American Society of
Regional Anesthesia and Pain Medicine

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David Provenzano, MD, ASRA Planning Committee
Marc Van de Velde, MD, ESRA Planning Committee
María Isabel Vasquez, MD, LASRA President 2018
Masataka Yokoyama, MD, AOSRA Planning Committee

Faculty

Faraj Abdallah, MD; University of Ottawa, Ottawa, ON, Canada
Sanjib Adhikary, MBBS, MD; Penn State College of Medicine, Hershey, PA
Michael Akerman, MD; Weill Cornell Medical Center, New York, NY
Eric Albrecht, PD; Lausanne University Hospital, Lausanne, Vaud, Switzerland
Fernando Altermatt, MD, MHSc, MBA; Pontificia Universidad Católica de Chile, Santiago, Chile
Sandeep Amin, MD; Rush University Medical Center, Chicago, IL
Michael Andreae, MD; Penn State Hershey Medical Center, Hershey, PA

Amany Ayad, MD, FIPP; Cairo University Hospitals, Cairo, Egypt
Ezzat Aziz, MD, FRSA; Cairo University Hospitals, Cairo, Egypt
Jaime Baratta, MD; Thomas Jefferson University, Philadelphia, PA
Michael Barrington, MBBS, FANZCA, PhD; University of Melbourne, Australia
Honorio Benzon, MD; Northwestern University Feinberg School of Medicine, Chicago, IL
Charles Berde, MD, PhD; Boston Children's Hospital, Boston, MA
Mitchell Bernstein, MD, FACS, FASCRS; Langone Medical Center, New York, NY
Anuj Bhatia, MD; University of Toronto and Toronto Western Hospital, Toronto, ON, Canada
Michael Bolognesi, MD; Duke University, Durham, NC
Karen Boretsky, MD; Harvard Medical School, Boston, MA
Alain Borgeat, MD; Balgrist University Hospital, Zurich, Switzerland
Jens Borglum, MD, PhD; Zealand University Hospital, University of Copenhagen Roskilde Regional Zealand, Denmark
Jan Boublik, MD, Phd; Stanford University, Los Altos, CA
Richard Brull, MD, FRCPC; Toronto Western Hospital and Women's College Hospital, Toronto, ON, Canada
Chad Brummett, MD; University of Michigan, Ann Arbor, MI
Asokumar Buvanendran, MD; Rush University Medical Center, Chicago, IL
Bridget Calhoun, Dr PH, PA-C; Duquesne University, Pittsburgh, PA
Maria Minerva Calimag, MD, PhD; Asian and Oceanic Society of Regional Anesthesia & Pain Medicine, Manilla, Philippines
Aaron Calodney, MD; Precision Spine Care, Tyler, TX
John Carrino, MD; Hospital for Special Surgery, New York, NY
Vincent Chan, MD, FRCPC, FRCA; University of Toronto, Toronto, ON, Canada
Susilo Chandra, DR, FRCA; University of Indonesia, Jakarta, Indonesia
Ki-Jinn Chin, MBBS, FANZCA, FRCPC; Toronto Western Hospital, University of Toronto, ON, Canada
David Clark, MD, PhD; VAPAHCS/Stanford University, Palo Alto, CA
Hance Clarke, MD, PhD; University Health Network, Toronto, ON, Canada
Daniel Clauw, MD; University of Michigan, Ann Arbor, MI
Steven P. Cohen, MD; Johns Hopkins & Walter Reed, Clarksville, MD
Brian Cole, MD, MRA; Midwest Orthopaedics at RUSH, Chicago, IL
Javier Cubillos, MD, Pontificia Universidad, Javeriana, Bogota, Columbia
José De Andrés, MD, PhD, FIPP, EDRA; Valencia University General Hospital, Valencia, Spain
Oscar de Leon-Casasola, MD; University at Buffalo - Roswell Park Cancer Institute, Buffalo, NY
Martha Tecca DelPizzo, EdD; Leidos Health Solutions, Baltimore, MD
Pasquale De Negri, MD, FIPP; IRCCS CROB Cancer Center, Rionero in Vulture, Italy
Timothy Deer, MD; Center for Pain Relief, Inc., Charleston, WV
Alain Delbos, MD ; Medipole Garonne, Toulouse, France
Derek Dillane, MB BCh, FCARCSI; University of Alberta, Edmonton, AB, Canada
Maxim Eckmann, MD; UT Health San Antonio, San Antonio, TX
Urs Eichenberger, MD, PhD; Balgrist University Hospital, Zurich, Switzerland
Sam Eldabe, MD, FRCA; The James Cook University Hospital Middlesborough, United Kingdom

Nabil Elkassabany, MD, MSCE; University of Pennsylvania, Philadelphia, PA
Hesham Elsharkawy,MD, MBA, MSc; Cleveland Clinic, Westlake, OH
Steven Falowski, MD; St. Lukes University Health Network, Bethlehem, PA
Carlo Franco, MD; JHS Hospital Cook County/Rush University Medical Center, Chicago, IL
Jeffrey Gadsden, MD, FRCPC, FANZCA; Duke University, Chapel Hill, NC
Tong Joo Gan, MD, MBA, MHS, FRCA; StonyBrook University Hospital, Stony Brook, NY
Christopher Gharibo, MD; Langone Health, NYU, Franklin Lakes, NJ
James Grant, MD, MB, FASA; American Society of Anesthesiologists, Schaumburg, IL
Stuart Grant, MB, ChB, MMCI; Duke University, Chapel Hill, NC
Andrew Gray, MD, PhD; University of California, San Francisco, CA
James Green, MBBS, FRCA; University of Alberta Hospital, Edmonton, AB, Canada
Jay Grider, DO; University of Kentucky, Lexington, KY
Carrie Guheen, MD; Hospital for Special Surgery, New York, NY
Amitabh Gulati, MD; Memorial Sloan Kettering Cancer Center, New York, NY
Rajnish Gupta, MD; Vanderbilt University School of Medicine, Nashville, TN
Admir Hadzic, MD, PhD; New York School of Regional Anesthesia, New York, NY
David Hardman, MD, MBA, FASA; UNC at Chapel Hill, NC
Mary Hargett, BSciEd; Hospital for Special Surgery, New York, NY
Michael Harned, MD; University of Kentucky Hospital, Lexington, KY
Brian Harrington, MD; Deaconess Billings Clinic, Billings, MT
T. Kyle Harrison, MD; Stanford University and VA Palo Alto Health Care System, Los Altos, CA
Stephen Haskins, MD; Hospital for Special Surgery, New York, NY
Salim Hayek, MD, PhD; University Hospitals Cleveland Medicine, Cleveland Heights, OH
Daryl Henshaw, MD; Wake Forest School of Medicine, Winston-Salem, NC
Terese Horlocker, MD; Mayo Clinic College of Medicine, Rochester, MN
Jean-Louis Horn, MD; Stanford University School of Medicine, Stanford, CA
Marc Huntoon, MD; Virginia Comonwealth University, Montpelier, VA
Barys Ihnatsenka, MD; University of Florida, Gainesville, FL
Brian Ilfeld, MD, MS; University California San Diego, CA
Giorgio Ivani, MD; Begina Margherita Children's Hospital, Turin, Italy
Heather Jackson, MSN, FNP-BC; Vanderbilt University Medical Center, Nashville, TN
Jonathan Jaffe, DO; Wake Forest School of Medicine, Winston-Salem, NC
Rebecca Johnson, MD; Mayo Clinic, Rochester, MN
Leonardo Kapural, MD, PhD; Carolinas Pain Institute, Clemmons, NC
Manoj Karmakar, MD, FRCA; Chinese University of Hong Kong, Shatin, New Territories, Hong Kong
Sandra Kopp, MD; Mayo Clinic, Rochester, MN
Richelle Kruisselbrink, MD, FRCPC; Toronto Western Hospital, Toronto, ON, Canada
Chandra Kumar, MBBS, FFARCS, FRCA; Khoo Teck Puat Hospital, Singapore
Patricia Lavand'homme, MD, PhD; Clinique University of St Luc, Catholic University of Louvain Brussels, Belgium
Gregory Liguori, MD; Hospital for Special Surgery, New York, NY
Philipp Lirk, MD, PhD; Brigham and Women's Hospital, Boston, MA

Ana M. Lopez, MD, PhD; Ziekenhuis Oost Limburg, Genk, Belgium
Timothy Lubenow, MD; Rush University Medical Center, Oak Brook, IL
Danielle Ludwin, MD; Columbia University College of Physicians & Surgeons, New York, NY
Gregory Lutz, MD; Regenerative Sports Care Institute, New York, NY
Philippe Macaire MD; VinMec Healthcare System, Hanoi, Vietnam
Edward Mariano, MD, MAS, Stanford University School of Medicine; VA Palo Alto Health Care System, Palo Alto, CA
Colin McCartney, MBChB, PhD; University of Ottawa, ON, Canada
Neel Mehta, MD; Weill Cornell Medicine, New York, NY
Stavros Memtsoudis, MD, PhD; Hospital for Special Surgery, Weill Cornell Medical College, New York, NY
Andres Missair, MD, EDRA; Bruce Carter Miami VA Healthcare System, Miami, FL
Bernhard Moriggl, MD; Medical University of Innsbruck(MUI), Innsbruck, Tyrol, Austria
Monty Mythen, MBBS, MD, FRCA, FFICM; University College London, United Kingdom
Antoun Nader, MD; Northwestern University Feinberg School of Medicine, Chicago, IL
Samer Narouze, MD, PhD; Western Reserve Hospital, Cuyahoga Falls, OH
Levon Nazarian, MD; Sidney Kimmel Medical College of Thomas Jefferson University, Cherry Hill, NJ
Joseph Neal, MD; Virginia Mason Medical Center, Seattle, WA
Mark Neuman, MD, MSc; University of Pennsylvania, Philadelphia, PA
Andrea Nicol, MD; University of Kansas School of Medicine, Kansas City, KS
Adam Niesen, MD; Mayo Clinic, Rochester, MN
Steven Orebaugh, MD; University of Pittsburgh School of Medicine, Pittsburgh, PA
Timur Ozelsel, MD, DESA; University of Alberta, Edmonton, AB, Canada
Kiran Patel, MD; The Spine and Pain Institute, New York, NY
Amit Pawa, MBBS (Hons), FRCA; Guys St Thomas NHS Foundation Trust, London, United Kingdom
Philip Peng, MBBS; Toronto Western Hospital, University Health Network, Toronto, ON, Canada
Anahi Perlas, MD, FRCPC; Toronto Western Hospital, University of Toronto, Toronto, ON, Canada
Christophe Perruchoud; MD, EHC-Morges, Morges, Vaud, Switzerland
Carlos Pino, MD; University of Vermont College of Medicine, South Burlington, VT
Gregory Polkowski, MD, MSc; Vanderbilt Orthopaedic Dept., Nashville, TN
Jason Pope, MD; Evolve Restorative Center, Santa Rosa, CA
Jovan Popovic, MD, FRCPC; NYU Langone Medical Center, Outpatient Surgery, New York, NY
John Power, JD; Cogan & Power, PC, Chicago, IL
David Provenzano, MD; Pain Diagnostics and Interventional Care, Sewickley, PA
James Rathmell, MD; Brigham Health, Boston, MA
Richard Rauck, MD; Carolinas Pain Institute , Winston-Salem, NC
Narinder Rawal, MD, PhD, FRCA, EDRA; Örebro University, Stockholm, Sweden
Andrew Rosenberg, MD; NYU School of Medicine, New York, NY
Meg Rosenblatt, MD; Mount Sinai St. Luke's and West Hospitals, New York, NY
Richard Rosenquist, MD; Cleveland Clinic, Cleveland, OH
Xavier Sala-Blanch, MD; Hospital Clinic University of Barcelona, Spain
Axel Sauter, MD, PhD; Oslo University Hospital , Oslo, Norway
Hariharan Shankar, MBBS; Medical College of Wisconsin, Brookfield, WI

Jodi Sherman, MD; Yale School of Medicine, New Haven, CT
Cynthia Shum, DNP, Med, RN, CHSE-A; Veterans' Hospital, Palo Alto, CA
Sanjay Sinha, MBBS; St. Francis Hospital and Medical Center, Hartford, CT
Brian Sites MD; Dartmouth-Hitchcock Medical Center, Plainfield, NH
Todd Sitzman, MD, MPH; Advanced Pain Therapy, Hattiesburg, MS
Dmitri Souza, MD; Ohio University, Western Reserve Hospital, Cuyahoga Falls, OH
Santhanam Suresh, MD; Ann & Robert H. Lurie Children's Hospital of Chicago, IL
Ban Tsui, MD; Stanford University, Palo Alto, CA
Ankeet Udani MD, MSEd; Duke University, Durham, NC
William Urmey, MD; Weill Cornell Medical College, New York, NY
Ricardo Vallejo, MD; Millennium Pain Center, Bloomington, IL
Marc Van de Velde, MD, PhD, EDRA; Anesthesie U2, Leuven, Belgium
Geert-Jan van Geffen, MD, PhD; Radboud University Medical Centre, De Rips Brabant, The Netherlands
Jan Van Zundert MD, PhD, FIPP; Ziekenhuis Oost, Limburg, Belgium
Catherine Vandepitte-Hadzic, MD; NYSORA-ZOL Genk Leuven Vlaams-Brabant, Belgium
María Isabel Vasquez, MD; Latinoamerican Society of Regional Anaesthesia (LASRA) Medellín Antioquia, Colombia
Paul Verrills, MD; Monash Pain Group Pty Ltd, Victoria, Australia
Alexandru Visan, MD, MBA; Executive Cortex Consulting, Miami, FL
Eugene Viscusi, MD; Thomas Jefferson University, Philadelphia, PA
Kevin Vorenkamp, MD; Virginia Mason Medical Center, Seattle, WA
Mark Wallace, MD; University of California San Diego, La Jolla CA
Daniel Warren, MD; Virginia Mason Medical Center, Seattle, WA
Guy Weinberg, MD; University of Illinois and Jesse Brown VA, Chicago, IL
Robert Weller, MD; Wake Forest School of Medicine, Winston-Salem, NC
Joshua Wellington, MD; Indiana University Pain Medicine Center, Fishers, IN
Brian Williams, MD, MBA; University of Pittsburgh, Oakmont, PA
Morné Wolmarans, MBChB, FRCA, EDRA; Norfolk & Norwich University Hospital, Norwich, Norfolk, United Kingdom
Christopher Wu, MD; The Johns Hopkins Hospital, Clarksville, MD
Tony Yaksh, PhD; University of California, San Diego, CA
Masataka Yokoyama, MD; Kochi Medical School, Nankoku, Kochi, Japan

Associate Faculty

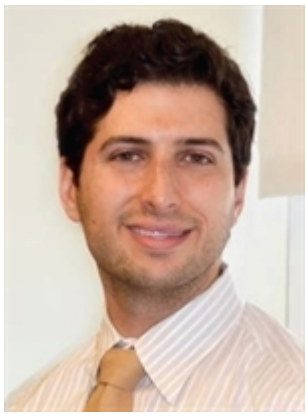
Arthur Atchabahian, MD; New York University School of Medicine, New York, NY
Tarun Bhalla MD, MBA; Nationwide Children's Hospital / The Ohio State University, Columbus, OH
Robert Bolash, MD; Cleveland Clinic, Cleveland, OH
Alexios Carayannopoulos, DO, MPH; Rhode Island Hospital Comprehensive Spine Centre, Providence, RI
Sean Garvin, MD; Hospital for Special Surgery, New York, NY
Maged Guirguis, MD; Ochsner Health System, New Orleans, LA
Vivian Ip, MBCHB; University of Alberta Hospital, Edmonton, AB, Canada

Christina Jeng, MD; Icahn School of Medicine at Mount Sinai, New York, NY
Yan Lai MD, MPH; Mount Sinai St. Luke's and Roosevelt Hospitals, Icahn School of Medicine at Mount Sinai, New York, NY
Linda Le-Wendling, MD; University of Florida, College of Medicine, Gainesville, FL
Jemiel Nejim, MD; Hospital for Special Surgery, New York, NY
Oliver Panzer, MD; Columbia University, New York, NY
Steven Porter, MD; Mayo Clinic, Jacksonville, FL
Uma Shastri, MD, FRCPC; Vanderbilt University, Nashville, TN
Christopher Tanaka, MD; Montefiore Medical Center/Albert Einstein College of Medicine, Bronx, NY
Leslie Thomas, MD; Ochsner Medical Center, New Orleans, LA
Tricia Vecchione, MD, MPH; Johns Hopkins University, Baltimore, MD
Hong Vo, MD; Advanced Pain and Back institute, Chicago, IL
Yury Zasimovich, MD; University of Florida, Gainesville, FL

Faraj Abdallah, MD, is an associate professor of anesthesiology and pain medicine at the University of Ottawa in Ottawa, ON, Canada. His research interests are aimed at evolving anesthetic techniques and the use of regional anesthesia to optimize the short- and long-term patient outcomes following surgery. [top of page]

Sanjib Adhikary, MBBS, is an associate professor at Penn State Hershey Anesthesiology & Perioperative Medicine in Hershey, PA. He is an anesthesiologist with fellowships in acute pain and regional anesthesia and neuroanesthesia. He deals with regional anesthesia procedures and acute pain management cases daily in his clinical practice, and he teaches ultrasound-guided regional anesthesia to residents and faculty as a part of his daily job and during different workshops. Since 2009, he has been an instructor for advanced ultrasound-guided regional anesthesia workshops at ASRA and Canadian Anesthesia Society annual meetings. [top of page]

Michael Akerman, MD, is an assistant professor of anesthesiology at the Weill Cornell Medical Center in New York, NY. He obtained his medical degree from the Albert Einstein College of Medicine where he also did his residency training. He then went on to complete his fellowship in regional anesthesia at Cornell



Medical Center. Before joining the faculty at Cornell, he used his knowledge of regional anesthesia to revamp the regional anesthesia service at his previous hospital and increased patient hospital satisfaction. He has taught many regional anesthesia courses at the Post-Graduate Assembly and with the New York Society of Regional Anesthesia. Since joining the faculty at Cornell, he has been involved with resident and fellow education. [top of page]

Eric Albrecht, PD, is the program director of regional anaesthesia at the Lausanne University Hospital in Lausanne, Switzerland. He is the main author of three French-written books on anaesthesia, US-guided regional anaesthesia, and chronic pain medicine, all published by Elsevier-Masson. His field of research includes meta-analyses and prospective trials on acute postoperative pain, regional procedures, and sleep apnea syndrome. He is the main author of more than 40 peer-reviewed articles published in top-notch journals. Eric Albrecht is also a council member of the ESRA. [top of page]

Fernando Altermatt, MD, MHSc, MBA, is the director of the Clinical Research Center at Pontificia Universidad Católica de Chile (PUC). He is also the fellowship director of regional anesthesiology and acute pain medicine in the department of anesthesiology, School of Medicine, PUC. He did his fellowship in regional anesthesia and ambulatory surgery and received a master of health science in clinical research at Duke University Medical Center. His master of business administration was completed at PUC. His research interests are in regional anesthesia, clinical pharmacology, medical education, and procedural skills in anesthesia. [top of page]

Sandeep Amin, MD, is the chairman of anesthesia at Rush Oak Park Hospital, medical director at Rush Pain Center at Oak Park, and associate attending and assistant professor at Rush University Medical Center in Chicago, IL. Previously he was the director of Pain Fellowship Education at Rush University Medical Center and assistant clinical professor at the University of Illinois Hospitals. He attended medical school at Municipal Medical College in India and completed his residency in anesthesia at the University of Illinois Hospitals, where he was chief resident. He completed a fellowship in pain medicine at the University of

Illinois Medical Center and was a clinical fellow inpain medicine at Johns Hopkins Hospital in Baltimore, MD. His clinical interests include complex regional pain syndrome, low back pain, failed back surgery syndrome, cancer pain, supraorbital and occipital neuralgia, neuromodulation and targeted drug delivery, and radiofrequency denervation. [top of page]

Michael Andreae, MD, is an associate professor at Penn State Hershey in Hershey, PA. He studied medicine in Germany, Spain, the U.K., and Denmark and trained in anesthesiology in the U.S., where he became passionate about regional anesthesia. Dr. Andreae says that to convince surgeons of the value of regional anesthesia, doctors have to demonstrate lasting, long-term effects beyond the immediate recovery. This belief led him to start his first systematic review and meta-analysis on the prevention of chronic pain after regional anesthesia. His interests grew to include health care disparity, research ethics, and big data. [top of page]

Arthur Atchabahian, MD, trained in France as an orthopedic surgeon, then in anesthesiology at Columbia University and in critical care medicine at Mount Sinai, both in New York City. He is currently a professor of clinical anesthesiology at NYU School of Medicine. His interests include applied anatomy, the development of multimodal analgesia regimens, education in regional anesthesia, and long-term outcomes following anesthesia, especially the question of whether regional anesthesia and analgesia improve long-term outcomes, chronic pain, and postoperative cognitive dysfunction. [top of page]

Amany Ayad, MD, FIPP, is a professor of anesthesia and pain management at Cairo University in Egypt. She is the chair of pain management at El Manyal Specialized Hospital, Cairo University, as well as a consultant of anesthesia and pain management and head of pain management in Dar Al Fouad Hospital, Egypt. Dr. Amany has more than 18 publications in the *Egyptian Journal of Anesthesia*, *Pain Practice Journal*, *Journal of International Medical Research,* and *Pain Medicine Journal*. She has contributed a chapter in the JHACO book *Approaches to Pain Management, An Essential Guide for Clinical Leaders*. She is co-founder and general secretary of the African Society of Regional Anesthesia and Pain. In April 2011 she was elected secretary of the Middle East Chapter of the World Institute of Pain. She is a member of the Egyptian Society of Anesthesiologists. Dr. Ayad is co-founder and member of the Egyptian Society of Cardiovascular and Thoracic Anesthesia, member of the

Egyptian Society of Pain Management, member and fellow of the World Institute of Pain, and member of the International Association for the Study of Pain. [top of page]

Ezzat Aziz, MD, FRSA, is a professor of anaesthesia, faculty of medicine at Cairo University in Egypt. He is a part-time consultant anaesthetist at Chesterfield and North Derbyshire Royal Hospital, UK. Dr. Aziz is the founder and president of the African Society of Regional Anaesthesia and a member of the Professional Well-Being Committee, World Federation of Societies of Anesthesiologists (WFSA). He was the president and convener of the 4th World Congress of Regional Anaesthesia held in Cape Town in 2014. His special interest is in regional anaesthesia including ophthalmic anaesthesia. [top of page]

Jaime Baratta, MD, is a clinical assistant professor of anesthesiology and director of regional anesthesia as well as the director of the regional anesthesia and acute pain fellowship in the department of anesthesiology at Thomas Jefferson University in Philadelphia, PA. She received her medical degree from Jefferson Medical College. After serving five years as a medical officer in the United States Navy, she completed her residency and fellowship at Thomas Jefferson University. She will be the chair of the 2020 Regional Anesthesiology and Acute Pain Medicine Meeting. [top of page]

Michael Barrington, MBBS, FANZCA, PhD, is a senior staff anaesthesiologist at St. Vincent's Hospital in Melbourne and an associate professor at the University of Melbourne, Australia. He is responsible for the development of an International Registry of Regional Anaesthesia. His professional interests include quality and safety in regional anesthesia and methods to improve training and assessment in this field. Other professional activities and appointments include anaesthesia discipline lead for the Melbourne Clinical School at the University of Notre Dame Australia; associate editor for *Regional Anesthesia and Pain Medicine*; chair of the Australian and New Zealand College of Anaesthetist's Regional Anaesthesia Special Interest Group; member of the organizing committee for the Australasian Symposium for Ultrasound and Regional Anaesthesia 2008, 2009, 2012, and 2015; Newsletter Committee member for ASRA; and member of the Medical Expert Standing Panels for the Federal Department of Health and Ageing, Australia. [top of page]

Honorio Benzon, MD, is a a professor of anesthesiology at Northwestern University Feinberg School of Medicine in Chicago, IL. He graduated from the Far Eastern University in Manila, Philippines, and took his residency at the University of Cincinnati and Northwestern University Feinberg School of Medicine. He trained in neurophysiology at the Brigham and Women's Hospital. He has written 70 articles and 98 book chapters and has presented 95 abstracts. He is the editor of three books, Deputy Editor-in-Chief of *Pain Practice*, editor of *Anesthesia and Analgesia*, and associate editor of *Regional Anesthesia and Pain Medicine*. He is a member of Alpha Omega Alpha at Northwestern. [top of page]

Charles Berde, MD, PhD, is the Sara Page Mayo Chair and chief of the Division of Pain Medicine at Boston Children's Hospital (BCH) and professor of anaesthesia (pediatrics) at Harvard Medical School, Boston, MA. He completed an MD-PhD (biophysics) at Stanford, residencies in pediatrics (BCH) and anesthesiology (MGH) and fellowship in pediatric anesthesiology (BCH). Dr. Berde's research concerns development of novel prolonged duration local anesthetics, pediatric clinical pharmacology, and clinical outcomes. [top of page]

Mitchell Bernstein, MD, FACS, FASCRS, is the director of the division of Colon and Rectal Surgery at NYU Langone Medical Center in New York, NY. He received his general surgery training at the University of Massachusetts Medical Center and subsequent fellowship training in colon and rectal surgery at the Cleveland Clinic Florida in Weston. With a practice solely dedicated to benign and malignant conditions of the colon and rectum, Dr. Bernstein is academically involved at both the local and national levels with a focus on clinical trials and pathways. [top of page]

Tarun Bhalla, MD, MBA, has developed the pediatric pain services at Nationwide Children's Hospital in Columbus, OH, the largest children's hospital in the country. He began by serving as director of acute and regional pain and director of the pediatric regional anesthesia fellowship, and, most recently, as vice chairman of Comprehensive Pediatric Pain Services within the department of Pediatric Anesthesia and Pain Medicine. Dr. Bhalla is also an avid scholar as associate professor at The Ohio State University Medical Center. He continues to teach nationally and internationally as well as organize workshops. [top of page]

Anuj Bhatia, MD, FIPP, FRCPC, CIPS, is an assistant professor at University of Toronto and clinical director, chronic pain at University Health Network and Women's College Hospital in Toronto, ON, Canada. He is the chair of the Neuropathic Pain Special Interest Group of the Canadian Pain Society and member of the Royal College of Physicians and Surgeons' Pain Medicine Specialty committee. His clinical interests include treatment of neuropathic pain, fluoroscopy, and ultrasound (US)-guided procedures for chronic pain and neuromodulation. He has published more than 30 papers and six book chapters and has co-authored a book on US-guided procedures. [top of page]

Robert Bolash, MD, is an assistant professor of anesthesiology in the departments of Pain Management and Evidence-Based Pain Research at the Cleveland Clinic Lerner College of Medicine in Cleveland, OH. He received his medical degree from the University of Miami School of Medicine and trained in interventional pain management at the Cleveland Clinic. He is a Fulbright Scholar and is board certified in both pain management and anesthesiology. [top of page]

Michael Bolognesi ("Bolo"), MD, is a professor of surgery, chief of the Adult Reconstruction Division, and director of the Adult Reconstruction Fellowship in the department of Orthopaedic Surgery at Duke University School of Medicine in Durham, NC. He completed medical school and his residency at Duke, followed by a fellowship in adult reconstruction at the University of Utah in Salt Lake City. His practice is focused on total hip and knee replacement, uni-compartmental arthroplasty, revision total hip and knee replacement, and patient outcome optimization. [top of page]

Karen Boretsky, MD, started her career in the universities and hospitals in Pittsburgh specializing in adult and pediatric anesthesiology and perioperative pain management. In 2012 she became the director of the Regional Anesthesia Program at Boston Children's Hospital, Boston, MA. She is passionate about finding better ways to minimize pain and improve safety in pediatric patients and loves sharing her ideas with other enthusiasts. [top of page]

Alain Borgeat, MD, is a senior clinical and research consultant in the anesthesiology department at Balgrist University Hospital in Zurich, Switzerland. He is an expert in regional and intravenous anesthesia and pain medicine, a full professor for regional anesthesia at the University of Zurich, and a visiting professor at the College of Medicine in Chicago, IL. He serves on several editorial boards and has received numerous grants and awards for research projects. He has presented more than 900 invited lectures at international congresses and authored more than 250 scientific publications and 125 peer-reviewed publications. [top of page]

Jens Børglum, MD, PhD., is an associate professor in anesthesiology and intensive care medicine at Zealand University Hospital, University of Copenhagen, Denmark, and is section chief for clinical research. Dr. Børglum is an accomplished national and international researcher, invited speaker, and scientific faculty for numerous international conferences. He is the author of several textbook chapters and scientific peer-reviewed papers. His scientific focus is in ultrasound-guided peripheral nerve blocks (truncal, upper and lower extremities). [top of page]

Jan Boublik, MD, PhD, is an assistant professor of anesthesiology at Stanford University. He graduated medical school and received a PhD in bioengineering from Medizinische Hochschule Hannover, Germany, serving two years as a visiting scientist at the Massachusetts Institute of Technology, Division of Health Sciences and Technology, Cambridge, MA. He completed his residency at Brigham and Women's Hospital in Boston, MA. His research interests include point-of-care ultrasonography (PoCUS), functional outcomes after surgery, innovative technologies, and techniques in anesthesia. He currently serves on the ASRA Membership Committee and co-chairs the Perioperative Point-of-Care Ultrasound Special Interest Group. [top of page]

Richard (Ricky) Brull, MD, FRCPC, completed his anesthesia residency at the University of Toronto, ON, Canada, and undertook fellowship training in regional anesthesia at the Hospital for Special Surgery in New York, NY. His primary academic interest is neurological complications of regional anesthesia. Ricky holds the rank of professor of anesthesia at the University of Toronto and currently serves as the site chief for the department of anesthesia at Women's College Hospital in Toronto. [top of page]

Chad Brummett, MD, is an associate professor at the University of Michigan where he is the director of pain research and, more broadly, the director of clinical anesthesia research. He serves on the editorial boards for *Anesthesiology* and *Regional Anesthesia and Pain Medicine*. His research interests include predictors of acute and chronic post-surgical pain and failure to derive benefit for interventions and surgeries done primarily for pain. In particular, Dr. Brummett is interested in the impact of fibromyalgia-like or centralized pain phenotype on analgesic outcomes. [top of page]

Asokumar Buvanendran, MD, is an anesthesiologist specializing in pain medicine, and his academic activities are divided between research, teaching, and clinical duties in the Rush University Department of Anesthesia in Chicago, IL, and national advocacy for the advancement of pain care. He brings a unique perspective of a very busy clinical practice of acute and chronic interventional pain medicine with

research. He is involved in various clinical and basic research in the field of acute and chronic pain. At leisure time, he enjoys playing tennis. [top of page]

Maria Minerva Calimag, MD, PhD, is a full professor at the Faculty of Medicine and Surgery; professorial lecturer for the MHPEd and MHA programs at the graduate school; and senior associate researcher at the Research Center for Social Science and Education, and the Research Center for the Health Sciences, all at the University of Santo Tomas, Manila, Philippines. She holds the following academic degrees: doctor of medicine, master of science in clinical epidemiology under scholarship with the Philippine Council for Health Research and Development, and doctor of philosophy in education major in educational management and leadership. She was first member of the Medical Council at the Professional Regulation Commission and is now a member of the Commission on Higher Education Technical Committee on Medical Education. She is a fellow of the Philippine Society of Anesthesiologists (PSA), past vice-chair of the Board of Examiners, and a member of the Commission on Program Accreditation of the Philippine Board of Anesthesiology. She has served two terms as president of the Society for Obstetric Anesthesia of the Philippines, PSA, the Philippine Medical Association, and the Asian and Oceanic Society of Regional Anesthesia and Pain Medicine. [top of page]

Bridget Calhoun, DrPH, PA-C, has been a physician assistant for 23 years and is currently the chair of the PA program at Duquesne University in Pittsburgh, PA. She earned a doctoral degree in public health in infectious diseases and microbiology and works clinically in HIV/AIDS research at the University of Pittsburgh Graduate School of Public Health. [top of page]

Aaron Calodney, MD, is past president of the Texas Pain Society and past president of the American Society of Interventional Pain Physicians. He has served on the board of the International Spine

Intervention Society for many years and was director of Education. Dr. Calodney is board certified in anesthesiology and carries subspecialty certification in pain management through the American Board of Anesthesiology. Dr. Calodney earned his medical degree from the University of Missouri School of Medicine in Columbia, MO, and completed a family medicine internship at St Joseph's Hospital in Syracuse, NY. His residency in anesthesiology and subsequent interventional pain management fellowship was completed at the University of Texas Health Science Center at Houston. He subsequently completed a fellowship in pediatric anesthesia at the Denver Children's Hospital, Denver, CO. [top of page]

Alexios Carayannopoulos, DO, MPH, is the director of the Comprehensive Spine Center and division director of Pain and Rehabilitation Medicine at Rhode Island Hospital in Providence. He is a clinical assistant professor of neurosurgery at The Warren Alpert Medical School of Brown University. He is board certified in both physical medicine and rehabilitation, as well as in pain medicine. Dr. Carayannopoulos completed his residency at Harvard Medical School, Spaulding Rehabilitation Hospital, in Boston, MA, and a fellowship at Dartmouth College in Hanover, NH. He is a Harvard-trained acupuncturist and U.S. Navy Undersea Medical Officer. [top of page]

John Carrino, MD, is an author on numerous peer-reviewed scientific and review publications in a diversified compendium of domains. For the past 20 years, he has held a number of positions at several prestigious academic institutions including Harvard, Thomas Jefferson, and Johns Hopkins, with a track record of breakthrough research, education innovation, and technology transfer to clinical practice. He currently is the vice-chairman of the Radiology and Imaging department at the Hospital for Special Surgery and Professor of Radiology at Weill Cornell Medical College in New York, NY. [top of page]

Vincent Chan, MD, FRCPC, FRCA, is a professor in the department of Anesthesia at the University of Toronto, ON, Canada. He served as president of ASRA from 2009 to 2011 and received the Gaston Labat Award in 2016 and the Distinguished Service Award in 2017. He also has received the Gold Medal Award by the Canadian Anesthesiologists' Society in 2009 and the Carl Koller Award from the European Society of Regional Anaesthesia and Pain Therapy in 2016. Dr. Chan received his bachelor's of science degree and MD from McGill University in Montreal, QC, Canada, and he obtained postgraduate training in

anesthesiology at the University of Toronto. Dr. Chan also serves on the editorial board of *Anesthesiology* and *Regional Anesthesia Pain Medicine*. He has published more than 200 peer-reviewed articles, 14 book chapters, and 80 scientific abstracts. He has performed 46 visiting professorships in North America and abroad and given more than 120 international and 90 domestic lectures. In addition, he has trained more than 40 postgraduate clinical and research fellows during his academic career. [top of page]

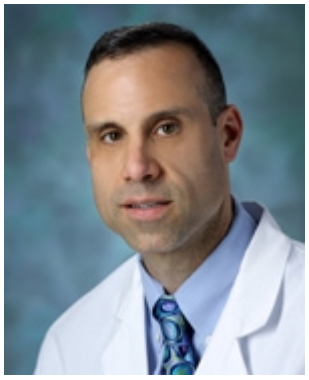
Susilo Chandra, FRCA, obtained his faculty of medicine from the University of Indonesia in Jakarta. Dr. Chandra is a faculty member in the department of Anesthesiology and Intensive Therapy at Cipto Mangunkusumo General Hospital, University of Indonesia. In February 2010, he was awarded the Royal College of Anesthetists Fellowship by election. As the chairman of Indoanesthesia, Dr. Susilo Chandra has held the annual meeting of Indoanesthesia 14 times, most recently as an executive committee member of the World Federation of Societies of Anaesthesiologists (WFSA). He is also a member of the committee for European Education in Anesthesiology and as a board member of the Asian Australian Regional Section of WFSA. [top of page]

Ki Jinn Chin, MBBS, FANZCA, FRCPC, is the fellowship coordinator and regional anesthesia program director at the Toronto Western Hospital and is an associate professor in the Department of Anesthesia at the University of Toronto, in Toronto, ON, Canada. He attended medical school at the University of Newcastle-upon-Tyne, U.K., and completed his residency in anesthesiology in Singapore. He subsequently completed two subspecialty fellowships in Canada: the first in neuroanesthesia at the University of Western Ontario in London, ON, and the second in regional anesthesia at Toronto Western Hospital. He is passionate about ultrasound-guided regional anesthesia but is especially interested in ultrasonography of the spine and teaching needle handling and injection techniques.

David Clark, MD, PhD, is a professor of anesthesia at Stanford University and director of the Palo Alto VA Pain Clinic, Palo Alto, CA. His interests are in clinical pain management as well as in the neurobiology of pain and adverse consequences of opioid use. His research laboratory is funded to study the mechanisms responsible for acute pain becoming chronic, maladaptations to chronic opioid administration, and the persistence of pain after traumatic brain injury. [top of page]

Hance Clarke, MD, PhD, is the director of Pain Services and the medical director of the Pain Research Unit at the Toronto General Hospital in Toronto, ON, Canada. After his medical doctor and anesthesia subspecialty training in Toronto, he received his PhD from the Institute of Medical Sciences at the University of Toronto. He is a member of the Royal College Clinician Scientist Program. He is the research chair for the University of Toronto Centre for the Study of Pain. In 2016, Dr. Clarke was awarded a Career Award from the Canadian Pain Society. [top of page]

Daniel Clauw, MD, is a professor of anesthesiology, medicine, and psychiatry and director of the Chronic Pain and Fatigue Research Center at the University of Michigan in Ann Arbor. At the University of Michigan, he became the first assistant and then associate dean for Clinical Research as well as the first PI of the University of Michigan Clinical and Translational Sciences Award. [top of page]



Steven P. Cohen, MD, obtained his medical degree at the Mount Sinai School of Medicine in New York City, completed an anesthesiology residency at Columbia University, and completed a pain management fellowship at Massachusetts General Hospital, Harvard Medical School. He is a professor of anesthesiology, critical care medicine, and physical medicine and rehabilitation at the Johns Hopkins School of Medicine in Baltimore, MD, and Uniformed Services University of the Health Sciences in Bethesda, MD. [top of page]

Brian Cole, MD, MRA, is a professor in the department of orthopedics with a conjoint appointment in the department of anatomy and cell biology at Rush University Medical Center in Chicago, IL. In 2015, he was appointed as the vice-chairman of the department of orthopedics. In 2011, he was appointed chairman of surgery at Rush Oak Park Hospital. He is the section head of the Cartilage Research and Restoration Center at Rush University Medical Center specializing in the treatment of arthritis in young active patients. He also serves as the head of the Orthopedic Master's Training Program and holds several leadership positions in sports medicine societies. He lectures nationally and internationally, and, through his basic science and clinical research, has developed several innovative techniques for the treatment of shoulder, elbow, and knee conditions. He has published more than 1,000 articles and eight widely read textbooks in orthopedics. He is the head team physician for the Chicago Bulls and, in 2009, was selected as team physician of the year. He is recognized regularly as a "Top Doctor" and widely known for his research in regenerative medicine. He also is an associate team physician for the Chicago White Sox and DePaul University. [top of page]

Javier Cubillos, MD, is a staff anesthesiologist at Hospital Universitario San Ignacio/Fundación Santafe de Bogota and assistant professor at Pontificia Universidad Javeriana and Universidad del Bosque Medical School. He studied regional and obstetric anesthesia at the University of Toronto. Dr. Cubillos serves as international faculty for ISURA and NYSORA. He is also a coordinator for the Point-of-Care Ultrasound Applications Committee for the Sociedad Cundinamarquesa de Anestesiología. [top of page]

Jose De Andres, MD, PhD, FIPP, EDRA, is a professor of anaesthesiology at the Valencia University School of Medicine and chairman of the anaesthesia, critical care, and multidisciplinary pain management departments in the Valencia University General Hospital, Valencia, Spain. He is the president of the board of directors of the European Society of Regional Anesthesia and Pain Therapy, editor of *Pain Practice,* and associate editor for *Regional Anesthesia and Pain Medicine, The Clinical Journal of Pain,* and *European Journal of Pain-Supplements.* Dr. De Andres is an examiner for the European Diploma of Anaesthesia of the European Society of Anaesthesia. [top of page]

Oscar de Leon-Casasola, MD, is the senior vice-chair and professor of anesthesiology (tenure track), department of anesthesiology, and professor of medicine at the University at Buffalo, School of Medicine

and Biomedical Sciences. He is also chief of the division of pain medicine and a professor of oncology at Roswell Park Cancer Institute, Buffalo, NY. Dr. de Leon-Casasola was the editor-in-chief of the journal *Techniques in Regional Anesthesia and Pain Management* from 2000 to 2011. He also served on the editorial board of *Seminars in Pain Medicine* and the *Journal of the Spanish Society of Pain*. [top of page]

Martha Tecca DelPizzo, EdD, is a knee arthroplasty patient. She underwent unilateral total knee replacements in 2013 and 2015 at Hospital for Special Surgery in New York City. Dr. DelPizzo has unique insights into the perioperative experience for this particular operation from the perspective of the patient. [top of page]

Pasquale De Negri, MD, FIPP, serves as the chairman of the department of Surgical Oncology and Pain Medicine; director of the Department of Anesthesia, Intensive Care and Pain Medicine at IRCCS CROB Cancer Center Rionero in V (Italy) since 2011. Since 2014 Dr. De Negri has been a locum chronic pain consultant for the Medical Specialist Group at Princess Elizabeth, Guernesey, Channel Island. He is also a specialist in anesthesiology and intensive care; specialist in pediatrics; and fellow in interventional pain practice, through the World Institute of Pain. [top of page]

Timothy Deer, MD, has been actively involved in the field of Interventional Pain Medicine, for almost 20 years, as a clinician, educator, and researcher. During this time, he has had the opportunity to treat thousands of patients in his clinical practice and educate hundreds of physicians in the field both as a mentor and as clinical professor. Dr. Deer has held a number of national and international society positions including president of the International Neuromodulation Society, president of West Virginia Society of Interventional Pain Physicians, and the American Society of Anesthesiologists. [top of page]

Alain Delbos, MD, is an anesthesiologist in the department of anesthesia at Medipole Garonne in Toulouse, France. His specialties are orthopedic surgery and regional anesthesia. [top of page]

Derek Dillane, MB BCh, FCARCSI, is an associate professor at University of Alberta where he completed a clinical and research fellowship in regional anesthesia in 2006. His clinical research interests involve the use of ultrasound in regional anesthesia with a particular focus on education and training techniques. He has taught and led numerous ultrasound workshops in North America and internationally. He is a past chair of Canadian Anesthesia Society Regional Anesthesia Section. [top of page]

Maxim Eckmann, MD, received his bachelors of science degree in Biomedical Engineering in 1998 from Texas A&M University, College Station, and later his doctor of medicine degree from Baylor College of Medicine, Waco, TX, in 2003. He completed his residency training in anesthesiology at the University of Michigan in Ann Arbor in 2007, and then went on to complete his pain medicine fellowship at the University of Texas Health Science Center at San Antonio (UTHSCSA) in 2008. He then joined the faculty at UTHSCSA, becoming the director of the Pain Medicine Fellowship in 2011 as well as the medical director of the primary pain clinic. [top of page]

Urs Eichenberger, MD, PhD, obtained postgraduate training in anesthesiology at University of Bern, Switzerland, and board certification 2000. He has published more than 50 peer reviewed articles and has given more than 150 lectures in the fields of ultrasound-guided regional anesthesia and interventional pain medicine. He is one of the founding fathers of ASRA's Ultrasonography in Pain Medicine Special Interest Group. He currently serves as

chair of the department of anesthesia at Balgrist University Hospital in Zurich, Switzerland, and board member of the Swiss Society of Anesthesia. [top of page]

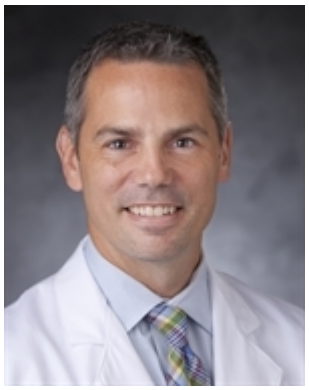
Sam Eldabe, MD, FRCA, is a senior consultant in Pain Management at The James Cook University Hospital Middlesbrough in Middlesbrough, U.K. and honorary professor of pain medicine at University of Exeter Medical School in Exeter, Devon, U.K. His main interest within chronic pain management is neuromodulation for management of pain and spasticity. He has extensive experience with a number of indications of neuromodulation including vascular and neuropathic pain, cancer pain, and spasticity of cerebral and spinal origins. He is the co-author or author of more than 60 papers in the area of pain management and neuromodulation and has contributed to a number of book chapters. His current research interests include the use of neurmodulation for rehabilitation of back pain sufferers, spinal cord stimulation for refractory angina, as well as the utility of screening trials in spinal cord stimulation. [top of page]

Nabil Elkassabany, MD, MSCE, is an assistant professor in the department of anesthesiology and critical care at the University of Pennsylvania in Philadelphia. He is the director of the section of Orthopedic and Regional Anesthesiology. Dr. Elkassabany completed his anesthesia residency training at Cleveland Clinic and did his regional anesthesia training at the University of Florida. He earned his master's degree in clinical epidemiology and biostatistics in December 2012 from the Perelman School of Medicine at the University of Pennsylvania. His research interest focuses on patients' outcomes after regional anesthesia. He is currently the editor of the *ASRA News.* [top of page]

Hesham Elsharkawy, MD, MBA, MSc, is a staff member in the Anesthesia Institute and Outcomes Research at Cleveland Clinic. He is also associate professor at Case Western Reserve University in Cleveland, OH. His clinical and research interest includes ultrasound technology, interfascial plane blocks, quadratus lumborum blocks, and innovation in pain. He has directed many workshops and given lectures nationally and international. He has an MBA degree from Cleveland State University and is board certified by the ABA and NBE. [top of page]

Steven Falowski, MD, is presently director of Functional Neurosurgery at St. Lukes University Health Network in Bethlehem, PA, with a practice specializing in neuromodulation. He is meeting chair and board of directors for the North American Neuromodulation Society(NANS), and a board member of the Congress of Neurological Surgeons Executive Pain Committee. His major focus in society and industry revolves around education, integration of specialties, and practice management. He is the course director of the annual NANS spinal cord stimulation/neuromodulation workshop that is the largest international course available and also serves as course director for the INS cadaver workshops. [top of page]

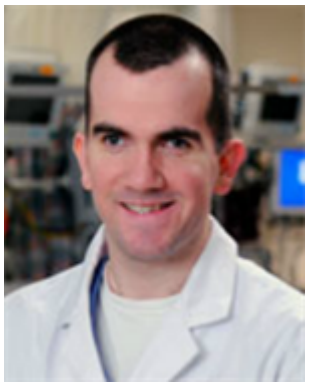
Carlo Franco, MD, is the chairman of Regional Anesthesia at John H. Stroger Jr. Hospital of Cook County and professor of anesthesiology and Anatomy at Rush University Medical Center in Chicago, IL. Dr. Franco was born in Chile and received his degree in general surgery and anatomy from the University of Valparaiso in Chile. He immigrated to the United States in 1985 and was the visiting professor of Anatomy at the Medical College of Ohio in Toledo, OH. His completed his anesthesiology residency at Sinai Hospital of Detroit in Detroit, MI. Dr. Franco has made many contributions to professional journals and regional anesthesia books and has introduced some new anatomy-based nerve block techniques. [top of page]



Jeff Gadsden, MD, FRCPC, FANZCA, is a staff anesthesiologist at Duke University Hospital in Durham, NC. He graduated with an MD in 1999 from Queen's University in Kingston, ON, Canada, and undertook training in anesthesiology at the University of Toronto and St. Luke's-Roosevelt Hospital in New York City. Dr. Gadsden holds fellowships with the Royal College of Physicians and Surgeons of Canada (anesthesia) and the Australian and New Zealand College of Anaesthetists, and he is board certified by the American Board of Anesthesiology. After working in both Canada and Australia, he decided to return to the United States to focus on his teaching and research interests of ultrasound-guided nerve blockade, the monitoring of regional anesthesia, trauma, and education. [top of page]

Tong Joo Gan, MD, MBA, MHS, is Professor and Chairman of the Department of Anesthesiology at Stony Brook Medicine in Stony Brook, New York. Previously, Dr. Gan was Professor of Anesthesiology, Vice

Chairman for Clinical Research and Faculty Development at Duke University. Dr. Gan is a diplomate of the American Board of Anesthesiology and is a fellow of both the Royal College of Anaesthetists of England. Dr. Gan has been the recipient of the Society for Ambulatory Anesthesia Young Investigator Award and the International Anesthesia Research Society Clinical Scholar Research Award. He serves as the Ambulatory Anesthesia and Perioperative Management Section Editor of Anesthesia and Analgesia and is on the Editorial Board of Perioperative Medicine. Dr. Gan is also the Founding President of the American Society for Enhanced Recovery (ASER), a Past President of The Society for Ambulatory Anesthesia (SAMBA) and International Society for Anesthetic Pharmacology (ISAP). He has published over 200 manuscripts in peer-reviewed journals and numerous books and books chapters. Dr. Gan has served as an invited speaker for many national and international professional conferences and as principal investigator or co-investigator for over 100 clinical trials. [top of page]



Sean Garvin, MD, is Board Certified in Anesthesiology, Critical Care Medicine and Perioperative TEE who after completing residency at Weill Cornell Medical College, went on to complete fellowships in Critical Care and Cardiothoracic Anesthesia at Brigham and Women's Hospital. Dr. Garvin currently serves as the medical director of the Orthopedic Special Care Unit at the Hospital for Special Surgeryand has been involved in numerous perioperative cardiac ultrasound research projects and educational conferences. [top of page]

Christopher Gharibo, MD, is an Associate Professor with the Departments of Anesthesiology, Peri-Operative care & Pain Medicine, and Orthopedics at NYU School of Medicine and serves as the Medical Director of Pain Medicine at NYU Langone Health. He holds editorial position with Pain Physician, Interventional Pain Management Case Reports as a section editor. He is the past president of NYSIPP and President-Elect of the Eastern Pain Association. [top of page]

James Grant, MD, MB, FASA, is the Chair of Anesthesiology at Beaumont Hospital in Royal Oak, Michigan, Professor and Chair of Anesthesiology at Oakland University William Beaumont School of Medicine, and is the 100th president of the American Society of Anesthesiologists (ASA). Dr. Grant has held numerous leadership positions within the ASA and has served on numerous ASA committees. Dr. Grant

currently serves on the Board of Directors of the Anesthesia Foundation, Foundation for Anesthesia Education and Research, and Blue Cross Blue Shield of Michigan. He is an associate examiner of the American Board of Anesthesiology and is Chair of the Michigan Delegation to the American Medical Association. [top of page]

Stuart Grant, MBChB, MMCI, is a Professor of Anesthesiology at Duke University Medical Center. Originally from Glasgow, Scotland, he has worked with residents and fellows at Duke University teaching reginal anesthesia for over 15 years. He has published over 50 papers and book chapters on regional anesthesia and authored a textbook on ultrasound guided regional anesthesia now on its second edition. He currently is investigating new technologies for analgesia including ultrasound guided peripheral nerve stimulation. [top of page]

Dr. Andrew Gray, MD, PhD, is a professor of clinical anesthesia at the University of California, San Francisco where he directs the regional anesthesia program at San Francisco General Hospital. He has written more than 20 articles and two textbooks on ultrasound guided regional anesthesia and now pursues investigations on safety and efficacy of new regional anesthetic techniques. [top of page]

James Stewart Green, MBBS, FRCA, is an associate clinical professor and the director of the Acute Pain Service at the University of Alberta Hospital in Edmonton, AB, Canada. Current research interests include perioperative ultrasound for targeted fluid resuscitation of hip fracture patients and management of the airway. [top of page]

Jay Grider, DO, is the Associate Chief Medical Officer for UKHealthCare Ambulatory Services and the medical director for UKHealthCare Pain Services. He is active in the American Society of Regional Anesthesia and Pain Medicine, NANS and ASIPP. Additionally, he serves on national committees related to pain medicine in the American Academy of Pain Medicine and the American Society of Anesthesiologists. Dr. Grider has lectured nationally and internationally on topics related to neuromodulation, interventional techniques and opioid pharmacology for ASRA, ASIPP and the NANS. [top of page]

Carrie Guheen, MD, is a board-certified anesthesiologist, who completed her residency at Weill Cornell Medical College in New York, NY, where she served as chief resident in her final year. Upon completing her residency, she spent one year as regional anesthesia and acute pain medicine fellow at the Hospital for Special Surgery (HSS). During Dr. Guheen's fellowship, she worked on a number of educational initiatives. As an attending anesthesiologist, she continues to be very involved in resident and fellow education both at HSS and at national meetings throughout the year. She is a member of the department's dedicated Spine Team. [top of page]

Maged Guirguis, MD, serves as the director of research for the pain management department in Ochsner Health System and the pain medicine rotation director for the University of Queensland Ochsner Clinical School. He also serves as assistant clinical professor at Louisiana State University (LSU) department of internal medicine, section of pain and PMNR. After completing a residency in internal medicine in his home country, he joined the Cleveland Clinic Foundation for a research fellowship in pain medicine before completing his residency in anesthesiology and clinical fellowship in pain management. Dr. Guirguis has published numerous papers and book chapters as well as presented various clinical trials at national and international meetings. He serves as teaching faculty in the American Society of Anesthesiology, North American Neuromodulation Society, and the Interventional Headache Society. Also serves on both the educational and research committees for the International Neuromodulation Society. [back to top]

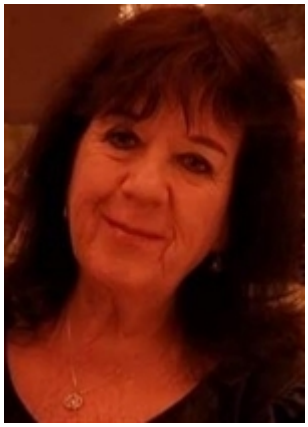
Amitabh Gulati, MD, is an anesthesiologist and pain medicine physician practicing in New York City. He is assistant professor and Director of Chronic Pain, specializing in interventional cancer pain management, at Memorial Sloan Kettering Cancer Center. He received his medical degree from Baylor

College of Medicine, completed his anesthesiology residency at Emory University School of Medicine, and obtained his pain management fellowship diploma from Weill Cornell School of Medicine in 2007. Dr. Gulati completed his acupuncture certification at the Helms Medical Institute in 2007, and is licensed to practice in the state of New York. He is currently the program director of the Weill Cornell pain management fellowship in New York City. [top of page]

Rajnish Gupta, MD, is an associate professor of anesthesiology at Vanderbilt University Medical Center in Nashville, TN. In addition to clinical work in anesthesia and acute pain management, Dr. Gupta spends a significant amount of time teaching trainees. His research interests include work as co-Investigator on a National Institute of Health-funded study evaluating the impact of endogenous opioid activity on variable responses to morphine. Additionally, Dr. Gupta has a passion for innovation and has developed several smart-phone based apps for ASRA and other medical organizations. [top of page]

Admir Hadzic, MD, PhD, has been at the forefront of academic anesthesiology for nearly 2 decades. His work has substantially contributed to the development of functional regional anesthesia anatomy, standardized techniques of nerve blocks, understanding of outcome benefits of regional anesthesia, and monitoring principles to improve the safety of regional anesthesia. He has published numerous peer-reviewed articles and 2 leading anesthesia textbooks. He has lectured at Universities and top Anesthesia CME events world-wide. He is a founder of global educational programs, NWAC, Networking World Anesthesia Convention and NYSORA, The New York School of Regional Anesthesia, an organization with readership of 12,000 weekly. With NYSORA's philanthropic ESOP Program (Educational Outreach Scholar Program), Dr Hadzic has substantially contributed to the development of regional anesthesia throughout the world. His latest endeavor is Anesthesiology Network, a professional network for anesthesiologists that aims to connect clinicians in operating rooms worldwide (http://www.anesthesiology-network.com/). In his spare time, Dr Hadzic is an avid photographer (http://admophotography.zenfolio.com/) and leads a blues-rock band "Big Apple Blues" (www.bigappleblues.com) which has toured worldwide. The Big Apple Blues release "Brooklyn Blues" charted top #10 blues albums in 2010 (Real Blues Magazine). The band's newest release "Energy" (StoneToneRecords, 2014) has been receiving rave reviews and is played on radio stations worldwide, including Spotify, ITunes and others. [top of page]

David Hardman, MD, MBA, FASA, is a professor of anesthesiology and vice-chair for Professional Affairs at the University of North Carolina at Chapel Hill. He has a special interest in nerve injury after peripheral nerve block, including the unique malpractice risks facing regional anesthesiologists, and has widely lectured in this area. He has taught ultrasound-guided regional anesthesia and anatomy at various workshops given at the national and international level, utilizing both live models and cadaver specimens. [top of page]



Mary Hargett, BSciEd, is the director of education and clinical initiatives for the Department of Anesthesiology at Hospital for Special Surgery (HSS). Ms. Hargett has been a member of HSS for 30 years and serves on several departmental and interdisciplinary committees, often in a leadership role. Ms. Hargett has been the administrator for the North American Regional Anesthesiology and Acute Pain Medicine Fellowship Directors' Group, a voluntary group, since its inception in 2002. She is a co-author on all three versions of the Guidelines for Regional Anesthesia Fellowships, as well as several other peer-reviewed works. [top of page]

Michael Harned, MD, is the medical director of UK Healthcare's Interventional Pain Associate and program director of the multidisciplinary Pain Medicine Fellowship. Dr. Harned joined the faculty of the department of anesthesiology at the University of Kentucky in 2008. In the intervening years, he has also spent time running a private pain clinic. Currently president of the Kentucky Society of Anesthesiologists, Dr. Harned also serves on various committees for the American Society of Anesthesiologists, the American Academy of Pain Medicine, and International Neuromodulation Society. [top of page]

Brian Harrington, MD, who trained at Virginia Mason Medical Center in Seattle, WA, has been in practice for more than 20 years at the Billings Clinic Hospital in Billings, MT. Special interests include analysis of the practical aspects of providing regional anesthesia in the community practice setting, including the acquisition and maintenance of skills in regional techniques. [top of page]

T. Kyle Harrison, MD, is a clinical associate professor of anesthesiology, perioperative and pain medicine at Stanford University School of Medicine/VA Palo Alto Healthcare System in Palo Alto, CA. He graduated from Stanford University School of Medicine in 1999 and completed both his anesthesiology training as well as a fellowship in medical simulation and crisis management at Stanford University in 2004. He joined the anesthesia staff at the VA Palo Alto in 2004. His professional interests include cardiac anesthesia, regional anesthesia, and perioperative medicine. In addition to his clinical duties, he is also an associate program director for the anesthesia residency training program at Stanford University. [top of page]

Stephen Haskins, MD, is a regional anesthesiologist trained at the Hospital for Special Surgery (HSS) in New York, NY; however, during fellowship he developed an interest in point-of-care ultrasound (PoCUS), specifically focused cardiac, lung, and abdominal ultrasound. [top of page]

Salim Hayek, MD, is currently the chief of the division of pain medicine at University Hospitals and professor in the department of anesthesiology at Case Western Reserve University in Cleveland, OH. He is well published and serves on the editorial board of most pain journals. Dr. Hayek has had a number of service accomplishments at the local and national levels including being a member of the board of directors (currently Secretary) of the North American Neuromodulation Society for two terms. [top of page]

Daryl Henshaw, MD, completed an internship, residency, and regional anesthesia and acute pain management fellowship at Wake Forest University Baptist Medical Center in Winston-Salem, NC. He has been on faculty at Wake Forest University School of Medicine for the past six years and currently holds the rank of associate professor. He serves as the medical director for the section of regional anesthesia and acute pain management and is also the assistant medical director for the institution's Perioperative Surgical Home. [top of page]

Terese Horlocker, MD, is a professor of anesthesiology and orthopedics at Mayo Clinic College of Medicine in Rochester, MN, and a section editor for *Regional Anesthesia and Pain Medicine* and *Anesthesia & Analgesia*. She received the Gaston Labat Award in 2011 and the Distinguished Service Award in 2009. She served as president of ASRA from 2003-2005 and chair of the CME Committee from 2015-2017. [top of page]

Jean-Louis Horn, MD, is a professor and chief of the division of regional anesthesia at Stanford University Medical Center in Stanford, CA, where he actively pursues his endeavors in all aspects of the academic mission of the institution including the development of a productive clinical practice, innovative research projects, and original education curriculum. In order to promote better and safer regional anesthesia and acute pain practice, he is involved with many departmental, institutional, and national committees as well as teaching and mentoring students and colleagues locally, nationally, and internationally. [top of page]

Marc Huntoon, MD, is editor-in-chief of *Regional Anesthesia and Pain Medicine* and a professor of anesthesiology and director of Pain Management at the Virginia Commonwealth University Neuroscience, Orthopaedic and Wellness Center in Richmond VA. [top of page]

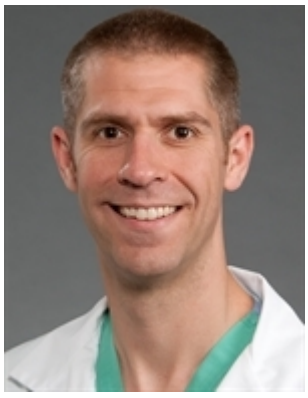
Barys Ihnatsenka, MD, started his career in anesthesia and critical care in 1995 when he graduated from medical school in Belarus. In 2001, he moved to the United States. In 2005, he started residency training at the University of Florida in Gainesville, where he also completed his fellowship in regional anesthesia and acute pain medicine. Since graduation, he has been a faculty member at the University of Florida. He is in interested in education and simulation especially in regional anesthesia. [top of page]

Brian Ilfeld, MD, MS, completed medical school and his residency at the University of California San Francisco and did a regional fellowship as well as earn his master's of science degree in clinical investigation at the University of Florida in Gainesville. Since 2006, his focus has been in clinical research at the University of California San Diego. Dr. Ilfeld has received more than $10 million in career federal funding with current clinical research involving the treatment of both acute and chronic pain with ambulatory continuous peripheral nerve blocks, cryoneurolysis, and percutaneous peripheral nerve stimulation. [top of page]

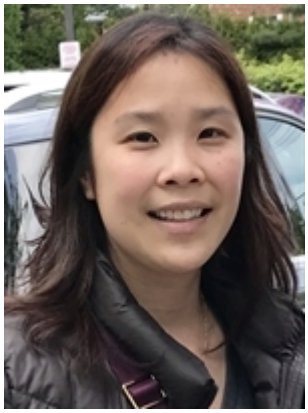
Vivian Ip, MB ChB, is an associate clinical professor of anesthesia at the University of Alberta Hospital in Edmonton, Canada. She is one of the leaders of the Fentanyl Crisis Campaign known as Doctors against Tragedies. She was previously the director of the Ambulatory Regional Anesthesia Program at the University of Alberta hospital. She received her anesthesia training in London, UK. Subsequently, she undertook two fellowships in Canada: Regional Anesthesia and Acute Pain Management, and Ambulatory Anesthesia. She is actively involved in ASRA, previously served on the Research Committee, and will take on the associate editor role on the Newsletter Committee in Spring, 2018. She is also active in research and her research interests include regional nerve block catheters, airway, and green anesthesia. [top of page]

Giorgio Ivani, MD, is chair of the division of pediatric anesthesiology and intensive care at Regina Margherita Children's Hospital in Turin, Italy, and a professor of pediatric anesthesia at the University of Turin. Dr. Ivani is a past president of the European Society of Regional Anaesthesia and Pain Therapy. He has written more than 100 papers in peer-reviewed journals and has served as editor of many chapters and books on pediatric regional anesthesia and pain. [top of page]

Heather Jackson, MSN, FNP-BC, is the advance practice nursing (APN) team leader at Vanderbilt University Medical Center Interventional Pain Center. In her leadership role, she continues efforts to enable APN team members to successfully attain interventional procedural privileges. As an active clinician in research, she has also developed two randomized controlled studies evaluating the efficacy of acupuncture and acupressure in the adult and neonatal population. She readily shares her clinical knowledge and experience through local, state, and national presentations. [top of page]



Jonathan Jaffe, DO, completed his residency at Cooper University Hospital in Camden, NJ, and a regional anesthesia and acute pain management fellowship at Wake Forest University Baptist Medical Center in Winston-Salem, NC. He has been on faculty at Wake Forest University School of Medicine for the past six years and currently holds the rank of assistant professor. He serves as the fellowship director in regional anesthesiology and acute pain management. [top of page]



Christina Jeng, MD, is an assistant professor in anesthesiology, perioperative and pain medicine, and orthopaedics. She graduated from Yale University in New Haven, CT, and medical school at the Mount Sinai School of Medicine in New York, NY. She is the director of the regional anesthesiology fellowship and assistant program director for the resident training program at the Icahn School of Medicine at Mount Sinai. She has taught ultrasound-guided regional anesthesia in workshops at the annual meetings of the American Society of Anesthesiologists and the Post-Graduate Assembly. She has been invited to give

lectures and teach workshops at international symposiums as well. [top of page]

Rebecca Johnson, MD, is an assistant professor of anesthesiology at Mayo Clinic in Rochester, MN. She is fellowship-trained in regional anesthesia and acute pain management. Dr. Johnson has been active in ASRA since 2008, serving as Resident Section chair-elect followed by chair of the Resident Section Committee from 2010-2011. She has been a member of ASRA faculty since 2011 and has participated in the Newsletter Committee, Resident Section Committee, Communications Committee, Membership Committee, and Fall and Spring Meeting Planning Committees. She is the first author of several scientific papers, with topics including falls and peripheral nerve blockade surrounding major orthopedic surgery, optimization of perioperative care including anesthesia interventions, and clinical pathways for patients undergoing joint replacement surgery. Additionally, Dr. Johnson has received a Certificate in Clinical and Translational Science from Mayo Clinic and is among a select group of Mayo Clinic faculty to be appointed as a Health Care Delivery Scholar since July 2014. [top of page]

Leonardo Kapural, MD, PhD, is a professor of anesthesiology at Carolinas Pain Institute in Clemmons, NC. Dr. Kapural's interests include spinal cord stimulation and visceral abdominal pain. Dr. Kapural's experience is broad and encompasses teaching and clinical education, extensive research, and innovations in the area of pain treatments which brought him two Innovator Awards. His noteworthy research findings have been published in more than 100 journal articles, 100 abstracts, two books and 20 book chapters. He is listed by his peers in the "Best Doctors of America." [top of page]

Manoj Kumar Karmakar, MD, FRCA, is the director of paediatric anaesthesia in the department of anesthesiology and intensive care at the Chinese University of Hong Kong in Shatin, Hong Kong. His research interests include regional anesthetic techniques in adults and young children and, in particular, thoracic paravertebral block, spinal sonography, ultrasound-guided central neuraxial blocks, and local anesthetic pharmacology. He is internationally recognized, has published extensively, and has been invited to speak at numerous meetings around the world. [top of page]

Sandra L. Kopp, MD, is an associate professor of anesthesiology at Mayo Clinic in Rochester, MN. She graduated with a BA from St. Olaf College in Northfield, MN, in 1993 and received her doctor of medicine degree from the University of Minnesota School of Medicine in Minneapolis, MN, in 1999. Dr. Kopp completed her internship, anesthesiology residency, and regional anesthesia fellowship at Mayo Clinic. Dr. Kopp is currently the program director of the regional anesthesia fellowship program and very involved in ASRA. Her interests include regional anesthesia and analgesia, anticoagulation, and local anesthetic toxicity. [top of page]

Richelle Kruisselbrink, MD, FRCPC, is a member of the department of anesthesia at Toronto Western Hospital in Toronto, ON, Canada. She completed her anesthesia residency training at McMaster University in Hamilton, ON, followed by a regional anesthesia fellowship at Toronto Western Hospital. Her clinical and research interests include the perioperative applications of point-of-care ultrasound. Richelle holds “Testamur” status at the National Board of Echocardiography having successfully completed the Examination of Special Competence in Adult Echocardiography. [top of page]

Chandra Kumar, MBBS, FFARCS, FRCA, is a professor of practice at Newcastle University and senior consultant in anaesthesia at Khoo Teck Puat Hospital in Singapore. He received his medical degree from Patna Medical College in India and completed anaesthesia training in Middlesbrough and Newcastle, UK. He received his FFARCS from the College of Anaesthetist, Dublin, and his FRCA from The Royal College of Anaesthetists, London. He has interest in regional and ophthalmic anaesthesia. He served as scientific chairman of 4th World Congress of Regional Anaesthesia (2014). He has lectured extensively, conducted master classes, conducted ophthalmic regional anaesthesia workshops, contributed more than 150 peer-reviewed articles in high impact factor journals, and edited 10 textbooks in anaesthesia on topics including ophthalmic anaesthesia and the elderly. He served on The Royal College of Anaesthetists and Association of Anaesthetists of Great Britain and Ireland as council member before moving to Singapore. He founded the British Ophthalmic Anaesthesia Society (BOAS) and the World Congress of Ophthalmic Anaesthesia (WCOA). He has served as president of both BOAS and WCOA. He is a co-founder and past president of Society for Education in Anaesthesia (UK). [top of page]

Yan Lai, MD, MPH, is a regional anesthesiology faculty member, fellowship director, and assistant professor at Mount Sinai St. Luke's and Roosevelt Hospitals in New York, NY. He completed his anesthesiology residency and regional fellowship at Mount Sinai Hospital. He is a teaching faculty in ultrasound-guided nerve block workshops at the Post-Graduate Assembly (PGA) and has been a speaker at the American Society of Anesthesiologists and PGA for the past three years. He has been conducting workshops for residents and healthcare providers, as well as on global missions to Liberia and China. He is honored to be invited as an associate workshop faculty member for ASRA. [top of page]

Patricia Lavand'homme, MD, PhD, is currently working in orthopedic anesthesia, obstetric anesthesia, and the pain clinic and is the director of the Acute Postoperative Pain Unit at St. Luc Hospital in Brussels. She was part of the Visiting Scholarship Program at Wake Forest University School of Medicine in Winston-Salem, NC. Dr. Lavand'homme is past-chairperson of the Scientific Subcommittee on Acute and Chronic Pain of the European Society of Anesthesiologists (ESA). She is currently a member of the International Association for the Study of Pain Task Force working with the World Health Organization on pain classification for ICD-11 (topic: chronic postsurgical and posttraumatic pain). She is also an associate editor for a variety of scientific journals. [top of page]

Linda Le-Wendling, MD, completed her medical school at the Medical College of Wisconsin in Milwaukee. After competing residency at the University of Florida (UF) in Gainesville, she pursued a fellowship in regional anesthesiology and acute pain medicine at the University of Florida. She has stayed on as faculty since then and is now the fellowship director for acute pain medicine as well as chair of the Pain Committee at UFHealth. She enjoys teaching residents and fellows and is in charge of the anatomy cadaver dissection curriculum for fellows in acute pain medicine. She has published on multiple topics. [top of page]

Gregory Liguori, MD, is the director and chief of the department of anesthesiology at Hospital for Special Surgery (HSS) and a clinical professor of anesthesiology at Cornell in New York, NY. He received his undergraduate degree from the University of Pennsylvania in Philadelphia and his medical degree

from Cornell. After completing an anesthesiology residency at Brigham and Women's Hospital, he spent his entire career at HSS. His professional time is currently spent in clinical practice, departmental and hospital administration, research, and education. He has numerous publications focusing on regional anesthesia and acute pain in orthopedics. [top of page]

Philipp Lirk, MD, PhD, is an attending anesthesiologist at Brigham and Women's Hospital, in Boston, MA. Previously he worked at Innsbruck University Hospital in Austria, and the Academic Medical Center of the University of Amsterdam, The Netherlands. [top of page]

Ana Lopez, MD, PhD, is a consultant anesthesiologist at the Ziekenhuis Oost-Limburg, Genk, visiting scholar at NYSORA Europe CREER, and visiting professor of anesthesiology at KU Leuven. She is currently involved in research projects and teaching activities in the field of ultrasound-guided regional anesthesia, airway management, and patient safety. She has published more than 30 peer-reviewed journal articles and is the author of several book chapters in these fields. [top of page]

Timothy Lubenow, MD, is a professor of anesthesiology at Rush University Medical Center in Chicago, IL. He has received many awards including Castle Connolly Guide to "Top Doctors in the Nation," *New York Times* 2010; 70 of the Best Pain Management Physicians in America, *Beckers ASC Review* 2011; U.S. News Top Doctors, selected by U.S. News Media Group 2011; Patients' Choice Award by PatientsChoice.org 2012; Distinguished Service Award Illinois Society of Anesthesiologists 2013; Chicago Super Doctors 2013; and Chicago Top Doctors 2014, 2015, 2016. [top of page]

Danielle B. Ludwin, MD, is an associate professor of anesthesiology at Columbia University College of Physicians and Surgeons in New York, NY, and the regional anesthesia fellowship director. She graduated from Tulane University in New Orleans, LA, and received her medical degree from Robert Wood Johnson Medical School in New Brunswick, NJ. She completed her anesthesiology residency at Weill Cornell Medical College in New York, NY, and a fellowship in regional anesthesia at Hospital for Special Surgery in New York, NY. Dr. Ludwin is a member of the Virginia Apgar Academy of Medical Educators at Columbia University Medical Center and a member of the Arnold P. Gold Humanism in Medicine Society. [top of page]

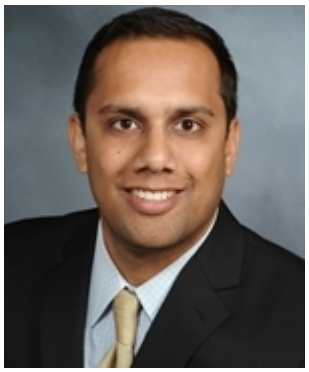
Gregory Lutz, MD, is the founder and medical director of the Regenerative SportsCare Institute (RSI) in New York, NY. In addition, he serves as Physiatrist-in-Chief Emeritus at Hospital for Special Surgery (HSS) and professor of clinical rehabilitation medicine at Weill Medical College of Cornell University in New York, NY. Dr. Lutz has pioneered innovative, nonsurgical approaches in the treatment of musculoskeletal injuries using biologics, with a particular focus on treating discogenic low back pain with intradiscal biologic injections. [top of page]

Philippe Macaire, MD, is a professor for VinMec Healthcare Institution in Vietnam and, since 2017, has held the title of director in anesthesia and pain. He is past chairman of the non-profit foundation Anesthesia and Analgesia Regional (ALR-Fracophone). Dr Macaire is the author of original articles published in international journals of anesthesia and serves as co-editing director and author of books in regional anesthesia. He is leading with Professor Xavier Capdevila on two post-graduate diplomas in regional anesthesia and analgesia and interventional pain medicine. His research focus is in pain management by telemedicine and Prototype LB. [top of page]

Edward Mariano, MD, MAS, is a professor at Stanford University School of Medicine in Stanford, CA, with a master's of advanced studies degree in clinical research. His research interests include the development of techniques and patient care pathways to improve postoperative pain control and other surgical outcomes with over 100 publications. He is chief of the anesthesiology and perioperative care service and associate chief of staff for inpatient surgical services at the Veterans Affairs Palo Alto Health

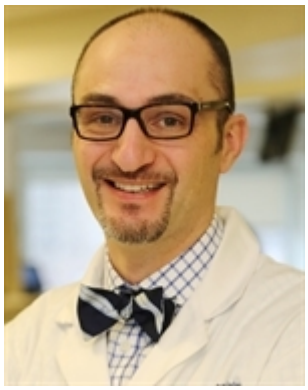
Care System and is a recipient of the Veteran Health Administration's John D. Chase Award for Executive Excellence. [top of page]

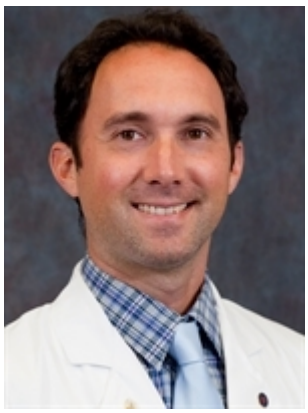
Colin McCartney, MBChB, PhD, is a professor and chair of anesthesiology at the University of Ottawa and head of anesthesiology at the Ottawa Hospital, ON, Canada. He completed his anaesthesia and pain medicine training in Scotland before completing a regional anaesthesia and pain fellowship in Toronto in 2000. From 2000-2014, he was a faculty member at the University of Toronto and a staff anesthesiologist at Toronto Western Hospital and Sunnybrook Health Sciences Centre. He has published more than 80 articles in peer-reviewed journals in relation to regional anaesthesia and pain medicine, is an editor of *Regional Anesthesia and Pain Medicine,* and is an associate editor of the *British Journal of Anaesthesia* and *BMC Anesthesiology*. In 2014, he completed a PhD at the University of Edinburgh on evolution and impact of ultrasound guidance on brachial plexus anaesthesia. In his spare time, he enjoys beer, company of good friends, and sleep. [top of page]



Neel Mehta, MD, is the director of the Weill Cornell Pain Medicine Center and an assistant professor of anesthesiology at Weill Cornell Medical College, New York, NY. He also serves as a co-director of the Multi-Disciplinary Spine Center, medical director of 14 South, and advisory board member to the Patient Experience TaskForce and Integrative Medicine Center. He is a director-at-large of the New York Society of Interventional Pain Physicians and secretary of the Eastern Pain Association. [top of page]

Stavros Memtsoudis, MD, PhD, is a clinical professor of anesthesiology and public health at the Weill Cornell Medical College and an attending anesthesiologist and senior scientist at the Hospital for Special Surgery in New York, NY. He currently serves as the director of Critical Care Services at the same institution. His research interest lies in the study of perioperative outcomes of orthopedic patients. He has published widely on the topic and has recently focused on the role of regional anesthesia and its impact on perioperative outcomes. [top of page]



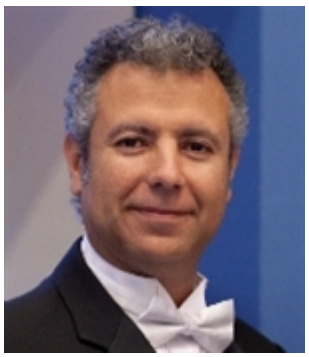


Andres Missair, MD, EDRA, is an associate professor at the University of Miami, Department of Anesthesiology, Miami, FL. He is currently the associate director of the Regional Anesthesia and Acute Pain Fellowship Program. He and Dr. Ralf Gebhard co-founded Anesthesia Without Borders, a volunteer organization dedicated to conducting regional anesthesia workshops and equipment donations in developing countries. Andres received his medical degree from the Johns Hopkins University School of Medicine in 2003. He completed his residency in anesthesiology and fellowship in regional anesthesia and acute pain at the University of Miami in 2008 and was awarded the European Diploma of Regional Anesthesia from the European Society of Regional Anaesthesia and Pain Therapy in 2009. Dr. Missair has been elected to and currently serves on the American Society of Anesthesiologists Global Humanitarian Outreach Committee and the Subcommittee on Fellowship Examination. [top of page]

Bernhard Moriggl, MD, started his university career in 1986 and has done ultrasonography (US) ever since. He serves as mentor and senior author for many of his US scholars. Prof. Moriggl's clinical training led to engagement in regional anesthesia and pain. In 2008 he was a founding member of ASRA's US in Pain Medicine Special Interest Group. Prof. Moriggl is contributor to the *Practical Guide RA*, the pocket-book RA: *Principals and Practical Implementation*, and both editions of the *Atlas of Ultrasound-Guided Procedures in Interventional Pain Management* (Spine and GON-chapter). He is the co-editor of the iBook *Anatomy and Sono-anatomy of US-Guided Pain Interventions*. Professor Moriggl has plenty of international cooperation, such as with the Denmark people around Jens Børglum and Thomas Fichtner Bendtsen. He acted in co-development and support and as inaugural examiner for the Certified Interventional Pain Sonologist program of the World Academy of Pain Medicine Ultrasonography, where he is chair of the Scientific Committee. [top of page]

Monty Mythen, MBBS, MD, FRCA, is a Smiths Medical Professor of Anesthesia and Critical Care at the University College London (UCL). He also serves as director of the UCL Discovery Lab at The Institute of Sport Exercise and Health. Dr. Mythen is an elected council member of The Royal College of Anaesthetists, Bulletin editor and lead for the *Perioperative Medicine Programme*, and chair of the board of the UK National Academic Institute of Academic Anaesthesia. [top of page]

Antoun M. Nader, MD, is a professor in the department of anesthesiology and orthopedics at the Feinberg School of Medicine at Northwestern University in Chicago, IL. He is the section chief for regional anesthesia and acute pain management at Northwestern Memorial Hospital and the medical director for acute pain medicine. He is also the fellowship co-eirector for the adult and pediatric regional anesthesia and acute pain management fellowship at McGaw Medical Center at Northwestern University. Dr. Nader is board certified in anesthesiology, with a subspecialty certification in pain management. He is a member of the American Society of Anesthesiologists, ASRA, and the Association of University Anesthesiologist. With interests in neuroanesthesiology and pain management, he is engaged in numerous activities, including authorship, editorial work, grant review, lecturing for many societies. During his medical career in pain management, he has authored and coauthored more than 150 original peer-reviewed articles, editorials, reviews, books, commentaries, case reports, and technical notes. He is very involved in the development of Institutional Pathways for regional anesthesia and pain management protocols that have resulted in publications in major anesthesia journals. [top of page]



Samer Narouze, MD, PhD, is clinical professor of anesthesiology and neurological surgery at Ohio University in Athens and Ohio State University in Columbus. He is board certified in anesthesiology and pain medicine, as well as neurology headache medicine. He is the chairman of the Center for Pain Medicine at Western Reserve Hospital in Cuyahoga Falls, OH. Dr. Narouze is on the board of directors for ASRA. He recently founded the American Interventional Headache Society (AIHS) and serves in many committees for national and international headache and pain organizations. He has published about 200 research papers, review articles, book chapters, and abstracts. He frequently speaks and serves as a visiting professor both nationally and internationally. [top of page]

Levon N. Nazarian, MD, is professor of radiology at the Sidney Kimmel Medical College of Thomas Jefferson University in Philadelphia, PA. He has co-authored 100 peer-reviewed manuscripts on topics that include using ultrasound to diagnose and guide treatment for athletic injuries and other musculoskeletal conditions. Dr. Nazarian has served on the editorial board of several journals, and, since 2011, he has been editor-in-chief of the *Journal of Ultrasound in Medicine*. Dr. Nazarian is a fellow of the American College of Radiology, the American Institute of Ultrasound in Medicine, and the Society of Radiologists in Ultrasound. [top of page]

Joseph M. Neal, MD, received his undergraduate and medical training at Wake Forest University in Winston-Salem, NC, and the West Virginia University School of Medicine in Morgantown. He returned to Bowman Gray / Wake Forest University to complete residencies in emergency medicine and anesthesiology. After fellowship training in regional anesthesia at the Virginia Mason Medical Center in Seattle, WA, he joined that group in 1989. He directed the Virginia Mason regional anesthesia fellowship for over a decade as well as its anesthesiology residency program. Dr. Neal is a senior examiner for the American Board of Anesthesiology; was editor-in-chief of *Regional Anesthesia and Pain Medicine* (2002-2012), and is co-author of the textbooks *Requisites in Anesthesiology: Regional Anesthesia; Complications in Regional Anesthesia and Pain Medicine;* and *Regional Anesthesia: An Illustrated Procedural Guide.* He was the president of ASRA from 2012 to 2015. [top of page]

Jemiel Nejim, MD, is a board certified anesthesiologist who specializes in critical care medicine. He trained entirely on the west coast and, upon completion of his training at the University of California San Francisco, he attended in the operating rooms there. Being a California explant, Dr. Nejim exudes calm even when faced with challenging situations. Dr. Nejim's main interests include echocardiography and the use of ultrasound in acute situations. [top of page]

Mark Neuman, MD, MSc, is assistant professor of anesthesiology and critical care at the University of Pennsylvania Perelman School of Medicine in Philadelphia. He is a clinician and researcher focused on improving outcomes for older adults after surgery and anesthesia. He is principal investigator of the

REGAIN Trial, an ongoing multicenter randomized trial that will evaluate survival and functional recovery after hip fracture surgery among 1,600 patients assigned to receive spinal versus general anesthesia. [top of page]

Andrea Nicol, MD, MS, completed her residency in anesthesiology at the University of California Los Angeles (UCLA), then trained in pain medicine at the same institution. Concurrently with fellowship training, Dr. Nicol conferred a master's of science in clinical research through the UCLA Department of Biomathematics. Currently, she is an assistant professor at the University of Kansas School of Medicine in Lawrence where her clinical responsibilities include chronic pain and her research interests include fibromyalgia, centralized pain syndromes, and mechanisms of the chronification of pain. [top of page]

Adam Niesen, MD, is an assistant professor of anesthesiology and associate director of the Regional Anesthesiology and Acute Pain Medicine Fellowship at Mayo Clinic in Rochester, MN. He is also a section editor for *Journal of Clinical Anesthesia.* Dr. Niesen received his BS in biology from the University of Notre Dame in Notre Dame, IN, and his MD from the Medical College of Wisconsin in Milwaukee, with subsequent completion of residency and regional anesthesia fellowship training at Mayo Clinic. [top of page]

Steven Orebaugh, MD, has been performing and teaching regional anesthesia (peripheral nerve blockade) at a busy orthopedic center for 15 years. He serves as the rotation director for regional anesthesia for residents and is also the co-chairman of the curriculum committee. He serves as well on the program evaluation committee for the regional anesthesia fellowship. His areas of interest are ultrasound-guided peripheral nerve blockade, anatomy, and education in regional anesthesia. For the past five years, he has served as faculty for ASRA and for the New York School of Regional Anesthesia for their annual meetings. [top of page]

Timur J.P. Ozelsel, MD, DESA, the son of a Turkish father and a German mother, was born in Baton Rouge, LA, and grew up in between the USA and Germany. All of his medical training as well as fellowships in ICU and cardiac anesthesia were completed in Germany before moving to Canada in 2007. Dr. Ozelsel is now enjoying a great practice in his two other fellowships, regional anesthesia and liver transplantation, in Edmonton, AB, Canada. He is happily married and father of three healthy and energetic children, all of who are his main passion in life when he is not at work. [top of page]

Oliver Panzer, MD, completed a critical care fellowship at Columbia University Medical Center (CUMC) in New York, NY, before joining the faculty in the Divisions of Regional Anesthesia and Critical Care in 2006. Early on he was fascinated by the impact of perioperative ultrasound on clinical practice. He created and led perioperative ultrasound workshops and lectures for multiple classes of residents and critical care fellows at CUMC. Dr. Panzer became the director of perioperative ultrasonography in the department in 2010, and he lead the departmental Perioperative Ultrasound Curriculum Committee. He has taught courses nationally at American Society of Anesthesiologists meetings since 2010, Post-Graduate Assembly meetings in New York since 2014, and the FATE course since 2016. [top of page]

Kiran V. Patel, MD, is an interventional pain management physician at the Spine & Pain Institute of New York and the director of neurosurgical pain at Lenox Hill Hospital in New York, NY. She is also an assistant clinical professor at Hofstra-Northwell School of Medicine in East Garden City, NY, and oversees the pain rotation at that institution for anesthesiology residents and medical students. She is an active member and mentor for the North American Neuromodulation Society, the New York Society of Interventional Pain Physicians, and International Neuromodulation Society. [top of page]

Amit Pawa, MBBS, is a consultant anaesthetist at Guy's & St Thomas' NHS Foundation Trust, London, UK where he is the lead for regional anaesthesia. He was the first chairman of the London Society of Regional Anaesthesia (LSORA) and is president-elect of Regional Anaesthesia-UK (RA-UK). He currently serves as an RA-UK board member and an European Society of Regional Anaesthesia and Pain Therapy

(ESRA) council member. Dr. Pawa has the ESRA European Diploma in Regional Anaesthesia (EDRA) and is extremely passionate about education in USRA. He has created a collection of videos which all reside on the LSORA YouTube channel. His subspecialist interest is regional anesthesia for breast. [top of page]

Philip Peng, MBBS, is a professor in the department of anesthesia at the University of Toronto in Toronto, ON, Canada. He is the director of the Anesthesia Chronic Pain Program of University Health Network, the largest teaching hospital of Canada. He has played an important role in the education of the pain medicine and established major teaching courses for pain in Canada. The Royal College of Physicians and Surgeons of Canada (RCPSC) honored him with founder designation in pain medicine for his role in establishing the pain medicine subspecialty in Canada. [top of page]

Anahi Perlas, MD, FRCPC, completed anesthesia and regional anesthesia training at the University of Toronto in Toronto, ON, Canada. She is currently an associate professor in the department of anesthesia at the University of Toronto and holds a clinical appointment at the Toronto Western Hospital where she is director of the Clinical Regional Anesthesia Program. Her research interests relate to innovative applications of ultrasound in the perioperative period with a special focus on regional anesthesia applications and evaluation of gastric content for aspiration risk assessment. She has obtained several peer-reviewed grants and has published more than 40 peer-reviewed articles, as well as several book chapters and editorials. She is an associate editor of the *Regional Anesthesia and Pain Medicine* and guest editor of several other peer-reviewed journals. [top of page]

Christophe Perruchoud, MD, is an anesthesiologist and pain specialist in the department of anesthesiology and pain management at the Hospital of Morges and in the University Hospital in Lausanne (Switzerland). He is the actual president of the Swiss Neuromodulation Society (an International Neuromodulation Society regional chapter). His research interests include pharmacokinetics of drugs administered intrathecally, the objective measurement of physical activity in chronic pain states, and new electrical waveforms for spinal cord stimulation. [top of page]

Carlos Pino, MD, is the director of the Center for Pain Medicine and an associate professor in the department of anesthesiology at the University of Vermont College of Medicine in Burlington. He formerly served as program director of the pain medicine fellowship at the University of Vermont. He received his bachelor's degree in biochemistry from the University of California, San Diego, and his doctor of medicine degree from the University of Chile School of Medicine. He completed residency training in anesthesiology in Chile and the United States and a fellowship in pain medicine in 2002. Dr. Pino combines academic medicine with a busy clinical practice. His research publications are in the areas of anesthesiology and pain medicine, in both English and Spanish. He has lectured at numerous national and international meetings on regional anesthesia and acute and chronic pain. His areas of interests include fluoroscopic- and ultrasound-guided regional anesthesia and interventional pain procedures, medical education, and practice management. He has authored and coauthored a number of textbooks, served as guest reviewer in several international journals, and served as guest editor for the journal *Techniques in Regional Anesthesia and Pain Medicine*. He serves on the Advisory Council to the Vermont Department of Health, the Vermont Society of Anesthesiology, the American Society of Anesthesiologists, and the American Board of Anesthesiology. [top of page]

Gregory Polkowski, MD, MSc, is the executive medical director of the Orthopaedic Patient Care Center, assistant professor of orthopaedic surgery, and adult reconstruction fellowship director in the department of orthopaedic surgery at Vanderbilt University Medical Center in Nashville, TN. His primary clinical interests are in the areas of primary and revision hip and knee arthroplasty and hip preservation surgery, with an emphasis on patient experience and rapid recovery programs. [top of page]

Jason Pope, MD, is president of Summit Pain Alliance in Santa Rosa, CA. He received his bachelor's degree in chemistry from Purdue University and his medical degree from the Indiana University School of Medicine in Indianapolis. He completed his residency in anesthesiology at the Vanderbilt University Medical Center in Nashville, TN, and a fellowship in pain medicine at the Cleveland Clinic, where he served as associate staff. Dr. Pope was a fellow to the House of Representatives Energy and Commerce Subcommittee on Health and the WV Pharmacy Board Advisory Panel of Controlled Substances and Opioid Prescribing. He is secretary of the California Society of Interventional Pain Physicians. He is a director at large for the North American Neuromodulation Society and co-chair of ASRA's Neuromodulation Special Interest Group. [top of page]

Jovan Popovic, MD, FRCPC, is an associate professor of clinical anesthesiology at New York University (NYU) and medical director of NYU Langone Medical Center outpatient surgery. Dr. Popovic received his medical degree from RWTH Aachen University in Aachen, Germany, and completed his residency in anesthesiology at New York Presbyterian/Weill Cornell Medical Center. His current interests include education in regional anesthesia and point-of-care ultrasonography. [top of page]

Steven Porter, MD, is an assistant professor in the department of anesthesiology and perioperative medicine at Mayo Clinic in Jacksonville, FL. After receiving his medical degree from the University of Pennsylvania, he completed an internship in general surgery and a residency in anesthesiology at Mt. Sinai Medical Center in New York. He then went on to complete a fellowship in regional anesthesia and acute pain medicine at Mayo Clinic in Florida where he joined the faculty. He recently became the program director for the Mayo Clinic Florida's Regional Anesthesia and Acute Pain Medicine fellowship. [top of page]

John Power, JD, is a partner at Cogan & Power, P.C., a personal injury law firm. He has practiced law for 28 years and has achieved more than $195 million in verdicts and settlements on behalf of his clients, $65 million of which was obtained within the last year two years. He currently serves on the board of directors of the Society of Trial Lawyers and the board of managers for the Illinois Trial Lawyers Association. He has continuously been recognized as a Leading Lawyer and a Super Lawyer. [top of page]

David Provenzano, MD, is the president of Pain Diagnostics and Interventional Care in Pittsburgh, PA. He received his undergraduate degree from Colgate University where he graduated Magna Cum Laude and became a Phi Beta Kappa member. He received his medical degree from the University of Rochester School of Medicine and Dentistry. He completed a surgical internship at Thomas Jefferson University Hospital and a residency in anesthesiology at The Western Pennsylvania Hospital. He completed a pain management fellowship at the Dartmouth-Hitchcock Medical Center in Lebanon, NH. He serves on the board of directors of ASRA. He has extensive interests and expertise in the conservative treatment of pain originating from the cervical and lumbar spine, neuromodulation, and the use of ultrasound for interventional pain management procedures. [top of page]

James Rathmell, MD, is currently a professor of anesthesia at Harvard Medical School and chair and chief of the department of Anesthesiology, Perioperative and Pain Medicine at Brigham and Women's Hospital in Boston, MA. He devotes his time to his clinical practice, research, and education. Dr. Rathmell's research has included a mixture of investigator-initiated and industry-sponsored trials examining the effectiveness of new and emerging treatments for pain. He lectures widely internationally and has delivered hundreds of lectures to students, medical professionals, and members of the public. Dr. Rathmell currently serves as a director of the American Board of Anesthesiology and an executive editor for *Anesthesiology*. He has published extensively, including the recent second edition of his *Atlas of Image-Guided Intervention in Regional Anesthesia and Pain Medicine*. [top of page]

Richard Rauck, MD, is president of Carolinas Pain Institute and Pain Fellowship at Wake Forest University Baptist Health in Winston-Salem, NC. He completed his pain management training at the

University of Cincinnati under the direction of Dr. Prithvai Raj. He is the immediate-past president of the World Institute of Pain. He serves on the board of directors for the North American Neuromodulation Society. He was the 2013 recipient of the John J. Bonica award. He has been included in Best Doctors in America® since 1992. [top of page]

Narinder Rawal MD, PhD, FRCA (Hon), EDRA, is a professor of anesthesiology at Örebro University, Sweden. He has published more than 250 articles and written more than 100 book chapters, review articles, and books. He has received awards and honors from more than 30 societies and institutions including the ASRA Carl Koller Memorial Research Grant and Gaston Labat awards. He was secretary-general of the European Society of Regional Anaesthesia and Pain Therapy from 2000-2009. Currently, Professor Rawal is co-chair for the EDRA examination and examiner for the European Pain Federation Diploma in Pain Medicine. He is also a founding member of several international pain management initiatives including PROSPECT, PAINOUT, and IASP-Acute Pain SIG. Professor Rawal has published extensively on spinal opioids, combined spinal-epidural technique, regional techniques for pain management after day-case and inpatient surgery, and organization for acute pain services. [top of page]

Andrew Rosenberg, MD, is a professor and the Dorothy Reaves Spatz, MD, chair of the Department of Anesthesiology at the New York University School of Medicine in New York, NY. [top of page]

Meg A. Rosenblatt, MD, is a professor of anesthesiology and orthopaedics at the Icahn School of Medicine at Mount Sinai and the chair of anesthesiology at the Mount Sinai St. Luke's and West Hospitals in New York, NY. She has taught ultrasound-guided regional anesthesia in workshops at the annual meetings of the American Society of Anesthesiologists, International Anesthesia Research Society, New York State Society of Anesthesiologists (PGA), ASRA, and the International Symposium for Ultrasound in Regional Anesthesia. Dr. Rosenblatt has lectured extensively about local anesthetic systemic toxicity,

ultrasound-guided regional anesthesia for ambulatory surgery and intraneural injections, and she is an editor of a new book *Decision Making in Orthopedic and Regional Anesthesiology*. [top of page]

Richard Rosenquist, MD, is the 2015 John J. Bonica Award recipient and lecturer. He is chair of the Pain Management Department at Cleveland Clinic in Cleveland, OH. He is also a past president of ASRA, serving from 2005-2007. He is currently a member of ASRA's Finance Committee. Dr. Rosenquist serves as chair for the American Society of Anesthesiologists (ASA) Committee on Pain Medicine, is a member of the ASA Committee on Economics, and is an ASA RUC Advisor. He serves as chair of the American Board of Anesthesiology Pain Medicine Examination Committee and the Accreditation Council for Graduate Medical Education's Anesthesiology Residency Review Committee and Task Force on the Regional Anesthesiology and Acute Pain Fellowship. Dr. Rosenquist has published 67 peer-reviewed publications, 18 book chapters, and 20 abstracts. He has given more than 440 presentations at local, national, and international meetings. [top of page]

Xavier Sala-Blanch, MD, is a staff anesthesiologist at Hospital Clínic of Barcelona. He earned his MD from the Automous University of Barcelona in 1988. He also serves as the anesthesiologist-in-chief of the division of Anesthesia for Orthopedics, Trauma, Plastic, ETN, and Maxillofacial Surgeries at the Hospital Clínic at the University of Barcelona, as well as an associate professor in anatomy. He received his licensure for his master thesis discussion in 1993 from the University of Barcelona and completed his residency in anesthesia in the Hospital Clínic at the University of Barcelona. Dr. Sala-Blanch is an active staff member in anesthesia and pain management. His learning interest is in regional anesthesia (pre-graduate and post-graduate). He has been a co-director in meetings of applied anatomy in regional anesthesia for anesthesiologists since 2000. Dr. Sala-Blanch's other positions include director of Ultrasound Meetings in Anesthesia since 2005 and director of Master of Skills in Regional Anesthesia based on anatomy since 2011. He develops investigations in regional anesthesia and is author of a large number of articles and book chapters in this field. His focus of interest is in ultrasound and neural safety in peripheral regional anesthesia. [top of page]

Axel Sauter, MD, PhD, has been working in the field of anesthesia since 1999. Currently, Dr. Sauter holds a research position at Oslo University Hospital in Norway. He works clinically as a consultant at the Inselspital University Hospital in Bern, Switzerland. A main focus of his work is orthopaedic anesthesia and regional anesthesia. In 2009, he accomplished his PhD dissertation “Ultrasound and electrical nerve stimulation for peripheral nerve localization regional anesthesia” at the University in Oslo. He has continued his scientific work on clinical and theoretical questions related to the field of regional anesthesia. [top of page]

Hariharan Shankar, MBBS, is board dertified in anesthesiology and pain medicine. He is the director for the Pain Medicine Fellowship Program at the Medical College of Wisconsin and the director of the Pain Clinic at the Zablocki VA Medical Center in Milwaukee. He has received many "Teacher of the Year" awards, is one of the pioneers in the use of ultrasound imaging, and lectures nationally and internationally. To his credit, he has many abstracts, book chapters, review articles, and peer-reviewed publications. [top of page]

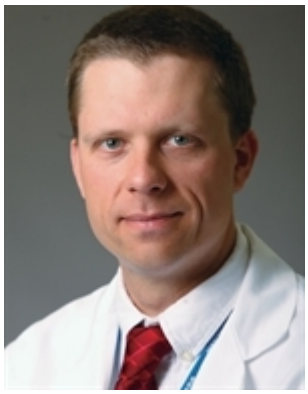
Uma Shastri, MD, FRCPC, is an assistant professor of anesthesiology at Vanderbilt University in Nashville, TN. She completed her residency at the University of Toronto, followed by a regional anesthesia fellowship at The New York School of Regional Anesthesia, St. Lukes-Roosevelt Hospital. After her fellowship she returned to University of Toronto as an assistant professor before relocating to Nashville, TN, for her current position. Her non-clinical interests involve improving patient outcomes by utilizing regional anesthesia. She is actively involved in teaching residents and fellows. Dr. Shastri also has taught at multiple state and national meetings. [top of page]

Jodi Sherman, MD, is an associate professor of anesthesiology at Yale School of Medicine, affiliate faculty of the Yale School of Public Health Climate Change and Health Initiative, and Environmental Compliance Officer at Yale-New Haven Hospital, New Haven, CT. Her work is in the emerging field of sustainability in clinical care. Her research interest is in life cycle assessment, quantifying energy, greenhouse gas emissions, human health impacts, and economic densities of entire health systems, drugs, devices, and care pathways behaviors to help guide clinical decision-making toward more sustainable practices. [top of page]

Cynthia M. Shum, DNP, MEd, RN, CHSE-A, has been the director of Simulation Operations at the VA Hospital in Palo Alto, CA, for more than five years. In this position, she is responsible for the operations of the center, facilitation of simulation activities throughout the hospital, and development of new uses for simulation activities. Dr. Shum is an adjunct faculty at the University of South Florida in Tampa within the master's of science in healthcare simulation program. Cynthia is married and the mother of three young men. [top of page]

Sanjay Sinha, MBBS, is the director of the Regional Anesthesia and Fellowship Program at St. Francis Hospital and Medical Center in Hartford, CT. He has developed a robust regional anesthesia/acute pain service in a private practice setting. He is also involved in teaching the anesthesia residents from University of Connecticut School of Medicine and has received the Teacher of the Year Award. His current interests are developing innovative ultrasound-guided regional anesthesia techniques for arthroplasty patients and ambulatory surgical patients. His other interests include cardiac anesthesia and perioperative use of TEE and acupuncture. He also started www.sonicnerveblock.com – a web portal dedicated to teaching ultrasound-guided nerve blocks. [top of page]

Brian Sites, MD, MS, received his MD from the Alpert School of Medicine at Brown University in Providence, RI, with the Outstanding Graduate Award. He performed his surgical residency at Beth Israel-Deaconess Hospital in Boston, MA, and his anesthesiology residency at Dartmouth-Hitchcock Medical Center (DHMC) in Hanover, NH. Recently, Dr. Sites received his master's of science degree with a concentration in clinical and health services research at The Dartmouth Institute. Shortly after he finished his residency, he established a state-of-the-art nerve block center with six dedicated perioperative bays that are equipped with the latest in equipment and staffed by specialty physicians,



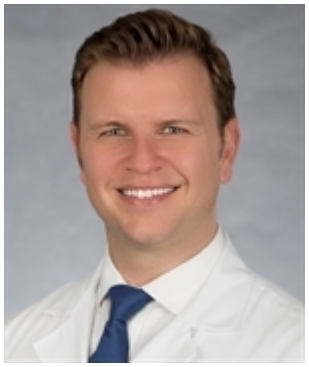
fellows, and nurses. Dr. Sites has dedicated the bulk of his academic and research focus to the advancement of delivering high-quality and safe regional anesthesia. Recently, Brian was promoted to professor of anesthesiology and orthopedics at the Geisel School of Medicine at Dartmouth. He developed and directs the DHMC Regional Anesthesiology Fellowship Program. Brian has served as the director of the department of anesthesiology Grand Rounds Program and medical director of Perioperative Services. He directs the Regional Anesthesiology Residency Ration and Lecture Program. Last year, he was appointed to the position of associate dean of Continuing Medical Education at DHMC. After being heavily involved in creating the ASRA/ESRA-recommended credentialing criteria in regional anesthesia with ultrasound guidance, he defined the credentialing requirements for DHMC. Dr. Sites has authored more than 70 publications on regional anesthesia and sonopathology and developed numerous educational videos. He is the regional anesthesiology editor-in-chief and an associate editor for *Regional Anesthesia and Pain Medicine* and is a reviewer and associate editor for numerous organizations. He has spoken nationally and internationally more than 100 times and is considered an international authority on ultrasound-guided regional anesthesia. [top of page]

Todd Sitzman, MD, is medical director of Advanced Pain Therapy, a comprehensive pain clinic located in Hattiesburg, MS. He is an active member of numerous national and international pain societies: president-elect of the North American Neuromodulation Society (NANS); past president of the American Academy of Pain Medicine (AAPM), Southern Pain Society, MS Pain Society, and MS Society of Interventional Pain Physicians. He received his medical degree from Tulane University School of Medicine in New Orleans, LA, and completed his postgraduate training at the University of Pennsylvania in Philadelphia and the University of Virginia in Charlottesville. [top of page]

Dmitri Souza, MD, earned his medical degree in 1987 and doctor of science degree in 2000. He graduated from the anesthesiology residency program at Yale University School of Medicine in New Haven, CT; from the internal medicine residency at Good Samaritan Hospital of Maryland, which is affiliated with Johns Hopkins University in Baltimore; and from the pain medicine program at Cleveland Clinic in Cleveland, OH. He served as a medical director of the Pain Medicine Center at South Pointe Hospital at the Cleveland Clinic. He has authored numerous publications related to use of ultrasonography in pain management. He serves as a clinical professor at Ohio University and is faculty and a board director at national physician symposia. [top of page]

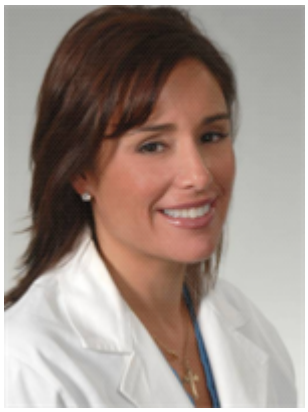
Santhanam Suresh, MD, is the Arthur C. King Professor and chair of the department of pediatric anesthesiology at the Ann and Robert H. Lurie Children's Hospital of Chicago, IL. He is a director of the American Board of Anesthesiology. He also serves as co-chair of the SmartTots Steering Committee, chair of the Educational Track Subcommittee on Pediatric Anesthesia for the American Society of Anesthesiologists, and a member of the Board of Trustees for the International Anesthesia Research Society. [top of page]

Christopher Tanaka, MD, is an adult cardiothoracic anesthesiologist and a National Board of Echocardiography Diplomate-Examination of Advanced Perioperative Transesophageal Echocardiography (PTEeXAM) and Testamur - Examination of Special Competence in Adult Echocardiography (ASCeXAM). His clinical research interests include TTE education and the perioperative use of TTE. [top of page]



Chad Parvus-Teichmann, MD, is a resident physician and current chair of the ASRA Resident Section Committee. Dr. Parvus-Teichmann earned a BA in journalism from Penn State University. Following a television production career in Philadelphia and New York he relocated to Miami where he graduated summa cum laude with a BS in biological sciences from Florida International University. Dr. Parvus-Teichmann received his medical degree from the University of Miami Miller School of Medicine and is currently completing his final year of anesthesiology residency at Jackson Memorial Hospital & the University of Miami. Following residency he will continue his training as a fellow in pain medicine at UT Health San Antonio. Dr. Parvus-Teichmann's professional interests include neuromodulation, global health, and the use of technology in medicine.

Leslie Thomas, MD, is section head of regional anesthesiology and director of the Acute Pain Service at Ochsner Medical Center in New Orleans, LA. She completed medical school and residency at Louisiana State University Medical Center in New Orleans and a regional anesthesiology fellowship at the Hospital for Special Surgery in New York, NY. In conjunction with the orthopaedic department, Dr. Thomas co-manages joint arthroplasty patients as a member of the Perioperative Surgical Home Team. She holds a



faculty appointment at the University of Queensland Medical School in Australia. [top of page]

Ban Tsui, MD, has the primary interest and objective of his research to transform regional anesthesia from an "art" into a reliable and reproducible "science" by further exploring the basic scientific and clinical aspects of electrophysiological signal monitoring and integrating this with the latest advances in ultrasound. Dr. Tsui has a strong interested in mentoring and motivating residents and anesthesiologists fellows to incorporate research into their clinical practice. Dr. Tsui has received Clinical Scholar funding from the Alberta Heritage Foundation for Medical Research (AHFMR) since 2002. Dr. Tsui is the recipient of the 2014 Dr. R.A. Gordon Research Award from the Canadian Anesthesiologists' Society (CAS). He has previously received funding from the Canadian Institutes of Health Research (CIHR) and multiple awards from CAS. [top of page]

Ankeet Udani, MD, MSEd, completed his residency and fellowship at Stanford University combining anesthesiology, patient safety, simulation, and medical education research. He completed a master's degree in medical education at Johns Hopkins University. He is now an assistant professor of anesthesiology and assistant director of the Human Simulation and Patient Safety Center at Duke University. His passion lies in medical education innovation and effectiveness. [top of page]

William Urmey, MD, is an associate professor of clinical anesthesiology at Hospital for Special Surgery, Weill Cornell Medical College in New York, NY. His expertise is in regional anesthesia, especially peripheral nerve blocks. Dr. Urmey has a background in respiratory physiology and chest wall mechanics. Scientifically, he has published extensively on brachial plexus anesthesia, respiratory effects of regional anesthesia, regional anesthesia for ambulatory surgery, and the science of peripheral nerve stimulation. Dr. Urmey was a member of the ASRA board of directors from 2008-2014. [top of page]

Ricardo Vallejo, MD, is the director of Research at Millennium Pain Center in Chicago, IL, and an adjunct professor at Illinois State University and Wesleyan University. He earned his MD from Columbia University and his PhD in immunology at Complutense University in Madrid, Spain. He also has a pain medicine degree from Harvard. He was chief resident in anesthesiology at the University of Miami in Miami, FL. He is ABA board certified in anesthesiology and pain medicine. He is the chief editor of *Techniques in Regional Anesthesia and Pain Management*, associate editor of *Pain Practice*, and a member of the editorial boards of *Clinical Journal of Pain, Pain Physicians, Journal of Opioid Management*, and *Revista Mexicana de Anestesiologia*. Dr. Vallejo serves on the examination board for the World Institute of Pain and the American Board of Interventional Pain Physicians. He has published extensively and is an international speaker. [top of page]

Marc Van de Velde, MD, PhD, EDRA, obtained his MD at the KU Leuven in Belgium in 1991 and completed his residency in 1996. He obtained his PhD degree in 2000. He was appointed member of staff at the department of anesthesiology in Leuven and is now full professor of anesthesia and departmental head. He has given 400 invited lectures, has published 100 peer reviewed articles, and has co-authored eight book chapters. He is editor of “Maternal Critical Care” (2013) and of “The Oxford Textbook on Obstetric Anesthesia” (2016). He is OAA Committee member and president of the Belgian Society of Anesthesia (SARB). He has been president of ESRA and Scientific Committee chair of the Annual ESRA Meetings in Ljubljana 2015, Maastricht 2016, and Lugano 2017. His primary clinical and research interest focuses on obstetric anesthesia. He is married to Eva and has 5 children (Sofie, Michiel, Bas, Ella, and Juliette). He loves travel and golf. Italian food and wine make him smile! [top of page]

Geert-Jan van Geffen, MD, PhD, is an anesthesiologist and co-director of orthopedic anesthesiology in the Radboud University Medical Centre in Nijmegen, the Netherlands. Moreover he is working as emergency anesthesiologist at the Helicopter Emergency Service, Lifeliner 3, and lt-colonel in the Royal Dutch Army. The research of his group focuses on acute pain management in and out of hospital. Also non-pharmacological techniques are studied as a part of a multimodal pain concept. [top of page]

Jan Van Zundert, MD, PhD, FIPP, is an anesthesiologist, and head of the Multidisciplinary Pain Centre of the Hospital Oost Limburg, Belgium. He has a scientific affiliation with the Maastricht University Medical Centre, where he obtained his PhD “The use of pulsed radiofrequency in the treatment of chronic pain.” He has published more than 80 papers and 35 book chapters and is editor of “Evidence-Based Interventional Pain Management, according to clinical diagnoses.” He is member of the Scientific Committee of the European Society of Anesthesiology (ESA). He is also treasurer of the World Institute of Pain. [top of page]

Catherine Vandepitte, MD, completed her medical education and specialized in anesthesiology at the Catholic University of Leuven, Belgium. She completed a clinical fellowship in cardiothoracic anesthesia at the Heart Hospital, University College London Hospitals, in London , UK, in 2009, and a research fellowship in regional anesthesia at St Luke's Roosevelt Hospital in New York, NY, in 2010. Dr. Catherine Vandepitte currently practices as a consultant anesthesiologist at Ziekenhuis Oost-Limburg in Genk, Belgium, with a main focus on regional anesthesia, and is a research consultant at NYSORA and SCIMED.BE. [top of page]

Maria Isabel Vasquez, MD, received her anaesthesiology degree from CES University in Medellin, Colombia. She has been working in regional anaesthesia since 2000. Her specific field of interest is ultrasound anaesthesiology. In 2007 she began using ultrasound while presenting at regional workshops in Costa Rica, Panama, Ecuador, the Dominican Republic, and her native Colombia. In 2011, she co-authored the tome *Ultrasound: A new window into regional anaesthesia and vascular access* with María Patricia González Obregón and presented a poster at the 15th WFSA World Congress of

Anaesthesiologists: *Analgesia after inguinal hernia repair* in early 2012. Dr. Vásquez currently attends patients at the CES Clinic in Medellin and contributes to the advancement of anaesthesiology throughout Latin America. She has served as the chairperson for the Committee of Regional Anaesthesia in the Colombian Anethesiology Society since 2008 and the Colombian delegate to LASRA (Latinoamerican Society of Regional Anaesthesia) since March 2012 to January 2014. She is the president of LASRA. [top of page]

Tricia Vecchione, MD, MPH, is an assistant professor of anesthesiology and critical care medicine at the Johns Hopkins University School of Medicine in Baltimore, MD. She also serves as the director of Pediatric Regional Anesthesia. Dr. Vecchione completed a fellowship in pediatric anesthesia at Texas Children's Hospital in Houston and another fellowship in pediatric regional anesthesia at Boston Children's Hospital in Boston, MA. Her clinical expertise is in pediatric anesthesia, regional anesthesia, and acute pain management. [top of page]

Paul Verrills, MD, practices full time interventional pain management and is a director of Metro Pain Group in Melbourne, Australia. He is a Fellow of the Australasian Faculty of Musculoskeletal Medicine and completed a master's in pain medicine under Professor Bogduk at the University of Newcastle in Callaghan, Australia. He was awarded his International Fellowship in Interventional Pain Practice and is a past president of the Neuromodulation Society of Australia and New Zealand. He is also a member of the International Neuromodulation Society, Australian Pain Society, Spine Intervention Society, World Institute of Pain, the International Association for the Study of Pain, and the Spine Society of Australia. [top of page]

Alexandru Visan, MD, MBA, is dedicated to the development and implementation of progressive healthcare solutions for modern medical practice, based on hybrid healthcare and business administration analytics. Dr. Visan believes in highly customized, creative, and efficient strategic plans for his business clients who wish to radically improve their practice delivery models and revenues. He is well known to be a promoter of sustainable long-term business solutions, which demand continuous quality improvement programs and training providers to become adapted to a dynamic healthcare economics

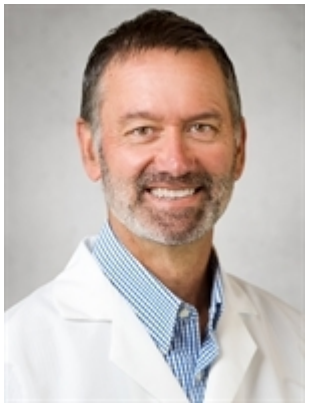
environment, as well as delivering high-quality medical care. During his previous tenure, as medical director of the Regional Anesthesia Division at University of Alabama at Birmingham, Dr. Visan was actively involved in developing a well-organized regional anesthesiology and acute pain management program, as well as improving operating room workflows and clinical enterprise efficiency. Dr. Visan has served as assistant professor of clinical anesthesiology on the faculty of University of Alabama at Birmingham and University of Miami. He earned his Executive MBA, with a specialization in health sector management and policy at the University of Miami Business School, as well as his Six Sigma certification. He completed his residency and a fellowship in regional anesthesiology at Columbia University College of Physicians and Surgeons in New York. His medical degree was completed in Europe, while serving as the president and co-founder of a private company, with focus on commercial and industrial real estate analysis, as well as business and project development. [top of page]

Eugene Viscusi, MD, is a professor of anesthesiology and the director of acute pain management in the department of anesthesiology at Thomas Jefferson University in Philadelphia, PA. He received his medical degree from Jefferson Medical College and completed an anesthesiology residency at the University of Pennsylvania in Philadelphia. Dr. Viscusi developed a novel, nurse-driven model for acute pain management with specially trained nurses in the early 1990s that has served as a model for healthcare delivery. Dr. Viscusi has lectured extensively and contributed more than 75 peer-reviewed articles in journals including *JAMA, Anesthesiology, Anesthesia & Analgesia,* and *Regional Anesthesia and Pain Medicine.* He currently serves on the editorial board of *Regional Anesthesia and Pain Medicine, Clinical Journal of Pain,*and *American Journal of Orthopedics*. Dr. Viscusi has served on the ASRA board of directors since 2011, currently serving as president-elect. Dr. Viscusi is also an avid musician and specialist in early music, and he performed and conducted in the Philadelphia area until the late 1990s. [top of page]

Hong Vo, MD, is double board-certified in anesthesiology and pain medicine. She received her medical degree from the University of Texas Medical School at Houston and completed her interventional pain management fellowship at Northwestern Feinberg School of Medicine in Chicago, IL. She has great interest in ultrasound-guided procedures to treat back and neck pain and musculoskeletal disorders. [top of page]

Kevin Vorenkamp, MD, serves as the director of the Pain Medicine Fellowship at Virginia Mason Medical Center in Seattle, WA. Dr. Vorenkamp is active with ASRA and the American Society of Anesthesiologists and was the program chair for ASRA's 16th Annual Pain Medicine Meeting in 2017. He was elected to the American Medical Association's Current Procedural Terminology editorial panel beginning May 2015. His major areas of interest involve interventional pain treatments targeting facial pain, cervicogenic headache, and sacroiliac joint pain as well as issues related to pain medicine coding, compliance, and practice management. [top of page]

Daniel Warren, MD, is academic faculty and deputy chief for the department of anesthesiology at Virginia Mason Medical Center in Seattle, WA. Dr. Warren participates in both perioperative care of patients in the operating room and on the Regional Anesthesia and Acute Pain Service. He is the medical director of the Anesthesiology Pain Clinic providing consultative and interventional care for patients with chronic and cancer pain. As a past program chair for an ASRA Pain Medicine Meeting, and co-chair of the Committee on Continuing Medical Education, Dr. Warren remains committed to the ASRA mission. [top of page]



Mark Wallace, MD, is the chief of the division of pain medicine in the department of anesthesiology and director of the division of clinical research in the University of California, San Diego (UCSD) Clinical and Translational Institute. He is subinvestigator for the National Institutes of Health Clinical and Translational Science Award, which supports the Clinical Translational Research Institute. Dr. Wallace is an associate editor for the *Clinical Journal of Pain*, chair of the UCSD Institutional Review Board, and a member of the American Pain Society board of directors. Dr. Wallace has authored and co-authored more than 230 articles, abstracts, books, and book chapters concerning pain research and management. [top of page]

Guy Weinberg, MD, trained in internal medicine and medical genetics before converting to anesthesiology (a wise move). He had also spent time in biochemistry laboratories at the University of California at San Francisco and the National Institutes of Health before leaving research forever (he thought) vowing never to do another experiment. After nearly 15 years of clinical practice, an 'outlier' event brought him back to the laboratory to answer how carnitine deficiency could lead to severe local anesthetic sensitivity that nearly cost a patient her life. In trying to model this event, Dr. Weinberg

identified the benefit of lipid emulsion infusion in treating local anesthetic systemic toxicity. Returning reluctantly to the laboratory, albeit with some measure of success, Dr. Weinberg is lucky enough to preserve 50% of his professional time for the operating room where some say he still has something to offer. At home, his wife Mary and three children claim to know better. [top of page]

Robert Weller, MD, is a professor of anesthesiology and section head of regional anesthesia and acute pain management at Wake Forest School of Medicine in Winston-Salem, NC. After completing six-month fellowships in both regional anesthesia at Virginia Mason Clinic and pediatric anesthesia at Children's Hospital National Medical Center in Washington, DC, in 1984, Dr. Weller has continued to practice and teach regional anesthesia throughout his career. He was residency program director at the University of Connecticut in Storrs for 10 years, and then moved to Wake Forest School of Medicine in Winston-Salem, NC, in 1997 where he helped establish a section and resident educational rotation in regional anesthesia and acute pain management (RAAPM). He served as RAAPM fellowship director from 2008 to 2013 and then as section head for RAAPM from 2013 to the present. Over the past 10 years, he introduced and promoted the use of ultrasound-guidance for regional anesthesia at Wake Forest and has been invited to teach at national and international meetings on this and other regional anesthesia subjects. He has been an associate editor for *Regional Anesthesia and Pain Medicine* and guest reviewer for a number of anesthesiology journals for many years. Dr. Weller has also been involved in the planning and CME oversight for the American Society of Anesthesiologists and ASRA annual meetings. [top of page]

Joshua Wellington, MD, is an assistant professor of clinical anesthesia and physical medicine and rehabilitation (PM&R) at Indiana University School of Medicine. He is medical director of the Indiana University Pain Medicine Center, where he is a member of a group of specialists who combine teaching, clinical research, and patient care to deliver advanced medical treatment at the Indiana University Medical Center in Indianapolis. Board-certified in PM&R and pain medicine, he has lectured extensively on topics related to pain, rehabilitation, and spasticity. [back to top]

Brian Williams, MD, MBA, has been the director of regional anesthesia/acute pain medicine, ambulatory anesthesia, and preoperative optimization at the VA Pittsburgh Healthcare System in Pittsburgh, PA, since 2010. His extramural research funding, dating back to 1996, has been from the National Institutes of Health, the Department of Defense, the International Anesthesia Research Society, and the Society for Ambulatory Anesthesia. He and his wife have been married for almost 28 years, and they together have 4 sons (ages 12 through 19). [top of page]

Morne Wolmarans, MBChB, FRCA, EDRA, is a consultant anaesthesiologist at the Norfolk and Norwich University Hospital in the United Kingdom for the last 14 years. Dr. Wolmarans was born in South Africa and studied medicine at the University of Pretoria. He started his medical practice in Cape Town, then moved to London in 1997, and finished specializing in anaesthesia and intensive care medicine in Cambridge. Dr. Wolmarans is president for Regional Anesthesia United Kingdom (RA-UK), an European Society of Regional Anaesthesia and Pain Therapy board member, vice chairman of the EDRA Board, an examiner for the EDRA diploma, and external examiner for University of East Anglia Master's Programme in Regional Anaesthesia. His special interests are ultrasound regional anaesthesia, vascular anaesthesia, post-graduate education, and golf. [top of page]

Christopher Wu, MD, is a professor of anesthesiology in the department of anesthesiology and critical care medicine at the Johns Hopkins School of Medicine in Baltimore, MD. His research is focused on outcomes research and regional anesthesia-analgesia. Dr. Wu has numerous peer-reviewed publications including manuscripts in *JAMA, Lancet,* and *British Medical Journal*. He is on several editorial boards including *Regional Anesthesia and Pain Medicine* and previously *Anesthesiology*. Dr. Wu enjoys teaching and mentoring the next generation of anesthesiologists and is the recipient of numerous awards in these areas. [top of page]

Tony Yaksh, PhD, earned is BS from Georgia Tech in Atlanta in 1966, his MS from the University of Georgia in Athens in 1967, and his PhD from Purdue University in Lafayette, IN, in 1971. He served in the U.S. Army from 1971-1973. He was a resident scientist in pharmacy at the University of Wisconsin from 1973-1976 and an associate scientist in anatomy at the University Colorado London from 1976-1977. Dr. Yaksh was a professor in neurosurgery at Mayo Clinic in Rochester, MN, from 1977-1988. At the University

of California, San Diego, he was resident vice chair from 1988-2014 in anesthesiology and is currently a professor. He has been National Institutes of Health-funded since 1977 and was twice awarded a Javitz award, with more than 800 papers and 45,000 citations. [top of page]

Masataka Yokoyama, MD, earned his MD in 1980 and PhD in 1995 from the Okayama University Medical School. He serves on the board of the Asian Oceanian Society of Regional Anesthesia and Pain Medicine. He is president-elect of the Japanese Society of Anesthesiologists and was president in 2016 of the Japan Society for Clinical Anesthesia. Dr. Yokoyama also has served on the boards of the following organizations: Japan Society of Pain Clinicians, Japanese Society of Regional Anesthesia, and Secretary General of the Japanese Association for the Study of Musculoskeletal Pain. He also serves on the WFSA Educational Committee. [top of page]

Yury Zasimovich, MD, is an assistant professor of anesthesiology at the University of Florida College of Medicine in Gainesville. Dr. Zasimovich completed his anesthesiology residency at the University of Florida and was named chief resident in 2013. He then followed with a fellowship in the Acute Pain and Perioperative Pain Medicine Division. Some of his current research interests include: “Transferrable training in thoracic epidural and paravertebral blocks using an advanced mixed-reality simulator” and “The diagnostic validity of laser-Doppler flowmetry, transmittance tissue oximetry, and invasive pressure monitoring in chronic exertional compartment syndrome – which one wins the gold?” He is a reviewer for the *Journal of Pain Medicine,* has many publications, and is an active member in several professional societies. [top of page]

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3 Penn Center West, Suite 224 Pittsburgh, PA 15276 855.795.ASRA toll-free in USA 412.471.2718 asraassistant@asra.com

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