and Practical Exam: Candidates 1-9	Philip Peng, MD		7th floor
			Anuj Bhatia, MD		non-CME
			Steven P. Cohen, MD		
			Levon Nazarian, MD		
		European Diploma in Regional Anesthesia & Acute Pain Management (EDRA)	Proctor:		Manhattan
9:00 am -	1:00 pm	Part 1 Written Exam	Narinder Rawal, MD		8th floor
9:00 am		Registration			non-CME
10:00 am		Exam			
1:00 PM		Adjournment			
		Pre-01 Half-Day Special Session Workshop (\$395)			Gramercy
		Introduction to Perioperative Point-of-Care Ultrasound:	Lead:		(Soho Complex)
8:00 am -	12:00 pm	Airway, Lung, Diaphragm, Gastric, eFAST	Jan Boublik, MD		7th floor
		Introductory Lectures: Airway, Lung, Diaphragm, Gastric, FAST Exam	Javier Cubillos, MD		4 credits
		Station Rotations: 1. Airway 2. Lung 3. Diaphragm 4. Gastric 5. eFAST	Carrie Guheen, MD		POC
			Stephen Haskins, MD		
			Richelle Kruisselbrink, MD		
			Ban Tsui, MD		
					Gromoro:
		Dro 02 Holf Day Special Section Workshop (\$205)	Lead:		Gramercy (Soho Complex)
1.00	5.00	Pre-02 Half-Day Special Session Workshop (\$395) Introduction to Focused Cardiac Ultrasound (FoCUS)	Stephen Haskins, MD		7th floor
1:00 pm -	5:00 pm	, ,	•	Accorded Facultin	
1:05 pm 1:30 pm		Introduction to FoCUS Views and Image Optimization: Subcostal 4 Chamber/IVC, Scanning Session 1: Knobology, FoCUS Views, Pleural Scanning	Faculty: Jan Boublik, MD	Associate Faculty: Sean Garvin, MD	4 credits
1.50 pill		Coanning Session 1. Knowlogy, FUCUS Views, Fleural Scalining	Carrie Guheen, MD	Jemiel Nejim, MD	POC-
			Richelle Kruisselbrink, MD	Christopher Tanaka, MD	
3:00 pm		Introduction to M-Mode and Ventricular Assessment: M-Mode, Mitral and Tricuspid	TAIGHGHG TAIGHSSGIDHHK, MD	Ormotopher Tanaka, MD	
5.00 pili		Annular Plane Systolic Excursion (MAPSE and TAPSE)			
3:15 pm		Scanning Session 2: Knobology, Repeat FoCUS Views, Pleural Scanning			
ο. το μπ		M-Mode in Apical 4-Chamber (MAPSE/TAPSE)			
	1	INITINIOUS III APICAI 4-CHAINDSI (INIAESE/TAESE)			



Annual Regional Anesthesiology & Acute Pain Medicine Meeting





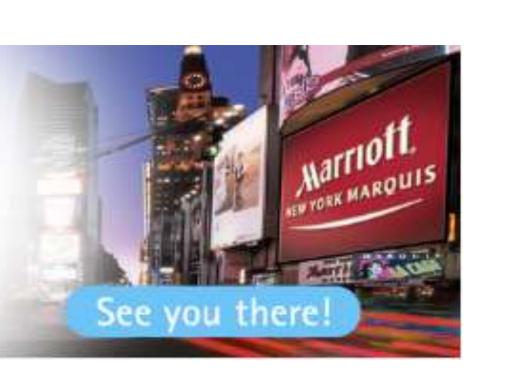
Section Sect							2018	y, April 19,	Thursday							
Table	Room 15	Room 14	Room 13	Room 12	Room 11	Room 10		_		Room 6						
March Marc	Moderated ePosters C	Moderated ePosters B	Moderated ePosters A	Workshops	Workshops	Workshops	Workshops	Workshops	Workshops	Not in Use						
Part	Plymouth (Shubert Complex)	(Shubert Complex)	(Shubert Complex)				(Soho Complex)	(Empire Complex)	(Empire Complex)	(Soho Complex)	_		,	_	•	
Part	6th floor	6th floor	6th floor	Oction of Ottomas d			7th floor	7th floor	7th floor	7th floor						7:00 AM
Part			rer		Re											
Section Sect											з Бтеакіаѕі іп гоуеі	Registration and				
Product Prod	MP-01c	MP-01b	MP-01a			TICKET WS-06		TICKET W.S-04				PS-01d	PS-01c	PS-01h	PS-01a	8:00 AM
Part	Moderated ePosters					RA-Acute Pain	RA-Acute Pain	RA-Acute Pain	RA-Acute Pain	RA-Acute Pain		RA-Acute Pain	RA-Acute Pain	Chronic Pain	RA-Acute Pain	
According of Control Properties Proper	Woderated erosters	wioderated erosters	Moderated erosters			•	1									
Company Comp						Needling Hands-On Practice	Lower Extremity Blocks			Uncommon Blocks		Anesthesia and Pain	Regional vs. General	-	Needle and Injection	
Part				- am roccanos	m,coment in the opinio			Wall Surgery (Ultrasound-	Surgery			Management SIG Panel	Anesthesia		Endpoints	
100-244 100-245 100-								Based)	(Ultrasound-Based)							
Column C									e abmanta in Favor	Dunck and Date						
Column C				TICKET	TICKET				eshinents in Foyer	Break and Refi						
19 19 19 19 19 19 19 19				WS-08	WS-07			TICKET								
Fourtile Services Four	MP-02c	MP-02b	MP-02a	Hands-On				WS-10								10:30 AM
Advanced Black Techniques (of Smollor Burgery 1975-24) 1975-74 1	Moderated ePosters	Moderated ePosters	Moderated ePosters	·								Parallel Session	Parallel Session	Parallel Session	Parallel Session	10:45 AM
Spice Books for Support Spice Blocks for Support Spice Blocks for Support Spice Blocks for Support Spice S				-	Basic Neuromodulation			Everyday Peripheral Nerve	Introductory Ultrasound of	Advanced Block Techniques						11:00 AM
13 AM				riocedures				Blocks for Upper Limb Surgery	•	for Shoulder Surgery						
PRID \$1-19								(10000000000000000000000000000000000000								
PRIDS 11-96 Lunchon Own PRIDS 11-96 Lunchon Lunchon										_	TICKET	TICKET				11:45 AM 12:00 PM
17.5 FM											PBLD's 11-16	PBLD's 1-10		Lumah an Oum		12:15 PM
1.15 FM											Luncheon	Luncheon		Lunch on Own		12:30 PM
PS-C00																1:00 PM
1.00 PM R.A-Acute Pan Partial Session Pa	MP-03c	MP 03b	MP 030		TICKET WS-15	TICKET W/S 14	TICKET W/S 13	TICKET WS-12			PS 030	PS 034	PS 030	PS 03b	DS 030	
Competent Comp	Moderated ePosters			Chronic Pain	Chronic Pain	RA-Acute Pain	RA-Acute Pain	RA-Acute Pain	RA-Acute Pain		Chronic Pain	RA-Acute Pain	RA-Acute Pain	Chronic Pain	RA-Acute Pain	
2:15 PM 2:15 PM 2:20 PM 2:20 PM 2:30 PM 3:50° Roundtable Discussion Practice Advisory Practice Advisor	woderated er osters	Widderated erosters	Moderated erosters	Ultrasound Workshop	Fluoroscopy & Ultrasound	•	•									
2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 4:00 PM 4:00 PM 4:15 PM 4:30 P					· ·	Needling Hands on Practice		Everyday Peripheral Nerve				Local Anesthetic Systemic	Pathway for Total Knee		Acute Pain Management	
2-45 PM									Spine -			* * *	A 360° Roundtable			
Break and Refreshments in Foyer 3:15 PM 3:45 PM					Management								Discussion			
3:15 PM 3:30 PM 3:45 PM 4:16 PM 4:16 PM 4:16 PM Special Session AK A Presidential Address The ASA in 2018: At Home and Abroad At Home and Ab								over	reak and Pofrachments in F							
Special Session ASA Presidential Address The ASA in 2018: At Home and Abroad 4:30 PM								Cyc.	. Sun and Nenesiments III f							
Special Session 3:45 PM ASA Presidential Address The ASA in 2018: At Home and Abroad 4:15 PM Special Session A:30 PM A:30 PM New Perspectives in Special Session As Presidential Address The ASA in 2018: At Home and Abroad A:15 PM Special Session As Presidential Address The ASA in 2018: At Home and Abroad A:15 PM Special Session A:30 PM New Perspectives in Special Session As Presidential Address The ASA in 2018: At Home and Abroad A:15 PM Special Session Assa Presidential Address The ASA in 2018: At Home and Abroad A:15 PM Special Session Assa Presidential Address The ASA in 2018: At Home and Abroad A:15 PM Special Session Assa Presidential Address The ASA in 2018: At Home and Abroad A:15 PM Special Session Advances in MSK Imaging and Interventions								TICKET								3:30 PM
4:15 PM Special Session Labat Award Lecture New Perspectives in Ne	MP-04c							WS-17 RA-Acute Pain	RA-Acute Pain		Chronic Pain			Chronic Pain	ASA Presidential Address	3:45 PM
Special Session 4:30 PM Labat Award Lecture New Perspectives in Symposium: Sports Medicine/Injury Medicine SiG Panel: Advances in MSK Imaging and Interventions Medicine SiG Panel: Medicine SiG P	Moderated ePosters	Moderated ePosters	Moderated ePosters													4:00 PM
4:30 PM Labat Award Lecture New Perspectives in Medicine/Injury Advances in MSK Imaging and Interventions Blocks for Lower Limb								Uncommon Blocks	Everyday Peripheral Nerve					Symposium: Sports	Special Session	
Alan Of a Latin Bank									Blocks for Lower Limb						Labat Award Lecture	4:30 PM
Regional Anestnesia									(Nerve Stimulation-Based)						Regional Anesthesia	4:45 PM
5:00 PM								Ononing Corons								
Opening Ceremony 5:15 PM Broadway North; overflow seating in parallel sessions B-E							allel sessions B-E		Broadway Nort							
5:30 PM								•								
Special Event Wine and Bulbbly Networking Recention							aantian	•	VALL							
Wine and Bubbly Networking Reception and Exhibit Hall Grand Opening																



EGIONAL ANESTHESIA & PAIN MEDICINE

ASRA's 43rd — ASRA's 43rd — Annual Regional Anesthesiology & Acute Pain Medicine Meeting





							Friday,	April 20, 2	018						
	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8	Room 9	Room 10	Room 11	Room 12	Room 13	Room 14	Room 15
tivity	RA-Acute Pain Parallel A	Chronic Pain Parallel B	RA-Acute Pain Parallel C	RA-Acute Pain Parallel D	Chronic Pain Parallel E	Workshops	Workshops	Workshops	Workshops	Workshops	Workshops	Workshops	Moderated ePosters A	Moderated ePosters B	Moderated ePoster
Room	Broadway North	Broadway South	Majestic Complex	Manhattan	Liberty	Soho (Soho Complex)	Chelsea (Empire Complex)	Empire (Empire Complex)	Gramercy (Soho Complex)	Astor A	Astor B	Columbia	Shubert (Shubert Complex)	Uris (Shubert Complex)	Plymouth (Shubert Complex
me	6th floor	6th floor	6th floor	8th floor	8th floor	7th floor	7th floor	7th floor	7th floor	7th floor	7th floor	7th floor	6th floor	6th floor	6th floor
AM		- Halyard Health													
5 AM		Non-CME Ancillary Event													
) AM		(breakfast included)		Getting Started				Getting Started					Getting Started		
5 AM			Drackfoot Exhibition of	Registration in Foyer	stomat Cafá in Eubibit I lall		Drackfoot Exhibition of	Registration in Foyer	ntomat Cafá in Evhibit Hall			Drackfoot Evhibition of	Registration in Foyer	stamat Cafá in Evhibit Hall	
) AM			Breaklast, Exhibition, er	Posters, ASRA Chat Room, In	Exhibit Hall	TICKET	TICKET TICKET	Posters, ASRA Chat Room, I	TICKET TICKET	TICKET	TICKET	TICKET TICKET	Posters, ASRA Chat Room, In	lternet Cale in Exhibit Haii	1
AM	PS-05a	PS-05b	PS-05c	PS-05d	PS-05e	WS-18	WS-53	WS-19	WS-20	WS-21	WS-22	WS-23	MP-05a	MP-05b	MP-05c
	RA-Acute Pain Parallel Session	Chronic Pain Parallel Session	RA-Acute Pain Parallel Session	RA-Acute Pain Parallel Session	Chronic Pain Parallel Session	RA-Acute Pain Half-Day	RA-Acute Pain Interactive Demonstration	RA-Acute Pain Interactive Demonstration	RA-Acute Pain Hands-On Workshop	RA-Acute Pain Half-Day	Chronic Pain Hands-On	Chronic Pain Half -Day	Moderated ePosters	Moderated ePosters	Moderated ePost
AM						Simulation Workshop	Workshop	Workshop	· ·	Cadaver Workshop	Fluoroscopy & Ultrasound	Ultrasound Workshop			
AM	How I Do It: ips for Experts by Experts	Neuromodulation SIG Panel: Making Neuromodulation	Best Practice for Neuraxial Anesthesia and Analgesia	Outpatient / Fast-Track Joint Replacement Surgery:	Member Submitted Panel: Challenging Centralized		Everyday Peripheral Nerve	Ultrasound Diagnosis of	High-Fidelity Simulator for Thoracic Blocks	Needling Hands-On Practice	Workshop (cadaver, live model)	(live model)			
AM f	for Peripheral Nerve and	Therapy Work		Expert Panel Discussion	Pain Syndromes -	Crisis Management for the	Blocks for Abdominal Wall	Pneumothorax and				MSK Ultrasound:			
AM	ntermuscular Plane Blocks				Where Are We in 2018?	Regional Anesthesiologist	Surgery (Ultrasound-Based)	Diaphragmatic Paresis			Advanced Head and Neck Injections	Shoulder, Hip, Knee, and Ankle			
AM						-	(0.000000000000000000000000000000000000								
5 AM			Break in Exhibit Hall												
		•	libition, ePosters, ASRA Chatember Meet and Greet in Cl	· · · · · · · · · · · · · · · · · · ·											
0 AM		New Inc	mber weet and Greet in Gr	nat Room											
5 AM	PS-06a	DC OCh	DC 000		DC 000		TICKET	TICKET	TICKET WS-26		TICKET		MD OCo	MP-06b	MD 00a
D AM	RA-Acute Pain	PS-06b Chronic Pain	PS-06c RA-Acute Pain		PS-06e Chronic Pain		WS-24 RA-Acute Pain	WS-25 RA-Acute Pain	RA-Acute Pain		WS-27 Chronic Pain		MP-06a	IVIP-06D	MP-06c
5 AM	Parallel Session	Parallel Session	Parallel Session		Parallel Session		Interactive Demonstration	Interactive Demonstration	Hands-On Workshop		Hands-on		Moderated ePosters	Moderated ePosters	Moderated ePos
O AM	How I Do It:	Neuropathic Pain	Perioperative Surgical		Intrathecal Therapy Panel		Workshop	Workshop	High-Fidelity Simulator for		Fluoroscopy Workshop (cadaver)				
Т	ips for Experts by Experts		Home (PSH) and the				Everyday Peripheral Nerve		Thoracic Blocks		Intro discol To shuisus su				
	for Paravertebral and Neuraxial Blocks		Evolution of Perioperative Medicine Worldwide				Blocks for Abdominal Wall Surgery	Anatomical Demonstration: Freestyle "Stump the			Intradiscal Techniques: Discography, Biacuplasty				
30 AM							(Ultrasound-Based)	Chump!"							
45 AM															
00 PM 15 PM	Recro Pharma	Nevro													
30 PM	Non-CME Ancillary Event (lunch included)	Non-CME Ancillary Event (lunch included)			Lunch	on Own							Lunch	on Own	
15 PM	(terrori moradou)	(ranem meradea)													
5 PM						TICKET	TICKET	TICKET	TICKET	TICKET	TICKET	TICKET			
) PM	PS-07a RA-Acute Pain	PS-07b Chronic Pain	PS-07c RA-Acute Pain	PS-07d RA-Acute Pain		WS-28 RA-Acute Pain	WS-29 RA-Acute Pain	WS-30 RA-Acute Pain	WS-31 RA-Acute Pain	WS-54 Chronic Pain	WS-33 Chronic Pain	WS-34 Chronic Pain	MP-07a	MP-07b	MP-07c
5 PM	Parallel Session	Parallel Session	Parallel Session	Parallel Session		Half-Day	Interactive Demonstration	Interactive Demonstration	Half-Day	Hands-On	Hands-On	Half-Day	Moderated ePosters	Moderated ePosters	Moderated ePost
	Pharmacology Undate:	Pro/Con Debate:	Pro/Con Debate:	Education in Regional		Simulation Workshop	Workshop	Workshop	Comprehensive Workshop	Fluoroscopy Workshop (cadaver)	Ultrasound Workshop	Fluoroscopy & Ultrasound Workshop			
) PM	Pharmacology Update: Local Anesthetic and	Chronic Pain Management	Regional Anesthesia vs.	Anesthesia and Acute Pain:			Advanced Block Techniques		Truncal-Paravertebral Block	s	(cadaver, live model)	(cadaver, live model)			
5 PM	Adjuncts	Controversies	General Anesthesia Outcome Controversies	International Perspectives		Crisis Management for the Regional Anesthesiologist	for Shoulder Surgery	Blockade in Difficult Anatomy		Radiofrequency Ablation	Ultrasound-Guided Interventions in	Advanced Neuromodulation			
PM			Outcome Controversies			Regional Anesthesiologist		Anatomy			Regenerative Medicine	Techniques			
PM			Break in Exhibit Hall												
) PM		Refreshments, Ex	chibition, ePosters, ASRA Chat F	Room, Internet Café											
5 PM			DA/ND/Nursing Most and Cree	ot											
J [7 [V]			PA/NP/Nursing Meet and Gree	ei											
		PS-08b	PS-08c		PS-08e		TICKET WS-35	TICKET WS-36		WS-37	TICKET WS-55		MP-08a	MP-08b	MP-08c
) PM	PS-08a		RA-Acute Pain		Chronic Pain		RA-Acute Pain	RA-Acute Pain		Chronic Pain	Chronic Pain				
PM	RA-Acute Pain	Chronic Pain			Parallel Session		Interactive Demonstration Workshop	Interactive Demonstration Workshop		Hands-On Fluoroscopy Workshop	Hands-On Ultrasound Workshop		Moderated ePosters	Moderated ePosters	Moderated ePost
PM PM		Parallel Session	Parallel Session					- Cincilop		(cadaver)	(cadaver, live model)				
PM D PM D PM D PM	RA-Acute Pain Parallel Session Pharmacology Update:	Parallel Session The Opioid Epidemic:	Pro/Con Debate:		Relevant Anatomy and		A 1	1.114							
D PM	RA-Acute Pain Parallel Session Pharmacology Update: Hemostasis Altering Drugs	Parallel Session			Imaging to Improve Success		Advanced Block Techniques for Hip and Knee Surgery	Ultrasound for Neuraxial Blockade in Difficult		Radiofrequency Ablation	Ultrasound-Guided				
PM PM PM PM	RA-Acute Pain Parallel Session Pharmacology Update: Hemostasis Altering Drugs	Parallel Session The Opioid Epidemic: Global Perspective on the	Pro/Con Debate: Regional Analgesia				Advanced Block Techniques for Hip and Knee Surgery			Radiofrequency Ablation	Interventions in				
PM PM PM PM	RA-Acute Pain Parallel Session Pharmacology Update: Hemostasis Altering Drugs and Regional Anesthesia	Parallel Session The Opioid Epidemic: Global Perspective on the Appropriate Use of Chronic	Pro/Con Debate: Regional Analgesia		Imaging to Improve Success in Pain Diagnosis and			Blockade in Difficult		Radiofrequency Ablation					
PM PM PM PM PM A	RA-Acute Pain Parallel Session Pharmacology Update: Hemostasis Altering Drugs and Regional Anesthesia	Parallel Session The Opioid Epidemic: Global Perspective on the Appropriate Use of Chronic	Pro/Con Debate: Regional Analgesia		Imaging to Improve Success in Pain Diagnosis and			Blockade in Difficult		Radiofrequency Ablation	Interventions in				
PM PM PM PM PM PM PM	RA-Acute Pain Parallel Session Pharmacology Update: Hemostasis Altering Drugs and Regional Anesthesia	Parallel Session The Opioid Epidemic: Global Perspective on the Appropriate Use of Chronic	Pro/Con Debate: Regional Analgesia		Imaging to Improve Success in Pain Diagnosis and			Blockade in Difficult		Radiofrequency Ablation	Interventions in			al Event	



4:45 PM

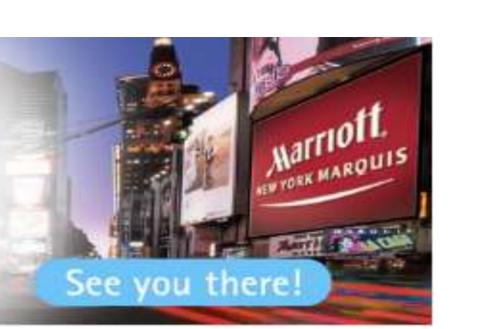
7:00-10:00 PM

2018 World Congress on

REGIONAL ANESTHESIA & PAIN MEDICINE

ASRA's 43rd —
Annual Regional Anesthesiology & Acute Pain Medicine Meeting



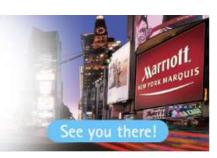


						Sat	urday, Apri	il 21, 2018						
	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8	Room 9	Room 10	Room 12	Room 13	Room 14	Room 15
Activity	RA-Acute Pain Parallel A	Chronic Pain Parallel B	RA-Acute Pain Parallel C	RA-Acute Pain Parallel D	PA/NP/Nursing Program	Interactive Sessions	NYSORA Workshop	NYSORA Workshop	Workshops	Workshops	Workshops	Moderated ePosters A	Moderated ePosters B	Moderated ePosters C
Hotel Room Name	Broadway North 6th floor	Broadway South 6th floor	Majestic Complex 6th floor	Manhattan 8th floor	Liberty 8th floor	Soho (Soho Complex) 7th floor	Chelsea (Empire Complex) 7th floor	Empire (Empire Complex) 7th floor	Gramercy (Soho Complex) 7th floor	Astor Ballroom 7th floor	Columbia 7th floor	Shubert (Shubert Complex) 6th floor	Uris (Shubert Complex) 6th floor	Plymouth (Shubert Complex) 6th floor
7:30 AM			_	g Started					Getting Started				Getting Started	
7:45 AM		Breakt		ion in Foyer Chat Room, Internet Café in Exh	ibit Hall			Breakfast, Exhibition,	Registration in Foyer ePosters, ASRA Chat Room, Inte	ernet Café in Exhibit Hall		Breakfast, Exhibition, e	Registration in Foyer Posters, ASRA Chat Room, Inte	rnet Café in Exhibit Hall
8:00 AM	PS-09a	PS-09b	PS-09c	PS-09d	PA/NP/Nursing Program	IS-01		S-38	TICKET WS-39	WS-40	TICKET WS-41	MP-09a	MP-09b	MP-09c
8:15 AM 8:30 AM	RA-Acute Pain Parallel Session	Chronic Pain Parallel Session	RA-Acute Pain Parallel Session	RA-Acute Pain Parallel Session	Update on Opioids	Ask-the-Expert Interactive Session Stress Management		egional Aneshesia (NYSORA) Workshop	Chronic Pain Resident/Fellow Workshop	RA-Acute Pain Resident/Fellow Workshop	RA-Acute Pain Interactive Demonstration Workshop	Moderated ePosters	Moderated ePosters	Moderated ePosters
8:45 AM	Innovations in Regional Anesthesia	Advances in Neuromodulation:	Procedure Specific Pain Therapy:	Obstetrics Forum			3D Anatomy and Lower Abd	Iominal and Extremity Blocks	Fluoroscopy-Guided Injections	Regional Anesthesia and Perioperative	Everyday Peripheral Nerve			
9:00 AM	Allestilesia	International Neuromodulations Society	Evidence-Based Recommendations							Point-of-Care Ultrasound	Blocks for Breast and Chest Wall Surgery (Ultrasound-			
9:15 AM		(INS) Panel	Recommendations								Based)			
9:30 AM														
9:45 AM				Exhibit Hall					TICKET					
10:00 AM		R	efreshments, Exhibition, ePoste	rs, ASRA Chat Room, Internet Ca	afé				WS-42 Chronic Pain					
10:15 AM	PS-10a	PS-10b	PS-10c	DC 104	PA/NP/Nursing Program	IS-02			Hands-On Fluoroscopy Workshop		TICKET WS-43	MP-10a	MP-10b	MP-10c
10:30 AM	RA-Acute Pain Parallel Session	Chronic Pain Parallel Session	RA-Acute Pain Parallel Session	PS-10d RA-Acute Pain Parallel Session		Ask-the-Expert Interactive Session			(cadaver)		RA-Acute Pain Interactive Demonstration			
10:45 AM	Newer Block Techniques:	Headache SIG Panel:	Acute Pain Management:	Defining Outcomes that	Chronic Low Back Pain (LBP)	Catheter Management Issues			Minimally Invasive Lumbar Decompression (MILD)		Workshop	Moderated ePosters	Moderated ePosters	Moderated ePosters
11:00 AM	Why and How Well Do They	Modern Headache Care	Best Practice for Intravenous	Matter to Regional							Head and Airway Blocks			
11:15 AM	Work?	Collaboration Between Neurology and Interventional	Analgesics	Anesthesia: An International Discussion										
11:30 AM		Pain												
11:45 AM			1											
12:00 PM 12:15 PM	Sintetica	Pfizer Inc. and Eli Lilly and												
12:30 PM	Non-CME Ancillary Event (lunch included)	Company Non-CME Ancillary Event	Lunch	on Own					Lunch	on Own				
12:45 PM	(lanen meladea)	(lunch included)												
1:00 PM 1:15 PM							TICHET	TICUTT	TICHES	TICHET	TICHET			
1:15 PM 1:30 PM	PS-11a	PS-11b	PS-11c	PS-11d	PA/NP/Nursing Program	IS-03	WS-11	WS-56	WS-44	WS-45	WS-46	MP-11a	MP-11b	MP-11c
1:45 PM	RA-Acute Pain Parallel Session	Chronic Pain Parallel Session	RA-Acute Pain Parallel Session	Chronic Pain Parallel Session	Current Low Back Pain Interventions	Ask-the-Expert Interactive Session	RA-Acute Pain Interactive Demonstration	RA-Acute Pain Interactive Demonstration	RA-Acute Pain Half-Day Cadavar Workshop	Chronic Pain Resident/Fellow Workshop	RA-Acute Pain Interactive Demonstration Workshop	Moderated ePosters	Moderated ePosters	Moderated ePosters
1 1	•			Current Status of	interventions	Acute Pain Management for	Workshop Boarle for Bodistrie Bogienel	Workshop Fyoruslav Poriphoral Norva	Cadaver Workshop	Ultrasound-Guided Injections				
2:15 PM	Anesthesia and Surgery	Management and Medico- Legal Cases	Management: Part I	Radiofrequency		the Challenging Patient	Pearls for Pediatric Regional Anesthesia	Everyday Peripheral Nerve Blocks for Lower Limb Surgery			New Blocks: Retrolaminar, Erector Spinae,			
2:30 PM								(Ultrasound-Based)			iPack, Costoclavicular, Retroclavicular BP			
2:45 PM														
3:00 PM				Break i	n Foyer									
3:15 PM							TICKET				TICKET			
3:30 PM	PS-12a RA-Acute Pain	PS-12b Chronic Pain	PS-12c RA-Acute Pain	PS-12d Chronic Pain	PA/NP/Nursing Program	IS-04 Ask-the-Expert Interactive	WS-48 RA-Acute Pain			<u> </u>	WS-47 RA-Acute Pain	MP-12a	MP-12b	MP-12c
3:45 PM	Parallel Session	Parallel Session	Parallel Session	Parallel Session	Providing Care to Special Populations	Session	Interactive Demonstration Workshop				Interactive Demonstration Workshop	Moderated ePosters	Moderated ePosters	Moderated ePosters
4:00 PM	Regional Anesthesia Related Complications and Medico-	Cancer Pain	Innovation in Acute Pain Management:	Marijuana and Cannaboids in Chronic Pain Management		Green Anesthesia: The Leading Role of Regional	Pearls for Pediatric Regional				Ultrasound Diagnosis of			
4:15 PM	Legal Issues		Part II	_		Anesthesia	Anesthesia				Pneumothorax and Diaphragmatic Paresis			
4:30 PM														

Special Event
World Congress Closing Celebration Overlooking Times Square
8th Floor Lounge



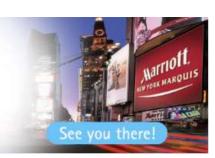




		Main Meeting		
		Thursday, April 19, 2018		
7:00 am -	8:00 am	Registration and Breakfast in Foyer		
1.00 aiii -	o.oo am	Negistration and Dieakrast in Foyer		
		PS-01a RA-Acute Pain Parallel Session	Moderator:	Broadway North
8:00 am -	9:45 am	Block Success: Needle and Injection Endpoints	Brian Sites, MD	6th floor
8:00 am		Upper and Lower Limb Blocks: Plexus and Peripheral Nerve	Jeffrey Gadsden, MD	1.75 credits
8:25 am		Truncal Blocks: Intermuscular Plane in Thorax and Abdomen	Jens Børglum, MD	M © CA
8:50 am		Paravertebral and Neuraxial Blocks	Manoj Karmakar, MD, FRCA	
9:15 am		Panel Discussion and Open Forum		
		PS-01b Chronic Pain Parallel Session	Moderator:	Broadway Souti
8:00 am -	9:45 am	Opioid-Induced Hyperalgesia and Tolerance	Eugene Viscusi, MD	6th floor
8:00 am		Basic Science Evidence and Mechanisms	David Clark, MD	1.75 credits
8:40 am		Clinical Relevance	Oscar de Leon-Casasola, MD	
9:00 am		Panel Discussion and Open Forum		
		DC 04- DA Acute Dein Denellel Consider		
0.00 am	0. 4E am	PS-01c RA-Acute Pain Parallel Session	Moderator:	Majestic
8:00 am -	9:45 am	Pro/Con Debate: Regional vs. General Anesthesia	Narinder Rawal, MD	Complex
8:00 am		Fractured Hip Surgery	(RA) Mark Neuman, MD (GA) Amit Pawa, MD	1.75 credits
8:30 am		Breast Cancer Surgery	(RA) Faraj Abdallah, MD	
0.00 am		Disast Sancer Surgery	(GA) Christopher Wu, MD	
9:00 am		Arthroscopic Shoulder Surgery	(RA) Sandra Kopp, MD	
o.oo am		7. Turioscopio oriodidei odrgery	(GA) Geert-Jan van Geffen, MD	
9:30 am		Best of Meeting Abstracts 4877 and 5222	(Gri) Geert Gari Vari Gerieri, IVID	
		PS-01d RA-Acute Pain Parallel Session	Moderator:	Manhattan
8: 00 am -	9:45 am	Pediatric Regional Anesthesia and Pain Management SIG Panel	Karen Boretsky, MD	8th floor
8:00 am		Pediatric Regional Anesthesia Guidelines and Consensus Statements	Giorgio Ivani, MD	1.75 credits
8:20 am		Safety and Efficacy of Regional Anesthesia in Infants and Children	Karen Boretsky, MD	M © CA ̃
8:40 am		Acute Pain Services in Children: ERAS	Santhanam Suresh, MD	
9:00 am		Regional Anesthesia and Interventions for Pediatric Chronic Pain and Palliative Care	Charles Berde, MD	Ped
9:20 am		Panel Discussion and Open Forum		
9:45 am -	10:15 am	Break and Refreshments in Foyer		
		PS-02a RA-Acute Pain Parallel Session	Moderator:	Broadway North
10:15 am -	11:45 am	Block Safety: Neurologic Complications	Brian Sites, MD	6th floor
10:15 am		Upper and Lower Limb Blocks: Plexus and Peripheral Nerve - Risk Factors, Etiology,	Richard Brull, MD	1.5 credits
		Mechanisms		– M ® CA"
10:30 am		Neuraxial Blocks: Low Back Pain / Spinal Stenosis	Joseph Neal, MD	
10:45 am		Patients with Preexisting Neurologic Symptoms: Diabetes, MS, Chemotherapy	Sandra Kopp, MD	
11:00 am		Lessons Learned from Patient Registries / Databases	Michael Barrington, MD	
11:15 am	·	Panel Discussion and Open Forum		
		PS-02b Chronic Pain Parallel Session	Moderator:	Broadway South
10:15 am -	11:45 am	Transition of Acute to Chronic Pain	David Clark, MD	6th floor
10:15 am		Basic Science Evidence and Mechanisms	Patricia Lavand'homme, MD	1.5 credits
10:45 am		Clinical Challenges: Prevention and Treatment	Asokumar Buvanendran, MD	
11:15 am		Panel Discussion and Open Forum		
			Madagas	
10:15 am -	11:45 am	PS-02c RA-Acute Pain Parallel Session Enhanced Recovery After Major Colorectal Surgery	Moderator: Nabil Elkassabany, MD	Majestic Complex
10:15 am	11.45 am	Principles and Preoperative Patient Optimization	Tong Joo (TJ) Gan, MD	1.5 credits
10:13 am		ERAS and the Surgical Goals (Surgical Techniques, Blood Loss, DVT Prophylaxis, Drains)	Mitchell Bernstein, MD	1.5 Credits
10:30 am 10:45 am		Specific Anesthesia and Analgesia Strategies (IV Fluid, Hypotension, Temperature,	Monty Mythen, MD	
ioi-to aili		Analgesia in General)	William Willia	
11:00 am		Anesthesiology-Related Controversies in ERAS Pathways	Christopher Wu, MD	
11:15 am		Panel Discussion and Open Forum		
10.45	11.45	PS-02d RA-Acute Pain Parallel Session	Moderator:	Manhattan
10:15 am -	11:45 am	Perioperative Point-of-Care Ultrasound SIG Panel	Jan Boublik, MD	8th floor
10:15 am 10:35 am		Lung Ultrasound to Evaluate Post Block Respiratory Distress Gastric Ultrasound and FAST for Abdominal Assessment	Oliver Panzer, MD	1.5 credits
10:35 am 10:55 am		Focused Transthoracic Echocardiography (FATE) for Perioperative Hemodynamic	Anahi Perlas, MD Stephen Haskins, MD	M <mark>®C</mark> A
เบ.งจ สเป		Panel Discussion and Open Forum	Stephen Flaskins, IVID	POC
11:15 am				





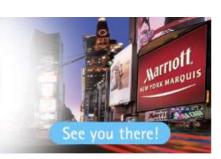


2:00 pm -	1:00 pm	Problem-Based Learning Discussions (PBLDs) Luncheon		
•	•	(open to all, tickets \$90, includes lunch, see list)		
		PS-03a RA-Acute Pain Parallel Session	Moderator:	Broadway North
-	3:00 pm	Acute Pain Management	Andres Missair, MD	6th floor
I:15 pm		Update on Multimodal Analgesia	Eugene Viscusi, MD	1.75 credits
l:40 pm		Obstructive Sleep Apnea	Patricia Lavand'homme, MD	
2:05 pm		Major Spine Surgery	Christopher Gharibo, MD	
2:30 pm		Panel Discussion and Open Forum		
		PS-03b Chronic Pain Parallel Session	Moderator:	Broadway South
-	3:00 pm	Low Back Pain: Advances in Treatment	Ricardo Vallejo, MD	6th floor
1:15 pm		Mechanisms of Discogenic, Facet, and Failed Back Surgery Syndrome	Steven P. Cohen, MD	1.75 credits
1:50 pm		Update on Interventional Treatment Strategies	Jan Van Zundert, MD	
2:25 pm		Panel Discussion and Open Forum		
		PS-03c RA-Acute Pain Parallel Session	Moderators:	Complex
l:15 pm -	3:00 pm	Enhanced Recovery for Total Knee Arthroplasty: A 360° Roundtable Discussion	Gregory Liguori, MD	6th floor
		The Surgeon's Perspective	Michael Bolognesi, MD	1.75 credits
	n/processor		Gregory Polkowski, MD	
		The Anesthesiologist's Perspective	Nabil Elkassabany, MD	
***************************************		The Patient's Perspective: The Good and the Bad	Martha T. DelPizzo, Ed.D	
		Other Perspectives and Variables Influencing Outcomes	Rebecca Johnson, MD	
		PS-03d Chronic Pain Parallel Session	Moderator:	Manhattan
1:15 pm -	3:00 pm	Local Anesthetic Systemic Toxicity (LAST): A Paradigm in Evolution	Brian Sites, MD	8th floor
1:15 pm		Overview: Mechanisms of Lipid Resuscitation	Guy Weinberg, MD	1.75 credits
1:35 pm		Clinical Presentation and Features	Michael Barrington, MD	
1:55 pm		Incidence, Registries, and Community Risk	Stavros Memtsoudis, MD	
2:15 pm		ASRA LAST Checklist and Conclusions	Joseph Neal, MD	
2:35 pm		Panel Discussion and Open Forum		
		<u>'</u>		
		PS-03e Chronic Pain Parallel Session	Moderator:	Liberty
1:15 pm -	3:00 pm	Complex Regional Pain Syndrome	Leonardo Kapural, MD	8th floor
1:15 pm		Current Understanding of Pathophysiology	David Clark, MD	1.75 credits
1:50 pm		Interventional Treatments: Understanding the Evidence	Timothy Lubenow, MD	
2:25 pm		Panel Discussion and Open Forum		
3:00 pm -	3:30 pm	Break and Refreshments in Foyer		
3:00 pm -	3:30 pm	Break and Refreshments in Foyer		
3:00 pm -	3:30 pm	Break and Refreshments in Foyer Special Session	Moderator:	Broadway North
•	3:30 pm 4:15 pm		Moderator: Asokumar Buvandendran, MD	Broadway North 6th floor
•	-	Special Session		
•	-	Special Session American Society of Anesthesiologists Presidential Address	Asokumar Buvandendran, MD	6th floor .75 credits
•	-	Special Session American Society of Anesthesiologists Presidential Address	Asokumar Buvandendran, MD James Grant, MD Moderator:	6th floor .75 credits Broadway South
3:30 pm	-	Special Session American Society of Anesthesiologists Presidential Address The ASA in 2018: At Home and Abroad	Asokumar Buvandendran, MD James Grant, MD	6th floor .75 credits
3:30 pm 3:30 pm -	4:15 pm	Special Session American Society of Anesthesiologists Presidential Address The ASA in 2018: At Home and Abroad PS-04b Chronic Pain Parallel Session	Asokumar Buvandendran, MD James Grant, MD Moderator:	6th floor .75 credits Broadway South
3:30 pm 3:30 pm -	4:15 pm	Special Session American Society of Anesthesiologists Presidential Address The ASA in 2018: At Home and Abroad PS-04b Chronic Pain Parallel Session Regenerative Medicine Symposium: Sports Medicine / Injury	Asokumar Buvandendran, MD James Grant, MD Moderator: Dmitri Souza, MD	6th floor .75 credits Broadway South 6th floor 1.5 credits
3:30 pm - 3:30 pm - 3:30 pm 3:45 pm	4:15 pm	Special Session American Society of Anesthesiologists Presidential Address The ASA in 2018: At Home and Abroad PS-04b Chronic Pain Parallel Session Regenerative Medicine Symposium: Sports Medicine / Injury Regenerative Medicine: Key Concepts and Regulatory Landscape	Asokumar Buvandendran, MD James Grant, MD Moderator: Dmitri Souza, MD Aaron Calodney, MD	6th floor .75 credits Broadway South 6th floor
3:30 pm - 3:30 pm - 3:30 pm 3:45 pm 4:00 pm	4:15 pm	Special Session American Society of Anesthesiologists Presidential Address The ASA in 2018: At Home and Abroad PS-04b Chronic Pain Parallel Session Regenerative Medicine Symposium: Sports Medicine / Injury Regenerative Medicine: Key Concepts and Regulatory Landscape Biologics and Sports Medicine: What Works?	Asokumar Buvandendran, MD James Grant, MD Moderator: Dmitri Souza, MD Aaron Calodney, MD Brian Cole, MD	6th floor .75 credits Broadway South 6th floor 1.5 credits
3:30 pm - 3:30 pm - 3:30 pm 3:45 pm 4:00 pm 4:15 pm	4:15 pm	Special Session American Society of Anesthesiologists Presidential Address The ASA in 2018: At Home and Abroad PS-04b Chronic Pain Parallel Session Regenerative Medicine Symposium: Sports Medicine / Injury Regenerative Medicine: Key Concepts and Regulatory Landscape Biologics and Sports Medicine: What Works? Data on Intradiscal Biologics for Lumbar Disc Disease Regenerative Medicine for Tendon and Joint Pain	Asokumar Buvandendran, MD James Grant, MD Moderator: Dmitri Souza, MD Aaron Calodney, MD Brian Cole, MD Gregory Lutz, MD	6th floor .75 credits Broadway South 6th floor 1.5 credits
3:30 pm - 3:30 pm - 3:30 pm 3:45 pm 4:00 pm 4:15 pm	4:15 pm	Special Session American Society of Anesthesiologists Presidential Address The ASA in 2018: At Home and Abroad PS-04b Chronic Pain Parallel Session Regenerative Medicine Symposium: Sports Medicine / Injury Regenerative Medicine: Key Concepts and Regulatory Landscape Biologics and Sports Medicine: What Works? Data on Intradiscal Biologics for Lumbar Disc Disease	Asokumar Buvandendran, MD James Grant, MD Moderator: Dmitri Souza, MD Aaron Calodney, MD Brian Cole, MD Gregory Lutz, MD	6th floor .75 credits Broadway South 6th floor 1.5 credits
3:30 pm - 3:30 pm - 3:30 pm 3:45 pm 4:00 pm 4:15 pm	4:15 pm	Special Session American Society of Anesthesiologists Presidential Address The ASA in 2018: At Home and Abroad PS-04b Chronic Pain Parallel Session Regenerative Medicine Symposium: Sports Medicine / Injury Regenerative Medicine: Key Concepts and Regulatory Landscape Biologics and Sports Medicine: What Works? Data on Intradiscal Biologics for Lumbar Disc Disease Regenerative Medicine for Tendon and Joint Pain	Asokumar Buvandendran, MD James Grant, MD Moderator: Dmitri Souza, MD Aaron Calodney, MD Brian Cole, MD Gregory Lutz, MD	6th floor .75 credits Broadway South 6th floor 1.5 credits
3:30 pm - 3:30 pm - 3:30 pm 3:45 pm 4:00 pm 4:15 pm	4:15 pm	Special Session American Society of Anesthesiologists Presidential Address The ASA in 2018: At Home and Abroad PS-04b Chronic Pain Parallel Session Regenerative Medicine Symposium: Sports Medicine / Injury Regenerative Medicine: Key Concepts and Regulatory Landscape Biologics and Sports Medicine: What Works? Data on Intradiscal Biologics for Lumbar Disc Disease Regenerative Medicine for Tendon and Joint Pain Panel Discussion and Open Forum	Asokumar Buvandendran, MD James Grant, MD Moderator: Dmitri Souza, MD Aaron Calodney, MD Brian Cole, MD Gregory Lutz, MD	6th floor .75 credits Broadway South 6th floor 1.5 credits
3:30 pm - 3:30 pm - 3:30 pm 3:45 pm 4:00 pm 4:15 pm 4:30 pm	4:15 pm	Special Session American Society of Anesthesiologists Presidential Address The ASA in 2018: At Home and Abroad PS-04b Chronic Pain Parallel Session Regenerative Medicine Symposium: Sports Medicine / Injury Regenerative Medicine: Key Concepts and Regulatory Landscape Biologics and Sports Medicine: What Works? Data on Intradiscal Biologics for Lumbar Disc Disease Regenerative Medicine for Tendon and Joint Pain Panel Discussion and Open Forum PS-04e Chronic Pain Parallel Session	Asokumar Buvandendran, MD James Grant, MD Moderator: Dmitri Souza, MD Aaron Calodney, MD Brian Cole, MD Gregory Lutz, MD Dmitri Souza, MD	6th floor .75 credits Broadway South 6th floor 1.5 credits Reg
3:30 pm - 3:30 pm - 3:30 pm 3:45 pm 4:00 pm 4:15 pm 4:30 pm	4:15 pm 5:00 pm	Special Session American Society of Anesthesiologists Presidential Address The ASA in 2018: At Home and Abroad PS-04b Chronic Pain Parallel Session Regenerative Medicine Symposium: Sports Medicine / Injury Regenerative Medicine: Key Concepts and Regulatory Landscape Biologics and Sports Medicine: What Works? Data on Intradiscal Biologics for Lumbar Disc Disease Regenerative Medicine for Tendon and Joint Pain Panel Discussion and Open Forum PS-04e Chronic Pain Parallel Session Ultrasonography in Pain Medicine SIG Panel: Advances in MSK Imaging and	Asokumar Buvandendran, MD James Grant, MD Moderator: Dmitri Souza, MD Aaron Calodney, MD Brian Cole, MD Gregory Lutz, MD Dmitri Souza, MD	6th floor .75 credits Broadway South 6th floor 1.5 credits Reg
3:30 pm - 3:30 pm - 3:30 pm - 3:45 pm - 4:00 pm - 4:30 pm - 3:30 pm -	4:15 pm 5:00 pm	Special Session American Society of Anesthesiologists Presidential Address The ASA in 2018: At Home and Abroad PS-04b Chronic Pain Parallel Session Regenerative Medicine Symposium: Sports Medicine / Injury Regenerative Medicine: Key Concepts and Regulatory Landscape Biologics and Sports Medicine: What Works? Data on Intradiscal Biologics for Lumbar Disc Disease Regenerative Medicine for Tendon and Joint Pain Panel Discussion and Open Forum PS-04e Chronic Pain Parallel Session Ultrasonography in Pain Medicine SIG Panel: Advances in MSK Imaging and Interventions	Asokumar Buvandendran, MD James Grant, MD Moderator: Dmitri Souza, MD Aaron Calodney, MD Brian Cole, MD Gregory Lutz, MD Dmitri Souza, MD Moderator: Samer Narouze, MD, PhD	6th floor .75 credits Broadway South 6th floor 1.5 credits Reg Liberty 8th floor 1.5 credits
3:30 pm - 3:30 pm - 3:30 pm 3:45 pm 4:00 pm 4:15 pm 4:30 pm - 3:30 pm -	4:15 pm 5:00 pm	Special Session American Society of Anesthesiologists Presidential Address The ASA in 2018: At Home and Abroad PS-04b Chronic Pain Parallel Session Regenerative Medicine Symposium: Sports Medicine / Injury Regenerative Medicine: Key Concepts and Regulatory Landscape Biologics and Sports Medicine: What Works? Data on Intradiscal Biologics for Lumbar Disc Disease Regenerative Medicine for Tendon and Joint Pain Panel Discussion and Open Forum PS-04e Chronic Pain Parallel Session Ultrasonography in Pain Medicine SIG Panel: Advances in MSK Imaging and Interventions Using Ultrasound Imaging to Improve Technical Outcomes: Hip and Knee Advances in Ultrasound-Guided Musculoskeletal Procedures	Asokumar Buvandendran, MD James Grant, MD Moderator: Dmitri Souza, MD Aaron Calodney, MD Brian Cole, MD Gregory Lutz, MD Dmitri Souza, MD Moderator: Samer Narouze, MD, PhD Philip Peng, MD Levon Nazarian, MD	6th floor .75 credits Broadway South 6th floor 1.5 credits Reg Liberty 8th floor
3:30 pm - 3:30 pm - 3:30 pm 3:45 pm 4:00 pm 4:15 pm 4:30 pm - 3:30 pm - 3:50 pm 4:10 pm	4:15 pm 5:00 pm	Special Session American Society of Anesthesiologists Presidential Address The ASA in 2018: At Home and Abroad PS-04b Chronic Pain Parallel Session Regenerative Medicine Symposium: Sports Medicine / Injury Regenerative Medicine: Key Concepts and Regulatory Landscape Biologics and Sports Medicine: What Works? Data on Intradiscal Biologics for Lumbar Disc Disease Regenerative Medicine for Tendon and Joint Pain Panel Discussion and Open Forum PS-04e Chronic Pain Parallel Session Ultrasonography in Pain Medicine SIG Panel: Advances in MSK Imaging and Interventions Using Ultrasound Imaging to Improve Technical Outcomes: Hip and Knee Advances in Ultrasound-Guided Musculoskeletal Procedures Ultrasound-Guided Interventional Spine Procedures: Is It a Reality?	Asokumar Buvandendran, MD James Grant, MD Moderator: Dmitri Souza, MD Aaron Calodney, MD Brian Cole, MD Gregory Lutz, MD Dmitri Souza, MD Moderator: Samer Narouze, MD, PhD Philip Peng, MD Levon Nazarian, MD Bernhard Moriggl, MD	6th floor .75 credits Broadway South 6th floor 1.5 credits Reg Liberty 8th floor 1.5 credits
3:30 pm - 3:30 pm - 3:30 pm 3:45 pm 4:00 pm 4:15 pm 4:30 pm - 3:30 pm - 3:30 pm -	4:15 pm 5:00 pm	Special Session American Society of Anesthesiologists Presidential Address The ASA in 2018: At Home and Abroad PS-04b Chronic Pain Parallel Session Regenerative Medicine Symposium: Sports Medicine / Injury Regenerative Medicine: Key Concepts and Regulatory Landscape Biologics and Sports Medicine: What Works? Data on Intradiscal Biologics for Lumbar Disc Disease Regenerative Medicine for Tendon and Joint Pain Panel Discussion and Open Forum PS-04e Chronic Pain Parallel Session Ultrasonography in Pain Medicine SIG Panel: Advances in MSK Imaging and Interventions Using Ultrasound Imaging to Improve Technical Outcomes: Hip and Knee Advances in Ultrasound-Guided Musculoskeletal Procedures	Asokumar Buvandendran, MD James Grant, MD Moderator: Dmitri Souza, MD Aaron Calodney, MD Brian Cole, MD Gregory Lutz, MD Dmitri Souza, MD Moderator: Samer Narouze, MD, PhD Philip Peng, MD Levon Nazarian, MD Bernhard Moriggl, MD Levon Nazarian, MD	6th floor .75 credits Broadway South 6th floor 1.5 credits Reg Liberty 8th floor 1.5 credits
3:30 pm - 3:30 pm - 3:30 pm 3:45 pm 4:00 pm 4:15 pm 4:30 pm - 3:30 pm - 3:50 pm 4:10 pm 4:30 pm	4:15 pm 5:00 pm	Special Session American Society of Anesthesiologists Presidential Address The ASA in 2018: At Home and Abroad PS-04b Chronic Pain Parallel Session Regenerative Medicine Symposium: Sports Medicine / Injury Regenerative Medicine: Key Concepts and Regulatory Landscape Biologics and Sports Medicine: What Works? Data on Intradiscal Biologics for Lumbar Disc Disease Regenerative Medicine for Tendon and Joint Pain Panel Discussion and Open Forum PS-04e Chronic Pain Parallel Session Ultrasonography in Pain Medicine SIG Panel: Advances in MSK Imaging and Interventions Using Ultrasound Imaging to Improve Technical Outcomes: Hip and Knee Advances in Ultrasound-Guided Musculoskeletal Procedures Ultrasound-Guided Interventional Spine Procedures: Is It a Reality? Video Presentation	Asokumar Buvandendran, MD James Grant, MD Moderator: Dmitri Souza, MD Aaron Calodney, MD Brian Cole, MD Gregory Lutz, MD Dmitri Souza, MD Moderator: Samer Narouze, MD, PhD Philip Peng, MD Levon Nazarian, MD Bernhard Moriggl, MD	6th floor .75 credits Broadway South 6th floor 1.5 credits Reg Liberty 8th floor 1.5 credits
3:30 pm - 3:30 pm - 3:30 pm - 3:45 pm 4:00 pm 4:15 pm 4:30 pm - 3:30 pm - 3:50 pm 4:10 pm	4:15 pm 5:00 pm	Special Session American Society of Anesthesiologists Presidential Address The ASA in 2018: At Home and Abroad PS-04b Chronic Pain Parallel Session Regenerative Medicine Symposium: Sports Medicine / Injury Regenerative Medicine: Key Concepts and Regulatory Landscape Biologics and Sports Medicine: What Works? Data on Intradiscal Biologics for Lumbar Disc Disease Regenerative Medicine for Tendon and Joint Pain Panel Discussion and Open Forum PS-04e Chronic Pain Parallel Session Ultrasonography in Pain Medicine SIG Panel: Advances in MSK Imaging and Interventions Using Ultrasound Imaging to Improve Technical Outcomes: Hip and Knee Advances in Ultrasound-Guided Musculoskeletal Procedures Ultrasound-Guided Interventional Spine Procedures: Is It a Reality?	Asokumar Buvandendran, MD James Grant, MD Moderator: Dmitri Souza, MD Aaron Calodney, MD Brian Cole, MD Gregory Lutz, MD Dmitri Souza, MD Moderator: Samer Narouze, MD, PhD Philip Peng, MD Levon Nazarian, MD Bernhard Moriggl, MD Levon Nazarian, MD	6th floor .75 credits Broadway South 6th floor 1.5 credits Reg Liberty 8th floor 1.5 credits
3:30 pm - 3:30 pm - 3:30 pm 3:45 pm 4:00 pm 4:15 pm 4:30 pm - 3:30 pm - 3:50 pm 4:10 pm 4:30 pm	4:15 pm 5:00 pm	Special Session American Society of Anesthesiologists Presidential Address The ASA in 2018: At Home and Abroad PS-04b Chronic Pain Parallel Session Regenerative Medicine Symposium: Sports Medicine / Injury Regenerative Medicine: Key Concepts and Regulatory Landscape Biologics and Sports Medicine: What Works? Data on Intradiscal Biologics for Lumbar Disc Disease Regenerative Medicine for Tendon and Joint Pain Panel Discussion and Open Forum PS-04e Chronic Pain Parallel Session Ultrasonography in Pain Medicine SIG Panel: Advances in MSK Imaging and Interventions Using Ultrasound Imaging to Improve Technical Outcomes: Hip and Knee Advances in Ultrasound-Guided Musculoskeletal Procedures Ultrasound-Guided Interventional Spine Procedures: Is It a Reality? Video Presentation Panel Discussion and Open Forum	Asokumar Buvandendran, MD James Grant, MD Moderator: Dmitri Souza, MD Aaron Calodney, MD Brian Cole, MD Gregory Lutz, MD Dmitri Souza, MD Moderator: Samer Narouze, MD, PhD Philip Peng, MD Levon Nazarian, MD Bernhard Moriggl, MD Levon Nazarian, MD Philip Peng, MD	Control of the floor state of th
3:30 pm - 3:30 pm - 3:30 pm - 3:45 pm - 4:00 pm - 4:30 pm - 3:30 pm - 3:30 pm - 3:30 pm - 4:10 pm - 4:10 pm - 4:45 pm	4:15 pm 5:00 pm	Special Session American Society of Anesthesiologists Presidential Address The ASA in 2018: At Home and Abroad PS-04b Chronic Pain Parallel Session Regenerative Medicine Symposium: Sports Medicine / Injury Regenerative Medicine: Key Concepts and Regulatory Landscape Biologics and Sports Medicine: What Works? Data on Intradiscal Biologics for Lumbar Disc Disease Regenerative Medicine for Tendon and Joint Pain Panel Discussion and Open Forum PS-04e Chronic Pain Parallel Session Ultrasonography in Pain Medicine SIG Panel: Advances in MSK Imaging and Interventions Using Ultrasound Imaging to Improve Technical Outcomes: Hip and Knee Advances in Ultrasound-Guided Musculoskeletal Procedures Ultrasound-Guided Interventional Spine Procedures: Is It a Reality? Video Presentation	Asokumar Buvandendran, MD James Grant, MD Moderator: Dmitri Souza, MD Aaron Calodney, MD Brian Cole, MD Gregory Lutz, MD Dmitri Souza, MD Moderator: Samer Narouze, MD, PhD Philip Peng, MD Levon Nazarian, MD Bernhard Moriggl, MD Levon Nazarian, MD	6th floor .75 credits Broadway South 6th floor 1.5 credits Reg Liberty 8th floor 1.5 credits



REGIONAL ANESTHESIA & PAIN MEDICINE ASRA's 43rd Annual Regional Anesthesiology & Acute Pain Medicine Meeting



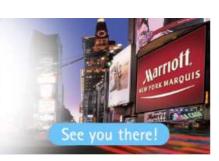


April 19-21, 2018, New York Marriott Marquis, New York City, USA

5:00 pm -	_	Special Event	Moderator:	Broadway North
	5:45 pm	Opening Ceremony	Vincent Chan, MD	6th floor
5:00 pm	***************************************	Meeting Chair Welcome	Vincent Chan, MD	non-CME
5:15 pm		Distinguished Service Award	Gregory Liguori, MD	
			Mary Hargett	
5:20 pm		ASRA Presidential Address	Asokumar Buvanendran, MD	
5:25 pm		Sister Society Presidential Addresses		
		European Society of Regional Anesthesia & Pain Therapy (ESRA)	Alain Delbos, MD	
		Latin American Society of Regional Anesthesia (LASRA)	Maria Isabel Vasquez, MD	
		African Society of Regional Anesthesia (AFSRA)	Ezzat Aziz, MD	
		Asian and Oceanic Society of Regional Anesthesia (AOSRA)	Minerva Calimag, MD	
		Special Event		
5:45 pm -	7:00 pm	Wine and Bubbly Networking Reception and Exhibit Hall Grand Opening		
		(free to all attendees, guest tickets: \$50)		
		Main Mooting		
		Main Meeting Friday, April 20, 2018		
		Non-CME Ancillary Event by Halyard Health (breakfast included)		Broadway South
7:00 am -	7:45 am	Opioid-Sparing Analgesia: Why 24 Hours of Therapy Just Isn't Enough		6th floor
7.00	10.00	Costinus Started		
7:30 am -	8:00 am	Getting Started		
		Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café		
		DS 050 DA Acute Dein Devellel Secsion		
		PS-05a RA-Acute Pain Parallel Session How I Do It: Tips for Experts by Experts for Parinbaral Narva and Intermuscular	Moderator:	Broadway North
8:00 am -	9:30 am	How I Do It: Tips for Experts by Experts for Peripheral Nerve and Intermuscular Plane Blocks	Brian Harrington, MD	6th floor
0.00 am -	9.30 am		•	
		Call for Videos: Challenges, Pearls, and Cases	Admir Hadzic, MD	1.5 credits
			Stuart Grant, MD	
			Eric Albrecht, MD	
	·		Urs Eichenberger, MD	
0.00	0.20	PS-05b Chronic Pain Parallel Session	Moderator:	Broadway South
	9:30 am	Neuromodulation SIG Panel: Making Neuromodulation Therapy Work	Marc Huntoon, MD	6th floor
8:00 am		Improving Patient Safety: Best Practices & The Neuromodulation Appropriateness Committee		1.5 credits
8:20 am		Awake vs. Asleep Placement of Spinal Cord Stimulators	Steven Falowski, MD	Neu
8:40 am		Genomics and Spinal Cord Stimulation	Ricardo Vallejo, MD	Neu
9:00 am		Panel Discussion and Open Forum		
		DO OF DA As to Belle Bosellot Ossalis	Moderators:	Maiastia Osmanla
0-00	0.20	PS-05c RA-Acute Pain Parallel Session	Terese Horlocker, MD	Majestic Comple
	9:30 am	Best Practice for Neuraxial Anesthesia and Analgesia	Masataka Yokoyama, MD	6th floor
8:00 am		Outpatient Spinal Anesthesia: Chloroprocaine, Ropivacaine, Prilocaine	Xavier Sala-Blanch, MD	1.5 credits
8:15 am		Continuous Spinal Anesthesia	Chandra Kumar, MBBS	
8:30 am		Challenging Spine: Scoliosis, Instrumentation, Spinal Stenosis	Manoj Karmakar, MD, FRCA	
8:45 am		What's New with Thoracic Epidural Analgesia	Adam Niesen, MD	
		5 15 1 10 5		
9:00 am		Panel Discussion and Open Forum		
9:00 am		·		
		PS-05d RA-Acute Pain Parallel Session	Moderator:	Manhattan
	9:30 am	PS-05d RA-Acute Pain Parallel Session Outpatient / Fast-Track Joint Replacement Surgery: Expert Panel Discussion	Sanjay Sinha, MD	Manhattan 8th floor
	9:30 am	PS-05d RA-Acute Pain Parallel Session Outpatient / Fast-Track Joint Replacement Surgery: Expert Panel Discussion Patient Selection/ Preparation, Advances in Surgical Techniques, Anesthesiologist's Role	Sanjay Sinha, MD Michael Bolognesi, MD	1
	9:30 am	PS-05d RA-Acute Pain Parallel Session Outpatient / Fast-Track Joint Replacement Surgery: Expert Panel Discussion	Sanjay Sinha, MD Michael Bolognesi, MD Andrew Rosenberg, MD	8th floor
	9:30 am	PS-05d RA-Acute Pain Parallel Session Outpatient / Fast-Track Joint Replacement Surgery: Expert Panel Discussion Patient Selection/ Preparation, Advances in Surgical Techniques, Anesthesiologist's Role	Sanjay Sinha, MD Michael Bolognesi, MD Andrew Rosenberg, MD Gregory Polkowski, MD	8th floor
	9:30 am	PS-05d RA-Acute Pain Parallel Session Outpatient / Fast-Track Joint Replacement Surgery: Expert Panel Discussion Patient Selection/ Preparation, Advances in Surgical Techniques, Anesthesiologist's Role Beyond Pain Management, Financial Considerations, Short and Long Term Outcome Goals,	Sanjay Sinha, MD Michael Bolognesi, MD Andrew Rosenberg, MD	8th floor
	9:30 am	PS-05d RA-Acute Pain Parallel Session Outpatient / Fast-Track Joint Replacement Surgery: Expert Panel Discussion Patient Selection/ Preparation, Advances in Surgical Techniques, Anesthesiologist's Role Beyond Pain Management, Financial Considerations, Short and Long Term Outcome Goals, etc.	Sanjay Sinha, MD Michael Bolognesi, MD Andrew Rosenberg, MD Gregory Polkowski, MD	8th floor
	9:30 am	PS-05d RA-Acute Pain Parallel Session Outpatient / Fast-Track Joint Replacement Surgery: Expert Panel Discussion Patient Selection/ Preparation, Advances in Surgical Techniques, Anesthesiologist's Role Beyond Pain Management, Financial Considerations, Short and Long Term Outcome Goals, etc. PS-05e Chronic Pain Parallel Session	Sanjay Sinha, MD Michael Bolognesi, MD Andrew Rosenberg, MD Gregory Polkowski, MD Alexandru Visan, MD	8th floor 1.5 credits
8:00 am -		PS-05d RA-Acute Pain Parallel Session Outpatient / Fast-Track Joint Replacement Surgery: Expert Panel Discussion Patient Selection/ Preparation, Advances in Surgical Techniques, Anesthesiologist's Role Beyond Pain Management, Financial Considerations, Short and Long Term Outcome Goals, etc. PS-05e Chronic Pain Parallel Session Member Submitted Panel: Challenging Centralized Pain Syndromes -	Sanjay Sinha, MD Michael Bolognesi, MD Andrew Rosenberg, MD Gregory Polkowski, MD Alexandru Visan, MD Moderator:	8th floor 1.5 credits Liberty
8:00 am - 8:00 am -	9:30 am 9:30 am	PS-05d RA-Acute Pain Parallel Session Outpatient / Fast-Track Joint Replacement Surgery: Expert Panel Discussion Patient Selection/ Preparation, Advances in Surgical Techniques, Anesthesiologist's Role Beyond Pain Management, Financial Considerations, Short and Long Term Outcome Goals, etc. PS-05e Chronic Pain Parallel Session Member Submitted Panel: Challenging Centralized Pain Syndromes - Where Are We in 2018?	Sanjay Sinha, MD Michael Bolognesi, MD Andrew Rosenberg, MD Gregory Polkowski, MD Alexandru Visan, MD Moderator: David Clark, MD	8th floor 1.5 credits Liberty 8th floor
8:00 am - 8:00 am -		PS-05d RA-Acute Pain Parallel Session Outpatient / Fast-Track Joint Replacement Surgery: Expert Panel Discussion Patient Selection/ Preparation, Advances in Surgical Techniques, Anesthesiologist's Role Beyond Pain Management, Financial Considerations, Short and Long Term Outcome Goals, etc. PS-05e Chronic Pain Parallel Session Member Submitted Panel: Challenging Centralized Pain Syndromes - Where Are We in 2018? Influence of History of Abuse, Trauma, and Stress on Development and Maintenance of	Sanjay Sinha, MD Michael Bolognesi, MD Andrew Rosenberg, MD Gregory Polkowski, MD Alexandru Visan, MD Moderator:	8th floor 1.5 credits Liberty
8:00 am - 8:00 am - 8:00 am		PS-05d RA-Acute Pain Parallel Session Outpatient / Fast-Track Joint Replacement Surgery: Expert Panel Discussion Patient Selection/ Preparation, Advances in Surgical Techniques, Anesthesiologist's Role Beyond Pain Management, Financial Considerations, Short and Long Term Outcome Goals, etc. PS-05e Chronic Pain Parallel Session Member Submitted Panel: Challenging Centralized Pain Syndromes - Where Are We in 2018? Influence of History of Abuse, Trauma, and Stress on Development and Maintenance of Centralized Pain	Sanjay Sinha, MD Michael Bolognesi, MD Andrew Rosenberg, MD Gregory Polkowski, MD Alexandru Visan, MD Moderator: David Clark, MD Andrea Nicol, MD	8th floor 1.5 credits Liberty 8th floor
8:00 am - 8:00 am - 8:00 am 8:20 am		PS-05d RA-Acute Pain Parallel Session Outpatient / Fast-Track Joint Replacement Surgery: Expert Panel Discussion Patient Selection/ Preparation, Advances in Surgical Techniques, Anesthesiologist's Role Beyond Pain Management, Financial Considerations, Short and Long Term Outcome Goals, etc. PS-05e Chronic Pain Parallel Session Member Submitted Panel: Challenging Centralized Pain Syndromes - Where Are We in 2018? Influence of History of Abuse, Trauma, and Stress on Development and Maintenance of Centralized Pain Overview of Centralized Pain: Phenotypic and Physiologic Characteristics	Sanjay Sinha, MD Michael Bolognesi, MD Andrew Rosenberg, MD Gregory Polkowski, MD Alexandru Visan, MD Moderator: David Clark, MD Andrea Nicol, MD Daniel Clauw, MD	8th floor 1.5 credits Liberty 8th floor
8:00 am - 8:00 am - 8:00 am 8:20 am 8:40 am		PS-05d RA-Acute Pain Parallel Session Outpatient / Fast-Track Joint Replacement Surgery: Expert Panel Discussion Patient Selection/ Preparation, Advances in Surgical Techniques, Anesthesiologist's Role Beyond Pain Management, Financial Considerations, Short and Long Term Outcome Goals, etc. PS-05e Chronic Pain Parallel Session Member Submitted Panel: Challenging Centralized Pain Syndromes - Where Are We in 2018? Influence of History of Abuse, Trauma, and Stress on Development and Maintenance of Centralized Pain Overview of Centralized Pain: Phenotypic and Physiologic Characteristics Centralized Pain Syndrome and Interventional Outcomes	Sanjay Sinha, MD Michael Bolognesi, MD Andrew Rosenberg, MD Gregory Polkowski, MD Alexandru Visan, MD Moderator: David Clark, MD Andrea Nicol, MD	8th floor 1.5 credits Liberty 8th floor
8:00 am - 8:00 am - 8:00 am 8:20 am 8:40 am		PS-05d RA-Acute Pain Parallel Session Outpatient / Fast-Track Joint Replacement Surgery: Expert Panel Discussion Patient Selection/ Preparation, Advances in Surgical Techniques, Anesthesiologist's Role Beyond Pain Management, Financial Considerations, Short and Long Term Outcome Goals, etc. PS-05e Chronic Pain Parallel Session Member Submitted Panel: Challenging Centralized Pain Syndromes - Where Are We in 2018? Influence of History of Abuse, Trauma, and Stress on Development and Maintenance of Centralized Pain Overview of Centralized Pain: Phenotypic and Physiologic Characteristics	Sanjay Sinha, MD Michael Bolognesi, MD Andrew Rosenberg, MD Gregory Polkowski, MD Alexandru Visan, MD Moderator: David Clark, MD Andrea Nicol, MD Daniel Clauw, MD	8th floor 1.5 credits Liberty 8th floor
8:00 am - 8:00 am 8:20 am 8:40 am 9:00 am	9:30 am	PS-05d RA-Acute Pain Parallel Session Outpatient / Fast-Track Joint Replacement Surgery: Expert Panel Discussion Patient Selection/ Preparation, Advances in Surgical Techniques, Anesthesiologist's Role Beyond Pain Management, Financial Considerations, Short and Long Term Outcome Goals, etc. PS-05e Chronic Pain Parallel Session Member Submitted Panel: Challenging Centralized Pain Syndromes - Where Are We in 2018? Influence of History of Abuse, Trauma, and Stress on Development and Maintenance of Centralized Pain Overview of Centralized Pain: Phenotypic and Physiologic Characteristics Centralized Pain Syndrome and Interventional Outcomes Panel Discussion and Open Forum	Sanjay Sinha, MD Michael Bolognesi, MD Andrew Rosenberg, MD Gregory Polkowski, MD Alexandru Visan, MD Moderator: David Clark, MD Andrea Nicol, MD Daniel Clauw, MD	8th floor 1.5 credits Liberty 8th floor
8:00 am - 8:00 am - 8:00 am 8:20 am 8:40 am 9:00 am		PS-05d RA-Acute Pain Parallel Session Outpatient / Fast-Track Joint Replacement Surgery: Expert Panel Discussion Patient Selection/ Preparation, Advances in Surgical Techniques, Anesthesiologist's Role Beyond Pain Management, Financial Considerations, Short and Long Term Outcome Goals, etc. PS-05e Chronic Pain Parallel Session Member Submitted Panel: Challenging Centralized Pain Syndromes - Where Are We in 2018? Influence of History of Abuse, Trauma, and Stress on Development and Maintenance of Centralized Pain Overview of Centralized Pain: Phenotypic and Physiologic Characteristics Centralized Pain Syndrome and Interventional Outcomes Panel Discussion and Open Forum Break in Exhibit Hall and New Member Meet and Greet in Chat Room	Sanjay Sinha, MD Michael Bolognesi, MD Andrew Rosenberg, MD Gregory Polkowski, MD Alexandru Visan, MD Moderator: David Clark, MD Andrea Nicol, MD Daniel Clauw, MD	8th floor 1.5 credits Liberty 8th floor
8:00 am - 8:00 am - 8:00 am 8:20 am 8:40 am 9:00 am	9:30 am	PS-05d RA-Acute Pain Parallel Session Outpatient / Fast-Track Joint Replacement Surgery: Expert Panel Discussion Patient Selection/ Preparation, Advances in Surgical Techniques, Anesthesiologist's Role Beyond Pain Management, Financial Considerations, Short and Long Term Outcome Goals, etc. PS-05e Chronic Pain Parallel Session Member Submitted Panel: Challenging Centralized Pain Syndromes - Where Are We in 2018? Influence of History of Abuse, Trauma, and Stress on Development and Maintenance of Centralized Pain Overview of Centralized Pain: Phenotypic and Physiologic Characteristics Centralized Pain Syndrome and Interventional Outcomes Panel Discussion and Open Forum	Sanjay Sinha, MD Michael Bolognesi, MD Andrew Rosenberg, MD Gregory Polkowski, MD Alexandru Visan, MD Moderator: David Clark, MD Andrea Nicol, MD Daniel Clauw, MD	8th floor 1.5 credits Liberty 8th floor
8:00 am - 8:00 am - 8:00 am 8:20 am 8:40 am 9:00 am	9:30 am	PS-05d RA-Acute Pain Parallel Session Outpatient / Fast-Track Joint Replacement Surgery: Expert Panel Discussion Patient Selection/ Preparation, Advances in Surgical Techniques, Anesthesiologist's Role Beyond Pain Management, Financial Considerations, Short and Long Term Outcome Goals, etc. PS-05e Chronic Pain Parallel Session Member Submitted Panel: Challenging Centralized Pain Syndromes - Where Are We in 2018? Influence of History of Abuse, Trauma, and Stress on Development and Maintenance of Centralized Pain Overview of Centralized Pain: Phenotypic and Physiologic Characteristics Centralized Pain Syndrome and Interventional Outcomes Panel Discussion and Open Forum Break in Exhibit Hall and New Member Meet and Greet in Chat Room Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café	Sanjay Sinha, MD Michael Bolognesi, MD Andrew Rosenberg, MD Gregory Polkowski, MD Alexandru Visan, MD Moderator: David Clark, MD Andrea Nicol, MD Daniel Clauw, MD Chad Brummett, MD	2.5 credits Liberty 8th floor 1.5 credits
8:00 am - 8:00 am - 8:00 am 8:20 am 8:40 am 9:00 am	9:30 am 10:15 am	PS-05d RA-Acute Pain Parallel Session Outpatient / Fast-Track Joint Replacement Surgery: Expert Panel Discussion Patient Selection/ Preparation, Advances in Surgical Techniques, Anesthesiologist's Role Beyond Pain Management, Financial Considerations, Short and Long Term Outcome Goals, etc. PS-05e Chronic Pain Parallel Session Member Submitted Panel: Challenging Centralized Pain Syndromes - Where Are We in 2018? Influence of History of Abuse, Trauma, and Stress on Development and Maintenance of Centralized Pain Overview of Centralized Pain: Phenotypic and Physiologic Characteristics Centralized Pain Syndrome and Interventional Outcomes Panel Discussion and Open Forum Break in Exhibit Hall and New Member Meet and Greet in Chat Room Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-06a RA-Acute Pain Parallel Session	Sanjay Sinha, MD Michael Bolognesi, MD Andrew Rosenberg, MD Gregory Polkowski, MD Alexandru Visan, MD Moderator: David Clark, MD Andrea Nicol, MD Daniel Clauw, MD Chad Brummett, MD	Liberty 8th floor 1.5 credits Liberty 8th floor 1.5 credits
8:00 am - 8:00 am - 8:00 am 8:20 am 8:40 am 9:00 am	9:30 am 10:15 am	PS-05d RA-Acute Pain Parallel Session Outpatient / Fast-Track Joint Replacement Surgery: Expert Panel Discussion Patient Selection/ Preparation, Advances in Surgical Techniques, Anesthesiologist's Role Beyond Pain Management, Financial Considerations, Short and Long Term Outcome Goals, etc. PS-05e Chronic Pain Parallel Session Member Submitted Panel: Challenging Centralized Pain Syndromes - Where Are We in 2018? Influence of History of Abuse, Trauma, and Stress on Development and Maintenance of Centralized Pain Overview of Centralized Pain: Phenotypic and Physiologic Characteristics Centralized Pain Syndrome and Interventional Outcomes Panel Discussion and Open Forum Break in Exhibit Hall and New Member Meet and Greet in Chat Room Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-06a RA-Acute Pain Parallel Session How I Do It: Tips for Experts by Experts for Paravertebral and Neuraxial Blocks	Sanjay Sinha, MD Michael Bolognesi, MD Andrew Rosenberg, MD Gregory Polkowski, MD Alexandru Visan, MD Moderator: David Clark, MD Andrea Nicol, MD Daniel Clauw, MD Chad Brummett, MD Moderator: Brian Harrington, MD	Liberty 8th floor 1.5 credits Liberty 8th floor 1.5 credits
8:00 am - 8:00 am - 8:00 am 8:20 am 8:40 am 9:00 am	9:30 am 10:15 am	PS-05d RA-Acute Pain Parallel Session Outpatient / Fast-Track Joint Replacement Surgery: Expert Panel Discussion Patient Selection/ Preparation, Advances in Surgical Techniques, Anesthesiologist's Role Beyond Pain Management, Financial Considerations, Short and Long Term Outcome Goals, etc. PS-05e Chronic Pain Parallel Session Member Submitted Panel: Challenging Centralized Pain Syndromes - Where Are We in 2018? Influence of History of Abuse, Trauma, and Stress on Development and Maintenance of Centralized Pain Overview of Centralized Pain: Phenotypic and Physiologic Characteristics Centralized Pain Syndrome and Interventional Outcomes Panel Discussion and Open Forum Break in Exhibit Hall and New Member Meet and Greet in Chat Room Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-06a RA-Acute Pain Parallel Session	Sanjay Sinha, MD Michael Bolognesi, MD Andrew Rosenberg, MD Gregory Polkowski, MD Alexandru Visan, MD Moderator: David Clark, MD Andrea Nicol, MD Daniel Clauw, MD Chad Brummett, MD Moderator: Brian Harrington, MD Jens Borglum, MD	Liberty 8th floor 1.5 credits Liberty 8th floor 1.5 credits Broadway North 6th floor 1.5 credits
8:00 am - 8:00 am - 8:00 am 8:20 am 8:40 am 9:00 am	9:30 am 10:15 am	PS-05d RA-Acute Pain Parallel Session Outpatient / Fast-Track Joint Replacement Surgery: Expert Panel Discussion Patient Selection/ Preparation, Advances in Surgical Techniques, Anesthesiologist's Role Beyond Pain Management, Financial Considerations, Short and Long Term Outcome Goals, etc. PS-05e Chronic Pain Parallel Session Member Submitted Panel: Challenging Centralized Pain Syndromes - Where Are We in 2018? Influence of History of Abuse, Trauma, and Stress on Development and Maintenance of Centralized Pain Overview of Centralized Pain: Phenotypic and Physiologic Characteristics Centralized Pain Syndrome and Interventional Outcomes Panel Discussion and Open Forum Break in Exhibit Hall and New Member Meet and Greet in Chat Room Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-06a RA-Acute Pain Parallel Session How I Do It: Tips for Experts by Experts for Paravertebral and Neuraxial Blocks	Sanjay Sinha, MD Michael Bolognesi, MD Andrew Rosenberg, MD Gregory Polkowski, MD Alexandru Visan, MD Moderator: David Clark, MD Andrea Nicol, MD Daniel Clauw, MD Chad Brummett, MD Moderator: Brian Harrington, MD Jens Borglum, MD Admir Hadzic, MD	Liberty 8th floor 1.5 credits Liberty 8th floor 1.5 credits Broadway North 6th floor 1.5 credits
8:00 am - 8:00 am - 8:00 am 8:20 am 8:40 am 9:00 am	9:30 am 10:15 am	PS-05d RA-Acute Pain Parallel Session Outpatient / Fast-Track Joint Replacement Surgery: Expert Panel Discussion Patient Selection/ Preparation, Advances in Surgical Techniques, Anesthesiologist's Role Beyond Pain Management, Financial Considerations, Short and Long Term Outcome Goals, etc. PS-05e Chronic Pain Parallel Session Member Submitted Panel: Challenging Centralized Pain Syndromes - Where Are We in 2018? Influence of History of Abuse, Trauma, and Stress on Development and Maintenance of Centralized Pain Overview of Centralized Pain: Phenotypic and Physiologic Characteristics Centralized Pain Syndrome and Interventional Outcomes Panel Discussion and Open Forum Break in Exhibit Hall and New Member Meet and Greet in Chat Room Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-06a RA-Acute Pain Parallel Session How I Do It: Tips for Experts by Experts for Paravertebral and Neuraxial Blocks	Sanjay Sinha, MD Michael Bolognesi, MD Andrew Rosenberg, MD Gregory Polkowski, MD Alexandru Visan, MD Moderator: David Clark, MD Andrea Nicol, MD Daniel Clauw, MD Chad Brummett, MD Moderator: Brian Harrington, MD Jens Borglum, MD	Liberty 8th floor 1.5 credits Liberty 8th floor 1.5 credits





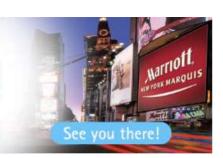


10:15 am -	_	PS-06b Chronic Pain Parallel Session	Moderator:	Broadway South
	11:45 am	Neuropathic Pain	Honorio Benzon, MD	6th floor
10:15 am		Basic Science, Neuronal and Immunological Mechanisms	Tony Yaksh, PhD	1.5 credits
10:45 am		Clinical Treatment Updates	James Rathmell, MD	
1:15 am		Panel Discussion and Open Forum		
		PS-06c RA-Acute Pain Parallel Session		Majestic
		Perioperative Surgical Home (PSH) and the Evolution of Perioperative Medicine	Moderator:	Complex
10:15 am -	11:45 am	Worldwide	Gregory Liguori, MD	6th floor
10:15 am		Current State of PSH: the U.S. Perspective	Edward Mariano, MD	1.5 credits
10:30 am	***************************************	The Value of Pain Medicine for PSH	Alexandru Visan, MD	
10:45 am	***************************************	Training Anesthesiologists to be Perioperative Physicians	Colin McCartney, MBBS, PhD	
11:00 am		Perioperative Medicine & Surgical Outcome: The UK Experience	Monty Mythen, MD	
11:15 am		Panel Discussion and Open Forum		
***************************************		·		
		PS-06e Chronic Pain Parallel Session	Moderator:	Liberty
10:15 am -	11:45 am	Intrathecal Therapy Panel	Marc Huntoon, MD	8th floor
10:15 am		New Strategies for Improvement in Outcomes and Sustainability: PACC 2017	Jason Pope, MD	1.5 credits
10:30 am	***************************************	Outcomes In Intrathecal Treatment for Chronic Noncancer Pain	Sam Eldabe, MD	<u>M®CA`</u>
10:45 am	***************************************	Management and Mechanism of Pump Failures	Salim Hayek, MD	Neu
11:00 am	***************************************	CSF Dynamics and Clinical Implications for Intrathecal Drug Delivery	Christophe Perruchoud, MD	Nou
11:15 am	***************************************	Panel Discussion and Open Forum		
		New CME Assillant Front I. Describe		
		Non-CME Ancillary Event by Recro Pharma (lunch included) Challenges in Acute Pain Management and Undates in Evidence-Based Management		Broadway North
12:00 pm -	1.00 pm	Challenges in Acute Pain Management and Updates in Evidence-Based Management Approaches		Broadway North 6th floor
12.00 piii -	1.00 piii	Approacties		OUT HOOF
		Non-CME Ancillary Event by Nevro (lunch included)		Broadway South
12:00 pm -	1:00 pm	Outcomes, Advanced: Breakthroughs in New Pain Areas		6th floor

l1:45 am -	1:15 pm	Lunch On Own		
		PS-07a RA-Acute Pain Parallel Session	Moderator:	Broadway North
l:15 pm -	2:45 pm	Pharmacology Update: Local Anesthetic and Adjuncts	Brian Sites, MD	6th floor
1:15 pm	2.40 pm	Liposomal Bupivacaine	Brian Ilfeld, MD	1.5 credits
1:25 pm	***************************************	Neosaxitoxin	Charles Berde, MD	1.5 credits
······································	***************************************	Steroid for Peripheral Nerve Block	Richard Brull, MD	
1:35 pm			·	
1:45 pm		Alpha 2 Agonists for Peripheral Nerve Block	Chad Brummett, MD	
1:55 pm		Adjuncts for Neuraxial Blocks Beyond Opioids	Ban Tsui, MD	
2:05 pm		Panel Discussion and Open Forum		
	***************************************	PS-07b Chronic Pain Parallel Session	Moderator:	Broadway South
1:15 pm -	2:45 pm	The Opioid Epidemic: Global Perspective on the Appropriate Use of Chronic Opioids	Todd Sitzman, MD	6th floor
			,	
1:15 pm	-	Paradigm Shift: Chronic Opioid Management in the USA	Richard Rosenquist, MD	1.5 credits
1:15 pm 1:30 pm	-	Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved	Richard Rosenquist, MD James Rathmell, MD	
1:30 pm 1:45 pm	_	Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD	1.5 credits
1:30 pm 1:45 pm 2:00 pm		Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach	Richard Rosenquist, MD James Rathmell, MD	1.5 credits
1:30 pm 1:45 pm 2:00 pm		Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD	1.5 credits
1:30 pm 1:45 pm 2:00 pm		Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD	1.5 credits M ② CA
1:30 pm 1:45 pm 2:00 pm 2:15 pm		Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator:	1.5 credits M@CA Complex
1:30 pm 1:45 pm 2:00 pm 2:15 pm	2:45 pm	Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD	1.5 credits M型CA Complex 6th floor
1:30 pm 1:45 pm 2:00 pm 2:15 pm	2:45 pm	Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhD	1.5 credits M型CA Complex 6th floor
1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm -	2:45 pm	Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies Cancer Recurrence	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhD (GA) Alain Borgeat, MD	1.5 credits MᢀCA Complex 6th floor
1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm -	2:45 pm	Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhD (GA) Alain Borgeat, MD (PNB) Rebecca Johnson, MD	1.5 credits MᢀCA Complex 6th floor
1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm - 1:15 pm	2:45 pm	Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies Cancer Recurrence Postoperative Analgesia for Total Hip Arthroplasty	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhD (GA) Alain Borgeat, MD (PNB) Rebecca Johnson, MD (GA/LIA) Narinder Rawal, MD	1.5 credits M型CA Complex 6th floor
1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm -	2:45 pm	Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies Cancer Recurrence	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhD (GA) Alain Borgeat, MD (PNB) Rebecca Johnson, MD (GA/LIA) Narinder Rawal, MD (RA) Michael Andreae MD	1.5 credits M型CA Complex 6th floor
1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm -	2:45 pm	Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies Cancer Recurrence Postoperative Analgesia for Total Hip Arthroplasty	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhD (GA) Alain Borgeat, MD (PNB) Rebecca Johnson, MD (GA/LIA) Narinder Rawal, MD	1.5 credits M型CA Complex 6th floor
1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm - 1:15 pm	2:45 pm	Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies Cancer Recurrence Postoperative Analgesia for Total Hip Arthroplasty Transition from Acute to Chronic Pain	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhD (GA) Alain Borgeat, MD (PNB) Rebecca Johnson, MD (GA/LIA) Narinder Rawal, MD (RA) Michael Andreae MD (GA) Patricia Lavand'homme, MD	1.5 credits MacA Complex 6th floor 1.5 credits
1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm - 1:15 pm 1:45 pm		Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies Cancer Recurrence Postoperative Analgesia for Total Hip Arthroplasty Transition from Acute to Chronic Pain PS-07d RA-Acute Pain Parallel Session	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhD (GA) Alain Borgeat, MD (PNB) Rebecca Johnson, MD (GA/LIA) Narinder Rawal, MD (RA) Michael Andreae MD (GA) Patricia Lavand'homme, MD Moderators:	1.5 credits M@CA* Complex 6th floor 1.5 credits
1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm - 1:45 pm 2:15 pm	2:45 pm 2:45 pm	Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies Cancer Recurrence Postoperative Analgesia for Total Hip Arthroplasty Transition from Acute to Chronic Pain PS-07d RA-Acute Pain Parallel Session Education in Regional Anesthesia and Acute Pain: International Perspectives	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhD (GA) Alain Borgeat, MD (PNB) Rebecca Johnson, MD (GA/LIA) Narinder Rawal, MD (RA) Michael Andreae MD (GA) Patricia Lavand'homme, MD Moderators: Nabil Elkassabany, MD	1.5 credits M@CA Complex 6th floor 1.5 credits Manhattan 8th floor
1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm - 1:45 pm 2:15 pm		Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies Cancer Recurrence Postoperative Analgesia for Total Hip Arthroplasty Transition from Acute to Chronic Pain PS-07d RA-Acute Pain Parallel Session	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhD (GA) Alain Borgeat, MD (PNB) Rebecca Johnson, MD (GA/LIA) Narinder Rawal, MD (RA) Michael Andreae MD (GA) Patricia Lavand'homme, MD Moderators: Nabil Elkassabany, MD Michael Barrington, MD	1.5 credits M@CA Complex 6th floor 1.5 credits
1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm - 1:15 pm 2:15 pm 1:45 pm 1:15 pm - 1:15 pm		Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies Cancer Recurrence Postoperative Analgesia for Total Hip Arthroplasty Transition from Acute to Chronic Pain PS-07d RA-Acute Pain Parallel Session Education in Regional Anesthesia and Acute Pain: International Perspectives	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhD (GA) Alain Borgeat, MD (PNB) Rebecca Johnson, MD (GA/LIA) Narinder Rawal, MD (RA) Michael Andreae MD (GA) Patricia Lavand'homme, MD Moderators: Nabil Elkassabany, MD	1.5 credits M@CA Complex 6th floor 1.5 credits Manhattan 8th floor 1.5 credits
1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm 1:45 pm 2:15 pm 1:45 pm 1:45 pm 1:15 pm		Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies Cancer Recurrence Postoperative Analgesia for Total Hip Arthroplasty Transition from Acute to Chronic Pain PS-07d RA-Acute Pain Parallel Session Education in Regional Anesthesia and Acute Pain: International Perspectives Competency Based Curriculum and Assessment	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhD (GA) Alain Borgeat, MD (PNB) Rebecca Johnson, MD (GA/LIA) Narinder Rawal, MD (RA) Michael Andreae MD (GA) Patricia Lavand'homme, MD Moderators: Nabil Elkassabany, MD Michael Barrington, MD	1.5 credits M@CA Complex 6th floor 1.5 credits Manhattan 8th floor
1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm 1:45 pm 2:15 pm 1:45 pm 1:15 pm 1:15 pm 1:15 pm		Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies Cancer Recurrence Postoperative Analgesia for Total Hip Arthroplasty Transition from Acute to Chronic Pain PS-07d RA-Acute Pain Parallel Session Education in Regional Anesthesia and Acute Pain: International Perspectives Competency Based Curriculum and Assessment EDRA Diploma Experience	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhI (GA) Alain Borgeat, MD (PNB) Rebecca Johnson, MD (GA/LIA) Narinder Rawal, MD (RA) Michael Andreae MD (GA) Patricia Lavand'homme, MD Moderators: Nabil Elkassabany, MD Michael Barrington, MD Morné Wolmarans, MD	1.5 credits M@CA Complex 6th floor 1.5 credits Manhattan 8th floor 1.5 credits
1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm - 1:15 pm 1:45 pm 2:15 pm 1:45 pm 1:30 pm 1:45 pm 1:45 pm		Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies Cancer Recurrence Postoperative Analgesia for Total Hip Arthroplasty Transition from Acute to Chronic Pain PS-07d RA-Acute Pain Parallel Session Education in Regional Anesthesia and Acute Pain: International Perspectives Competency Based Curriculum and Assessment EDRA Diploma Experience Global Perspective Authentic Assessment of Procedural Skills for PNBs	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhD (GA) Alain Borgeat, MD (PNB) Rebecca Johnson, MD (GA/LIA) Narinder Rawal, MD (RA) Michael Andreae MD (GA) Patricia Lavand'homme, MD Moderators: Nabil Elkassabany, MD Michael Barrington, MD Morné Wolmarans, MD Minerva Calimag, MD	1.5 credits M@CA Complex 6th floor 1.5 credits Manhattan 8th floor 1.5 credits
1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm 1:45 pm 2:15 pm 1:45 pm 1:15 pm 1:30 pm 1:45 pm 2:00 pm 2:15 pm	2:45 pm	Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies Cancer Recurrence Postoperative Analgesia for Total Hip Arthroplasty Transition from Acute to Chronic Pain PS-07d RA-Acute Pain Parallel Session Education in Regional Anesthesia and Acute Pain: International Perspectives Competency Based Curriculum and Assessment EDRA Diploma Experience Global Perspective Authentic Assessment of Procedural Skills for PNBs Social Media in Education Panel Discussion and Open Forum	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhD (GA) Alain Borgeat, MD (PNB) Rebecca Johnson, MD (GA/LIA) Narinder Rawal, MD (RA) Michael Andreae MD (GA) Patricia Lavand'homme, MD Moderators: Nabil Elkassabany, MD Michael Barrington, MD Morné Wolmarans, MD Minerva Calimag, MD	1.5 credits M@CA Complex 6th floor 1.5 credits Manhattan 8th floor 1.5 credits
1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm 1:45 pm 2:15 pm 1:45 pm 1:15 pm 1:30 pm 1:45 pm 2:00 pm 2:15 pm		Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies Cancer Recurrence Postoperative Analgesia for Total Hip Arthroplasty Transition from Acute to Chronic Pain PS-07d RA-Acute Pain Parallel Session Education in Regional Anesthesia and Acute Pain: International Perspectives Competency Based Curriculum and Assessment EDRA Diploma Experience Global Perspective Authentic Assessment of Procedural Skills for PNBs Social Media in Education Panel Discussion and Open Forum Break in Exhibit Hall	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhD (GA) Alain Borgeat, MD (PNB) Rebecca Johnson, MD (GA/LIA) Narinder Rawal, MD (RA) Michael Andreae MD (GA) Patricia Lavand'homme, MD Moderators: Nabil Elkassabany, MD Michael Barrington, MD Morné Wolmarans, MD Minerva Calimag, MD	1.5 credits M@CA Complex 6th floor 1.5 credits Manhattan 8th floor 1.5 credits
1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm 1:45 pm 2:15 pm 1:45 pm 1:15 pm 1:30 pm 1:45 pm 2:00 pm 2:15 pm	2:45 pm	Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies Cancer Recurrence Postoperative Analgesia for Total Hip Arthroplasty Transition from Acute to Chronic Pain PS-07d RA-Acute Pain Parallel Session Education in Regional Anesthesia and Acute Pain: International Perspectives Competency Based Curriculum and Assessment EDRA Diploma Experience Global Perspective Authentic Assessment of Procedural Skills for PNBs Social Media in Education Panel Discussion and Open Forum	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhD (GA) Alain Borgeat, MD (PNB) Rebecca Johnson, MD (GA/LIA) Narinder Rawal, MD (RA) Michael Andreae MD (GA) Patricia Lavand'homme, MD Moderators: Nabil Elkassabany, MD Michael Barrington, MD Morné Wolmarans, MD Minerva Calimag, MD	1.5 credits M@CA Complex 6th floor 1.5 credits Manhattan 8th floor 1.5 credits
1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm 1:45 pm 2:15 pm 1:45 pm 1:15 pm 1:30 pm 1:45 pm 2:00 pm 2:15 pm	2:45 pm	Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies Cancer Recurrence Postoperative Analgesia for Total Hip Arthroplasty Transition from Acute to Chronic Pain PS-07d RA-Acute Pain Parallel Session Education in Regional Anesthesia and Acute Pain: International Perspectives Competency Based Curriculum and Assessment EDRA Diploma Experience Global Perspective Authentic Assessment of Procedural Skills for PNBs Social Media in Education Panel Discussion and Open Forum Break in Exhibit Hall Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhI (GA) Alain Borgeat, MD (PNB) Rebecca Johnson, MD (GA/LIA) Narinder Rawal, MD (RA) Michael Andreae MD (GA) Patricia Lavand'homme, MD Moderators: Nabil Elkassabany, MD Michael Barrington, MD Morné Wolmarans, MD Minerva Calimag, MD Edward Mariano, MD	1.5 credits M@CA Complex 6th floor 1.5 credits Manhattan 8th floor 1.5 credits
1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm 1:45 pm 1:45 pm 2:15 pm 1:30 pm 1:30 pm 1:45 pm 2:00 pm 2:15 pm	2:45 pm 3:30 pm	Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies Cancer Recurrence Postoperative Analgesia for Total Hip Arthroplasty Transition from Acute to Chronic Pain PS-07d RA-Acute Pain Parallel Session Education in Regional Anesthesia and Acute Pain: International Perspectives Competency Based Curriculum and Assessment EDRA Diploma Experience Global Perspective Authentic Assessment of Procedural Skills for PNBs Social Media in Education Panel Discussion and Open Forum Break in Exhibit Hall Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhI (GA) Alain Borgeat, MD (PNB) Rebecca Johnson, MD (GA/LIA) Narinder Rawal, MD (RA) Michael Andreae MD (GA) Patricia Lavand'homme, MD Moderators: Nabil Elkassabany, MD Michael Barrington, MD Morné Wolmarans, MD Minerva Calimag, MD Edward Mariano, MD Moderator: Moderator:	Complex 6th floor 1.5 credits Manhattan 8th floor 1.5 credits RAEC
1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm 1:45 pm 1:45 pm 1:45 pm 1:30 pm 1:45 pm 1:45 pm 2:00 pm 2:15 pm 2:15 pm	2:45 pm	Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies Cancer Recurrence Postoperative Analgesia for Total Hip Arthroplasty Transition from Acute to Chronic Pain PS-07d RA-Acute Pain Parallel Session Education in Regional Anesthesia and Acute Pain: International Perspectives Competency Based Curriculum and Assessment EDRA Diploma Experience Global Perspective Authentic Assessment of Procedural Skills for PNBs Social Media in Education Panel Discussion and Open Forum Break in Exhibit Hall Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-08a RA-Acute Pain Parallel Session Pharmacology Update: Hemostasis Altering Drugs and Regional Anesthesia Safety	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhD (GA) Alain Borgeat, MD (PNB) Rebecca Johnson, MD (GA/LIA) Narinder Rawal, MD (RA) Michael Andreae MD (GA) Patricia Lavand'homme, MD Moderators: Nabil Elkassabany, MD Michael Barrington, MD Morné Wolmarans, MD Minerva Calimag, MD Edward Mariano, MD Moderator: Gregory Liguori, MD	Complex 6th floor 1.5 credits Manhattan 8th floor 1.5 credits Broadway North 6th floor
1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm 1:15 pm 1:45 pm 2:15 pm 1:45 pm 1:30 pm 1:45 pm 1:30 pm 1:45 pm 2:00 pm 2:15 pm 2:45 pm	2:45 pm 3:30 pm	Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies Cancer Recurrence Postoperative Analgesia for Total Hip Arthroplasty Transition from Acute to Chronic Pain PS-07d RA-Acute Pain Parallel Session Education in Regional Anesthesia and Acute Pain: International Perspectives Competency Based Curriculum and Assessment EDRA Diploma Experience Global Perspective Authentic Assessment of Procedural Skills for PNBs Social Media in Education Panel Discussion and Open Forum Break in Exhibit Hall Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-08a RA-Acute Pain Parallel Session Pharmacology Update: Hemostasis Altering Drugs and Regional Anesthesia Safety New Anticoagulants	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhI (GA) Alain Borgeat, MD (PNB) Rebecca Johnson, MD (GA/LIA) Narinder Rawal, MD (RA) Michael Andreae MD (GA) Patricia Lavand'homme, MD Moderators: Nabil Elkassabany, MD Michael Barrington, MD Morné Wolmarans, MD Minerva Calimag, MD Edward Mariano, MD Moderator: Gregory Liguori, MD Sandra Kopp, MD	Complex 6th floor 1.5 credits Manhattan 8th floor 1.5 credits Broadway North 6th floor 1.5 credits
1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm 1:45 pm 1:45 pm 2:15 pm 1:45 pm 1:30 pm 1:45 pm 2:15 pm 1:30 pm 2:15 pm 2:15 pm 2:15 pm	2:45 pm 3:30 pm	Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies Cancer Recurrence Postoperative Analgesia for Total Hip Arthroplasty Transition from Acute to Chronic Pain PS-07d RA-Acute Pain Parallel Session Education in Regional Anesthesia and Acute Pain: International Perspectives Competency Based Curriculum and Assessment EDRA Diploma Experience Global Perspective Authentic Assessment of Procedural Skills for PNBs Social Media in Education Panel Discussion and Open Forum Break in Exhibit Hall Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-08a RA-Acute Pain Parallel Session Pharmacology Update: Hemostasis Altering Drugs and Regional Anesthesia Safety New Antiplatelet Drugs	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhD (GA) Alain Borgeat, MD (PNB) Rebecca Johnson, MD (GA/LIA) Narinder Rawal, MD (RA) Michael Andreae MD (GA) Patricia Lavand'homme, MD Moderators: Nabil Elkassabany, MD Michael Barrington, MD Morné Wolmarans, MD Minerva Calimag, MD Edward Mariano, MD Moderator: Gregory Liguori, MD Sandra Kopp, MD Honorio Benzon, MD	Complex 6th floor 1.5 credits Manhattan 8th floor 1.5 credits RAEC Broadway North 6th floor
1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm 1:45 pm 1:45 pm 2:15 pm 1:45 pm 1:30 pm 1:45 pm 2:00 pm 2:15 pm 2:45 pm 2:30 pm 3:30 pm 3:30 pm 3:45 pm 4:00 pm	2:45 pm 3:30 pm	Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies Cancer Recurrence Postoperative Analgesia for Total Hip Arthroplasty Transition from Acute to Chronic Pain PS-07d RA-Acute Pain Parallel Session Education in Regional Anesthesia and Acute Pain: International Perspectives Competency Based Curriculum and Assessment EDRA Diploma Experience Global Perspective Authentic Assessment of Procedural Skills for PNBs Social Media in Education Panel Discussion and Open Forum Break in Exhibit Hall Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-08a RA-Acute Pain Parallel Session Pharmacology Update: Hemostasis Altering Drugs and Regional Anesthesia Safety New Anticoagulants New Anticoagulation Guidelines in the Parturients	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhD (GA) Alain Borgeat, MD (PNB) Rebecca Johnson, MD (GA/LIA) Narinder Rawal, MD (RA) Michael Andreae MD (GA) Patricia Lavand'homme, MD Moderators: Nabil Elkassabany, MD Michael Barrington, MD Morné Wolmarans, MD Minerva Calimag, MD Edward Mariano, MD Moderator: Gregory Liguori, MD Sandra Kopp, MD Honorio Benzon, MD Marc Van de Velde, MD	Complex 6th floor 1.5 credits Manhattan 8th floor 1.5 credits Broadway North 6th floor 1.5 credits
1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm 1:15 pm 1:45 pm 2:15 pm 1:45 pm 1:30 pm 1:45 pm 2:00 pm 2:15 pm 2:45 pm 2:30 pm	2:45 pm 3:30 pm	Have Published Guidelines Influenced Opioid Prescribing Patterns and Improved Past, Present, and Future State of Opioids in Europe Opioid Utilization in Developing Countries: Working Towards a Balanced Approach Panel Discussion and Open Forum Pro/Con Debate: Regional Anesthesia vs. General Anesthesia Outcome Controversies Cancer Recurrence Postoperative Analgesia for Total Hip Arthroplasty Transition from Acute to Chronic Pain PS-07d RA-Acute Pain Parallel Session Education in Regional Anesthesia and Acute Pain: International Perspectives Competency Based Curriculum and Assessment EDRA Diploma Experience Global Perspective Authentic Assessment of Procedural Skills for PNBs Social Media in Education Panel Discussion and Open Forum Break in Exhibit Hall Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-08a RA-Acute Pain Parallel Session Pharmacology Update: Hemostasis Altering Drugs and Regional Anesthesia Safety New Antiplatelet Drugs	Richard Rosenquist, MD James Rathmell, MD Jose De Andrés, MD Amany E. Ayad, MD Moderator: Rajnish Gupta, MD (RA) Colin McCartney, MBBS, PhD (GA) Alain Borgeat, MD (PNB) Rebecca Johnson, MD (GA/LIA) Narinder Rawal, MD (RA) Michael Andreae MD (GA) Patricia Lavand'homme, MD Moderators: Nabil Elkassabany, MD Michael Barrington, MD Morné Wolmarans, MD Minerva Calimag, MD Edward Mariano, MD Moderator: Gregory Liguori, MD Sandra Kopp, MD Honorio Benzon, MD	Complex 6th floor 1.5 credits Manhattan 8th floor 1.5 credits Broadway North 6th floor 1.5 credits



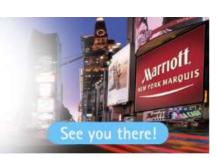




3:30 pm -	5:00 pm	PS-08b Chronic Pain Parallel Session Pro/Con Debate: Chronic Pain Management Controversies	Moderator: Richard Rosenquist, MD	Broadway South 6th floor
3:30 pm	3.00 pm	Have the Recent Opioid Pain Guidelines Improved Care or Reduced Access?	(Pro) Timothy Deer, MD	1.5 credits
5.50 pm		Trave the Recent Opiola Fain Guidelines improved Gare of Reduced Access:	(Con) Richard Rauck, MD	
4:00 pm		Has Ultrasound Made Chronic Pain Interventions More Effective and Safer?	(Pro) Samer Narouze, MD, PhD	-US- <mark>Neu</mark> -
			(Con) Stephen P. Cohen, MD	
4:30 pm		Neuromodulation and Phantom Limb Pain: A Viable Option?	(Pro) Paul Verrills, MBBS	
			(Con) Christophe Perruchoud, MD	
		PS-08c RA-Acute Pain Parallel Session	Moderator:	Complex
3:30 pm -	5:00 pm	Pro/Con Debate: Regional Analgesia Controversies	Rajnish Gupta, MD	6th floor
3:30 pm	-	Long Acting Local Anesthetic vs. Continuous Catheter for Upper Limb Surgery	(LA) Admir Hadzic, MD	1.5 credits
			(Cath) Philippe Macaire, MD	
4:00 pm		Thoracic Paravertebral Block vs. PEC/Serratus Plane Block for Breast Surgery	(TPV) Amit Pawa, MD	
4.20 nm		Interscalene Block vs. Suprascapular/Axillary Block for Shoulder Analgesia	(PEC) Meg Rosenblatt, MD (ISB) William Urmey, MD	
4:30 pm		Interscalene block vs. Suprascapular/Axillary block for Shoulder Arialgesia	(S/A) Sanjay Sinha, MD	
2-20	F-00	PS-08e Chronic Pain Parallel Session	Moderator:	Liberty
3:30 pm -	5:00 pm	Relevant Anatomy and Imaging to Improve Success in Pain Diagnosis and Treatment		8th floor 1.5 credits
3:30 pm 3:50 pm		Ultrasound Anatomy to Improve Technical Efficacy Functional Anatomy and Neural Imaging for Feedback Control of Spinal Cord Stimulation	Bernhard Morrigl, MD Jose De Andrés, MD	Secretary 1
4:10 pm		Advances in Imaging to Improve Clinical Diagnosis Capabilities	John Carrino, MD	-US-Neu-
4:30 pm	_	Panel Discussion and Open Forum	Som Samile, Wil	
		Special Event		Sky Lobby
5:15 pm -	6:30 pm	Resident and Fellow Meet and Greet		(16th floor)
		Jointly organized by: ASRA, North American Fellowship Directors, and the Association of		
		Pain Program Directors (APPD)		
		Saturday, April 21, 2018		
7:30 am -	8:00 am	Gotting Started		
7:30 am -	8:00 am	Getting Started Registration	Fover	
7:30 am -	8:00 am	Getting Started Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café	Foyer Exhibit Hall	
7:30 am -	8:00 am	Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café	Exhibit Hall	
		Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session	Exhibit Hall Moderator:	•
8:00 am -	8:00 am 9:30 am	Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia	Exhibit Hall	6th floor
8:00 am - 8:00 am		Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677	Exhibit Hall Moderator: Anahi Perlas, MD	6th floor 1.5 credits
8:00 am - 8:00 am 8:05 am		Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD	6th floor 1.5 credits
8:00 am - 8:00 am 8:05 am 8:20 am		Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement New Needle Ultrasound Tip Sensing/Localization Technology	Exhibit Hall Moderator: Anahi Perlas, MD	6th floor
8:00 am - 8:00 am 8:05 am 8:20 am 8:35 am		Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD Andrew Gray, MD	6th floor 1.5 credits
8:00 am - 8:00 am 8:05 am 8:20 am 8:35 am 8:50 am		Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement New Needle Ultrasound Tip Sensing/Localization Technology New Technology for Continuous Peripheral Nerve Blocks	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD Andrew Gray, MD Brian Ilfeld, MD	6th floor 1.5 credits
8:00 am - 8:00 am 8:05 am 8:20 am 8:35 am 8:50 am		Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement New Needle Ultrasound Tip Sensing/Localization Technology New Technology for Continuous Peripheral Nerve Blocks Novel Local Anesthetic Applications Panel Discussion and Open Forum	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD Andrew Gray, MD Brian Ilfeld, MD Alain Borgeat, MD	6th floor 1.5 credits
8:00 am - 8:00 am 8:05 am 8:20 am 8:35 am 8:50 am 9:05 am	9:30 am	Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement New Needle Ultrasound Tip Sensing/Localization Technology New Technology for Continuous Peripheral Nerve Blocks Novel Local Anesthetic Applications Panel Discussion and Open Forum PS-09b Chronic Pain Parallel Session	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD Andrew Gray, MD Brian Ilfeld, MD Alain Borgeat, MD Moderator:	6th floor 1.5 credits US Broadway Sout
8:00 am - 8:00 am 8:05 am 8:20 am 8:35 am 8:50 am 9:05 am		Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement New Needle Ultrasound Tip Sensing/Localization Technology New Technology for Continuous Peripheral Nerve Blocks Novel Local Anesthetic Applications Panel Discussion and Open Forum PS-09b Chronic Pain Parallel Session Advances in Neuromodulation: International Neuromodulation Society (INS) Panel	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD Andrew Gray, MD Brian Ilfeld, MD Alain Borgeat, MD Moderator: Ricardo Vallejo, MD	6th floor 1.5 credits US Broadway Sout 6th floor
8:00 am - 8:00 am 8:05 am 8:20 am 8:35 am 8:50 am 9:05 am	9:30 am	Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement New Needle Ultrasound Tip Sensing/Localization Technology New Technology for Continuous Peripheral Nerve Blocks Novel Local Anesthetic Applications Panel Discussion and Open Forum PS-09b Chronic Pain Parallel Session	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD Andrew Gray, MD Brian Ilfeld, MD Alain Borgeat, MD Moderator:	Broadway Sout 6th floor 1.5 credits
8:00 am - 8:00 am	9:30 am	Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement New Needle Ultrasound Tip Sensing/Localization Technology New Technology for Continuous Peripheral Nerve Blocks Novel Local Anesthetic Applications Panel Discussion and Open Forum PS-09b Chronic Pain Parallel Session Advances in Neuromodulation: International Neuromodulation Society (INS) Panel Dorsal Root Ganglion Stimulation: The Global Experience	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD Andrew Gray, MD Brian Ilfeld, MD Alain Borgeat, MD Moderator: Ricardo Vallejo, MD Timothy Deer, MD	6th floor 1.5 credits US Broadway Sout 6th floor
8:00 am - 8:00 am 8:05 am 8:20 am 8:35 am 8:50 am 9:05 am 8:00 am - 8:00 am 8:15 am	9:30 am	Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement New Needle Ultrasound Tip Sensing/Localization Technology New Technology for Continuous Peripheral Nerve Blocks Novel Local Anesthetic Applications Panel Discussion and Open Forum PS-09b Chronic Pain Parallel Session Advances in Neuromodulation: International Neuromodulation Society (INS) Panel Dorsal Root Ganglion Stimulation: The Global Experience Improving Neuromodulation Through Closed Loop Technology Moving Beyond the Spine and Pain: Neuromodulation Expansion Waveform (Paresthesia and Non-Paresthesia) and Technology Advancements	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD Andrew Gray, MD Brian Ilfeld, MD Alain Borgeat, MD Moderator: Ricardo Vallejo, MD Timothy Deer, MD Leonardo Kapural, MD	Broadway Sout 6th floor 1.5 credits
8:00 am - 8:00 am 8:05 am 8:20 am 8:35 am 8:50 am 9:05 am 8:00 am - 8:00 am 8:15 am 8:30 am 8:45 am	9:30 am	Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement New Needle Ultrasound Tip Sensing/Localization Technology New Technology for Continuous Peripheral Nerve Blocks Novel Local Anesthetic Applications Panel Discussion and Open Forum PS-09b Chronic Pain Parallel Session Advances in Neuromodulation: International Neuromodulation Society (INS) Panel Dorsal Root Ganglion Stimulation: The Global Experience Improving Neuromodulation Through Closed Loop Technology Moving Beyond the Spine and Pain: Neuromodulation Expansion	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD Andrew Gray, MD Brian Ilfeld, MD Alain Borgeat, MD Moderator: Ricardo Vallejo, MD Timothy Deer, MD Leonardo Kapural, MD Paul Verrills, MBBS	Broadway Sout 6th floor 1.5 credits
8:00 am - 8:00 am 8:05 am 8:20 am 8:35 am 8:50 am 9:05 am 8:00 am - 8:00 am 8:15 am 8:30 am 8:30 am	9:30 am	Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement New Needle Ultrasound Tip Sensing/Localization Technology New Technology for Continuous Peripheral Nerve Blocks Novel Local Anesthetic Applications Panel Discussion and Open Forum PS-09b Chronic Pain Parallel Session Advances in Neuromodulation: International Neuromodulation Society (INS) Panel Dorsal Root Ganglion Stimulation: The Global Experience Improving Neuromodulation Through Closed Loop Technology Moving Beyond the Spine and Pain: Neuromodulation Expansion Waveform (Paresthesia and Non-Paresthesia) and Technology Advancements Panel Discussion and Open Forum	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD Andrew Gray, MD Brian Ilfeld, MD Alain Borgeat, MD Moderator: Ricardo Vallejo, MD Timothy Deer, MD Leonardo Kapural, MD Paul Verrills, MBBS Todd Sitzman, MD	Broadway Sout 6th floor 1.5 credits US Broadway Sout 6th floor 1.5 credits
8:00 am - 8:00 am 8:05 am 8:20 am 8:35 am 8:50 am 9:05 am 8:15 am 8:30 am 8:30 am 8:45 am 9:00 am	9:30 am	Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement New Needle Ultrasound Tip Sensing/Localization Technology New Technology for Continuous Peripheral Nerve Blocks Novel Local Anesthetic Applications Panel Discussion and Open Forum PS-09b Chronic Pain Parallel Session Advances in Neuromodulation: International Neuromodulation Society (INS) Panel Dorsal Root Ganglion Stimulation: The Global Experience Improving Neuromodulation Through Closed Loop Technology Moving Beyond the Spine and Pain: Neuromodulation Expansion Waveform (Paresthesia and Non-Paresthesia) and Technology Advancements Panel Discussion and Open Forum	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD Andrew Gray, MD Brian Ilfeld, MD Alain Borgeat, MD Moderator: Ricardo Vallejo, MD Timothy Deer, MD Leonardo Kapural, MD Paul Verrills, MBBS Todd Sitzman, MD	Broadway Sout 6th floor 1.5 credits
8:00 am - 8:00 am 8:05 am 8:05 am 8:35 am 8:50 am 9:05 am 8:15 am 8:30 am 8:30 am 8:45 am 9:00 am	9:30 am 9:30 am	Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement New Needle Ultrasound Tip Sensing/Localization Technology New Technology for Continuous Peripheral Nerve Blocks Novel Local Anesthetic Applications Panel Discussion and Open Forum PS-09b Chronic Pain Parallel Session Advances in Neuromodulation: International Neuromodulation Society (INS) Panel Dorsal Root Ganglion Stimulation: The Global Experience Improving Neuromodulation Through Closed Loop Technology Moving Beyond the Spine and Pain: Neuromodulation Expansion Waveform (Paresthesia and Non-Paresthesia) and Technology Advancements Panel Discussion and Open Forum	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD Andrew Gray, MD Brian Ilfeld, MD Alain Borgeat, MD Moderator: Ricardo Vallejo, MD Timothy Deer, MD Leonardo Kapural, MD Paul Verrills, MBBS Todd Sitzman, MD	Broadway Sout 6th floor 1.5 credits Weu Complex
8:00 am - 8:00 am 8:05 am 8:05 am 8:35 am 8:50 am 9:05 am 8:15 am 8:30 am 8:45 am 9:00 am 8:45 am	9:30 am 9:30 am	Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement New Needle Ultrasound Tip Sensing/Localization Technology New Technology for Continuous Peripheral Nerve Blocks Novel Local Anesthetic Applications Panel Discussion and Open Forum PS-09b Chronic Pain Parallel Session Advances in Neuromodulation: International Neuromodulation Society (INS) Panel Dorsal Root Ganglion Stimulation: The Global Experience Improving Neuromodulation Through Closed Loop Technology Moving Beyond the Spine and Pain: Neuromodulation Expansion Waveform (Paresthesia and Non-Paresthesia) and Technology Advancements Panel Discussion and Open Forum PS-09c RA-Acute Pain Parallel Session Procedure Specific Pain Therapy: Evidence-Based Recommendations	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD Andrew Gray, MD Brian Ilfeld, MD Alain Borgeat, MD Moderator: Ricardo Vallejo, MD Timothy Deer, MD Leonardo Kapural, MD Paul Verrills, MBBS Todd Sitzman, MD	Broadway Sout 6th floor 1.5 credits Weu Complex 6th floor
8:00 am - 8:00 am 8:05 am 8:20 am 8:35 am 8:50 am 9:05 am 8:15 am 8:30 am 8:30 am 8:45 am 9:00 am 8:45 am 9:00 am	9:30 am 9:30 am	Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement New Needle Ultrasound Tip Sensing/Localization Technology New Technology for Continuous Peripheral Nerve Blocks Novel Local Anesthetic Applications Panel Discussion and Open Forum PS-09b Chronic Pain Parallel Session Advances in Neuromodulation: International Neuromodulation Society (INS) Panel Dorsal Root Ganglion Stimulation: The Global Experience Improving Neuromodulation Through Closed Loop Technology Moving Beyond the Spine and Pain: Neuromodulation Expansion Waveform (Paresthesia and Non-Paresthesia) and Technology Advancements Panel Discussion and Open Forum PS-09c RA-Acute Pain Parallel Session Procedure Specific Pain Therapy: Evidence-Based Recommendations Best of Meeting Abstract 5527 Breast Cancer Surgery Inguinal Hernia Repair Surgery	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD Andrew Gray, MD Brian Ilfeld, MD Alain Borgeat, MD Moderator: Ricardo Vallejo, MD Timothy Deer, MD Leonardo Kapural, MD Paul Verrills, MBBS Todd Sitzman, MD Moderator: Ezzat Aziz, MD	Broadway Sout 6th floor 1.5 credits Weu Complex 6th floor
8:00 am - 8:00 am 8:05 am 8:05 am 8:35 am 8:50 am 9:05 am 8:15 am 8:30 am 8:45 am 9:00 am 8:45 am 9:00 am 8:45 am 9:00 am 8:35 am	9:30 am 9:30 am	Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement New Needle Ultrasound Tip Sensing/Localization Technology New Technology for Continuous Peripheral Nerve Blocks Novel Local Anesthetic Applications Panel Discussion and Open Forum PS-09b Chronic Pain Parallel Session Advances in Neuromodulation: International Neuromodulation Society (INS) Panel Dorsal Root Ganglion Stimulation: The Global Experience Improving Neuromodulation Through Closed Loop Technology Moving Beyond the Spine and Pain: Neuromodulation Expansion Waveform (Paresthesia and Non-Paresthesia) and Technology Advancements Panel Discussion and Open Forum PS-09c RA-Acute Pain Parallel Session Procedure Specific Pain Therapy: Evidence-Based Recommendations Best of Meeting Abstract 5527 Breast Cancer Surgery Inguinal Hernia Repair Surgery Arthroscopic Shoulder Stabilization Surgery	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD Andrew Gray, MD Brian Ilfeld, MD Alain Borgeat, MD Moderator: Ricardo Vallejo, MD Timothy Deer, MD Leonardo Kapural, MD Paul Verrills, MBBS Todd Sitzman, MD Moderator: Ezzat Aziz, MD Ban Tsui, MD Hance Clarke, MD Christopher Wu, MD	Broadway Sout 6th floor 1.5 credits Weu Complex 6th floor
8:00 am - 8:00 am 8:05 am 8:20 am 8:35 am 8:50 am 9:05 am 8:30 am 8:30 am 8:45 am 9:00 am 8:45 am 9:00 am 8:45 am 9:00 am 8:35 am 8:50 am 8:50 am 8:05 am	9:30 am 9:30 am	Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement New Needle Ultrasound Tip Sensing/Localization Technology New Technology for Continuous Peripheral Nerve Blocks Novel Local Anesthetic Applications Panel Discussion and Open Forum PS-09b Chronic Pain Parallel Session Advances in Neuromodulation: International Neuromodulation Society (INS) Panel Dorsal Root Ganglion Stimulation: The Global Experience Improving Neuromodulation Through Closed Loop Technology Moving Beyond the Spine and Pain: Neuromodulation Expansion Waveform (Paresthesia and Non-Paresthesia) and Technology Advancements Panel Discussion and Open Forum PS-09c RA-Acute Pain Parallel Session Procedure Specific Pain Therapy: Evidence-Based Recommendations Best of Meeting Abstract 5527 Breast Cancer Surgery Inguinal Hernia Repair Surgery Arthroscopic Shoulder Stabilization Surgery Fractured Hip Surgery	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD Andrew Gray, MD Brian Ilfeld, MD Alain Borgeat, MD Moderator: Ricardo Vallejo, MD Timothy Deer, MD Leonardo Kapural, MD Paul Verrills, MBBS Todd Sitzman, MD Moderator: Ezzat Aziz, MD Ban Tsui, MD Hance Clarke, MD Christopher Wu, MD Mark Neuman, MD	Broadway Sout 6th floor 1.5 credits Weu Complex 6th floor
8:00 am - 8:00 am 8:05 am 8:05 am 8:35 am 8:50 am 9:05 am 8:15 am 8:30 am 8:45 am 9:00 am 8:45 am 9:00 am 8:45 am 9:00 am 8:50 am 8:50 am 8:50 am 8:50 am	9:30 am 9:30 am	Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement New Needle Ultrasound Tip Sensing/Localization Technology New Technology for Continuous Peripheral Nerve Blocks Novel Local Anesthetic Applications Panel Discussion and Open Forum PS-09b Chronic Pain Parallel Session Advances in Neuromodulation: International Neuromodulation Society (INS) Panel Dorsal Root Ganglion Stimulation: The Global Experience Improving Neuromodulation Through Closed Loop Technology Moving Beyond the Spine and Pain: Neuromodulation Expansion Waveform (Paresthesia and Non-Paresthesia) and Technology Advancements Panel Discussion and Open Forum PS-09c RA-Acute Pain Parallel Session Procedure Specific Pain Therapy: Evidence-Based Recommendations Best of Meeting Abstract 5527 Breast Cancer Surgery Inguinal Hernia Repair Surgery Arthroscopic Shoulder Stabilization Surgery Fractured Hip Surgery Total Hip Arthroplasty	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD Andrew Gray, MD Brian Ilfeld, MD Alain Borgeat, MD Moderator: Ricardo Vallejo, MD Timothy Deer, MD Leonardo Kapural, MD Paul Verrills, MBBS Todd Sitzman, MD Moderator: Ezzat Aziz, MD Ban Tsui, MD Hance Clarke, MD Christopher Wu, MD	Broadway Sout 6th floor 1.5 credits Weu Complex 6th floor
8:00 am - 8:00 am 8:05 am 8:05 am 8:35 am 8:50 am 9:05 am 8:15 am 8:30 am 8:45 am 9:00 am 8:45 am 9:00 am 8:45 am 9:00 am 8:50 am 8:50 am 8:50 am 8:50 am	9:30 am 9:30 am	Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement New Needle Ultrasound Tip Sensing/Localization Technology New Technology for Continuous Peripheral Nerve Blocks Novel Local Anesthetic Applications Panel Discussion and Open Forum PS-09b Chronic Pain Parallel Session Advances in Neuromodulation: International Neuromodulation Society (INS) Panel Dorsal Root Ganglion Stimulation: The Global Experience Improving Neuromodulation Through Closed Loop Technology Moving Beyond the Spine and Pain: Neuromodulation Expansion Waveform (Paresthesia and Non-Paresthesia) and Technology Advancements Panel Discussion and Open Forum PS-09c RA-Acute Pain Parallel Session Procedure Specific Pain Therapy: Evidence-Based Recommendations Best of Meeting Abstract 5527 Breast Cancer Surgery Inguinal Hernia Repair Surgery Arthroscopic Shoulder Stabilization Surgery Fractured Hip Surgery	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD Andrew Gray, MD Brian Ilfeld, MD Alain Borgeat, MD Moderator: Ricardo Vallejo, MD Timothy Deer, MD Leonardo Kapural, MD Paul Verrills, MBBS Todd Sitzman, MD Moderator: Ezzat Aziz, MD Ban Tsui, MD Hance Clarke, MD Christopher Wu, MD Mark Neuman, MD	Broadway Sout 6th floor 1.5 credits Weu Complex 6th floor
8:00 am - 8:00 am 8:05 am 8:20 am 8:35 am 8:50 am 9:05 am 8:15 am 8:30 am 8:45 am 9:00 am 8:45 am 9:00 am 8:45 am 9:00 am	9:30 am 9:30 am	Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement New Needle Ultrasound Tip Sensing/Localization Technology New Technology for Continuous Peripheral Nerve Blocks Novel Local Anesthetic Applications Panel Discussion and Open Forum PS-09b Chronic Pain Parallel Session Advances in Neuromodulation: International Neuromodulation Society (INS) Panel Dorsal Root Ganglion Stimulation: The Global Experience Improving Neuromodulation Through Closed Loop Technology Moving Beyond the Spine and Pain: Neuromodulation Expansion Waveform (Paresthesia and Non-Paresthesia) and Technology Advancements Panel Discussion and Open Forum PS-09c RA-Acute Pain Parallel Session Procedure Specific Pain Therapy: Evidence-Based Recommendations Best of Meeting Abstract 5527 Breast Cancer Surgery Inguinal Hernia Repair Surgery Arthroscopic Shoulder Stabilization Surgery Fractured Hip Surgery Total Hip Arthroplasty	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD Andrew Gray, MD Brian Ilfeld, MD Alain Borgeat, MD Moderator: Ricardo Vallejo, MD Timothy Deer, MD Leonardo Kapural, MD Paul Verrills, MBBS Todd Sitzman, MD Moderator: Ezzat Aziz, MD Ban Tsui, MD Hance Clarke, MD Christopher Wu, MD Mark Neuman, MD	Broadway Sout 6th floor 1.5 credits Weu Complex 6th floor
8:00 am - 8:00 am 8:05 am 8:20 am 8:35 am 8:50 am 9:05 am 8:30 am 8:30 am 8:45 am 9:00 am 8:00 am 8:45 am 9:00 am 8:00 am 8:00 am 8:00 am 8:00 am 8:00 am	9:30 am 9:30 am	Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement New Needle Ultrasound Tip Sensing/Localization Technology New Technology for Continuous Peripheral Nerve Blocks Novel Local Anesthetic Applications Panel Discussion and Open Forum PS-09b Chronic Pain Parallel Session Advances in Neuromodulation: International Neuromodulation Society (INS) Panel Dorsal Root Ganglion Stimulation: The Global Experience Improving Neuromodulation Through Closed Loop Technology Moving Beyond the Spine and Pain: Neuromodulation Expansion Waveform (Paresthesia and Non-Paresthesia) and Technology Advancements Panel Discussion and Open Forum PS-09c RA-Acute Pain Parallel Session Procedure Specific Pain Therapy: Evidence-Based Recommendations Best of Meeting Abstract 5527 Breast Cancer Surgery Inguinal Hernia Repair Surgery Arthroscopic Shoulder Stabilization Surgery Fractured Hip Surgery Total Hip Arthroplasty Panel Discussion and Open Forum	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD Andrew Gray, MD Brian Ilfeld, MD Alain Borgeat, MD Moderator: Ricardo Vallejo, MD Timothy Deer, MD Leonardo Kapural, MD Paul Verrills, MBBS Todd Sitzman, MD Moderator: Ezzat Aziz, MD Ban Tsui, MD Hance Clarke, MD Christopher Wu, MD Mark Neuman, MD Stavros Memtsoudis, MD	Broadway Sout 6th floor 1.5 credits Veu Complex 6th floor 1.5 credits Manhattan 8th floor
8:00 am - 8:00 am 8:05 am 8:20 am 8:35 am 8:50 am 9:05 am 8:15 am 8:30 am 8:45 am 9:00 am 8:45 am 9:00 am 8:45 am 9:00 am 8:00 am	9:30 am 9:30 am	Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement New Needle Ultrasound Tip Sensing/Localization Technology New Technology for Continuous Peripheral Nerve Blocks Novel Local Anesthetic Applications Panel Discussion and Open Forum PS-09b Chronic Pain Parallel Session Advances in Neuromodulation: International Neuromodulation Society (INS) Panel Dorsal Root Ganglion Stimulation: The Global Experience Improving Neuromodulation Through Closed Loop Technology Moving Beyond the Spine and Pain: Neuromodulation Expansion Waveform (Paresthesia and Non-Paresthesia) and Technology Advancements Panel Discussion and Open Forum PS-09c RA-Acute Pain Parallel Session Procedure Specific Pain Therapy: Evidence-Based Recommendations Best of Meeting Abstract 5527 Breast Cancer Surgery Inguinal Hernia Repair Surgery Arthroscopic Shoulder Stabilization Surgery Fractured Hip Surgery Total Hip Arthroplasty Panel Discussion and Open Forum PS-09d RA-Acute Pain Parallel Session Obstetrics Forum Analgesia for Labour: An Update	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD Andrew Gray, MD Brian Ilfeld, MD Alain Borgeat, MD Moderator: Ricardo Vallejo, MD Timothy Deer, MD Leonardo Kapural, MD Paul Verrills, MBBS Todd Sitzman, MD Moderator: Ezzat Aziz, MD Ban Tsui, MD Hance Clarke, MD Christopher Wu, MD Mark Neuman, MD Stavros Memtsoudis, MD Moderator: Marc Van de Velde, MD Marc Van de Velde, MD Marc Van de Velde, MD	1.5 credits US Broadway South 6th floor 1.5 credits Complex 6th floor 1.5 credits Manhattan 8th floor 1.5 credits
8:00 am - 8:00 am - 8:00 am 8:05 am 8:20 am 8:35 am 8:50 am 9:05 am 8:30 am 8:30 am 8:45 am 9:00 am 8:05 am 8:30 am	9:30 am 9:30 am	Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement New Needle Ultrasound Tip Sensing/Localization Technology New Technology for Continuous Peripheral Nerve Blocks Novel Local Anesthetic Applications Panel Discussion and Open Forum PS-09b Chronic Pain Parallel Session Advances in Neuromodulation: International Neuromodulation Society (INS) Panel Dorsal Root Ganglion Stimulation: The Global Experience Improving Neuromodulation Through Closed Loop Technology Moving Beyond the Spine and Pain: Neuromodulation Expansion Waveform (Paresthesia and Non-Paresthesia) and Technology Advancements Panel Discussion and Open Forum PS-09c RA-Acute Pain Parallel Session Procedure Specific Pain Therapy: Evidence-Based Recommendations Best of Meeting Abstract 5527 Breast Cancer Surgery Inguinal Hernia Repair Surgery Arthroscopic Shoulder Stabilization Surgery Fractured Hip Surgery Total Hip Arthroplasty Panel Discussion and Open Forum PS-09d RA-Acute Pain Parallel Session Obstetrics Forum Analgesia for Labour: An Update How to Manage Persistent PDPH after a Blood Patch	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD Andrew Gray, MD Brian Ilfeld, MD Alain Borgeat, MD Moderator: Ricardo Vallejo, MD Timothy Deer, MD Leonardo Kapural, MD Paul Verrills, MBBS Todd Sitzman, MD Moderator: Ezzat Aziz, MD Ban Tsui, MD Hance Clarke, MD Christopher Wu, MD Mark Neuman, MD Stavros Memtsoudis, MD Moderator: Marc Van de Velde, MD Marc Van de Velde, MD Susilo Chandra, MD	Broadway Sout 6th floor 1.5 credits Veu Complex 6th floor 1.5 credits Neu Manhattan 8th floor
8:00 am - 8:00 am 8:05 am 8:05 am 8:35 am 8:50 am 9:05 am 8:15 am 8:30 am 8:45 am 9:00 am 8:45 am 9:00 am 8:45 am 9:00 am 8:50 am 8:00 am 8:00 am 8:00 am 8:00 am 8:00 am	9:30 am 9:30 am	Registration Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café PS-09a RA-Acute Pain Parallel Session Innovations in Regional Anesthesia Best of Meeting Abstract 4677 Electrical Impedance to Detect Intraneural Needle Placement New Needle Ultrasound Tip Sensing/Localization Technology New Technology for Continuous Peripheral Nerve Blocks Novel Local Anesthetic Applications Panel Discussion and Open Forum PS-09b Chronic Pain Parallel Session Advances in Neuromodulation: International Neuromodulation Society (INS) Panel Dorsal Root Ganglion Stimulation: The Global Experience Improving Neuromodulation Through Closed Loop Technology Moving Beyond the Spine and Pain: Neuromodulation Expansion Waveform (Paresthesia and Non-Paresthesia) and Technology Advancements Panel Discussion and Open Forum PS-09c RA-Acute Pain Parallel Session Procedure Specific Pain Therapy: Evidence-Based Recommendations Best of Meeting Abstract 5527 Breast Cancer Surgery Inguinal Hernia Repair Surgery Arthroscopic Shoulder Stabilization Surgery Fractured Hip Surgery Total Hip Arthroplasty Panel Discussion and Open Forum PS-09d RA-Acute Pain Parallel Session Obstetrics Forum Analgesia for Labour: An Update	Exhibit Hall Moderator: Anahi Perlas, MD Axel Sauter, MD Andrew Gray, MD Brian Ilfeld, MD Alain Borgeat, MD Moderator: Ricardo Vallejo, MD Timothy Deer, MD Leonardo Kapural, MD Paul Verrills, MBBS Todd Sitzman, MD Moderator: Ezzat Aziz, MD Ban Tsui, MD Hance Clarke, MD Christopher Wu, MD Mark Neuman, MD Stavros Memtsoudis, MD Moderator: Marc Van de Velde, MD Marc Van de Velde, MD Marc Van de Velde, MD	Broadway Sout 6th floor 1.5 credits Complex 6th floor 1.5 credits Manhattan 8th floor 1.5 credits



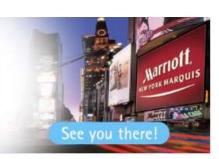




9:30 am -	10:15 am	Break in Exhibit Hall		
		Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café		
10:15 am -	11.45 am	PS-10a RA-Acute Pain Parallel Session	Moderator:	Broadway North 6th floor
10:15 am -	11:45 am	Newer Block Techniques: Why and How Well Do They Work? Best of Meeting Abstract 4886	Ki-Jinn Chin, MD	1.5 credits
10.15 am		Retrolaminar, Rhomboid Intercostal, Erector Spinae Plane Blocks	Sanjib Adhikary, MD	Sec. 10
0:20 am		New Quadratus Lumborum Block Approaches	Hesham Elsharkawy, MD	US
10:50 am		New Brachial Plexus Blocks: Retroclavicular, Costoclavicular	Jeffrey Gadsden, MD	
11:05 am	**	Ultrasound-Guided Knee Infiltration Techniques	Sanjay Sinha, MD	
11:20 am		Low Dose Peripheral Nerve Blocks for Total Knee Arthroplasty	Alain Delbos, MD	
11:35 am		Panel Discussion and Open Forum	, want bolboo, wib	
11.00 am		Tallet Bloodsolett and Open Foram		
		PS-10b Chronic Pain Parallel Session Headache SIG Panel: Modern Headache Care Collaboration Between Neurology and	Moderator:	Broadway Sout
10:15 am -	11:45 am	Interventional Pain	Sam Eldabe, MD	6th floor
10:15 am		Can't Miss Headaches	Samer Narouze, MD, PhD	1.5 credits
10:35 am		Cervicogenic Headache	Kevin Vorenkamp, MD	1.1.0
10:55 am		Neuromodulation for Head and Facial Pain	Sandeep Amin, MD	HA
11:10 am		Interventional Headache Management: Time for Neurologists and Pain Physicians to	Samer Narouze, MD, PhD	
11:30 am		Panel Discussion and Open Forum		
			Moderators:	Majestic
		PS-10c RA-Acute Pain Parallel Session	Honorio Benzon, MD	Complex
10:15 am -	11:45 am	Acute Pain Management: Best Practice for Intravenous Analgesics	Amany Ayad, MD	6th floor
10:15 am		IV Alpha 2 Agonists: Dexmedetomidine and Clonidine	Philipp Lirk, MD	1.5 credits
10:25 am		IV Ketamine	Patricia Lavand'homme, MD	
10:35 am		IV Acetaminophen	Eric Albrecht, MD	
10:45 am		IV Lidocaine	Philipp Lirk, MD	
10:55 am		IV NSAIDs	Patricia Lavand'homme, MD	
11:05 am		IV Magnesium	Eric Albrecht, MD	
11:15 am		Panel Discussion and Open Forum		
		DC 404 DA Asite Deia Devallel Consider	W. A	N/Acceptation
10:15 am -	11.45 am	PS-10d RA-Acute Pain Parallel Session	Moderators: Monty Mythen, MD	Manhattan 8th floor
	11:45 am	Defining Outcomes that Matter to Regional Anesthesia: An International Discussion	Monty Mythen, MD	
10:15 am 10:20 am		Best of Meeting Abstract 4842 Defining the Core Set of Outcome Measures for Regional Anesthesia: Randomized	Mark Neumann, MD	1.5 credits
10.05		Controlled Trials vs. Large Databases	Michael Andreas MD	
10:35 am		Core Regional Anesthesia Outcomes Important to Breast Surgery	Michael Andreae, MD	
10:50 am		Colorectal Surgery Outcome Measures	Christopher Wu, MD	
11:05 am		Total Hip and Knee Arthroplasty Outcome Measures	Stavros Memtsoudis, MD	
11:20 am		Panel Discussion and Open Forum		
11:30 am -	1:00 pm	Special Session (lunch is not provided) A Conversation with ASRA About Analgesic Drug Shortages	Moderator: Edward Mariano, MD	O'Neill 4th floor
12:00 pm -	1:00 pm	Non-CME Ancillary Event by Sintetica (lunch included) Fast Track Spinal Anesthesia: A New Kid in Town		Broadway Nort 6th floor
		Non-CME Ancillary Event by Pfizer Inc. and Eli Lilly and Company (lunch included)		
		Current Understanding of the Peripheral and Central Components of the Pain		Broadway Sout
12:00 pm -	1:00 pm	Pathway and their Roles in Chronic Pain and Future Therapeutics		6th floor
		Lunch On Own		
11:45 am -	1:15 pm			
11:45 am -	1:15 pm	PS-11a RA-Acute Pain Parallel Session	Moderator:	Broadway Nort
	2:45 pm		Moderator: Joseph Neal, MD	Broadway Nor
l:15 pm -	-	Complications After Regional Anesthesia and Surgery	Joseph Neal, MD	Broadway Nort 6th floor 1.5 credits
1:15 pm - 1:15 pm	-	Complications After Regional Anesthesia and Surgery Phrenic Nerve Palsy and Interscalene Block	Joseph Neal, MD Andrew Gray, MD	6th floor 1.5 credits
1:15 pm - 1:15 pm 1:30 pm	-	Complications After Regional Anesthesia and Surgery Phrenic Nerve Palsy and Interscalene Block Local Anesthetic-Induced Neurotoxicity: New Insights	Joseph Neal, MD	6th floor
1:15 pm - 1:15 pm 1:30 pm 1:45 pm	-	Complications After Regional Anesthesia and Surgery Phrenic Nerve Palsy and Interscalene Block	Joseph Neal, MD Andrew Gray, MD Philipp Lirk, MD	6th floor 1.5 credits
1:15 pm - 1:15 pm 1:30 pm 1:45 pm 2:00 pm	-	Complications After Regional Anesthesia and Surgery Phrenic Nerve Palsy and Interscalene Block Local Anesthetic-Induced Neurotoxicity: New Insights Prevention and Treatment of Post-Mastectomy Pain	Joseph Neal, MD Andrew Gray, MD Philipp Lirk, MD Michael Andreae, MD	6th floor 1.5 credits
1:15 pm - 1:15 pm 1:30 pm 1:45 pm 2:00 pm	-	Complications After Regional Anesthesia and Surgery Phrenic Nerve Palsy and Interscalene Block Local Anesthetic-Induced Neurotoxicity: New Insights Prevention and Treatment of Post-Mastectomy Pain Prevention and Treatment of Post-Thoracotomy Pain	Joseph Neal, MD Andrew Gray, MD Philipp Lirk, MD Michael Andreae, MD	6th floor 1.5 credits MacA
1:15 pm - 1:15 pm 1:30 pm 1:45 pm 2:00 pm 2:15 pm	-	Complications After Regional Anesthesia and Surgery Phrenic Nerve Palsy and Interscalene Block Local Anesthetic-Induced Neurotoxicity: New Insights Prevention and Treatment of Post-Mastectomy Pain Prevention and Treatment of Post-Thoracotomy Pain Panel Discussion and Open Forum	Joseph Neal, MD Andrew Gray, MD Philipp Lirk, MD Michael Andreae, MD Patricia Lavand'homme, MD	6th floor 1.5 credits MQCA
1:15 pm - 1:15 pm 1:30 pm 1:45 pm 2:00 pm 2:15 pm	2:45 pm	Complications After Regional Anesthesia and Surgery Phrenic Nerve Palsy and Interscalene Block Local Anesthetic-Induced Neurotoxicity: New Insights Prevention and Treatment of Post-Mastectomy Pain Prevention and Treatment of Post-Thoracotomy Pain Panel Discussion and Open Forum PS-11b Chronic Pain Parallel Session	Joseph Neal, MD Andrew Gray, MD Philipp Lirk, MD Michael Andreae, MD Patricia Lavand'homme, MD Moderator:	6th floor 1.5 credits March Broadway Sou
1:15 pm - 1:15 pm 1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm -	2:45 pm	Complications After Regional Anesthesia and Surgery Phrenic Nerve Palsy and Interscalene Block Local Anesthetic-Induced Neurotoxicity: New Insights Prevention and Treatment of Post-Mastectomy Pain Prevention and Treatment of Post-Thoracotomy Pain Panel Discussion and Open Forum PS-11b Chronic Pain Parallel Session Complications of Chronic Pain Management and Medico-Legal Cases	Joseph Neal, MD Andrew Gray, MD Philipp Lirk, MD Michael Andreae, MD Patricia Lavand'homme, MD Moderator: Timothy Deer, MD	6th floor 1.5 credits March Broadway Sou 6th floor 1.5 credits
1:15 pm - 1:15 pm 1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm - 1:15 pm	2:45 pm	Complications After Regional Anesthesia and Surgery Phrenic Nerve Palsy and Interscalene Block Local Anesthetic-Induced Neurotoxicity: New Insights Prevention and Treatment of Post-Mastectomy Pain Prevention and Treatment of Post-Thoracotomy Pain Panel Discussion and Open Forum PS-11b Chronic Pain Parallel Session Complications of Chronic Pain Management and Medico-Legal Cases USA Closed Claims Cases Related to Interventional Pain Management: What Can We	Joseph Neal, MD Andrew Gray, MD Philipp Lirk, MD Michael Andreae, MD Patricia Lavand'homme, MD Moderator: Timothy Deer, MD James Rathmell, MD	6th floor 1.5 credits March Broadway Sou
1:15 pm - 1:15 pm 1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm - 1:15 pm 1:35 pm	2:45 pm	Complications After Regional Anesthesia and Surgery Phrenic Nerve Palsy and Interscalene Block Local Anesthetic-Induced Neurotoxicity: New Insights Prevention and Treatment of Post-Mastectomy Pain Prevention and Treatment of Post-Thoracotomy Pain Panel Discussion and Open Forum PS-11b Chronic Pain Parallel Session Complications of Chronic Pain Management and Medico-Legal Cases USA Closed Claims Cases Related to Interventional Pain Management: What Can We USA Mitigating Legal Risks of Medication Management	Joseph Neal, MD Andrew Gray, MD Philipp Lirk, MD Michael Andreae, MD Patricia Lavand'homme, MD Moderator: Timothy Deer, MD James Rathmell, MD Richard Rauck, MD	6th floor 1.5 credits March Broadway Sou 6th floor 1.5 credits
1:15 pm - 1:15 pm 1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm - 1:15 pm 1:35 pm	2:45 pm	Complications After Regional Anesthesia and Surgery Phrenic Nerve Palsy and Interscalene Block Local Anesthetic-Induced Neurotoxicity: New Insights Prevention and Treatment of Post-Mastectomy Pain Prevention and Treatment of Post-Thoracotomy Pain Panel Discussion and Open Forum PS-11b Chronic Pain Parallel Session Complications of Chronic Pain Management and Medico-Legal Cases USA Closed Claims Cases Related to Interventional Pain Management: What Can We USA Mitigating Legal Risks of Medication Management What Can I Do to Protect Myself from Medical Negligence? Panel Discussion and Open Forum	Joseph Neal, MD Andrew Gray, MD Philipp Lirk, MD Michael Andreae, MD Patricia Lavand'homme, MD Moderator: Timothy Deer, MD James Rathmell, MD Richard Rauck, MD John Power	Broadway Sou 6th floor 1.5 credits MacA
1:15 pm - 1:15 pm 1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm - 1:15 pm 1:35 pm 1:55 pm 2:15 pm	2:45 pm 2:45 pm	Complications After Regional Anesthesia and Surgery Phrenic Nerve Palsy and Interscalene Block Local Anesthetic-Induced Neurotoxicity: New Insights Prevention and Treatment of Post-Mastectomy Pain Prevention and Treatment of Post-Thoracotomy Pain Panel Discussion and Open Forum PS-11b Chronic Pain Parallel Session Complications of Chronic Pain Management and Medico-Legal Cases USA Closed Claims Cases Related to Interventional Pain Management: What Can We USA Mitigating Legal Risks of Medication Management What Can I Do to Protect Myself from Medical Negligence? Panel Discussion and Open Forum PS-11c RA-Acute Pain Parallel Session	Joseph Neal, MD Andrew Gray, MD Philipp Lirk, MD Michael Andreae, MD Patricia Lavand'homme, MD Moderator: Timothy Deer, MD James Rathmell, MD Richard Rauck, MD John Power Moderator:	Broadway Sou 6th floor 1.5 credits Majestic
1:15 pm - 1:15 pm 1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm - 1:15 pm 1:35 pm 2:15 pm	2:45 pm	Complications After Regional Anesthesia and Surgery Phrenic Nerve Palsy and Interscalene Block Local Anesthetic-Induced Neurotoxicity: New Insights Prevention and Treatment of Post-Mastectomy Pain Prevention and Treatment of Post-Thoracotomy Pain Panel Discussion and Open Forum PS-11b Chronic Pain Parallel Session Complications of Chronic Pain Management and Medico-Legal Cases USA Closed Claims Cases Related to Interventional Pain Management: What Can We USA Mitigating Legal Risks of Medication Management What Can I Do to Protect Myself from Medical Negligence? Panel Discussion and Open Forum PS-11c RA-Acute Pain Parallel Session Innovations in Acute Pain Management: Part I	Joseph Neal, MD Andrew Gray, MD Philipp Lirk, MD Michael Andreae, MD Patricia Lavand'homme, MD Moderator: Timothy Deer, MD James Rathmell, MD Richard Rauck, MD John Power Moderator: Eugene Viscusi, MD	Broadway Sou 6th floor 1.5 credits Majestic Complex
1:15 pm - 1:15 pm 1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm - 1:15 pm 1:55 pm 2:15 pm	2:45 pm 2:45 pm	Complications After Regional Anesthesia and Surgery Phrenic Nerve Palsy and Interscalene Block Local Anesthetic-Induced Neurotoxicity: New Insights Prevention and Treatment of Post-Mastectomy Pain Prevention and Treatment of Post-Thoracotomy Pain Panel Discussion and Open Forum PS-11b Chronic Pain Parallel Session Complications of Chronic Pain Management and Medico-Legal Cases USA Closed Claims Cases Related to Interventional Pain Management: What Can We USA Mitigating Legal Risks of Medication Management What Can I Do to Protect Myself from Medical Negligence? Panel Discussion and Open Forum PS-11c RA-Acute Pain Parallel Session Innovations in Acute Pain Management: Part I Cannabinoids for Acute Pain	Joseph Neal, MD Andrew Gray, MD Philipp Lirk, MD Michael Andreae, MD Patricia Lavand'homme, MD Moderator: Timothy Deer, MD James Rathmell, MD Richard Rauck, MD John Power Moderator: Eugene Viscusi, MD Hance Clarke, MD	Broadway Sou 6th floor 1.5 credits Majestic
1:15 pm - 1:15 pm 1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm - 1:15 pm 1:55 pm 2:15 pm 1:55 pm 1:55 pm 1:55 pm	2:45 pm 2:45 pm	Phrenic Nerve Palsy and Interscalene Block Local Anesthetic-Induced Neurotoxicity: New Insights Prevention and Treatment of Post-Mastectomy Pain Prevention and Treatment of Post-Thoracotomy Pain Panel Discussion and Open Forum PS-11b Chronic Pain Parallel Session Complications of Chronic Pain Management and Medico-Legal Cases USA Closed Claims Cases Related to Interventional Pain Management: What Can We USA Mitigating Legal Risks of Medication Management What Can I Do to Protect Myself from Medical Negligence? Panel Discussion and Open Forum PS-11c RA-Acute Pain Parallel Session Innovations in Acute Pain Management: Part I Cannabinoids for Acute Pain Multimodal Perineural Analgesia	Joseph Neal, MD Andrew Gray, MD Philipp Lirk, MD Michael Andreae, MD Patricia Lavand'homme, MD Moderator: Timothy Deer, MD James Rathmell, MD Richard Rauck, MD John Power Moderator: Eugene Viscusi, MD Hance Clarke, MD Brian Williams, MD	Broadway Sou 6th floor 1.5 credits Majestic Complex
1:15 pm 1:30 pm 1:45 pm 2:00 pm 2:15 pm 1:15 pm - 1:15 pm 1:35 pm 1:55 pm 2:15 pm	2:45 pm 2:45 pm	Complications After Regional Anesthesia and Surgery Phrenic Nerve Palsy and Interscalene Block Local Anesthetic-Induced Neurotoxicity: New Insights Prevention and Treatment of Post-Mastectomy Pain Prevention and Treatment of Post-Thoracotomy Pain Panel Discussion and Open Forum PS-11b Chronic Pain Parallel Session Complications of Chronic Pain Management and Medico-Legal Cases USA Closed Claims Cases Related to Interventional Pain Management: What Can We USA Mitigating Legal Risks of Medication Management What Can I Do to Protect Myself from Medical Negligence? Panel Discussion and Open Forum PS-11c RA-Acute Pain Parallel Session Innovations in Acute Pain Management: Part I Cannabinoids for Acute Pain	Joseph Neal, MD Andrew Gray, MD Philipp Lirk, MD Michael Andreae, MD Patricia Lavand'homme, MD Moderator: Timothy Deer, MD James Rathmell, MD Richard Rauck, MD John Power Moderator: Eugene Viscusi, MD Hance Clarke, MD	Broadway Sou 6th floor 1.5 credits Majestic Complex







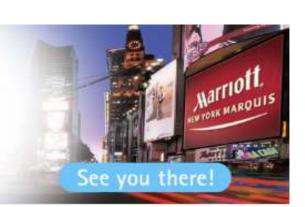
1:15 pm -	2:45 pm	PS-11d Chronic Pain Parallel Session Current Status of Radiofrequency	Moderators: Ricardo Vallejo, MD Amany Ayad, MD	Manhattan 8th floor
1:15 pm	-	Thermal Radiofrequency: Understanding Basic Science to Improve Clinical Outcomes	David Provenzano, MD	1.5 credits
1:30 pm		The Interpretation of Recent Studies on Thermal Radiofrequency for Axial Pain	Steven P. Cohen, MD	
1:45 pm		Update on Radiofrequency for Joint Pain	Carlos Pino, MD	
2:00 pm		Pulsed Radiofrequency: Does it Have a Future?	Jan Van Zundert, MD	
2:15 pm		Panel Discussion and Open Forum		
2:45 pm -	3:15 pm	Break and Refreshments in Foyer		
3:15 pm -	4:45 pm	PS-12a RA-Acute Pain Parallel Session Regional Anesthesia Related Complications and Medico-Legal Issues	Moderator: Joseph Neal, MD	Broadway North 6th floor
3:15 pm		Case 1: A Lawyer's Perspective Part I	John Power	1.5 credits
3:35 pm		Case 2: Nerve Injury after Brachial Plexus Block: A Physician and Expert Witness' Perspective		M®CA
3:55 pm		Case 3: A Lawyer's Perspective Part II	John Power	
4:15 pm		Panel Discussion and Open Forum		
		PS-12b Chronic Pain Parallel Session	Moderator:	Broadway South
3:15 pm -	4:45 pm	Cancer Pain	Sam Eldabe, MD	6th floor
3:15 pm	-	Pharmacological Management of Cancer Pain: From A to Z	Oscar de Leon-Casasola, MD	1.5 credits
3:35 pm		Interventional Treatment for Cancer Pain (Nonneuromodulation)	Amitabh Gulati, MD	
3:55 pm		Interventional Treatment for Cancer Pain (Neuromodulation and Intrathecal Techniques)	Pasquale De Negri, MD	
4:15 pm		Panel Discussion and Open Forum		
3:15 pm -	4:45 pm	PS-12c RA-Acute Pain Parallel Session Innovation in Acute Pain Medicine: Part II	Moderator: Ezzat Aziz, MD	Majestic Complex
3:15 pm		Emerging Receptors and Targets for Pain Management	Tony Yaksh, MD	1.5 credits
3:30 pm		New Opioid Agents: Sufentanil and Lontophoretic Fentanyl System, Oliceridine	Eugene Viscusi, MD	
3:45 pm		Hypnosis and Other Non-Pharmacological Methods	Geert-Jan van Geffen, MD	
4:00 pm		Percutaneous Peripheral Nerve Stimulation and Cyroanalgesia	Brian Ilfeld, MD	
4:15 pm		Panel Discussion and Open Forum		
3:15 pm -	4:45 pm	PS-12d Chronic Pain Parallel Session Marijuana and Cannabinoids in Chronic Pain Management	Moderator: Richard Rosenquist, MD	Manhattan 8th floor
3:15 pm		Efficacy of Cannaboids for Chronic Pain	Daniel Clauw, MD	1.5 credits
3:30 pm		Marijuana and Health Related Adverse Effects	Mark Wallace, MD	M∜CA
3:45 pm		Medical Cannabis: The Europeans Perspective	Christophe Perruchoud, MD	
4:00 pm		Marijuana Legalization: Impact on Physicians and Public Health	Hance Clarke, MD	
4:15 pm		Panel Discussion and Open Forum		
4:45 pm -	7:00 pm	Session Adjournment and Free Time		
7:00 pm -	10:00 pm	Special Event World Congress Celebration Overlooking Times Square		Lounge 8th floor

Problem Based Learning Discussions (PBLD) Thursday, April 19, 2018, 12:00-1:00 pm (open to all, tickets \$90, includes lunch)

nhattan (8	Bth floor)		1 credit ea
PBLD-01	Ambulatory Breast Surgery: When to Do Paravertebral Block vs. PEC / Serratus Plane	Geert-Jan van Geffen, MD	
PBLD-02	TAP, Quadratus Lumborum, Erector Spinae Plane, and Retrolaminar Block: When and Why	Ki-Jinn Chin, MD	
PBLD-03	Worthwhile Adjuvants to Local Anesthetics in Peripheral and Neuraxial Blocks	Susilo Chandra, MD	
PBLD-04	Nerve Injury After Regional Anesthesia: Best Practices and Medical and Legal Perspectives	David Hardman, MD	
PBLD-05	Tough Choices: Regional or General Anesthesia for Fractured Hip Surgery	Mark Neuman, MD	M®C
PBLD-06	Persistent Headache After One Epidural Blood Patch: What to do Next?	Marc Van de Velde, MD	НА
PBLD-07	Managing Acute Pain Challenges in Pediatric Patients	Charles Berde, MD	M ® CA
PBLD-08	Don't Block that Patient: He May Develop a Compartment Syndrome!	Fernando Altermatt, MD	
PBLD-09	Strategies to Leverage Your Value Within the Healthcare System	Alexandru Visan, MD	M © C.
PBLD-10	Radiofrequency for Low Back Pain	Jan Van Zundert, MD	
erty (8th 1	floor)		1 credit ea
PBLD-11	Spinal Cord Stimulation Programming: What the Clinician Needs to Know	Steven Falowski, MD	Neu
PBLD-12	Medical Marijuana and Pain Practice	Mark Wallace, MD	
PBLD-13	Cancer Pain: Incorporating Neurolytic Blocks into Your Practice	Daniel Warren, MD	
PBLD-14	Opioids: Appropriate Management and Risk Mitigation Strategies	Carlos Pino, MD	
PBLD-15	Regenerative Medicine: Evidence, Patient Selection, and Practice Incorporation	Brian Cole, MD	
PBLD-16	TAP, Quadratus Lumborum, Erector Spinae Plane, and Retrolaminar Block: When and Why	Sanjib Adhikary, MD	



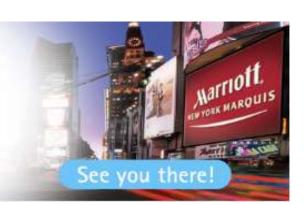




		Workshops Thursday, April 19 (additional fee, physicians only)	9, 2018		
7:45 am -	12:00 pm	Morning Workshop Coordinators	Rajnish Gupta, MD; Carlos Pino, MD		
7:45 am -	9:45 am	WS-01 Chronic Pain Hands-On Fluoroscopy Workshop (cadaver) (\$265) Basic Pain Management Injections in the Spine	Lead: Steven P. Cohen, MD		Astor B 7th floor 2 credits
		Cervical: Epidural, Medial Branch Blocks; Facets Thoracic: Epidural, Medial Branch Blocks; Facets Lumbar: Epidural, TFESI, Medial Branch Blocks, Facets, and SI joint injections	Faculty: Aaron Calodney, MD Todd Sitzman, MD		Z credits
7:45 am -	9:45 am	WS-02 Chronic Pain Hands-On Ultrasound Workshop (live model) (\$265) Basic Ultrasound-Guided Pain Procedures Stellate, TAP Blocks/Ilioinguinal, Piriformis, Intercostal Nerve Blocks	Lead: Dmitri Souza, MD Faculty:		Columbia 7th floor 2 credits
			Urs Eichenberger, MD Hariharan Shankar, MD		
8:00 am -	9:30 am	WS-49 RA-Acute Pain Interactive Demonstration Workshop (\$155) Uncommon Blocks iPACK Infiltration Block of the Knee, Lateral Femoral Cutaneous Nerve, Obturator	Lead: Sanjay Sinha, MD Faculty:		Soho (Soho Complex) 7th floor 1.5 credits
		Ophthalmic, Cervical Plexus	Sanjib Adhikary, MD Chandra Kumar, MD		1.5 Credits
8:00 am -	9:30 am	WS-03 RA-Acute Pain Interactive Demonstration Workshop (\$155) Everyday Peripheral Nerve Blocks for Upper Limb Surgery (Ultrasound-Based) Above/Below Clavicle, Indications, Patient Selection, Side Effects, and Complications	Lead: Richard Brull, MD Faculty: Jaime Baratta, MD Timur Ozelsel, MD	Associate Faculty: Steven Porter, MD	Chelsea (Empire Complex 7th floor 1.5 credits
8:00 am -	9:30 am	WS-04 RA-Acute Pain Interactive Demonstration Workshop (\$155) Everyday Peripheral Nerve Blocks for Breast and Chest Wall Surgery (Ultrasound-Based)	Lead: Danielle Ludwin, MD		Empire (Empire Complex 7th floor
		Thoracic PVB, PECS, Serratus Plane Blocks Optional: Erector Spinae Plane Block	Faculty: Michael Barrington, MD Meg Rosenblatt, MD	Associate Faculty: Leslie Thomas, MD	1.5 credits
8:00 am -	11:45 am	WS-05 RA-Acute Pain Half-Day Comprehensive Workshop (\$395) Lower Extremity Blocks	Lead: Derek Dillane, MD		Gramercy (Soho Complex) 7th floor
		Single Shot and Catheter Comprehensive Review of All Blocks of the Lower Extremity Lumbar Plexus and Its Branches Sciatic Nerve and Its Branches Blocks for the Hip, Knee, Ankle, and Foot	Faculty: Andrew Gray, MD Brian Harrington, MD Xavier Sala-Blanch, MD Robert Weller, MD		3.75 credits
8:00 am -	11:45 am	Indications, Patient Selection, Technique, Side Effects, and Complications WS-06 RA-Acute Pain Half-Day Cadaver Workshop (\$395) Needling Hands-On Practice	Lead: Jean-Louis Horn, MD		Astor A 7th floor
	TI. TO UIII	Single Shot and Catheter Upper/Lower Extremity Blocks, Truncal Blocks, Catheter Techniques	Faculty: Fernando Altermatt, MD Andres Missair, MD Jovan Popovic, MD		3.75 credits
10:00 am -	12:00 pm	WS-07 Chronic Pain Hands-On Fluoroscopy Workshop (cadaver) (\$265) Basic Neuromodulation Lumbar SCS, Cervical SCS	Lead: Salim Hayek MD Faculty:	Associate Faculty:	Astor B 7th floor 2 credits
			Jason Pope, MD David Provenzano, MD	Robert Bolash MD Alexios Carayannopoulus, M	
10:00 am -	12:00 pm	WS-08 Chronic Pain Hands-On Ultrasound Workshop (live model) (\$265) Ultrasound for Spine Pain Procedures Epidural/Caudal, SI joint/Piriformis, Thoracic Paravertebral, Medial Branch Blocks	Lead: Samer Narouze, MD, PhD Faculty: Antoun Nader, MD Hariharan Shankar, MD		Columbia 7th floor 2 credits US
10:15 am -	11:45 am	WS-50 RA-Acute Pain Interactive Demonstration Workshop (\$155) Advanced Block Techniques for Shoulder Surgery Superior Trunk, Supraclavicular Nerve, Superficial Cervical Plexus, Suprascapular Nerve,	Lead: Urs Eichenberger, MD Faculty:		Soho (Soho Complex) 7th floor 1.5 credits
		Axillary Nerve, Indications, Patient Selection, Side Effects, and Complications	Philippe Macaire, MD Geert-Jan Van Geffen, MD		
10:15 am -	11:45 am	WS-09 RA-Acute Pain Interactive Demonstration Workshop (\$155) Introductory Ultrasound of the Spine	Lead: Stuart Grant, MD		Chelsea (Empire Complex 7th floor
		Lumbar Spine: Transverse and Longitudinal Views	Faculty: Jaime Baratta, MD James Green, MD	Associate Faculty: Arthur Atchabahian, MD	1.5 credits
10:15 am -	11:45 am	WS-10 RA-Acute Pain Interactive Demonstration Workshop (\$155) Everyday Peripheral Nerve Blocks for Upper Limb Surgery (Nerve-Stimulation Based)	Lead: William Urmey, MD		Empire (Empire Complex 7th floor
		Above/Below Clavicle, Indications, Patient Selection, Side Effects, and Complications	Faculty: Alain Borgeat, MD		1.5 credits
1:15 pm -	5:00 pm	Afternoon Workshop Coordinators	Sandra Kopp, MD; Andrea Nicol, MD		
1:15 pm -	2:45 pm	WS-51 RA-Acute Pain Interactive Demonstration Workshop (\$155) Introductory Ultrasound of the Spine Lumbar Spine: Transverse and Longitudinal Views	Lead: Stuart Grant, MD Faculty: Jaime Baratta, MD		Chelsea (Empire Complex 7th floor 1.5 credits
		WO 40 DA A D	James Green, MD		Empire
1:15 pm -	2:45 pm	WS-12 RA-Acute Pain Interactive Demonstration Workshop (\$155) Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based) Branches of the Lumbar Plexus (Femoral, Adductor Canal) Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle)	Lead: Meg Rosenblatt, MD Faculty: Minerya P. Calimag, MD	Associate Faculty: Steven Porter, MD	7th floor 1.5 credits
		Indications, Patient Selection, Side Effects, and Complications	Minerva P. Calimag, MD Ban Tsui, MD	э.еvеп РОПЕГ, МО	US







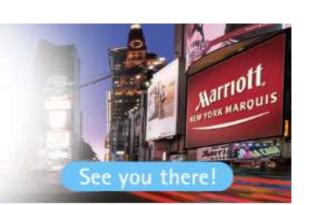
1:15 pm - 5:00 pm Upper Extremity Blocks Edward Mariano, MD Single Shot and Catheter Faculty: Comprehensive Review of the Blocks of the Upper Extremity Jean-Louis Horn, MD Block at the Roots, Block at the Trunks and Divisions Rebecca Johnson, MD Block at the Cords, Peripheral Nerve Blocks (Axillary and Distal Approaches) Colin McCartney, MBBS, PhD Indications, Patient Selection, Side Effects, and Complications Steven Orebaugh, MD WS-14 RA-Acute Pain Half-Day Cadaver Workshop (\$395) Lead: Needling Hands-On Practice Rajnish Gupta, MD Single Shot and Catheter Faculty: Associate Faculty: Upper/Lower Extremity Blocks, Truncal Blocks, Catheter Techniques David Hardman, MD WS-15 Chronic Pain Half-Day Fluoroscopy & Ultrasound Workshop (cadaver, live model) (\$395) Lead: US-15 pm - 5:00 pm Interventional Cancer Pain Management Oscar de Leon-Casasola, MD	Soho Complex) 7th floor 3.75 credits Astor A 7th floor 3.75 credits
Single Shot and Catheter Comprehensive Review of the Blocks of the Upper Extremity Block at the Roots, Block at the Trunks and Divisions Rebecca Johnson, MD Block at the Cords, Peripheral Nerve Blocks (Axillary and Distal Approaches) Indications, Patient Selection, Side Effects, and Complications Steven Orebaugh, MD Amit Pawa, MD WS-14 RA-Acute Pain Half-Day Cadaver Workshop (\$395) Lead: Rajnish Gupta, MD WS-16 Chronic Pain Half-Day Cadaver Workshop (\$395) Lead: Upper/Lower Extremity Blocks, Truncal Blocks, Catheter Techniques Barys Ihnatsenka, MD WS-15 Chronic Pain Half-Day Fluoroscopy & Ultrasound Workshop (cadaver, live model) (\$395) Lead: US-350 pm WS-15 Chronic Pain Half-Day Fluoroscopy & Ultrasound Workshop (cadaver, live model) (\$395) Lead: Usar de Leon-Casasola, MD Fluoro Neurolytic Blocks, Intrathecal Pumps, Vertebroplasty/Kyphoplasty, Ultrasound-Guided Neurolytic Blocks Annitabh Gulati, MD Antoun Nader, MD WS-52 Chronic Pain Hands-On Ultrasound Workshop (live model) (\$265) Lead: UWS-52 Chronic Pain Hands-On Ultrasound Workshop (live model) (\$265) Stellate, TAP Blocks/liloinguinal, Piriformis, Intercostal Nerve Blocks Faculty: Urs Eichenberger, MD Hanharan Shankar, MD Hanharan Shankar, MD Hanharan Shankar, MD	3.75 credits Astor A 7th floor
Comprehensive Review of the Blocks of the Upper Extremity Block at the Roots, Block at the Trunks and Divisions Rebecca Johnson, MD Block at the Cords, Peripheral Nerve Blocks (Axillary and Distal Approaches) Colin McCartnery, MBBS, PhD Indications, Patient Selection, Side Effects, and Complications 8 WS-14 RA-Acutre Pain Half-Day Cadaver Workshop (\$395) Lead: Rajnish Gupta, MD Rebecca Johnson, MD River More Amit Pawa, MD WS-14 RA-Acutre Pain Half-Day Cadaver Workshop (\$395) Reedling Hands-On Practice Rajnish Gupta, MD Reedling Hands-On Practice Rajnish Gupta, MD Responsible Shot and Catheter Upper/Lower Extremity Blocks, Catheter Techniques David Hardman, MD Rarys Ihnatsenka, MD WS-15 Chronic Pain Half-Day Fluoroscopy & Ultrasound Workshop (cadaver, live model) (\$395) Interventional Cancer Pain Management Single Shot and Cancer Pain Management Ultrasound-Guided Neurolytic Blocks Rajnish Gupta, MD Annitabh Gulati, MD Review Vorenkamp, MD Stellate, TAP Blocks/lioinguinal, Piriformis, Intercostal Nerve Blocks Faculty: Urs Eichenberger, MD Hariharan Shankar, MD Hariharan Shankar, MD Hariharan Shankar, MD	Astor A 7th floor
Block at the Roots, Block at the Trunks and Divisions Block at the Roots, Peripheral Nerve Blocks (Axillary and Distal Approaches) Indications, Patient Selection, Side Effects, and Complications Indications, Patient Selection, Side Effects, and Complications Steven Orebaugh, MD Amit Pawa, MD Single Shot and Catheter Upper/Lower Extremity Blocks, Truncal Blocks, Catheter Techniques Single Shot and Catheter Upper/Lower Extremity Blocks, Truncal Blocks, Catheter Techniques WS-15 Chronic Pain Half-Day Fluoroscopy & Ultrasound Workshop (eadaver, live model) (s395) Interventional Cancer Pain Management Fluoro Neurolytic Blocks, Intrathecal Pumps, Vertebroplasty/Kyphoplasty, Ultrasound-Guided Neurolytic Blocks Amitabh Gulati, MD Antoun Nader, MD WS-52 Chronic Pain Hands-On Ultrasound Workshop (live model) (S265) Lead: WS-52 Chronic Pain Hands-On Ultrasound Workshop (live model) (S265) Stellate, TAP Blocks/Ilioinguinal, Piriformis, Intercostal Nerve Blocks Faculty: Urs Eichenberger, MD Hariharan Shankar, MD	7th floor
Block at the Cords, Peripheral Nerve Blocks (Axillary and Distal Approaches) Indications, Patient Selection, Side Effects, and Complications New MD WS-14 RA-Acute Pain Half-Day Cadaver Workshop (\$395) Needling Hands-On Practice Single Shot and Catheter Upper/Lower Extremity Blocks, Truncal Blocks, Catheter Techniques David Hardman, MD WS-15 Chronic Pain Half-Day Fluoroscopy & Ultrasound Workshop (cadaver, live model) (\$395) Interventional Cancer Pain Management Ficulty: Associate Faculty: WS-15 Chronic Pain Half-Day Fluoroscopy & Ultrasound Workshop (cadaver, live model) (\$395) Interventional Cancer Pain Management Fluoro Neurolytic Blocks, Intrathecal Pumps, Vertebroplasty/Kyphoplasty, Ultrasound-Guided Neurolytic Blocks Antoun Nader, MD Antitoth Gulati, MD Antoun Nader, MD Kevin Vorenkamp, MD WS-52 Chronic Pain Hands-On Ultrasound Workshop (live model) (\$265) Elaci Basic Ultrasound-Guided Pain Procedures WS-52 Chronic Pain Hands-On Ultrasound Workshop (live model) (\$265) Elaci Urs Eichenberger, MD Hariharan Shankar, MD	7th floor
Indications, Patient Selection, Side Effects, and Complications Amit Pawa, MD Amit Pawa, MD WS-14 RA-Acute Pain Half-Day Cadaver Workshop (\$395) Lead: Single Shot and Catheter Upper/Lower Extremity Blocks, Truncal Blocks, Catheter Techniques David Hardman, MD Barys Ihnatsenka, MD WS-15 Chronic Pain Half-Day Fluoroscopy & Ultrasound Workshop (cadaver, live model) (\$395) Interventional Cancer Pain Management Fluoro Neurolytic Blocks, Intrathecal Pumps, Vertebroplasty/Kyphoplasty, Ultrasound-Guided Neurolytic Blocks Antioun Nader, MD Antoun Nader, MD Kevin Vorenkamp, MD WS-52 Chronic Pain Hands-On Ultrasound Workshop (live model) (\$265) Basic Ultrasound-Guided Pain Procedures Stellate, TAP Blocks/lioinguinal, Piriformis, Intercostal Nerve Blocks Urs Eichenberger, MD Hariharan Shankar, MD	7th floor
Amit Pawa, MD WS-14 RA-Acute Pain Half-Day Cadaver Workshop (\$395) Lead: Rajnish Gupta, MD Single Shot and Catheter Upper/Lower Extremity Blocks, Truncal Blocks, Catheter Techniques David Hardman, MD Barys Ihnatsenka, MD WS-15 Chronic Pain Half-Day Fluoroscopy & Ultrasound Workshop (cadaver, live model) (\$395) Lead: (\$395) Interventional Cancer Pain Management Fluoro Neurolytic Blocks, Intrathecal Pumps, Vertebroplasty/Kyphoplasty, Ultrasound-Guided Neurolytic Blocks Amitabh Gulati, MD Antoun Nader, MD WS-52 Chronic Pain Hands-On Ultrasound Workshop (live model) (\$265) Basic Ultrasound-Guided Pain Procedures Stellate, TAP Blocks/Ilioinguinal, Piriformis, Intercostal Nerve Blocks Faculty: Lead: Amitabh Gulati, MD Artoun Nader, MD Kevin Vorenkamp, MD Stellate, TAP Blocks/Ilioinguinal, Piriformis, Intercostal Nerve Blocks Faculty: Urs Eichenberger, MD Hariharan Shankar, MD	7th floor
1:15 pm - 5:00 pm WS-14 RA-Acute Pain Half-Day Cadaver Workshop (\$395) Lead: Needling Hands-On Practice Rajnish Gupta, MD Single Shot and Catheter Upper/Lower Extremity Blocks, Truncal Blocks, Catheter Techniques David Hardman, MD Christina Jeng, MD Barys Ihnatsenka, MD WS-15 Chronic Pain Half-Day Fluoroscopy & Ultrasound Workshop (cadaver, live model) (\$395) Interventional Cancer Pain Management Oscar de Leon-Casasola, MD Fluoro Neurolytic Blocks, Intrathecal Pumps, Vertebroplasty/Kyphoplasty, Faculty: Associate Faculty: Ultrasound-Guided Neurolytic Blocks Amitabh Gulati, MD Antoun Nader, MD Kevin Vorenkamp, MD WS-52 Chronic Pain Hands-On Ultrasound Workshop (live model) (\$265) Lead: Dmitri Souza, MD Stellate, TAP Blocks/llioinguinal, Piriformis, Intercostal Nerve Blocks Faculty: Urs Eichenberger, MD Hariharan Shankar, MD	7th floor
1:15 pm - S:00 pm Needling Hands-On Practice Rajnish Gupta, MD Single Shot and Catheter Faculty: Associate Faculty: Associate Faculty: David Hardman, MD Christina Jeng, MD Sarys Innatsenka, MD Early Innatsenka, MD Lead: Sociate Faculty: Cash Chronic Pain Half-Day Fluoroscopy & Ultrasound Workshop (cadaver, live model) (\$395) Lead: Oscar de Leon-Casasola, MD Hong Vo, MD Hong Vo, MD Hong Vo, MD Associate Faculty: Associate Faculty: Associate Faculty: Associate Faculty: Annual Mainth Gulati, MD Annual Macher, MD Kevin Vorenkamp, MD Kevin Vorenkamp, MD Stellate, TAP Blocks/Ilioinguinal, Piriformis, Intercostal Nerve Blocks Faculty: Urs Eichenberger, MD Hariharan Shankar, MD Hariharan Shankar, MD Hariharan Shankar, MD Hariharan Shankar, MD	7th floor
Upper/Lower Extremity Blocks, Truncal Blocks, Catheter Techniques Barys Ihnatsenka, MD WS-15 Chronic Pain Half-Day Fluoroscopy & Ultrasound Workshop (cadaver, live model) (\$395) Lead: Oscar de Leon-Casasola, MD Fluoro Neurolytic Blocks, Intrathecal Pumps, Vertebroplasty/Kyphoplasty, Ultrasound-Guided Neurolytic Blocks Pasquale De Negri, MD Amitabh Gulati, MD Antoun Nader, MD Kevin Vorenkamp, MD WS-52 Chronic Pain Hands-On Ultrasound Workshop (live model) (\$265) Basic Ultrasound-Guided Pain Procedures Stellate, TAP Blocks/Ilioinguinal, Piriformis, Intercostal Nerve Blocks David Hardman, MD Christina Jeng, MD Lead: Oscar de Leon-Casasola, MD Associate Faculty: Pasquale De Negri, MD Antoun Nader, MD Kevin Vorenkamp, MD WS-52 Chronic Pain Hands-On Ultrasound Workshop (live model) (\$265) Lead: Dmitri Souza, MD Stellate, TAP Blocks/Ilioinguinal, Piriformis, Intercostal Nerve Blocks Faculty: Urs Eichenberger, MD Hariharan Shankar, MD	3.75 credits
Barys Ihnatsenka, MD WS-15 Chronic Pain Half-Day Fluoroscopy & Ultrasound Workshop (cadaver, live model) (\$395) Interventional Cancer Pain Management Fluoro Neurolytic Blocks, Intrathecal Pumps, Vertebroplasty/Kyphoplasty, Ultrasound-Guided Neurolytic Blocks Pasquale De Negri, MD Hong Vo, MD Antoun Nader, MD Kevin Vorenkamp, MD WS-52 Chronic Pain Hands-On Ultrasound Workshop (live model) (\$265) Lead: Dmitri Souza, MD Stellate, TAP Blocks/llioinguinal, Piriformis, Intercostal Nerve Blocks Faculty: Associate Faculty: Associate Faculty: Associate Faculty: Associate Faculty: Associate Faculty: Lead: Darital Stellate, MD Kevin Vorenkamp, MD WS-52 Chronic Pain Hands-On Ultrasound Workshop (live model) (\$265) Stellate, TAP Blocks/llioinguinal, Piriformis, Intercostal Nerve Blocks Faculty: Urs Eichenberger, MD Hariharan Shankar, MD	
WS-15 Chronic Pain Half-Day Fluoroscopy & Ultrasound Workshop (cadaver, live model) (\$395) Interventional Cancer Pain Management Fluoro Neurolytic Blocks, Intrathecal Pumps, Vertebroplasty/Kyphoplasty, Ultrasound-Guided Neurolytic Blocks Associate Faculty: Pasquale De Negri, MD Antoun Nader, MD Antoun Nader, MD Kevin Vorenkamp, MD WS-52 Chronic Pain Hands-On Ultrasound Workshop (live model) (\$265) Basic Ultrasound-Guided Pain Procedures Stellate, TAP Blocks/Ilioinguinal, Piriformis, Intercostal Nerve Blocks Faculty: Urs Eichenberger, MD Hariharan Shankar, MD	
1:15 pm - 5:00 pm Interventional Cancer Pain Management Oscar de Leon-Casasola, MD Fluoro Neurolytic Blocks, Intrathecal Pumps, Vertebroplasty/Kyphoplasty, Faculty: Associate Faculty: Ultrasound-Guided Neurolytic Blocks Pasquale De Negri, MD Hong Vo, MD Amitabh Gulati, MD Antoun Nader, MD Kevin Vorenkamp, MD WS-52 Chronic Pain Hands-On Ultrasound Workshop (live model) (\$265) Lead: Basic Ultrasound-Guided Pain Procedures Dmitri Souza, MD Stellate, TAP Blocks/Ilioinguinal, Piriformis, Intercostal Nerve Blocks Urs Eichenberger, MD Hariharan Shankar, MD	
Fluoro Neurolytic Blocks, Intrathecal Pumps, Vertebroplasty/Kyphoplasty, Ultrasound-Guided Neurolytic Blocks Pasquale De Negri, MD Amitabh Gulati, MD Antoun Nader, MD Kevin Vorenkamp, MD WS-52 Chronic Pain Hands-On Ultrasound Workshop (live model) (\$265) Basic Ultrasound-Guided Pain Procedures Stellate, TAP Blocks/Ilioinguinal, Piriformis, Intercostal Nerve Blocks Urs Eichenberger, MD Hariharan Shankar, MD	Astor B
Ultrasound-Guided Neurolytic Blocks Pasquale De Negri, MD Amitabh Gulati, MD Antoun Nader, MD Kevin Vorenkamp, MD WS-52 Chronic Pain Hands-On Ultrasound Workshop (live model) (\$265) Basic Ultrasound-Guided Pain Procedures Dmitri Souza, MD Stellate, TAP Blocks/Ilioinguinal, Piriformis, Intercostal Nerve Blocks Urs Eichenberger, MD Hariharan Shankar, MD	7th floor
Amitabh Gulati, MD Antoun Nader, MD Kevin Vorenkamp, MD WS-52 Chronic Pain Hands-On Ultrasound Workshop (live model) (\$265) Basic Ultrasound-Guided Pain Procedures Dmitri Souza, MD Stellate, TAP Blocks/Ilioinguinal, Piriformis, Intercostal Nerve Blocks Urs Eichenberger, MD Hariharan Shankar, MD	3.75 credits
Antoun Nader, MD Kevin Vorenkamp, MD WS-52 Chronic Pain Hands-On Ultrasound Workshop (live model) (\$265) Basic Ultrasound-Guided Pain Procedures Stellate, TAP Blocks/Ilioinguinal, Piriformis, Intercostal Nerve Blocks Urs Eichenberger, MD Hariharan Shankar, MD	
Kevin Vorenkamp, MD WS-52 Chronic Pain Hands-On Ultrasound Workshop (live model) (\$265) Lead: Dmitri Souza, MD Stellate, TAP Blocks/Ilioinguinal, Piriformis, Intercostal Nerve Blocks Urs Eichenberger, MD Hariharan Shankar, MD	
1:15 pm - 3:15 pm Basic Ultrasound-Guided Pain Procedures Stellate, TAP Blocks/Ilioinguinal, Piriformis, Intercostal Nerve Blocks Urs Eichenberger, MD Hariharan Shankar, MD	
1:15 pm - 3:15 pm Basic Ultrasound-Guided Pain Procedures Dmitri Souza, MD Stellate, TAP Blocks/Ilioinguinal, Piriformis, Intercostal Nerve Blocks Faculty: Urs Eichenberger, MD Hariharan Shankar, MD	***************************************
Urs Eichenberger, MD Hariharan Shankar, MD	Columbia 7th floor
Hariharan Shankar, MD	2 credits
WS-16 RA-Acute Pain Interactive Demonstration Workshop (\$155)	
	Chelsea
Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Nerve-Stimulation Lead: (Er	Empire Complex)
3:30 pm - 5:00 pm Based) Terese Horlocker, MD	7th floor
Branches of the Lumbar Plexus (femoral, saphenous, adductor canal) Faculty:	1.5 credits
Branches of the Sciatic Nerve (popliteal sciatic, ankle) Axel Sauter, MD	
Indications, Patient Selection, Side Effects, and Complications	,00000000000000000000000000000000000000
WS-17 RA-Acute Pain Interactive Demonstration Workshop (\$155) Lead: (Er	Empire Empire Complex)
3:30 pm - 5:00 pm Uncommon Blocks Sanjay Sinha, MD	7th floor
iPACK Infiltration Block of the Knee, Lateral Femoral Cutaneous Nerve, Obturator Faculty: Associate Faculty	1.5 credits
Ophthalmic, Cervical Plexus Eric Albrecht, MD Leslie Thomas, MD	\$0000000000000000000000000000000000000
Chandra Kumar, MD	
	~~~~~

3:30 pm -	5:00 pm	WS-17 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Uncommon Blocks  iPACK Infiltration Block of the Knee, Lateral Femoral Cutaneous Nerve, Obturator	Lead: Sanjay Sinha, MD Faculty:	Associate Equility	Empire (Empire Complex) 7th floor 1.5 credits
		Ophthalmic, Cervical Plexus	Eric Albrecht, MD	Associate Faculty Leslie Thomas, MD	1.5 credits
			Chandra Kumar, MD	Loono Tromao, MD	
		Workshop			
		Friday, April 20	. 2018		
		(additional fee, physicians			
8:00 am -	12:15 pm	Morning Workshop Coordinators	Nabil Elkassabany, MD; Kevin Vore	enkamp, MD	
					Soho
8:00 am -	11:00 am	WS-18 RA-Acute Pain Half-Day Simulation Workshop (\$195) Crisis Management for the Regional Anesthesiologist	Lead: T. Kyle Harrison, MD		(Soho Complex) 7th floor
		High-Fidelity Simulation Setting	Faculty:		3 credits
		Diagnose and Manage Acute Crisis in the Setting of Regional Anesthesia Small Group Hands-On Practice and Discussion	Cynthia Shum, RN, BScN, Med Ankeet Udani, MD		M@CA`
		omail Group Hands-Off Tactice and Discussion	Guy Weinberg, MD		
8:00 am -	9:30 am	WS-53 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Abdominal Wall Surgery (Ultrasound-Base	Lead: Danielle Ludwin, MD		Chelsea (Empire Complex) 7th floor
		Quadratus Lumborum Blocks (Lateral, Posterior & Anterior), Ilioinguinal, Iliohypogastric,	Faculty:	Associate Faculty:	1.5 credits
		Rectus Sheath Blocks	Sanjib Adhikary, MD	Yan Lai, MD	US
000000000000000000000000000000000000000		Optional: Erector Spinae Plane Block	Timur Ozelsel, MD		00
					Empire
		WS-19 RA-Acute Pain Interactive Demonstration Workshop (\$155)	Lead:		(Empire Complex)
8:00 am -	9:30 am	Ultrasound Diagnosis of Pneumothorax and Diaphragmatic Paresis	Jan Boublik, MD		7th floor
		Lung Ultrasound: Diagnosis of Pneumothorax, Ultrasound of the Diaphragm,	Faculty:		1.5 credits
		Gastric Ultrasound	Vincent Chan, MD Richelle Kruisselbrink, MD		POC POC
			Michelle Muisselbillik, Mib		
		WS-20 RA-Acute Pain Hands-On Workshop (\$265)	Lead:		Gramercy (Soho Complex)
8:00 am -	10:00 am	High-Fidelity Simulator for Thoracic Blocks	Barys Ihnatsenka, MD		7th floor
		Thoracic Epidurals, Thoracic PVBs, Intercostal Blocks	Faculty:	Associate Faculty:	2 credits
			Michael Andreae, MD	Linda Le-Wendling, MD	M@CA`
				Yury Zasimovich, MD	
000000000000000000000000000000000000000		WS-21 RA-Acute Pain Half-Day Cadaver Workshop (\$395)	Lead:		Astor A
8:00 am -	11:45 am	Needling Hands-On Practice	Steven Orebaugh, MD		7th floor
		Single Shot and Catheter	Faculty:	Associate Faculty:	3.75 credits
		Upper/Lower Extremity Blocks, Truncal Blocks, Catheter Techniques	Andrew Gray, MD Axel Sauter, MD	Arthur Atchabahian, MD	
00000000000000000000000000000000000000	0004000 0004000400040004000400040004000		Maria Isabel Vasquez, MD		
			, , , , , , , , , , , , , , , , , , , ,		
		WS-22 Chronic Pain Hands-On Fluoroscopy & Ultrasound Workshop (cadaver, live mod	• 1		
8:00 am -	10:00 am	(\$265) Advanced Head and Neck Injections	Lead: Dmitri Souza, MD		Astor B 7th floor
6.00 aiii -	10.00 aiii	Advanced nead and Neck Injections	Faculty:		2 credits
			Maxim Eckmann, MD		Zorodio
			Carlos Pino, MD		
000000000000000000000000000000000000000		WS-23 Chronic Pain Half-Day Illtracound Warkshap (live model) (\$205)	Lead:		Columbia
8:00 am -	11:45 am	WS-23 Chronic Pain Half-Day Ultrasound Workshop (live model) (\$395)  MSK Ultrasound: Shoulder, Hip, Knee, and Ankle	Lead: Philip Peng, MD		7th floor
			Faculty:	Associate Faculty:	3.75 credits
			Anuj Bhatia, MD	Maged Guirguis, MD	US-
000000000000000000000000000000000000000	000000000000000000000000000000000000000		Antoun Nader, MD	Hong Vo, MD	
			Levon Nazarian, MD		
000000000000000000000000000000000000000					Chelsea
		WS-24 RA-Acute Pain Interactive Demonstration Workshop (\$155)	Lead:		(Empire Complex)
10:15 am -	11:45 am	Everyday Peripheral Nerve Blocks for Abdominal Wall Surgery (Ultrasound-Base		A	7th floor
		Quadratus Lumborum Blocks (Lateral, Posterior & Anterior), Ilioinguinal, Iliohypogastric, Rectus Sheath Blocks	Faculty: Eric Albrecht, MD	Associate Faculty: Yan Lai, MD	1.5 credits
		Optional: Erector Spinae Plane Block	Timur Ozelsel, MD	ran Lai, IVID	US
		The second secon			
					Empire
40-45	44.45	WS-25 RA-Acute Pain Interactive Demonstration Workshop (\$155)	Lead:		(Empire Complex)
10:15 am -	11:45 am	Advanced Ultrasound Anatomy: Freestyle "Stump the Chump!"  Think you have a question or challenge fit for a master? Bring it!	Bernhard Moriggl, MD Faculty:		7th floor 1.5 credits
		Learn ultrasound anatomy techniques on a very advanced, but very practical, level.	Vincent Chan, MD		
	000000				US



## REGIONAL ANESTHESIA & PAIN MEDICINE ASRA's 43rd Annual Regional Anesthesiology & Acute Pain Medicine Meeting





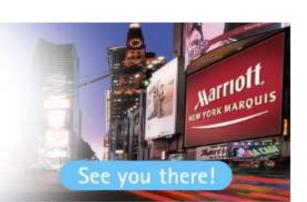
0:15 am -	12:15 pm	High-Fidelity Simulator for Thoracic Blocks	Barys Ihnatsenka, MD		(th tloor
		Thoracic Epidurals, Thoracic PVBs, Intercostal Blocks	Faculty:	Associate Faculty:	7th floor 2 credits
			Michael Andreae, MD	Linda Le-Wendling, MD Yury Zasimovich, MD	M®CA
NOCCO-000-000-000-000-000-000-000-000-000		WS-27 Chronic Pain Hands-On Fluoroscopy Workshop (cadaver) (\$265)	Lead:		Astor B
:15 am -	12:15 pm	Intradiscal Techniques: Discography, Biacuplasty	Leonardo Kapural, MD Faculty:		7th floor 2 credits
			Aaron Calodney, MD		
15 pm -	5:00 pm	Afternoon Workshop Coordinators	Jaime Baratta, MD; Carlos Pino, MD		
		WS-28 RA-Acute Pain Half-Day Simulation Workshop (\$195)	Lead:		Soho (Soho Complex
:15 pm -	4:15 pm	Crisis Management for the Regional Anesthesiologist High-Fidelity Simulation Setting	T. Kyle Harrison, MD Faculty:		7th floor 3 credits
		Diagnose and Manage Acute Crisis in the Setting of Regional Anesthesia	Cynthia Shum, RN, BScN, Med		M <b></b> CA  CA  CA  CA  CA  CA  CA  CA  CA  C
		Small Group Hands-On Practice and Discussion	Ankeet Udani, MD Guy Weinberg, MD		
					Chelsea
:15 pm -	2:45 pm	WS-29 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Advanced Block Techniques for Shoulder Surgery	Lead: Sanjay Sinha, MD		(Empire Complex 7th floor
		Superior Trunk, Supraclavicular Nerve, Superficial Cervical Plexus, Suprascapular Nerve, Axillary Nerve, Indications, Patient Selection, Side Effects, and Complications	Faculty: Derek Dillane, MD	Associate Faculty: Arthur Atchabahian, MD	1.5 credits
			Philippe Macaire, MD		
		WS-30 RA-Acute Pain Interactive Demonstration Workshop (\$155)	Lead:		Empire (Empire Complex
:15 pm -	2:45 pm	Ultrasound for Neuraxial Blockade in Difficult Anatomy  Ultrasound of the Spine in the Orthopedic and Obstetric Patient with Obesity	Anahi Perlas, MD Faculty:	Associate Faculty:	7th floor 1.5 credits
		Scoliosis, Spinal Surgery, and Degenerative Disease	Javier Cubillos, MD	Vivian Ip, MD	US
			Manoj Karmakar, MD, FRCA		
.15	F-00	WS-31 RA-Acute Pain Half-Day Comprehensive Workshop (\$395)	Lead:		Gramercy (Soho Complex)
:15 pm -	5:00 pm	Truncal-Paravertebral Blocks Single-shot and Catheter. Thoracic Epidural, Thoracic Paravertebral, Paraspinal Blocks	Ki-Jinn Chin, MD Faculty:		7th floor 3.75 credits
	000	(Retrolaminar, Erector Spinae), Thoracic Wall Blocks (PECS, Serratus Plane), Abdominal Wall Blocks (TAP, TFP, QLB, Ilioinguinal)	Jens Borglum, MD Hesham Elsharkawy, MD		
		, ,,	Jeffrey Gadsden, MD James Green, MD		
			Adam Niesen, MD		
300000000000000000000000000000000000000		W.S. E.4 Chronia Dain Handa On Eluaros conv. 8 Illtrocound Warkahan (andover) (\$265)	Lead:		Astor A
:15 pm -	3:15 pm	WS-54 Chronic Pain Hands-On Fluoroscopy & Ultrasound Workshop (cadaver) (\$265)  Radiofrequency Ablation	Daniel Warren, MD		7th floor
		Cervical/Thoracic, Lumbar/SI, Knees/Hip	Faculty: Sandeep Amin, MD		2 credits
			Anuj Bhatia, MD Jan Van Zundert, MD		
		WS-33 Chronic Pain Hands-On Ultrasound Workshop (cadaver, live model) (\$265)	Lead:		Astor B
:15 pm -	3:15 pm	Ultrasound-Guided Interventions in Regenerative Medicine	Dmitri Souza, MD Faculty:		7th floor 2 credits
			Antoun Nader, MD		Reg
	000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000		Hariharan Shankar, MD		3
	REALINEAL AND	WS-34 Chronic Pain Half-Day Fluoroscopy & Ultrasound Workshop (cadaver, live model) (\$395)	Lead:		Columbia
:15 pm -	5:00 pm	Advanced Neuromodulation Techniques  DRG/HF, Peripheral, Trigeminal/Head, Lamitrode	Timothy Lubenow, MD Faculty:		7th floor 3.75 credits
			Marc Huntoon, MD Joshua Wellington, MD		Neu
					Chelsea
3:30 pm -	5:00 pm	WS-35 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Advanced Block Techniques for Hip and Knee Surgery	Lead: Rebecca Johnson, MD		(Empire Complex 7th floor
	0.00 p	Lumbar Plexus (Sagittal, Transverse Oblique, & Shamrock Approaches)	Faculty:	Associate Faculty:	1.5 credits
		Proximal Sciatic Approaches (Parasacral, Gluteal, and Subgluteal) Indications, Patient Selection, Side Effects, and Complications	Alain Delbos, MD Jean-Louis Horn, MD	Uma Shastri, MD	
		WC 2C DA Acute Deig Intercetive Demonstration Workshop (\$455)	l and		Empire
:30 pm -	5:00 pm	WS-36 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Ultrasound for Neuraxial Blockade in Difficult Anatomy	Lead: Anahi Perlas, MD		(Empire Complex 7th floor
		Ultrasound of the Spine in the Orthopedic and Obstetric Patient with Obesity Scoliosis, Spinal Surgery, and Degenerative Disease	Faculty: Javier Cubillos, MD	Associate Faculty: Vivian Ip, MD	1.5 credits
000000000000000000000000000000000000000		AV Presentation / Video Demonstration / Hands-On Practice Case Discussion and Recommended Approaches to Challenging Anatomy	Manoj Karmakar, MD, FRCA		US
		, in the second			
30 pm -	5:30 pm	WS-37 Chronic Pain Hands-On Fluoroscopy & Ultrasound Workshop (cadaver) (\$265)  Radiofrequency Ablation	Lead: Leonardo Kapural, MD		Astor A 7th floor
		Cervical/Thoracic, Lumbar/SI, Knees/Hip	Faculty: Sandeep Amin, MD		2 credits
			Anuj Bhatia, MD Jan Van Zundert, MD		
			·		
30 pm -	5:30 pm	WS-55 Chronic Pain Hands-On Ultrasound Workshop (cadaver, live model) (\$265)  Ultrasound-Guided Interventions in Regenerative Medicine	Lead: Dmitri Souza, MD		Astor B 7th floor
			Faculty: Antoun Nader, MD		2 credits
			Hariharan Shankar, MD		Reg
	ì	Workshops			
		Saturday, April 21 (additional fee, physicians only			
00 am -	11:45 am	Morning Workshop Coordinators	Sandra Kopp, MD; Andrea Nicol, MD		
		WS-38 The New York School of Regional Anesthesia (NYSORA) Half-Day Workshop (\$395)	Lead:		Chelsea (Empire Complex
:00 am -	11:45 am	3D Anatomy and Lower Abdominal and Extremity Blocks	Admir Hadzic, MD		7th floor
		Short version of one of NYSORA's most popular workshops. This mini-boutique workshop includes back-to-back didactic sessions, live-model scanning, NYSORA's newest	Michael Akerman, MD		3.75 credits
		instructional animation programs, and 3D anatomy presentations.	Daryl Henshaw, MD Barys Ihnatsenka, MD		
			J. Doug Jaffe, DO		
			Ana López, MD		

Alexandru Visan, MD



## REGIONAL ANESTHESIA & PAIN MEDICINE ANNual Regional Anesthesiology & Acute Pain Medicine Meeting





Gramercy

		WS-39 Chronic Pain Resident/Fellow Workshop (\$30)	Lead:		Gramercy (Soho Complex)
3:00 am -	9:30 am	Fluoroscopy-Guided Injections	Kevin Vorenkamp, MD		7th floor
			Faculty:		1.5 credits
000000000000000000000000000000000000000	0000		Sandeep Amin, MD Amit Gulati, MD		
			Timothy Lubenow, MD		
		WS-40 RA-Acute Pain Resident/Fellow Workshop (\$30)	Lead:		Astor
:00 am -	11:45 am	Regional Anesthesia and Perioperative Point-of-Care Ultrasound	Carrie Guheen, MD		7th floor
:00 am		Lung Assessment	Jan Boublik, MD		3.75 credits
:15 am :30 am		Gastric Assessment FAST	Vincent Chan, MD Stephen Haskins, MD		POO US
:45 am		Break to Hands-On Stations	Stephen Haskins, IVID		
:50 am		Stations 1-9	Faculty:		
		1. Upper Extremity Above	Faraj Ábdallah, MD		
		2. Upper Extremity Below	Jovan Popovic, MD		
		3. Lower Extremity Anterior	Christina Jeng, MD		
		4. Lower Extremity Posterior	Yan Lai, MD		
		5. Truncal 6. Lung	Linda Le-Wendling, MD		
		7. Gastric	Vivian Ip, MD Steven Porter, MD		
		8. FAST	Leslie Thomas, MD		
		9. High-Fidelity Truncal	Yury Zasimovich, MD		
:10 am		Station 1 - 9 Repeat			
):30 am		Station 1 - 9 Repeat			
:50 am		Station 1 - 9 Repeat			
0:10 am		Station 1 - 9 Repeat			
0:30 am 0:50 am		Station 1 - 9 Repeat Station 1 - 9 Repeat			
1:10 am		Station 1 - 9 Repeat Station 1 - 9 Repeat			
1:30 am		Station 1 - 9 Repeat			
		WS-41 RA-Acute Pain Interactive Demonstration Workshop (\$155)			
).00	0.20 -	Everyday Peripheral Nerve Blocks for Breast and Chest Wall Surgery (Ultrasound-			Columbia 7th floor
3:00 am -	9:30 am	Based) Thoracic PVB, PECS, Serratus Plane Blocks	Adam Niesen, MD Faculty:	Associate Faculty:	7th floor 1.5 credits
000000000000000000000000000000000000000	0000 0000000000000000000000000000000000	Optional: Erector Spinae Plane Block	Eric Albrecht, MD	Uma Shastri, MD	1.0 Orcano
					Gramercy
):45 am -	11.45 am	WS-42 Chronic Pain Hands-On Fluoroscopy Workshop (cadaver) (\$265)  Minimally Invasive Lumbar Decompression (MILD)	Lead:		(Soho Complex 7th floor
7:45 am -	11:45 am	Minimally invasive Lumbar Decompression (MILD)	Ricardo Vallejo, MD Faculty:		2 credits
			Aaron Calodney, MD		
			Jay Grider, MD		
		WS-43 RA-Acute Pain Interactive Demonstration Workshop (\$155)	Lead:		Columbia
0:15 am -	11:45 am	Head and Airway Blocks	James Green, MD		7th floor
		Superior Laryngeal and Glossopharyngeal Nerve Blocks, Trans-Tracheal Topicalization,	Faculty:		1.5 credits
		Ophthalmic Block	Ezzat Aziz, MD		
1:15 pm -	4:45 pm	Afternoon Workshop Coordinators	Rajnish Gupta, MD; Maxim Eckm	ann MD	
1:15 pm -	4:45 pm	Alternoon workshop Coordinators	Rajnish Gupta, MD, Maxim Eckin	arin, wid	
					Chelsea
	0.45	WS-11 RA-Acute Pain Interactive Demonstration Workshop (\$155)	Lead:		(Empire Complex
E		Pearls for Pediatric Regional Anesthesia	Karen Boretsky, MD Faculty:		7th floor
1:15 pm -	2:45 pm	Demonstration of the Most Useful Blocks for Pediatric Anesthesia Practice	l acuity.	Associate Faculty:	1.5 credits
1:15 pm -	2:45 pm	Demonstration of the Most Useful Blocks for Pediatric Anesthesia Practice Indications, Patient Selection, Technique, Side Effects, and Complications	Giorgio Ivani, MD	Associate Faculty: Tarun Bhalla, MD	1.5 credits
1:15 pm -	2:45 pm				1.5 credits
1:15 pm -	2:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications		Tarun Bhalla, MD	Ped
1:15 pm -	2:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do	Giorgio Ivani, MD	Tarun Bhalla, MD	Ped Empire
	2:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)		Tarun Bhalla, MD	Ped Empire
	-	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)	Giorgio Ivani, MD  Lead: Meg Rosenblatt, MD  Faculty:	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty:	Ped  Empire (Empire Comple
-	-	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle)	Giorgio Ivani, MD  Lead: Meg Rosenblatt, MD  Faculty: Minerva P. Calimag, MD	Tarun Bhalla, MD Tricia Vecchione, MD	Empire (Empire Comple. 7th floor 1.5 credits
-	-	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)	Giorgio Ivani, MD  Lead: Meg Rosenblatt, MD  Faculty:	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty:	Empire (Empire Comple 7th floor
-	-	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle)	Giorgio Ivani, MD  Lead: Meg Rosenblatt, MD  Faculty: Minerva P. Calimag, MD	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty:	Empire (Empire Comple 7th floor 1.5 credits
:15 pm -	2:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle)  Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)	Giorgio Ivani, MD  Lead: Meg Rosenblatt, MD  Faculty: Minerva P. Calimag, MD  Ban Tsui, MD  Lead:	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty:	Empire (Empire Comple 7th floor 1.5 credits US  Gramercy (Soho Complex
:15 pm -	-	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle)  Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy	Giorgio Ivani, MD  Lead: Meg Rosenblatt, MD  Faculty: Minerva P. Calimag, MD  Ban Tsui, MD  Lead: Carlo Franco, MD	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty:	Empire (Empire Comple 7th floor 1.5 credits US  Gramercy (Soho Complex 7th floor
:15 pm -	2:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle)  Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)	Giorgio Ivani, MD  Lead: Meg Rosenblatt, MD  Faculty: Minerva P. Calimag, MD  Ban Tsui, MD  Lead: Carlo Franco, MD  Faculty:	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty:	Empire (Empire Comple 7th floor 1.5 credits US  Gramercy (Soho Complex
:15 pm -	2:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle)  Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy	Giorgio Ivani, MD  Lead: Meg Rosenblatt, MD  Faculty: Minerva P. Calimag, MD  Ban Tsui, MD  Lead: Carlo Franco, MD	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty:	Empire (Empire Comple 7th floor 1.5 credits US  Gramercy (Soho Complex 7th floor
:15 pm -	2:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle)  Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy	Giorgio Ivani, MD  Lead: Meg Rosenblatt, MD  Faculty: Minerva P. Calimag, MD  Ban Tsui, MD  Lead: Carlo Franco, MD  Faculty: Xavier Sala-Blanch, MD	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty:	Empire (Empire Complex 7th floor 1.5 credits US  Gramercy (Soho Complex 7th floor
:15 pm -	2:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle)  Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)	Giorgio Ivani, MD  Lead: Meg Rosenblatt, MD  Faculty: Minerva P. Calimag, MD  Ban Tsui, MD  Lead: Carlo Franco, MD  Faculty: Xavier Sala-Blanch, MD  Rebecca Johnson, MD  Robert Weller, MD	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty:	Empire (Empire Comple 7th floor 1.5 credits US  Gramercy (Soho Complex 7th floor 3.5 credits
:15 pm -	2:45 pm 4:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle) Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)  WS-45 Chronic Pain Resident/Fellow Workshop (\$30)	Giorgio Ivani, MD  Lead: Meg Rosenblatt, MD  Faculty: Minerva P. Calimag, MD  Ban Tsui, MD  Lead: Carlo Franco, MD  Faculty: Xavier Sala-Blanch, MD  Rebecca Johnson, MD  Robert Weller, MD	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty:	Empire (Empire Complex 7th floor 1.5 credits US  Gramercy (Soho Complex 7th floor
1:15 pm -	2:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle)  Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)	Giorgio Ivani, MD  Lead: Meg Rosenblatt, MD  Faculty: Minerva P. Calimag, MD  Ban Tsui, MD  Lead: Carlo Franco, MD  Faculty: Xavier Sala-Blanch, MD  Rebecca Johnson, MD  Robert Weller, MD	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty:	Empire (Empire Comple) 7th floor 1.5 credits US  Gramercy (Soho Complex 7th floor 3.5 credits
:15 pm -	2:45 pm 4:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle) Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)  WS-45 Chronic Pain Resident/Fellow Workshop (\$30)	Lead: Meg Rosenblatt, MD Faculty: Minerva P. Calimag, MD Ban Tsui, MD  Lead: Carlo Franco, MD Faculty: Xavier Sala-Blanch, MD Rebecca Johnson, MD Robert Weller, MD  Lead: Samer Narouze, MD, PhD	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty: Steven Porter, MD	Empire (Empire Complex 7th floor 1.5 credits US Gramercy (Soho Complex 7th floor 3.5 credits Astor 7th floor 1.5 credits
:15 pm -	2:45 pm 4:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle) Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)  WS-45 Chronic Pain Resident/Fellow Workshop (\$30)	Lead: Meg Rosenblatt, MD Faculty: Minerva P. Calimag, MD Ban Tsui, MD  Lead: Carlo Franco, MD Faculty: Xavier Sala-Blanch, MD Rebecca Johnson, MD Robert Weller, MD  Lead: Samer Narouze, MD, PhD Faculty: Philippe Macaire, MD Bernhard Moriggl, MD	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty: Steven Porter, MD  Associate Faculty: Robert Bolash, MD Maged Guirguis, MD	Empire (Empire Complex 7th floor 1.5 credits US  Gramercy (Soho Complex 7th floor 3.5 credits  Astor 7th floor
:15 pm -	2:45 pm 4:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle) Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)  WS-45 Chronic Pain Resident/Fellow Workshop (\$30)	Lead: Meg Rosenblatt, MD Faculty: Minerva P. Calimag, MD Ban Tsui, MD  Lead: Carlo Franco, MD Faculty: Xavier Sala-Blanch, MD Rebecca Johnson, MD Robert Weller, MD  Lead: Samer Narouze, MD, PhD Faculty: Philippe Macaire, MD Bernhard Moriggl, MD Antoun Nader, MD	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty: Steven Porter, MD  Associate Faculty: Robert Bolash, MD	Empire (Empire Comple: 7th floor 1.5 credits  Gramercy (Soho Complex: 7th floor 3.5 credits  Astor 7th floor 1.5 credits
:15 pm -	2:45 pm 4:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle) Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)  WS-45 Chronic Pain Resident/Fellow Workshop (\$30)	Lead: Meg Rosenblatt, MD Faculty: Minerva P. Calimag, MD Ban Tsui, MD  Lead: Carlo Franco, MD Faculty: Xavier Sala-Blanch, MD Rebecca Johnson, MD Robert Weller, MD  Lead: Samer Narouze, MD, PhD Faculty: Philippe Macaire, MD Bernhard Moriggl, MD Antoun Nader, MD Levon Nazarian, MD	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty: Steven Porter, MD  Associate Faculty: Robert Bolash, MD Maged Guirguis, MD	Empire (Empire Comple: 7th floor 1.5 credits  Gramercy (Soho Complex: 7th floor 3.5 credits  Astor 7th floor 1.5 credits
:15 pm -	2:45 pm 4:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle) Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)  WS-45 Chronic Pain Resident/Fellow Workshop (\$30)	Lead: Meg Rosenblatt, MD Faculty: Minerva P. Calimag, MD Ban Tsui, MD  Lead: Carlo Franco, MD Faculty: Xavier Sala-Blanch, MD Rebecca Johnson, MD Robert Weller, MD  Lead: Samer Narouze, MD, PhD Faculty: Philippe Macaire, MD Bernhard Moriggl, MD Antoun Nader, MD	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty: Steven Porter, MD  Associate Faculty: Robert Bolash, MD Maged Guirguis, MD	Empire (Empire Comple 7th floor 1.5 credits US Gramercy (Soho Complex 7th floor 3.5 credits Astor 7th floor 1.5 credits
:15 pm -	2:45 pm 4:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle) Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)  WS-45 Chronic Pain Resident/Fellow Workshop (\$30)	Lead: Meg Rosenblatt, MD Faculty: Minerva P. Calimag, MD Ban Tsui, MD  Lead: Carlo Franco, MD Faculty: Xavier Sala-Blanch, MD Rebecca Johnson, MD Robert Weller, MD  Lead: Samer Narouze, MD, PhD Faculty: Philippe Macaire, MD Bernhard Moriggl, MD Antoun Nader, MD Levon Nazarian, MD	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty: Steven Porter, MD  Associate Faculty: Robert Bolash, MD Maged Guirguis, MD	Empire (Empire Comple: 7th floor 1.5 credits  Gramercy (Soho Complex: 7th floor 3.5 credits  Astor 7th floor 1.5 credits
:15 pm -	2:45 pm  4:45 pm  2:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based) Branches of the Lumbar Plexus (Femoral, Adductor Canal) Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle) Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)  WS-45 Chronic Pain Resident/Fellow Workshop (\$30)  Ultrasound-Guided Injections  WS-46 RA-Acute Pain Interactive Demonstration Workshop (\$155)  New Blocks: Retrolaminar, Erector Spinae, iPack, Costoclavicular, Retroclavicular	Lead: Meg Rosenblatt, MD Faculty: Minerva P. Calimag, MD Ban Tsui, MD  Lead: Carlo Franco, MD Faculty: Xavier Sala-Blanch, MD Rebecca Johnson, MD Robert Weller, MD  Lead: Samer Narouze, MD, PhD Faculty: Philippe Macaire, MD Bernhard Moriggl, MD Antoun Nader, MD Levon Nazarian, MD Dmitri Souza, MD	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty: Steven Porter, MD  Associate Faculty: Robert Bolash, MD Maged Guirguis, MD	Empire (Empire Complex 7th floor 1.5 credits US Gramercy (Soho Complex 7th floor 3.5 credits    Astor 7th floor 1.5 credits    Columbia
:15 pm -	2:45 pm 4:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based) Branches of the Lumbar Plexus (Femoral, Adductor Canal) Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle) Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)  WS-45 Chronic Pain Resident/Fellow Workshop (\$30)  Ultrasound-Guided Injections  WS-46 RA-Acute Pain Interactive Demonstration Workshop (\$155)	Lead: Meg Rosenblatt, MD Faculty: Minerva P. Calimag, MD Ban Tsui, MD  Lead: Carlo Franco, MD Faculty: Xavier Sala-Blanch, MD Rebecca Johnson, MD Robert Weller, MD  Lead: Samer Narouze, MD, PhD Faculty: Philippe Macaire, MD Bernhard Moriggl, MD Antoun Nader, MD Levon Nazarian, MD Dmitri Souza, MD  Lead: Ki-Jinn Chin, MD	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty: Steven Porter, MD  Associate Faculty: Robert Bolash, MD Maged Guirguis, MD Hong Vo, MD	Empire (Empire Completed The floor 1.5 credits US)  Gramercy (Soho Complex 7th floor 3.5 credits US)  Astor 7th floor 1.5 credits US
:15 pm -	2:45 pm  4:45 pm  2:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based) Branches of the Lumbar Plexus (Femoral, Adductor Canal) Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle) Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)  WS-45 Chronic Pain Resident/Fellow Workshop (\$30)  Ultrasound-Guided Injections  WS-46 RA-Acute Pain Interactive Demonstration Workshop (\$155)  New Blocks: Retrolaminar, Erector Spinae, iPack, Costoclavicular, Retroclavicular	Lead: Meg Rosenblatt, MD Faculty: Minerva P. Calimag, MD Ban Tsui, MD  Lead: Carlo Franco, MD Faculty: Xavier Sala-Blanch, MD Rebecca Johnson, MD Robert Weller, MD  Lead: Samer Narouze, MD, PhD Faculty: Philippe Macaire, MD Bernhard Moriggl, MD Antoun Nader, MD Levon Nazarian, MD Dmitri Souza, MD  Lead: Ki-Jinn Chin, MD Faculty:	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty: Steven Porter, MD  Associate Faculty: Robert Bolash, MD Maged Guirguis, MD Hong Vo, MD  Associate Faculty:	Empire (Empire Complex 7th floor 1.5 credits US Gramercy (Soho Complex 7th floor 3.5 credits    Astor 7th floor 1.5 credits    Columbia
:15 pm -	2:45 pm  4:45 pm  2:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based) Branches of the Lumbar Plexus (Femoral, Adductor Canal) Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle) Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)  WS-45 Chronic Pain Resident/Fellow Workshop (\$30)  Ultrasound-Guided Injections  WS-46 RA-Acute Pain Interactive Demonstration Workshop (\$155)  New Blocks: Retrolaminar, Erector Spinae, iPack, Costoclavicular, Retroclavicular	Lead: Meg Rosenblatt, MD Faculty: Minerva P. Calimag, MD Ban Tsui, MD  Lead: Carlo Franco, MD Faculty: Xavier Sala-Blanch, MD Rebecca Johnson, MD Robert Weller, MD  Lead: Samer Narouze, MD, PhD Faculty: Philippe Macaire, MD Bernhard Moriggl, MD Antoun Nader, MD Levon Nazarian, MD Dmitri Souza, MD  Lead: Ki-Jinn Chin, MD Faculty: Sanjib Adhikary, MD	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty: Steven Porter, MD  Associate Faculty: Robert Bolash, MD Maged Guirguis, MD Hong Vo, MD	Empire (Empire Complet 7th floor 1.5 credits US Gramercy (Soho Complex 7th floor 3.5 credits US US US Columbia 7th floor
:15 pm -	2:45 pm  4:45 pm  2:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle)  Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)  WS-45 Chronic Pain Resident/Fellow Workshop (\$30)  Ultrasound-Guided Injections  WS-46 RA-Acute Pain Interactive Demonstration Workshop (\$155)  New Blocks: Retrolaminar, Erector Spinae, iPack, Costoclavicular, Retroclavicular BP	Lead: Meg Rosenblatt, MD Faculty: Minerva P. Calimag, MD Ban Tsui, MD  Lead: Carlo Franco, MD Faculty: Xavier Sala-Blanch, MD Rebecca Johnson, MD Robert Weller, MD  Lead: Samer Narouze, MD, PhD Faculty: Philippe Macaire, MD Bernhard Moriggl, MD Antoun Nader, MD Levon Nazarian, MD Dmitri Souza, MD  Lead: Ki-Jinn Chin, MD Faculty:	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty: Steven Porter, MD  Associate Faculty: Robert Bolash, MD Maged Guirguis, MD Hong Vo, MD  Associate Faculty:	Empire (Empire Complet 7th floor 1.5 credits US Gramercy (Soho Complex 7th floor 3.5 credits US US US Columbia 7th floor
:15 pm -	2:45 pm  4:45 pm  2:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle) Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)  WS-45 Chronic Pain Resident/Fellow Workshop (\$30)  Ultrasound-Guided Injections  WS-46 RA-Acute Pain Interactive Demonstration Workshop (\$155)  New Blocks: Retrolaminar, Erector Spinae, iPack, Costoclavicular, Retroclavicular BP	Lead: Meg Rosenblatt, MD Faculty: Minerva P. Calimag, MD Ban Tsui, MD  Lead: Carlo Franco, MD Faculty: Xavier Sala-Blanch, MD Rebecca Johnson, MD Robert Weller, MD  Lead: Samer Narouze, MD, PhD Faculty: Philippe Macaire, MD Bernhard Moriggl, MD Antoun Nader, MD Levon Nazarian, MD Dmitri Souza, MD  Lead: Ki-Jinn Chin, MD Faculty: Sanjib Adhikary, MD Jeffrey Gadsden, MD  Lead: Lead:	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty: Steven Porter, MD  Associate Faculty: Robert Bolash, MD Maged Guirguis, MD Hong Vo, MD  Associate Faculty:	Empire (Empire Comple. 7th floor 1.5 credits US  Gramercy (Soho Complex 7th floor 3.5 credits  Astor 7th floor 1.5 credits  Columbia 7th floor 1.5 credits  Columbia 7th floor Columbia 7th floor
:15 pm -	2:45 pm  4:45 pm  2:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle)  Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)  WS-45 Chronic Pain Resident/Fellow Workshop (\$30)  Ultrasound-Guided Injections  WS-46 RA-Acute Pain Interactive Demonstration Workshop (\$155)  New Blocks: Retrolaminar, Erector Spinae, iPack, Costoclavicular, Retroclavicular BP  WS-47 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Ultrasound Diagnosis of Pneumothorax and Diaphragmatic Paresis	Lead: Meg Rosenblatt, MD Faculty: Minerva P. Calimag, MD Ban Tsui, MD  Lead: Carlo Franco, MD Faculty: Xavier Sala-Blanch, MD Rebecca Johnson, MD Robert Weller, MD  Lead: Samer Narouze, MD, PhD Faculty: Philippe Macaire, MD Bernhard Moriggl, MD Antoun Nader, MD Levon Nazarian, MD Dmitri Souza, MD  Lead: Ki-Jinn Chin, MD Faculty: Sanjib Adhikary, MD Jeffrey Gadsden, MD  Lead: Vincent Chan, MD	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty: Steven Porter, MD  Associate Faculty: Robert Bolash, MD Maged Guirguis, MD Hong Vo, MD  Associate Faculty: Uma Shastri, MD	Empire (Empire Comple 7th floor 1.5 credits  US  Gramercy (Soho Complex 7th floor 3.5 credits  Astor 7th floor 1.5 credits  Columbia 7th floor 1.5 credits  Columbia 7th floor 1.5 credits
:15 pm - :15 pm -	2:45 pm  4:45 pm  2:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle) Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)  WS-45 Chronic Pain Resident/Fellow Workshop (\$30)  Ultrasound-Guided Injections  WS-46 RA-Acute Pain Interactive Demonstration Workshop (\$155)  New Blocks: Retrolaminar, Erector Spinae, iPack, Costoclavicular, Retroclavicular BP	Lead: Meg Rosenblatt, MD Faculty: Minerva P. Calimag, MD Ban Tsui, MD  Lead: Carlo Franco, MD Faculty: Xavier Sala-Blanch, MD Rebecca Johnson, MD Robert Weller, MD  Lead: Samer Narouze, MD, PhD Faculty: Philippe Macaire, MD Bernhard Moriggl, MD Antoun Nader, MD Levon Nazarian, MD Dmitri Souza, MD  Lead: Ki-Jinn Chin, MD Faculty: Sanjib Adhikary, MD Jeffrey Gadsden, MD  Lead: Vincent Chan, MD Faculty:	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty: Steven Porter, MD  Associate Faculty: Robert Bolash, MD Maged Guirguis, MD Hong Vo, MD  Associate Faculty: Uma Shastri, MD	Empire (Empire Comple 7th floor 1.5 credits US Gramercy (Soho Complex 7th floor 3.5 credits US US Columbia 7th floor 1.5 credits
:15 pm - :15 pm -	2:45 pm  4:45 pm  2:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle)  Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)  WS-45 Chronic Pain Resident/Fellow Workshop (\$30)  Ultrasound-Guided Injections  WS-46 RA-Acute Pain Interactive Demonstration Workshop (\$155)  New Blocks: Retrolaminar, Erector Spinae, iPack, Costoclavicular, Retroclavicular BP  WS-47 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Ultrasound Diagnosis of Pneumothorax and Diaphragmatic Paresis	Lead: Meg Rosenblatt, MD Faculty: Minerva P. Calimag, MD Ban Tsui, MD  Lead: Carlo Franco, MD Faculty: Xavier Sala-Blanch, MD Rebecca Johnson, MD Robert Weller, MD  Lead: Samer Narouze, MD, PhD Faculty: Philippe Macaire, MD Bernhard Moriggl, MD Antoun Nader, MD Levon Nazarian, MD Dmitri Souza, MD  Lead: Ki-Jinn Chin, MD Faculty: Sanjib Adhikary, MD Jeffrey Gadsden, MD  Lead: Vincent Chan, MD	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty: Steven Porter, MD  Associate Faculty: Robert Bolash, MD Maged Guirguis, MD Hong Vo, MD  Associate Faculty: Uma Shastri, MD	Empire (Empire Comple 7th floor 1.5 credits  US  Gramercy (Soho Complex 7th floor 3.5 credits  Astor 7th floor 1.5 credits  Columbia 7th floor 1.5 credits  Columbia 7th floor 1.5 credits
:15 pm - :15 pm -	2:45 pm  4:45 pm  2:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle)  Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)  WS-45 Chronic Pain Resident/Fellow Workshop (\$30)  Ultrasound-Guided Injections  WS-46 RA-Acute Pain Interactive Demonstration Workshop (\$155)  New Blocks: Retrolaminar, Erector Spinae, iPack, Costoclavicular, Retroclavicular BP  WS-47 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Ultrasound Diagnosis of Pneumothorax and Diaphragmatic Paresis	Lead: Meg Rosenblatt, MD Faculty: Minerva P. Calimag, MD Ban Tsui, MD  Lead: Carlo Franco, MD Faculty: Xavier Sala-Blanch, MD Rebecca Johnson, MD Robert Weller, MD  Lead: Samer Narouze, MD, PhD Faculty: Philippe Macaire, MD Bernhard Moriggl, MD Antoun Nader, MD Levon Nazarian, MD Dmitri Souza, MD  Lead: Ki-Jinn Chin, MD Faculty: Sanjib Adhikary, MD Jeffrey Gadsden, MD  Lead: Vincent Chan, MD Faculty:	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty: Steven Porter, MD  Associate Faculty: Robert Bolash, MD Maged Guirguis, MD Hong Vo, MD  Associate Faculty: Uma Shastri, MD	Empire (Empire Comple 7th floor 1.5 credits US Columbia 7th floor 1.5 credits US Columbia 7th floor 1.5 credits US Columbia 7th floor 1.5 credits Columbia
:15 pm -	2:45 pm  4:45 pm  2:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based) Branches of the Lumbar Plexus (Femoral, Adductor Canal) Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle) Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)  WS-45 Chronic Pain Resident/Fellow Workshop (\$30)  Ultrasound-Guided Injections  WS-46 RA-Acute Pain Interactive Demonstration Workshop (\$155)  New Blocks: Retrolaminar, Erector Spinae, iPack, Costoclavicular, Retroclavicular BP  WS-47 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Ultrasound Diagnosis of Pneumothorax and Diaphragmatic Paresis  Lung Ultrasound: Diagnosis of Pneumothorax, Diaphragm, and Gastric Ultrasound	Lead: Meg Rosenblatt, MD Faculty: Minerva P. Calimag, MD Ban Tsui, MD  Lead: Carlo Franco, MD Faculty: Xavier Sala-Blanch, MD Rebecca Johnson, MD Robert Weller, MD  Lead: Samer Narouze, MD, PhD Faculty: Philippe Macaire, MD Bernhard Moriggl, MD Antoun Nader, MD Levon Nazarian, MD Dmitri Souza, MD  Lead: Ki-Jinn Chin, MD Faculty: Sanjib Adhikary, MD Jeffrey Gadsden, MD  Lead: Vincent Chan, MD Faculty: Richelle Kruisselbrink, MD	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty: Steven Porter, MD  Associate Faculty: Robert Bolash, MD Maged Guirguis, MD Hong Vo, MD  Associate Faculty: Uma Shastri, MD	Empire (Empire Comple 7th floor 1.5 credits  US  Gramercy (Soho Complex 7th floor 3.5 credits  US  Columbia 7th floor 1.5 credits
:15 pm -	2:45 pm  4:45 pm  2:45 pm  4:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle) Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)  WS-45 Chronic Pain Resident/Fellow Workshop (\$30)  Ultrasound-Guided Injections  WS-46 RA-Acute Pain Interactive Demonstration Workshop (\$155)  New Blocks: Retrolaminar, Erector Spinae, iPack, Costoclavicular, Retroclavicular BP  WS-47 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Ultrasound Diagnosis of Pneumothorax and Diaphragmatic Paresis  Lung Ultrasound: Diagnosis of Pneumothorax, Diaphragm, and Gastric Ultrasound	Lead: Meg Rosenblatt, MD Faculty: Minerva P. Calimag, MD Ban Tsui, MD  Lead: Carlo Franco, MD Faculty: Xavier Sala-Blanch, MD Rebecca Johnson, MD Robert Weller, MD  Lead: Samer Narouze, MD, PhD Faculty: Philippe Macaire, MD Bernhard Moriggl, MD Antoun Nader, MD Levon Nazarian, MD Dmitri Souza, MD  Lead: Ki-Jinn Chin, MD Faculty: Sanjib Adhikary, MD Jeffrey Gadsden, MD  Lead: Vincent Chan, MD Faculty: Richelle Kruisselbrink, MD	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty: Steven Porter, MD  Associate Faculty: Robert Bolash, MD Maged Guirguis, MD Hong Vo, MD  Associate Faculty: Uma Shastri, MD	Empire (Empire Complex 7th floor 1.5 credits  US  Gramercy (Soho Complex 7th floor 3.5 credits  Astor 7th floor 1.5 credits  Columbia 7th floor 1.5 credits
:15 pm -	2:45 pm  4:45 pm  2:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based) Branches of the Lumbar Plexus (Femoral, Adductor Canal) Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle) Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)  WS-45 Chronic Pain Resident/Fellow Workshop (\$30)  Ultrasound-Guided Injections  WS-46 RA-Acute Pain Interactive Demonstration Workshop (\$155)  New Blocks: Retrolaminar, Erector Spinae, iPack, Costoclavicular, Retroclavicular BP  WS-47 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Ultrasound Diagnosis of Pneumothorax and Diaphragmatic Paresis  Lung Ultrasound: Diagnosis of Pneumothorax, Diaphragm, and Gastric Ultrasound	Lead: Meg Rosenblatt, MD Faculty: Minerva P. Calimag, MD Ban Tsui, MD  Lead: Carlo Franco, MD Faculty: Xavier Sala-Blanch, MD Rebecca Johnson, MD Robert Weller, MD  Lead: Samer Narouze, MD, PhD Faculty: Philippe Macaire, MD Bernhard Moriggl, MD Antoun Nader, MD Levon Nazarian, MD Dmitri Souza, MD  Lead: Ki-Jinn Chin, MD Faculty: Sanjib Adhikary, MD Jeffrey Gadsden, MD  Lead: Vincent Chan, MD Faculty: Richelle Kruisselbrink, MD	Associate Faculty: Steven Porter, MD  Associate Faculty: Steven Porter, MD  Associate Faculty: Robert Bolash, MD Maged Guirguis, MD Hong Vo, MD  Associate Faculty: Uma Shastri, MD  Associate Faculty: Arthur Atchabahian, MD	Empire (Empire Complex) 7th floor 1.5 credits  US  Gramercy (Soho Complex) 7th floor 3.5 credits  Astor 7th floor 1.5 credits  Columbia 7th floor 1.5 credits
:15 pm -	2:45 pm  4:45 pm  2:45 pm  4:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle)  Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)  WS-45 Chronic Pain Resident/Fellow Workshop (\$30)  Ultrasound-Guided Injections  WS-46 RA-Acute Pain Interactive Demonstration Workshop (\$155)  New Blocks: Retrolaminar, Erector Spinae, iPack, Costoclavicular, Retroclavicular BP  WS-47 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Ultrasound Diagnosis of Pneumothorax and Diaphragmatic Paresis  Lung Ultrasound: Diagnosis of Pneumothorax, Diaphragm, and Gastric Ultrasound  WS-48 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Pearls for Pediatric Regional Anesthesia  Demonstration of the Most Useful Blocks for Pediatric Anesthesia Practice  Indications, Patient Selection, Technique, Side Effects, and Complications	Lead: Meg Rosenblatt, MD Faculty: Minerva P. Calimag, MD Ban Tsui, MD  Lead: Carlo Franco, MD Faculty: Xavier Sala-Blanch, MD Rebecca Johnson, MD Robert Weller, MD  Lead: Samer Narouze, MD, PhD Faculty: Philippe Macaire, MD Bernhard Moriggl, MD Antoun Nader, MD Levon Nazarian, MD Dmitri Souza, MD  Lead: Ki-Jinn Chin, MD Faculty: Sanjib Adhikary, MD Jeffrey Gadsden, MD  Lead: Vincent Chan, MD Faculty: Richelle Kruisselbrink, MD	Associate Faculty: Steven Porter, MD  Associate Faculty: Steven Porter, MD  Associate Faculty: Robert Bolash, MD Maged Guirguis, MD Hong Vo, MD  Associate Faculty: Uma Shastri, MD  Associate Faculty: Arthur Atchabahian, MD  Associate Faculty: Tarun Bhalla, MD	Empire (Empire Complex) 7th floor 1.5 credits  US  Gramercy (Soho Complex) 7th floor 3.5 credits  Columbia 7th floor 1.5 credits  Columbia 7th floor 1.5 credits  Chelsea (Empire Complex) 7th floor 1.5 credits
:15 pm -	2:45 pm  4:45 pm  2:45 pm  4:45 pm	Indications, Patient Selection, Technique, Side Effects, and Complications Advanced Regional Nerve Blocks, What Not to Do  WS-56 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Everyday Peripheral Nerve Blocks for Lower Limb Surgery (Ultrasound-Based)  Branches of the Lumbar Plexus (Femoral, Adductor Canal)  Branches of the Sciatic Nerve (Popliteal Sciatic, Ankle)  Indications, Patient Selection, Side Effects, and Complications  WS-44 RA-Acute Pain Half-Day Cadaver Workshop (\$395)  Dissection and Anatomy  Upper/Lower Extremity, Truncal Blocks (PECS, TAP)  WS-45 Chronic Pain Resident/Fellow Workshop (\$30)  Ultrasound-Guided Injections  WS-46 RA-Acute Pain Interactive Demonstration Workshop (\$155)  New Blocks: Retrolaminar, Erector Spinae, iPack, Costoclavicular, Retroclavicular BP  WS-47 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Ultrasound Diagnosis of Pneumothorax and Diaphragmatic Paresis  Lung Ultrasound: Diagnosis of Pneumothorax, Diaphragm, and Gastric Ultrasound  WS-48 RA-Acute Pain Interactive Demonstration Workshop (\$155)  Pearls for Pediatric Regional Anesthesia  Demonstration of the Most Useful Blocks for Pediatric Anesthesia Practice	Lead: Meg Rosenblatt, MD Faculty: Minerva P. Calimag, MD Ban Tsui, MD  Lead: Carlo Franco, MD Faculty: Xavier Sala-Blanch, MD Rebecca Johnson, MD Robert Weller, MD  Lead: Samer Narouze, MD, PhD Faculty: Philippe Macaire, MD Bernhard Moriggl, MD Antoun Nader, MD Levon Nazarian, MD Dmitri Souza, MD  Lead: Ki-Jinn Chin, MD Faculty: Sanjib Adhikary, MD Jeffrey Gadsden, MD  Lead: Vincent Chan, MD Faculty: Richelle Kruisselbrink, MD	Tarun Bhalla, MD Tricia Vecchione, MD  Associate Faculty: Steven Porter, MD  Associate Faculty: Robert Bolash, MD Maged Guirguis, MD Hong Vo, MD  Associate Faculty: Uma Shastri, MD  Associate Faculty: Arthur Atchabahian, MD	Empire (Empire Complex) 7th floor 1.5 credits  US  Gramercy (Soho Complex) 7th floor 3.5 credits  Astor 7th floor 1.5 credits  Columbia 7th floor 1.5 credits  Columbia 7th floor 1.5 credits  Columbia 7th floor 1.5 credits  Chelsea (Empire Complex) 7th floor



#### **2018** World Congress on **REGIONAL ANESTHESIA & PAIN MEDICINE**

Annual Regional Anesthesiology & Acute Pain Medicine Meeting





#### **Ask-the-Expert Interactive Sessions** Saturday, April 21, 2018 (open to all, no additional fee)

		(Sport to all, 110 attainmental 100)		
8:00 am -	9:30 am	IS-01 Ask-the-Expert Interactive Session Stress Management	Moderator: Oscar de Leon-Casasola, MD	Soho (Soho Complex 7th floor
8:00 am	9.30 alli	Physician Burnout Survey	Oscar De Leon-Casasola, MD	1.5 credits
8:30 am		Preventing Burnout and Promoting Job Engagement in Anesthesia	Danielle Ludwin, MD	
9:00 am		Panel Discussion and Open Forum	Danielle Ludwin, IviD	WRAPM
9.00 am		ranei Discussion and Open Forum		
				Soho
		IS-02 Ask-the-Expert Interactive Session	Moderator:	(Soho Complex
10:15 am -	11:45 am	Catheter Management Issues	Brian Ilfeld, MD	7th floor
			Philippe Macaire, MD	1.5 credits
1:15 pm -	2:45 pm	IS-03 Ask-the-Expert Interactive Session  Acute Pain Management for the Challenging Patient	Moderator: Daniel Warren, MD	Soho (Soho Complex
<b>-</b>		Obstructive Sleep Apnea, Opioid Dependency/Chronic Pain, Major Spine Surgery	Richard Rosenquist, MD	1.5 credits
3:15 pm -	4:45 pm	IS-04 Ask-the-Expert Interactive Session  Green Anesthesia: The Leading Role of Regional Anesthesia	Moderator: Ban Tsui, MD	Soho (Soho Complex 7th floor
3:15 pm		The Environmental Impact of General and Regional Anesthesia	Jodi Sherman, MD	1.5 credits
3:35 pm		The Economic and Environmental Aspects of Drug and Materials Used for Green Anesthesia	Andrew Gray, MD	Green
3:55 pm		Footprints: What Do We Know About Anesthetic	Timur Ozelsel, MD	
4:15 pm		Panel Discussion and Open Forum		



#### GIONAL ANESTHESIA & PAIN MEDICINE







#### PA / NP / Nursing Program Friday, April 20, 2018

2:45 pm -	3:30 pm	PA/NP/Nursing Meet and Greet in the Exhibit Hall Chat Room	Exhibit Hall	
		Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café		

#### PA / NP / Nursing Program Saturday, April 21, 2018

		Saturday, April 21, 201	<u> </u>	
7:30 am -	8:00 am	Getting Started		
7.50 am	0.00 am	Registration	Foyer	
		Breakfast, Exhibition, ePosters, ASRA Chat Room, Internet Café	Exhibit Hall	
			Moderator:	Liberty
8:00 am -	9:30 am	Update on Opioids	Bridget Calhoun, Dr PH, PA-C	8th floor
8:00 am		Welcome and Introduction	Drs. Buvanendran and Calhoun	1.5 credits
8:05 am		Monitoring the Patient Who is Prescribed Opioids	Heather Jackson, MSN, APRN-BC	
8:30 am		Opioid Induced Constipation	Eugene Viscusi, MD	
8:50 am		Endocrine Disorders Resulting from Opioid Use	Maxim Eckmann, MD	
9:15 am		Panel Discussion and Open Forum		
9:30 am -	10:15 am	Break in Exhibit Hall		
		Refreshments, Exhibition, ePosters, ASRA Chat Room, Internet Café		
			Moderator:	Liberty
10:15 am -	11:45 am	Chronic Low Back Pain (LBP)	Bridget Calhoun, Dr PH, PA-C	8th floor
10:15 am		Causes of Low Back Pain	Paul Verrills, MBBS	1.5 credits
10:30 am		Physical Assessment of the Patient with LBP	Maxim Eckmann, MD	
11:00 am		Pathologic Findings on Radiographic Imaging	John Carrino, MD	
11:30 am		Panel Discussion and Open Forum		
11:45 am -	1:15 pm	Lunch On Own		
1:15 pm -	2:45 pm	Current Low Back Pain Interventions	Moderator: Heather Jackson, MSN, APRN-BC	Liberty 8th floor
1:15 pm		Update on Interventional Care	Jay Grider, MD	1.5 credits
1:45 pm		Review of Spinal Cord Stimulators: Indications and Complications	Steven Falowski, MD	
2:05 pm		Review of Intrathecal Pumps: Indications and Complications	Sam Eldabe, MD	
2:25 pm		Panel Discussion and Open Forum		
2:45 pm -	3:15 pm	Break and Refreshments in Foyer		
3:15 pm -	4:45 pm	Providing Care to Special Populations	Moderator: Bridget Calhoun, Dr PH, PA-C	Liberty 8th floor
3:15 pm	- 1	Management of Anticoagulation and Interventional Treatments	Honorio Benzon, MD	1.5 credits
3:40 pm		Pain Control in Patients with Comorbidities: Renal Disease, Liver Disease, Elderly, Intoxicated	Andrea Nicol, MD	3.00.10
·				
4:05 pm		Pain Control in Patients with Prior Addictions	Daniel Warren, MD	



MP-10a

MP-11a

MP-12a

Rajnish Gupta, MD

Mark Neumann, MD

Vivian Ip, MD

11:45 am

2:45 pm

4:45 pm

1:15 pm -

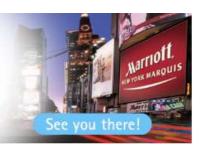
3:15 pm -

#### **2018** World Congress on

#### REGIONAL ANESTHESIA & PAIN MEDICINE

Annual Regional Anesthesiology & Acute Pain Medicine Meeting





MP-10c

MP-11c

MP-12c

Yan Lai, MD

Paul Verrills, MD

#### **Moderated ePoster Sessions** (non-CME) Shubert Uris Plymouth Thursday, April 19, 2018 (Shubert Complex) **Track A Moderator** (Shubert Complex) **Track B Moderator** (Shubert Complex) **Track C Moderator** 6th floor 6th floor 6th floor MP-01a MP-01b 9:45 am William Urmey, MD Joseph Neal, MD MP-01c Andrea Nicol, MD 8:00 am -MP-02b 10:15 am -11:45 am MP-02a Philipp Lirk, MD Terese Horlocker, MD MP-02c Hesham Elsharkawy, MD 1:15 pm -3:00 pm MP-03a Tong Joo (TJ) Gan, MD MP-03b Christopher Wu, MD MP-03c Alexios Carayannopoulos, MD 3:30 pm -5:00 pm MP-04a Michael (Monty) Mythen, MD MP-04b Alexandru Visan, MD MP-04c Maxim Eckmann, MD Friday, April 20, 2018 MP-05a MP-05b MP-05c 8:00 am -9:30 am Richard Brull, MD Jaime Baratta, MD Charles Berde, MD Alain Borgeat, MD 10:15 am -MP-06a Narinder Rawal, MD MP-06c Joshua Wellington, MD 11:45 am MP-06b MP-07b Sandra Kopp, MD David Clark, MD 1:15 pm -2:45 pm MP-07a Timur Ozelsel, MD MP-07c MP-08a Steven Orebaugh, MD 3:30 pm -5:00 pm Andres Missair, MD MP-08b MP-08c Tony Yaksh, PhD Saturday, April 21, 2018 9:30 am MP-09a Honorio Benzon, MD MP-09b Robert Bolash, MD MP-09c Richard Rauck, MD 8:00 am -10:15 am -Alexios Carayannopoulos, MD Daniel Clauw, MD

MP-10b

MP-11b

MP-12b

Danielle Ludwin, MD

Stavros Memtsoudis, MD