



45th Annual Regional Anesthesiology & Acute Pain Medicine Meeting

April 23-25, 2020 | #ASRASPRING20
Hilton San Francisco Union Square | San Francisco, CA



Faculty

Scientific/Education Planning Committee

Jaime Baratta, MD; 2020 Chair
Vincent W.S. Chan, MD, FRCPC, FRCA; Ex-Officio, CME Committee Chair
Nabil Elkassabany, MD, MSCE; 2021 Scientific/Education Planning Committee Chair
Meera Gonzalez, MD; Member-at-Large
Carrie Guheen, MD; Resident Section Advisor
Rajnish Gupta, MD; Immediate Past Chair
David Hardman, MD; Member-at-Large
Kellie Jaremko, MD; Resident Section Chair 2019-2020
Rebecca Johnson, MD; Chair, 2022 Scientific/Education Planning Committee Chair
Jinlei Li, MD; Member-at-Large
Stephen Macres, MD; Member-at-Large (Local Faculty)
Jennifer Noerenberg, MD; Practice Management Committee
Carlos Pino, MD; Ex-Officio CME Committee Co-Chair
Steven Porter, MD; Member-at-Large
Brian Sites, MD; Ex-Officio, Editor-in-Chief, Board Liaison
Eugene Viscusi, MD; Ex-Officio, ASRA President
Jon Zhou, MD; Member-at-Large

Faculty

Sanjib Adhikary, MD; Penn State College of Medicine, Hershey, PA
Derek Amanatullah, MD, PhD; Stanford University School of Medicine, Stanford, CA
Jaime Baratta, MD; Thomas Jefferson University, Philadelphia, PA
Michael Barrington, MBBS, FANZCA, PhD; University of Melbourne, Australia
Karen Boretsky, MD; Harvard Medical School, Boston, MA
Alain Borgeat, MD; Balgrist University Hospital, Zurich, Switzerland
Adrian Bosenberg, MBChB, FFASA; Seattle Children's Hospital, Seattle, WA
Jan Boublik, MD, PhD; Stanford University School of Medicine, Stanford, CA
Melissa Byrne, DO, MPH; Michigan Medicine, Ann Arbor, MI
Vincent Chan, MD, FRCPC, FRCA; University of Toronto, Canada
Ki-Jinn Chin, MBBS, FANZCA, FRCPC; Toronto Western Hospital, University of Toronto, Canada
David Clark, MD, PhD; Stanford University School of Medicine, Stanford, CA
Richard Dart, MD, PhD; Rocky Mountain Poison and Drug Safety, Denver, CO
Oscar de Leon-Casasola, MD; University at Buffalo - Roswell Park Cancer Institute, Buffalo, NY
Alain Delbos, MD; Medipole Garonne, Toulouse, France
Nabil Elkassabany, MD, MSCE; University of Pennsylvania, Philadelphia, PA
Kayser Enneking, MD; University of Florida, Gainesville, FL
Katharine Fleischmann, MD; Massachusetts General Hospital, Harvard Medical School (Retired), Boston, MA
Carlo Franco, MD, FASA; Cook County Health, Chicago, IL
Desmond Fung, BSc; The University of British Columbia, Vancouver, Canada
Jeffrey Gadsden, MD, FRCPC, FANZCA; Duke University, Chapel Hill, NC
Tong Joo Gan, MD, MBA, MHS; Stony Brook University Medical Center, Stony Brook, NY



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Ralf Gebhard, MD; University of Miami, FL
Patrick Giam, MD, FASA; American Society of Anesthesiologists, Schaumburg, IL
Meera Gonzalez, MD; Einstein Medical Center, Jenkintown, PA
Stuart Grant, MD, ChB, MMCI; University of North Carolina at Chapel Hill, NC
Andrew Gray, MD, PhD; University of California, San Francisco, CA
James Green, MBBS ncl; University of Alberta Hospital, Alberta, Canada
Carrie Guheen, MD; Hospital for Special Surgery, New York, NY
Rajnish Gupta, MD; Vanderbilt University Medical Center, Nashville, TN
David Hardman, MD, MBA, FASA; University of North Carolina, Chapel Hill, NC
Brian Harrington, MD; Billings Clinic Hospital, Billings, MT
T. Kyle Harrison, MD; Stanford University, VA Palo Alto Health Care System, Los Altos, CA
Stephen Haskins, MD; Hospital for Special Surgery, New York, NY
Nadia Hernandez, MD; McGovern School of Medicine at University of Texas Health, Houston, TX
Terese Horlocker, MD; Mayo Clinic, Rochester, MN
Jean-Louis Horn, MD; Stanford University School of Medicine, Stanford, CA
Vivian Ip, MBChB, FRCP; University of Alberta Hospital, Alberta, Canada
Kellie Jaremko, MD; Massachusetts General Hospital, Boston, MA
Rebecca Johnson, MD; Mayo Clinic, Rochester, MN
Manoj Karmakar, MD, FRCA; The Chinese University of Hong Kong, Shatin, Hong Kong
Michelle Kars, MD, FAAP; Northwell Cohen Children's Medical Center and LIJ Medical Center, New Hyde Park, NY
Yury Khelemsky, MD; Icahn School of Medicine at Mount Sinai, Tenafly, NJ
Sandra Kopp, MD; Mayo Clinic, Rochester, MN
Kwesi Kwofie, MD, FRCPC; Dalhousie University, Halifax, Canada
Ruth Landau, MD; Columbia University, New York, NY
Lisa Leffert, MD; SOAP, Massachusetts General Hospital, Newton, MA
Jody Leng, MD, MS; VA Palo Alto, Stanford Hospital, CA
Linda Le-Wendling, MD; University of Florida, Gainesville, FL
Jinlei Li, MD, PhD; Yale University, Woodbridge, CT
Danielle Ludwin, MD; Columbia University Irving Medical Center, New York, NY
Sean Mackey, MD, PhD; Stanford University School of Medicine, Stanford, CA
Stephen Macres, MD, Pharm. D; University of California Davis Medical Center, Sacramento, CA
Sarah Madison, MD, MAS; Tibor Rubin VA Medical Center, Long Beach, CA
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, Canada
Stavros Memtsoudis, MD, PhD, MBA; Hospital for Special Surgery, Weill Cornell Medical College, New York, NY
Aleeze Moss, PhD; Marcus Institute of Integrative Health and Jefferson Health, Philadelphia, PA
Samer Narouze, MD, PhD; Western Reserve Hospital, Cuyahoga Falls, OH
Joseph Neal, MD; Benaroya Research Center of Virginia Mason Medical Center, Seattle, WA
Andrea Nicol, MD; University of Kansas School of Medicine, Leawood, KS
Jennifer Noerenberg, MD; Southern California Permanente Medical Group, Poway, CA
Steven Orebaugh, MD; University of Pittsburgh School of Medicine, Pittsburgh, PA
Amit Pawa, BSc, MBBS (Hons), FRCA, EDRA; Guys St. Thomas NHS Foundation Trust, London, United Kingdom
Anahi Perlas, MD, FRCPC; Toronto Western Hospital, University of Toronto, Canada
Carlos Pino, MD, FASA; Naval Medical Center, San Diego, CA



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Steven Porter, MD; Mayo Clinic, Jacksonville, FL
David Provenzano, MD; Pain Diagnostics and Interventional Care, Sewickley, PA
Meg Rosenblatt, MD; Mount Sinai St. Luke's and West Hospitals, New York, NY
Francis Salinas, MD; US Anesthesia Partners, Seattle, WA
Kristin Schreiber, MD, PhD; Harvard Medical/Brigham & Women's Hospital, Boston, MA
Eric Schwenk, MD; Sidney Kimmel Medical College at Thomas Jefferson University, Philadelphia, PA
Cynthia Shum, DNP, Med, RN, CHSE-A; Veteran's Hospital, Palo Alto, CA
Sanjay Sinha, MBBS; St. Francis Hospital and Medical Center, Hartford, CT
Brian Sites, MD; Dartmouth-Hitchcock Medical Center, Plainfield, NH
Ellen Soffin, MD, PhD; Hospital for Special Surgery, New York, NY
Ban Tsui, MD; Stanford University, Palo Alto, CA
Ankeet Udani, MD, MEd; Duke University, Durham, NC
Alexandru Visan, MD, MBA; Executive Cortex Consulting, Houma, LA
Eugene Viscusi, MD; Thomas Jefferson University, Philadelphia, PA
Benjamin Walker, MD; American Family Children's Hospital, University of Wisconsin, Madison, WI
Tessa Walters, MD; VA Palo Alto Health Care System, Palo Alto, CA
Guy Weinberg, MD; University of Illinois and Jesse Brown VA, Northbrook, IL
Michael Weinstein, MD, MPH, MBE; LiveWell Clinicians, Narberth, PA
Glenn Woodworth, MD; Oregon Health and Science University, Lake Oswego, OR
Yury Zaslomovich, MD; University of Florida, Gainesville, FL
Jon Zhou, MD; University of California, Davis, CA

Associate Faculty

Brian Allen, MD; Vanderbilt University Medical Center, Nashville, TN
Anis Dizdarevic, MD; Montefiore Medical Center, Albert Einstein College of Medicine, Old Greenwich, CT
Rodney Gabriel, MD, MAS; University of California, San Diego, CA
Christina Jeng, MD, FASA; Icahn School of Medicine at Mount Sinai, New York, NY
Sree Kolli, MD, EDRA; Cleveland Clinic, Cleveland, OH
Olga Nin, MD; University of Florida Health, Gainesville, FL
John-Paul Pozek, MD; The University of Kansas Health System, Mission Hills, KS
Uma Shastri, MD, FRCPC; Vanderbilt University, Nashville, TN
Ashley Shilling, MD; University of Virginia, Charlottesville, VA
Sylvia Wilson, MD; Medical University of South Carolina, Mt. Pleasant, SC

ASRA Administration

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Sanjib Adhikary, MD, is an anesthesiologist with fellowship training in regional anesthesia and neuroanesthesia. He deals with regional anesthesia procedures for acute pain management almost daily in his clinical practice. He teaches ultrasound guided regional anesthesia to residents and faculty regularly as a part of his daily job. Since 2009 he has been an instructor for advanced ultrasound guided regional anesthesia workshops at American Society of Regional Anesthesia meetings and Canadian Anesthesia Society annual meetings.

Brian Allen, MD, is an assistant professor at Vanderbilt University Medical Center where he directs the Acute Pain Service and the fellowship in Regional Anesthesiology and Acute Pain Medicine (ACGME-accredited). He completed undergraduate and medical school at Washington University, residency at Vanderbilt, and regional fellowship at OHSU before returning to join the Vanderbilt faculty. His clinical focus is on regional and multimodal analgesia in ERAS pathways. Research interests include educational assessment, evaluating ERAS efficacy and compliance, and opioid minimization.

Derek Amanatuallah, MD, PhD, originally aspired to be an oncologist, however, he shifted his interests to orthopaedic surgery after sustaining an acetabular labral tear and undergoing hip arthroscopy. Even though his clinical interests shifted, his passion for innovation and science remained. As an orthopaedic resident, he characterized the differential gene expression of chondrocytes in the different zones of articular cartilage and isolated a compression responsive element in the COMP promoter. His personal and scientific interest in arthritis formed the foundation of his fellowship training at the Mayo Clinic and current arthroplasty practice at Stanford University. Dr. Amanatuallah applied his scientific background and created the orthopaedic microbiology laboratory at Stanford University, where they are currently developing novel diagnostic and non-antibiotic therapeutics targeting periprosthetic joint infection. To date, he has published 161 manuscripts on topics ranging from fracture fixation, cartilage gene expression, total joint replacement outcomes, periprosthetic joint infection, and artificial intelligence.



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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.

Michael Barrington, MBBS, FANZCA, PhD, is an anaesthetist at St.Vincent's Hospital and professor at University of Melbourne, Australia. He has published original research, reviews and textbook chapters; and has been invited to contribute to many international meetings. Clinical and research interests include quality and safety, investigation of new techniques and learning in the operating room. He has contributed to practice advisories of the American Society of Regional Anesthesia and Pain Medicine.

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.

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.



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Adrian Bosenberg MBChB, FFA(SA), is a professor of anesthesiology at the University Washington and a pediatric anesthesiologist at Seattle Children's Hospital Washington. He is also the former director of regional anaesthesia at the University of Washington. He received his MBChB from the University of Cape Town in 1973 and obtained his specialist training in Durban South Africa and New Zealand. He was a fellow of Faculty Anaesthetists of South Africa in 1981 and completed a paediatric anaesthesia fellowship in Seattle in 1983-1984. Dr. Bosenberg is an honorary member of the Association of Paediatric Anaesthetists of Great Britain and Ireland as well as the European Society of Paediatric Anaesthesia, in recognition of his contributions to pediatric anesthesia worldwide. Currently, Dr. Bosenberg is a sub editor of the *Paediatric Anaesthesia* Journal and member of the editorial advisory boards of *Paediatric Anaesthesia* and *SA Journal of Anaesthesia and Analgesia*. He is a member of ASRA, life member of the European Society of Regional Anaesthesia and Pain Therapy, member of Council RAPSA, member of the Paediatric Anaesthesia Sub Committee of the World Federation of Societies of Anaesthesiologists, and a volunteer for Operation Smile South Africa.

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.

Melissa Byrne, DO, MPH, is a graduate of Michigan State University College of Osteopathic Medicine. After residency in anesthesiology at the University of Michigan, she worked in private practice in Virginia before returning to Michigan to complete a fellowship in regional and ambulatory anesthesia. Her interests include resident education and point-of-care ultrasound. She was recently named assistant director for PoCUS, and she is active in curriculum development.



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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.

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 anesthesiology at Stanford University where he also serves as the vice-chair for research. He has a long-standing interest in understanding the factors affecting the persistence of pain including immunological, genetic and environmental factors. He has a basic science laboratory dedicated to these questions. In addition, Dr. Clark is involved in clinical trials evaluating treatments for chronic back pain and pain in veterans suffering from war-related illnesses.



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Richard Dart, MD, PhD, is a toxicologist and serves as the director of the Rocky Mountain Poison and Drug Center. He is the executive director of Researched Abuse, Diversion, and Addiction-Related Surveillance (RADARS®) System. He has published more than 250 papers and edited two books. In 2002 he was recognized with a special citation from the Commissioner of the FDA. He was the 2004 recipient of the Matthew J. Ellenhorn Award for Excellence in Medical Toxicology. He is the 2017 recipient of the AACT Career Achievement Award. He is also a deputy editor of the medical journal *Annals of Emergency Medicine*.

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*.

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.

Anis Dizdarevic, MD, is director, division of regional anesthesiology and acute pain management and director, Wakefield Hospital Anesthesiology at Montefiore Medical Center. He obtained MD degree from Harvard Medical School and completed his training in anesthesiology and interventional pain management at Brigham and Women's Hospital. His clinical and research focus is on perioperative management of orthopedic surgery patients, acute to chronic pain transition and management, multimodal analgesia and minimally invasive anesthesia, and enhanced recovery after surgery.



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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*.

F. Kayser Enneking, MD, has held various leadership roles in her organization, UF Health, since 1998. Dr. Enneking's interest in quality of care and performance improvement has been honed by a lifetime of patient care and the deep-seated knowledge that we can deliver better care. For the past 10 years, her academic work has been focused on bringing change to the bedside, at home or in the hospital. Dr. Enneking's service work includes active membership on the UF Health Board of Quality Committee since 2010 (chair 2006-2014). During this time, UF Health Shands was recognized for improvement in its nationally benchmarked quality scores.

Katharine Fleischmann, MD, is focused on teaching expertise in Regional Anesthesia. She has been involved in the development and growth of the Regional Anesthesia Program for the residents as well as the Acute Pain and Regional Anesthesia Fellowship. Dr. Fleischmann has developed optimal care protocols for patients undergoing many surgical procedures. She maintained the MGH guidelines for anticoagulation and neuraxial procedures with the MGH Medical Education and Safety Committee for years. Also, she has a passion for work in Global Health, and is the Vice Chair of the ASRA Global Health SIG.

Carlo Franco, MD, is the Chairman of Regional Anesthesia at JHS Hospital of Cook County Chicago and Professor of Anesthesiology and Anatomy at Rush University Medical Center, Chicago, Illinois. Dr. Franco received his degree in General Surgery and Anatomy from the University of Valparaiso in Chile. He immigrated to the USA in 1985 and served as visiting Professor of Anatomy at the Medical College of Ohio in Toledo, Ohio 1985-86 and 1988-89. Dr. Franco completed his Anesthesiology Residency at Sinai Hospital of



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Detroit, Detroit, MI, 1990-94 and was recruited to Cook County Hospital of Chicago (now JHS Hospital of Cook County) by Dr. Alon Winnie in 1994. He has introduced some new anatomy-based nerve block techniques.

Desmond Fung, BSc, received his BSc in Life Sciences from Queen's University in Kingston, Ontario, Canada. He is currently a MSc student in the department of anesthesiology, pharmacology & therapeutics at The University of British Columbia in Vancouver. His research interests focus on the pharmacology of novel local anesthetics for the treatment of chronic pain. Desmond is the recipient of ASRA's inaugural Graduate Student Award for his project on quaternary lidocaine derivatives.

Rodney A. Gabriel, MD, is chief of the division of regional anesthesia and acute pain at the University of California, San Diego (UCSD). He also serves as the medical director at UCSD's Koman Outpatient Pavilion outpatient surgery center. He is an associate professor of anesthesiology and associate adjunct professor of biomedical informatics. He received his medical degree from the University of California, San Francisco; completed residency at Brigham and Women's Hospital; and completed both a regional anesthesia fellowship and a biomedical informatics fellowship at UCSD.

Jeffrey 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.



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Tong Joo Gan, MD, MBA, MHS, is professor and chairman of the department of anesthesiology at Stony Brook Medicine in Stony Brook, New York. 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.

Ralf E. Gebhard, MD, is a Professor in the Department of Anesthesiology, Perioperative Medicine and Pain Management at the University of Miami. He also is the Chief of the Division of Acute Pain Management and Regional Anesthesia and serves as Vice Chairman for Clinical Research. In addition to his expertise in the area of Acute Pain Management, Dr. Gebhard has also proven himself to be an outstanding clinical researcher and scientist. He has conducted more than 50 clinical trials as a Principal Investigator and has received significant grants to support his research. His area of particular interest is related to peripheral nerve block safety and complications, as well as acute pain management in the pediatric population. Dr. Gebhard has published multiple book chapters and over 40 peer reviewed articles. He currently serves as a reviewer for numerous journals including Anesthesiology, Anesthesia and Analgesia and Regional Anesthesia and Pain Medicine.

Patrick Giam, M.D., FASA is vice speaker of the ASA House of Delegates. He was elected to this position in 2017. Dr. Giam is a physician partner of USAP in Houston, TX and specializes in anesthesia for neurological surgery. He is also a clinical assistant professor at the University of Texas Medical Branch in Galveston, TX. In addition to his ASA role, Dr. Giam also serves as a director of the anesthesia quality Institute and as a director of the Texas Society of Anesthesiologists.



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Meera N. Gonzalez, MD, has experience as a key educator for residents in acute pain/regional anesthesia. She was instrumental in developing a perioperative clinical pathway for patients with hip fractures. She is currently the medical director of perioperative services at Einstein Medical Center Elkins Park, whose focus is orthopaedic, bariatric, and robotic surgery. She has taught ultrasound-guided regional anesthesia at several courses for residents and attending physicians. She has earned awards for excellence in resident education and mentorship.

Stuart Grant, MBChB, MMCI, trained in Glasgow Scotland before moving to the US. He is chief of regional anesthesiology at the University of North Carolina Chapel Hill. He serves on the ASRA CME committee and directs the free standing UGRA courses for ASRA. His textbook "Ultrasound Guided Regional Anesthesia" is now in its second edition.

Andrew T. 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.

James 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.



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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.

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.

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 previously served as a subspecialty regional anesthesiology faculty member and residency program director at Duke University. Dr. Hardman has expertise in nerve injury after peripheral nerve block and regularly consults as an expert witness defending anesthesiologists who have experienced neurologic complications after peripheral nerve blocks.

Brian Harrington, MD, is an anesthesiologist in private practice. After training at Virginia Mason Medical Center in Seattle, WA, he returned to his home state of Montana, where he has worked at the Billings Clinic Hospital for over 25 years. Special interests include the pragmatic translation of advances in regional anesthesia and pain medicine in academia into busy community practice settings. He is board-certified in pain medicine.



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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.

Stephen Haskins, MD, is a regional anesthesiologist trained at the Hospital for Special Surgery in New York, NY. During his fellowship, Dr. Haskins developed an interest in PoCUS, specifically focused cardiac, lung, abdominal, and gastric ultrasound. Dr. Haskins is the co-founder and co-chair of the ASRA Perioperative PoCUS Special Interest Group. He is also lead author for Point-of-Care Ultrasound (PoCUS) for the Regional Anesthesiologist and Pain Specialist Review Series in the *Regional Anesthesia and Pain Medicine* journal.

Nadia Hernandez, MD, completed her anesthesiology residency at the Icahn School of Medicine at Mount Sinai Health System in New York, NY, followed by fellowship training in regional anesthesia and acute pain medicine. She moved back home to Texas where she serves as an assistant professor of anesthesiology at the University of Texas (UT) at Houston McGovern School of Medicine. After one year, Dr. Hernandez revamped the regional anesthesiology fellowship and was promoted to director of regional anesthesiology at UT Houston as well as program chair of the regional anesthesia and perioperative ultrasound fellowship. She is one of the co-founding members of the ASRA Perioperative Point-of-Care Ultrasound Special Interest Group.

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.



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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.

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.

Kellie Jaremko, MD, PhD, completed a combined MD-PhD program at Thomas Jefferson University. She will complete her residency in anesthesiology at Massachusetts General hospital and begin a regional anesthesia and acute pain fellowship at Johns Hopkins in Fall 2020. Dr. Jaremko is pursuing a mix of clinical time and research focused on perioperative stress, pain, and optimization of management with regional and multimodal analgesia. She has been an active member of ASRA for many years including leadership within the resident section committee, social media team, and is the founding chair of the Resident and Medical Student Education SIG.



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Christina L. Jeng, MD, FASA, is an associate professor in anesthesiology, perioperative and pain medicine; orthopaedics; and medical education at the Icahn School of Medicine at Mount Sinai. She graduated from college at Yale University and medical school at the Mount Sinai School of Medicine. She is the director of the regional anesthesiology and acute pain medicine fellowship and assistant program director for clinical competence for the resident training program at Mount Sinai. She has taught ultrasound-guided regional anesthesia workshops at regional, national, and international meetings.

Rebecca Johnson, MD, is an associate professor of anesthesiology at Mayo Clinic Rochester, MN. She is fellowship-trained in regional anesthesia and acute pain management. Additionally, she has received a Postdoctoral Certificate in Clinical and Translational Science and was selected as a Health Care Delivery Scholar in the Mayo Clinic Kern Center for the Science of Health Care Delivery. She uses health care delivery research methods to study outcomes following total joint arthroplasty focusing on multimodal and regional anesthesia use within enhanced recovery protocols.

Manoj Kumar Karmakar, MD, FRCA, is the director of paediatric anaesthesia and consultant anesthesiologist at the department of anaesthesia and intensive care of the Chinese University of Hong Kong. Professor Karmakar is internationally recognized for his research in regional anesthesia, in both adults and children, and his areas of research interest include thoracic paravertebral block, spinal sonography, ultrasound guided central neuraxial blocks and local anesthetic pharmacology.

Michelle Kars, MD, completed her training in both general pediatrics and anesthesiology at New York Presbyterian Weill-Cornell in New York, followed by a fellowship in pediatric anesthesia at Children's National Medical Center in Washington, DC. Dr. Kars is currently the director of the Pediatric Acute Pain Service at Northwell Cohen Children's Medical Center and the director of Continuing Medical Education for the department of anesthesiology at Long Island Jewish Medical Center. She is an assistant professor of anesthesiology at the Zucker School of Medicine at Hofstra/Northwell where she serves as a part of the core



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faculty for the anesthesia residency. Her clinical interests include PoCUS application in pediatrics as well as research in regional anesthesia techniques in infants and children to minimize opioid requirements in the perioperative period.

Yury Khelemsky, MD, is the program director of The Icahn School of Medicine at Mount Sinai pain medicine fellowship and serves on the board of directors of the New York Society of Interventional Pain Physicians. He is also the chair of the pain medicine committee of the New York State Society of Anesthesiologists.

Sree Kolli, MD, EDRA, is a regional anesthesiologist and PoCUS enthusiast, trained at the Cleveland Clinic in anesthesia residency and fellowship in acute pain and regional anesthesia. He completed training in the UK and attained European Diploma in Regional Anesthesia from ESRA in 2011. Dr. Kolli is the organizer and the primary activity director for the Cleveland Clinic's Cadaver Regional Anesthesia & PoCUS Workshops and the Chronic Pain Ultrasound Workshops at Pain Management Symposium. He is currently the associate program director for the regional anesthesia fellowship program at the Cleveland Clinic.

Sandra L. Kopp, MD, is a professor of anesthesiology & perioperative medicine at Mayo Clinic, Rochester, MN. She received her Doctor of Medicine degree from the University Of Minnesota School Of Medicine in 1999. Dr. Kopp did her internship, anesthesiology residency, and regional anesthesiology fellowship at Mayo Clinic, Rochester, MN. Dr. Kopp is currently the vice chair, integration and convergence, department of anesthesiology and perioperative medicine; chair, division of community anesthesiology; and chair, surgical and procedural practice in SE Minnesota. As part of her Mayo Clinic enterprise roles, she works clinically providing anesthesia in small community hospitals as well as a large tertiary care hospital. She serves as a Board Member for the American Society of Regional Anesthesia and Pain Medicine. Her research interests include regional anesthesia and analgesia for orthopedic surgery, peripheral nerve injury, and anticoagulation.



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Kwesi Kwofie, MD, completed a fellowship at the New York School of Regional Anesthesia. He is currently Assistant Professor of Anesthesiology and Director of Acute Pain and Regional Anesthesia at Dalhousie University in Canada, Chair of the Regional Anesthesia Section of the Canadian Anesthesiologist's Society and has several noted publications. He has given lectures and workshops in North & South America, Europe, Asia and the Middle East on his many interests including peripheral nerve blockade, mechanisms of nerve injury, acute pain, anesthesia in low resource settings and obstetrical anesthesia.

Ruth Landau, MD, is the Virginia Apgar Professor of Anesthesiology, the chief of the division of obstetric anesthesia and the director of the center for precision medicine in the department of anesthesiology at Columbia University in NY, and the President of the Society for Obstetric Anesthesiology Perinatology (SOAP). She is passionate about improving patients' experience and tailoring approaches to each individuals' needs. She has authored over 100 articles, has lectured around the world on the genetics of pain optimized labor analgesia and enhanced recovery and judicious opioid prescriptions.

Lisa Leffert, MD, is an associate professor of Harvard Medical School and a senior member of the Department of Anesthesia, Critical Care and Pain Medicine at the Massachusetts General Hospital in Boston where she serves as the Chief of the Obstetric Anesthesia Division, and Vice Chair for Faculty Development. She is President-Elect of the Society for Obstetric Anesthesia and Perinatology (SOAP). Dr. Leffert lectures nationally and internationally on diverse topics such as the anesthetic management of patients with intracranial lesions, strategies for placing neuraxial anesthetics in patients with diverse comorbidities, and the peri-delivery care of patients with substance abuse and does research on obstetric patients with neurologic disease. She recently led an interdisciplinary effort to create a SOAP consensus statement on neuraxial anesthesia in the obstetric patient on thromboprophylaxis and higher dose anticoagulants.

Jody Leng, MD, MS, attended medical school at the University of Miami, and completed her anesthesiology residency and RAAPM fellowship at Stanford Hospital and Clinics. Prior to her medical career, she worked as



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an R&D engineer at a biomedical device startup in Silicon Valley. She currently serves as the director of RAAPM at the VA in Palo Alto, the associate program director of the RAAPM fellowship, and the co-director of the Peer Support and Resiliency in Medicine (PRIME) wellness program at Stanford.

Linda Le-Wendling, MD, completed fellowship in acute pain medicine and regional anesthesiology at the University of Florida, Gainesville. Since then, she has been faculty in the department of anesthesiology and division of acute pain medicine at the University of Florida. She is currently the fellowship director and loves teaching, writing and learning!

Jinlei Li, MD, PhD, FASA, is an associate professor and co-director of regional anesthesiology and acute pain medicine at Yale University department of anesthesiology and Yale New Haven Health in CT. Dr. Li serves on several committees at ASA and interest groups at ASRA. She has participated and organized multiple regional anesthesia workshops in USA and internationally. Her research interests and publications include total joint replacement, hip fracture, rib fracture, local anesthetics adjuvants, regional anesthesia and anticoagulants, and regional anesthesia education.

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.



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Sean Mackey, MD, PhD, is chief of the division of pain medicine and Redlich professor of anesthesiology, neurosciences and neurology at Stanford University. He is the Immediate Past President of the American Academy of Pain Medicine. Dr. Mackey received his BSE and MSE in bioengineering from University of Pennsylvania and his PhD in electrical and computer engineering as well as MD from University of Arizona. Dr. Mackey is author of over 200 journal articles, book chapters, abstracts, and popular press pieces in addition to numerous national and international lectures.

Stephen Macres, MD, is a clinical professor in the department of anesthesiology and pain medicine at the University of California Davis Medical Center. He completed his anesthesia training and fellowship training in pain medicine at UC Davis in 1995. He is currently the director of the anesthesia acute pain service. His professional interests have always focused on improving patient outcomes through the judicious application of multimodal analgesia with an emphasis on regional anesthesia techniques. Dr. Macres is actively involved in continuing medical education and is the director of the annual UCD anesthesiology review course and ultrasound guided peripheral nerve block workshop.

Sarah Madison, MD, MS, is a staff anesthesiologist at the Tibor Rubin VA Medical Center in Long Beach, CA. She completed her regional anesthesia fellowship at UCSD in 2010, and has served as faculty at UCSD and Stanford. Her interests include ultrasound-guided regional anesthesia and continuous peripheral nerve blocks.

Edward Mariano, MD, MAS, is a professor at Stanford University School of Medicine and chief of the anesthesiology and perioperative care service at the Veterans Affairs Palo Alto Health Care System. His research interests include the development of techniques and patient care pathways to improve postoperative pain control, patient safety, and other surgical outcomes and has published over 170 peer-reviewed articles. He is a recipient of the Veteran Health Administration's John D. Chase Award for Physician Executives Excellence and has led key national healthcare initiatives related to pain medicine.



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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.

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.

Aleezé Sattar Moss, PhD, is the associate director of the Myrna Brind Center for Mindfulness at the Marcus Institute of Integrative Health at Jefferson Health. She is a certified Mindfulness-Based Stress Reduction (MBSR) teacher and teaches MBSR to groups, individuals, healthcare professionals, and medical students. She also offers professional training to those who wish to teach mindfulness. In addition to teaching, she conducts qualitative research on the effects of MBSR on physical and psychological health and has published in peer-reviewed journals.

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,



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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.

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.

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.

Olga "Kiki" Nin, MD, is an assistant professor at the University of Florida, UF Health in Gainesville and the medical director of UF's outpatient Florida surgery center. She is fellowship trained in acute pain and perioperative pain medicine at UF Health. She is from San Juan, Puerto Rico and completed her medical degree in Sidney Kimmel Medical College at Thomas Jefferson University in Philadelphia, PA, and her



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anesthesia residency and fellowship at the University of Florida in Gainesville. Some of her medical interests are nerve microanatomy, opioid free surgery, and enhanced recovery after anesthesia.

Jennifer Noerenberg, MD, is a board-certified anesthesiologist who completed a fellowship in regional anesthesia and perioperative pain management at Washington University in St. Louis in 2014. She completed residency at the University of California, Davis. She is an associate physician with the Southern California Permanente Medical Group and works for the San Diego region. Her interests include working to develop perioperative pain protocols for several types of surgical applications and developing tools to educate both patients and physicians of resources for multimodal and regional anesthesia techniques.

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.

Amit Pawa, BSc, MBBS, FRCA, EDRA, 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). He is currently president of Regional Anaesthesia-UK (RA-UK) and also serves as an RA-UK board member and a 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.



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Anahi Perlas, MD, FRCPC, is a professor of anesthesia at the University of Toronto and staff anesthesiologist at the Toronto Western Hospital. Her research interests include ultrasound-guided regional anesthesia and gastric ultrasound. She has published over 70 peer-reviewed original articles and given over 100 lectures nationally and internationally. Dr. Perlas is executive editor of the journal *Regional Anesthesia and Pain Medicine*.

Carlos Pino, MD, is co-chair of ASRA's Continuing Medical Education (CME) Committee and a member of the Board of Directors. He is a professor of anesthesiology and pain medicine at the Robert Larner, MD College of Medicine at the University of Vermont in Burlington. He is past president of the Vermont Society of Anesthesiologists. He served as chair of the Scientific/Education Planning Committee for the 14th Annual Pain Medicine Meeting and as program director of the pain medicine fellowship at the University of Vermont.

Steven Porter, MD, is assistant professor of anesthesiology in the department of anesthesiology and perioperative medicine at Mayo Clinic in Jacksonville, FL. He is the program director for Mayo Clinic Florida's RAAPM fellowship, the medical director for Mayo Clinic Florida's Quality Academy, and the chair of his hospital's controlled substance and pain oversight team. Dr. Porter has lectured at regional, national, and international meetings on topics related to regional anesthesia and acute pain management.

John-Paul Pozek, MD, is a husband, dog-father, and fellowship-trained anesthesiologist from the University of Kansas. His clinical interests are regional anesthesia, acute pain medicine, perioperative analgesia, and avoiding the transition from acute to chronic pain. He serves as the resident research coordinator and advocates for increased resident involvement in original research. When not in the OR or doing research, he enjoys travel, reading, cycling, and playing ice hockey.



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David Provenzano, MD, is the President of Pain Diagnostics and Interventional Care. He received his undergraduate degree from Colgate University, In New York, 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. 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.

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.

Francis Salinas, MD, has been in private practice now for 4 years at Swedish Medical Center after teaching for 15 years at Virginia Mason Medical Center. He now gets to utilize the benefits of regional anesthesia on a daily basis in the busy orthopedic, general surgical, thoracic, obstetric, and acute pain services. The previous joys of teaching residents and fellows has now been replaced with the rewards and joys of direct pain care. He maintains an academic practice by teaching at the ASRA meetings, serving on the editorial board for RAPM and Advances in Anesthesia, and serving as senior examiner for the ABA.



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Kristin Schreiber, MD, PhD; is a regional anesthesiologist and translational pain neuroscientist. Her research focuses on the development of chronic pain after surgical injury, particularly the mechanisms by which individual differences in psychosocial processing and nociceptive sensitivity lead to enhanced pain propensity and longevity in some people, but not others. Using a variety of methods, (quantitative sensory testing, psychosocial testing, fMRI, digital pills), I am investigating how non-opioid analgesic techniques (regional anesthesia, yoga-based exercise, placebo, distraction, music, CBT) may modulate pain.

Eric Schwenk, MD; is fellowship-trained in regional anesthesia and acute pain. He tries to improve patient outcomes through the use of regional anesthesia and alternatives to opioids perioperatively. My academic interests are ketamine in acute pain, regional anesthesia outcomes, academic social media, and perioperative hip fracture management. He is a Christian, enjoys teaching residents and medical students, and is married with a 5-year-old boy. I am a huge Philly sports fan and lifelong North Carolina Tar Heel.

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.

Ashley Shilling, MD, is an associate professor at the University of Virginia Medical Center and attended both medical school and residency at the University of Virginia. Her passions include regional anesthesia and acute pain medicine, ambulatory anesthesia, orthopedic anesthesia and medical education. Her roles include medical director of UVA's ambulatory surgical center, director of regional anesthesia division, and regional anesthesia and acute pain medicine fellowship director.



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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.

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.

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. Recently, Dr. Sites 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. 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.

Ellen Soffin, MD, PhD, is an assistant attending anesthesiologist at Hospital for Special Surgery (New York, NY). She is the chair of the anesthesia spine service workgroup and directs the department's spine research



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program. Dr. Soffin's clinical interests include anesthesia for complex spine surgery, emphasizing applications of regional analgesia to the spine surgery patient. She is a nationally recognized expert on enhanced recovery pathways for spine surgery and has published extensively on opioid-minimizing strategies for orthopedic surgery.

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 interest 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.

Ankeet Udani, MD, MEd, 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.

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. 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



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certification. He completed his residency and a fellowship in regional anesthesiology at Columbia University College of Physicians and Surgeons in New York.

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. 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.

Benjamin Walker, MD, is the director of pediatric pain management at American Family Children's Hospital at the University of Wisconsin. His primary research interests include safety and efficacy in pediatric regional anesthesia.

Tessa L. Walters, MD, is a staff anesthesiologist and co-director of perioperative surgical home at the VA Medical Center in Palo Alto, CA and clinical assistant professor (affiliated) at Stanford. She received a bachelor's degree in chemistry cum from Harvard and her medical degree, internship and residency from Stanford. In her current role, Dr. Walters provides general and cardiac anesthesia and has championed an anesthesiologist-led PSH since 2010. She has also functioned as chief medical officer and advisor for med tech startups since 2015.



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Guy Weinberg, MD, trained in internal medicine, medical genetics and biochemistry before (wisely) converting to anesthesiology, vowing never to do another experiment. Fifteen years later a 'near miss' brought him back to the lab to answer how carnitine deficiency severely sensitized a patient to bupivacaine and almost killed her. In modeling this, he found that lipid emulsion reverses LAST. Along the way he was lucky enough to find Mary, with whom he's raised three wonderful kids. Dr. Weinberg is forever grateful to his family for their support and teaching him the important things in life.

Michael S. Weinstein, MD, MBE, MPH, is board certified in surgery, surgical critical care, neurocritical care, and hospice and palliative medicine. He is a fellow of the American College of Surgeons and the American College of Critical Care Medicine. In order to help alleviate stigma and support a nationwide discussion regarding physician well-being, Dr. Weinstein publicly shared his own story of depression and suicidal ideation in the *New England Journal of Medicine*. He speaks nationally about issues of physician well-being, and mindfulness-based strategies for realizing our full potential.

Sylvia Wilson, MD, is an associate professor in the department of anesthesia and perioperative medicine at the Medical University of South Carolina (MUSC) in Charleston, SC. Following medical school (University of Florida), she completed her anesthesia residency at the University of North Carolina (Chapel Hill) and fellowship training at the University of Pittsburgh. Since joining MUSC, she has served as regional anesthesia division chief (2010-16), fellowship director, and medical director of ambulatory surgery. Her research includes regional anesthetic techniques and non-opioid analgesics.

Glen Woodworth, MD, began his medical training in San Diego culminating in finishing his residency at the Mayo Clinic in Rochester, MN. He currently is the regional anesthesia and acute pain medicine fellowship director, and associate professor at Oregon Health and Science University in Portland, OR. In addition to his clinical duties, Dr. Woodworth is an active regional anesthesia and education researcher and is particularly



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interested in the assessment of competency, the effectiveness of different educational methods in medical education, and the use of education technology.

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.

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