



Disclosure and Resolution of Personal Conflicts of Interest

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Last Name	First Name	Role	COI	Honoraria / Expenses	Consulting / Advisory Board	Speakers Bureau	Funded Research (Individual)	Funded Research (Institution)	Royalties / Patent	Stock Options	Owner / Equity Position	Employee	Other	Off-Label/Usage
ASRA Administrative Team		Society, CME, and Meeting Management	No											
Ahadian	Farshad	Faculty	Yes					St-Bone, Boston Scientific, Mainstay Medical						
Amirdelfan	Kasra	Faculty	Yes	Nevro, St. Jude	Nevro, St. Jude	Nevro, St. Jude, Medtronic		Nevro, St. Jude, Saluda					Nevro: faculty at event held over meeting dates; Medtronic - fellowship educational grant to institution	
Anitescu	Magdalena	Planning, Faculty	No											
Balboni	Armand	Faculty	Yes		McMaster University, Canada, Applii Therapeutics, Inc.		U.S. Army	U.S. Army/DoD			Bloom Burton & Co., Canada	U.S. Army		
Benedetti	Esther	Planning, Associate Faculty	No											
Benyamin	Rasmin	Faculty	Yes		Medtronic			Medtronic, Nevro, Halyard, Vertos medical, Mesoblast						
Benzon	Honorio	Faculty	No											
Berde	Charles	Faculty	Yes					Grunenthal (anticipated)	Patents on prolonged duration local anesthetics; license agreements with Grunenthal GmbH					Pediatric analgesic use
Bhatia	Anuj	Faculty	No											
Bolash	Robert	Associate Faculty	Yes					Stimwave		Doximity	Nevro, Cara Therapeutics, Pfizer, Cambrex, Anlylam			
Bounds	Donny	Faculty	No											
Brecht	Krista	Planning, Faculty	No											
Brenner	Gary	Faculty	No											
Buvanendran	Asokumar	Board, Faculty	Yes		Axosome, Hospira, Medtronics, St. Jude Medical, Halyard			NIH, Pfizer, Halyard						
Calhoun	Bridget	Planning, Faculty	No											
Carrino	John	Faculty	Yes		GE, Halyard Health, Carestream			GE					Research consulting: Pfizer, Bioclinica, Globus	
Cassidy	Michael	Faculty	No											
Chae	John	Faculty	Yes		SPR Therapeutics, Consultant and Chief Medical Advisor			SPR Therapeutics, Research funding			SPR Therapeutics			Will present data from study of a device under an IDE
Chen	Lucy	Faculty	No											
Cheng	Peter	Faculty	No											RPR and fenestration of tendons
Cohen	Steven P.	Board, Faculty	Yes		Halyard, SPR Therapeutics, Semnur, Zynerba									
de Leon-Casasola	Oscar	Board, Planning, Faculty	Yes		Mallinckrodt, Grunenthal LATAM, Purdue Frederick, Collegium									
Deer	Timothy	Faculty	Yes		St. Jude, Medtronic, Bioness, Vertos, Nevro, Flowonix, Axonics, Ethos, SpineThera, Saluda Medical, Nuvectra	Jazz Pharmaceuticals	St. Jude, Medtronic, Bioness, Jazz Pharm			Bioness, Vertos, Axonics, Ethos, SpineThera, Saluda Medical, Nuvectra			St. Jude: faculty at event held over meeting dates	



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Eckmann	Maxim	Planning, Faculty	Yes										Fellowship Educational Grant to Institution: Medtronic, St. Jude Medical, Boston Scientific	
Eisenach	James	Faculty	Yes		Teva Pharmaceuticals; Adynxx; Campbell Alliance									
Elmofly	Dalia	Associate Faculty	No											
Farrante	Michael F.	Faculty	No											
Filbey	Francesca	Faculty	No											
Finlayson	Roderick	Faculty	No											
Forero	Mauricio	Associate Faculty	No											
Gilligan	Christopher	Faculty	Yes		Amorsa Therapeutics, Inc, Axial Healthcare, Clintara LLC, Cubist Pharmaceuticals, Inc, Mainstay Medical Limited, Medasense Biometrics Limited, Moderna Therapeutics, National Peer Review Corporation, Venner Medical, Expert Witness (direct work)									
Grant	Thomas	Faculty	No											
Grimmer	Jennifer	Faculty	No											Anti-psychotics for terminal delirium management; the agents are not FDA approved
Guirguis	Maged	Associate Faculty	Yes	Myoscience	Nevro									
Gulati	Amitabh	Planning, Faculty	No											
Hayek	Salim	Faculty	Yes	Boston Scientific	Boston Scientific, Flowonix									Intrathecal medications per guidelines
Horlocker	Terese	CME, Planning	No											
Huntoon	Marc	Planning, Faculty	Yes					CNS Therapeutics						
Huntoon	Elizabeth	Faculty	No											
Kapural	Leonardo	Faculty	Yes		St Jude Medical, Saluda Medical, Nevro, Neuros, Halyard		StimWave, Boston Scientific, Halyard	Neuro, SPR Therapeutics					Nevro: faculty at event held over meeting dates	
Kopp	Sandra	CME	No											
Lerman	Immanuel	Faculty	Yes	Electrocore	Nalu		Electrocore, Boston Scientific, Nevro							
Lubenow	Timothy	Faculty	Yes	Medtronic, Boston Scientific, St. jude Medical, Halyard				Boston Scientific					St. Jude: faculty at event held over meeting dates	
Mackey	Sean	Faculty	No											
Mao	Jianren	Faculty	No											
Mariano	Edward	Board, Faculty	Yes										Halyard, B Braun: unrestricted educational funding to institution	
Merrick	Sharon	Faculty	No											
Mina	Maged	Associate Faculty	No											
Modir	James	Faculty	No											
Nader	Antoun	Faculty	Yes		Pacira									
Narouze	Samer	Board, Faculty	Yes		St. Jude Medical									off-label peripheral nerve stimulation (PNS)
Nazarian	Lavon	Faculty	Yes		SonoSim									
Neal	Joseph	Board	No											
Nicol	Andrea	Faculty	No											agents for neuropathic pain
Peeters-Asdourian	Christine	Faculty	No											



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Peng	Philip	Faculty	Yes										Equipment support from FujiFilm SonoSite	
Perlas	Anahi	Board	No											
Petersohn	Jeffrey	Faculty	Yes	Halyard Health	Halyard Health	Halyard Health	Halyard Health							Ketamine IV for CRPS
Peterson	Jeffrey	Faculty	No											
Pino	Carlos	CME, Planning, Faculty	Yes		Mainstay Medical									
Pope	Jason	Planning, Faculty	Yes		Medtronic, St Jude, Flowonix, Jazz Pharmaceuticals				Elsevier, Springer					intrathecal therapy (likley and burst)
Popovich	Matthew	Faculty	No											
Provenzano	David	Board, Planning, Faculty	Yes		Medtronic, St Jude, Trevena, Halyard		Medtronic							
Rana	Maunak	Faculty	No											
Rathmell	James	Faculty	Yes	American Board of Anesthesiology	Mainstay Medical									
Rauck	Richard	Faculty	Yes		Pfizer, Boston Scientific, ENDO, INSYS, Jazz, Astra Zeneca			Boston Scientific, NEVRO, Mainstay, StimWave, Gurenthal, Mallinckrodt, Axsome Therapeutics						
Romero-Sandoval	Alfonso	Faculty	Yes	Otsuka and Valley Agriceuticals	Otsuka and Valley Agriceuticals									
Rosenquist	Ellen	CME	No											
Rosenquist	Richard	Faculty	Yes						UpToDate		KURE Pain Holdings, LLC			Medications used to treat neuropathic pain
Safriel	Yair	Faculty	Yes										Medtronic is client of Pharmascan	
Saper	Robert	Faculty	No											
Scholtz	Kenneth	Faculty	No											
Shankar	Hariharan	Planning, Faculty	Yes	WAPMU, Dannemiller										
Silverman	Sanford	Faculty	Yes			Pfizer, Purdue, Depomed, Daiichi Sankyo, Endo, Kaleo, Astra Zeneca								
Sites	Brian	CME	No											
Sitzman	Todd	Faculty	Yes					Nevro Corporation						
Sivanesan	Eellan	Planning, Faculty	No											
Soto	Eliezer	Faculty	No											
Souzdalnitski	Dmitri	Faculty	No											PRP and stem cells, will disclose when applicable
Suresh	Santhanam	Faculty	No											
Vaccaro	Alexander	Faculty	Yes		DePuy; Medtronic; Stryker Spine; Globus; Stout Medical; Progressive Spinal Technologies; Flagship Surgical; Gerson Lehrman Group; Guidepoint Global; Medacorp; AO Spine; Innovative Surgical Design; Association of Collaborative Spine Research; Orthobullets; Expert Testimony; Prime Surgeons; Nuvasive; Spine Therapy Networks, Inc.				Medtronic; Stryker Spine; Globus; Aesculap; Thieme; Jaypee; Elsevier; Taylor Francis/Hodder and Stoughton	Replication Medica; Globus; Paradigm Spine; Stout Medical; Progressive Spinal Technologies; Advanced Spinal Intellectual Properties; Spine Medica; Computational Biodynamics; Spinology; In Vivo; Flagships Surgical; Cytomics; Bonovo Orthopaedics; Electrocore; Gamma Spine; Location based Intelligence; FlowPharma; Rothman Institute and Related Properties; Innovative Surgical Design; Vertiflex; Avaz Surgical; Prime Surgeons; Dimension Orthotics LLC			Clinical Spine Surgery (Editor); Spine Journal (Editor)	
Vallejo	Ricardo	Planning, Faculty	Yes		Halyard, Nevro, Boston Scientific, Medtronic	Boston Scientific		Medtronic, Nevro, Boston Scientific						Stimgenics



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Viscusi	Eugene	Board, Faculty	Yes	Cadence/ Mallinckrodt, Heron, Pacira, Salix	Pacira, Salix, Mallinckrodt, Trevena, AstraZeneca, Cara, The Medicines Company, Merck, Pacira, Salix, Heron	Mallinckrodt, Salix		Pacira, Durect						
Vo	Hong	Associate Faculty	Yes											
Vorenkamp	Kevin	Planning, Faculty	No											
Vrooman	Bruce	Faculty	Yes			Halyard Corporation, Medtronic								
Wainger	Brian	Faculty	Yes		Q State Biosciences		GlaxoSmithKline			Q State Biosciences				
Wallace	Mark	Faculty	Yes		Quarck, Zynerva, Vertex, Daiichi Sankyo			Center for Medicinal Cannabis Research						
Warren	Daniel	CME, Planning, Faculty	No											Evidence based use of anti-inflammatory agents and gabapentinoids
Watson	James	Faculty	Yes		Neuro Corporation									
Wellington	Joshua	Faculty	Yes	Medtronic	Medtronic	Insys								