

Stanford



Edward R. Mariano, MD, MAS, FASA

Professor of Anesthesiology, Perioperative and Pain Medicine

CLINICAL OFFICES

- **Anesthesia**

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- **VA Palo Alto Health Care System Dept of Anesthesia**

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

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Bio

BIO

Edward R. Mariano, MD, MAS, FASA, is a graduate of Georgetown University School of Medicine. He completed his anesthesiology residency at Stanford University Medical Center and pediatric anesthesiology fellowship at Stanford's Lucile Packard Children's Hospital with a special interest in regional anesthesiology and acute pain medicine (RAAPM) for children. He is double board-certified by the American Board of Anesthesiology and is a Fellow of the American Society of Anesthesiologists.

He joined the Department of Anesthesiology at the University of California, San Diego (UCSD), in 2004, where he founded the RAAPM program. While working full-time, he also earned a Master of Advanced Studies degree in clinical research. He served as RAAPM Division Chief at UCSD until 2010, pioneering the use of continuous peripheral nerve blocks for patients having same-day surgery and founding the first one-year RAAPM Fellowship in California. From 2013 to 2016, Dr. Mariano took the lead in achieving accreditation status for all RAAPM fellowship programs nationwide through the Accreditation Council for Graduate Medical Education (ACGME), and under his direction the RAAPM fellowship program at Stanford became one of the first nine programs to be ACGME-accredited.

Dr. Mariano 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. He has developed techniques and patient care pathways to improve postoperative pain control, patient safety, and other outcomes and

has published over 200 peer-reviewed articles and book chapters. He is President of the California Society of Anesthesiologists and has held leadership positions in the American Society of Anesthesiologists, American Society of Regional Anesthesia and Pain Medicine, and multiple journals. He is a recipient of the Veterans Health Administration's John D. Chase Award for Physician Executives Excellence and has worked on key national healthcare initiatives in the U.S. including the accreditation of regional anesthesiology and acute pain medicine fellowships, pain management guidelines and hospital-based standards, development of quality and cost measures in perioperative care, and the National Academy of Medicine Action Collaborative Countering the U.S. Opioid Epidemic.

Dr. Mariano manages his own self-titled blog EdMariano.com, and you can follow him on Twitter (@EMARIANOMD).

CLINICAL FOCUS

- Anesthesia
- Regional Anesthesiology and Acute Pain Medicine

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Anesthesiology, Perioperative and Pain Medicine

ADMINISTRATIVE APPOINTMENTS

- Chief, Anesthesiology and Perioperative Care Service, VA Palo Alto Health Care System, (2010- present)
- Associate Chief of Staff, Inpatient Surgical Services, VA Palo Alto Health Care System, (2013-2019)

HONORS AND AWARDS

- Resident of the Year, Department of Anesthesia; Stanford University (2003)
- Teacher of the Year, Department of Anesthesiology; University of California, San Diego (2005)
- Health Care Champion, San Diego Business Journal (2007)
- Top "40 Under 40" in San Diego, San Diego Metropolitan Magazine (2007)
- Special Service Award, Department of Anesthesiology; University of California, San Diego (2010)
- 2012 Distinguished Visiting Professor in Anesthesiology, Hospital for Special Surgery (2012)
- 2012 Dr. Benigno Sulit, Jr. Memorial Lecturer, Philippine Society of Anesthesiologists (2012)
- Best of Meeting Abstract, 2013 Spring Annual Meeting, American Society of Regional Anesthesia and Pain Medicine (2013)
- Best of Meeting Abstract, 2014 Spring Annual Meeting, American Society of Regional Anesthesia and Pain Medicine (2014)
- John D. Chase Award for Executive Excellence, Veterans Health Administration (2015)
- Ellis N. Cohen, MD, Achievement Award, Stanford Department of Anesthesiology, Perioperative and Pain Medicine (2017)
- Keynote Speaker, Cleveland Clinic Regional Anesthesia Course (2018)
- Top 10 Anesthesiologists to Follow on Twitter, LifeWIRE Group (2018)
- Keynote Speaker, Penn State Hershey Regional Anesthesia Course (2019)
- Mary Hanna Memorial Journalism Award, 2nd Place in the Clinical Category, The Journal of Perianesthesia Nursing (2020)
- Teacher of the Year, Stanford Regional Anesthesiology and Acute Pain Medicine (2020)
- Top Cited Articles 2018-19, Regional Anesthesia and Pain Medicine (2020)
- Top Downloaded Paper 2018-19, Wiley publisher, Anaesthesia journal (2020)
- 2021 Bruce Scott Lecturer, Regional Anaesthesia United Kingdom (2021)
- 2021 Top 5% Most Published and Top 5% Most Cited Anesthesiologists, Doximity (2021)
- Fellow of the American Society of Anesthesiologists, American Society of Anesthesiologists (2021)
- Fellowship Program Director of the Year, Stanford University School of Medicine (2021)

- Keynote Lecturer, Association of Anaesthetists Winter Scientific Meeting (2021)
- Keynote Speaker, Research Society of Anaesthesiology Clinical Pharmacology (2021)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Editorial Board, Journal of Cardiothoracic and Vascular Anesthesia (2008 - 2014)
- Editorial Board, Regional Anesthesia and Pain Medicine (2009 - present)
- Editorial Board, Seminars in Cardiothoracic and Vascular Anesthesia (2011 - present)
- Editor-in-Chief, American Society of Regional Anesthesia and Pain Medicine News (2012 - 2015)
- Vice-Speaker, California Society of Anesthesiologists (2014 - 2018)
- Delegate (California), American Society of Anesthesiologists (2014 - present)
- Chair, American Society of Regional Anesthesia and Pain Medicine Communications Committees (2015 - 2019)
- Board of Directors, American Society of Regional Anesthesia and Pain Medicine (2015 - 2020)
- Chair, ACGME Milestones for Regional Anesthesiology and Acute Pain Medicine Fellowship (2016 - present)
- Editorial Board, Korean Journal of Anesthesiology (2016 - present)
- Chair, Committee on Regional Anesthesia and Acute Pain Medicine, American Society of Anesthesiologists (2017 - present)
- Council Member, Association of Anesthesiology Subspecialty Program Directors (2017 - present)
- Speaker, California Society of Anesthesiologists (2018 - 2021)
- Editorial Board, Anesthesiology News (2018 - present)
- Member, National Academy of Medicine Action Collaborative on Countering the U.S. Opioid Epidemic (2018 - present)
- Chair, American Society of Regional Anesthesia and Pain Medicine Membership Committee (2019 - 2020)
- International Advisory Panel, Anaesthesia (2019 - 2020)
- Editorial Board, Anaesthesia (2020 - present)
- President-Elect, California Society of Anesthesiologists (2021 - 2022)
- Associate Board Member, Veterans Affairs National Acute Pain Medicine Committee (2021 - present)
- Editorial Board, Canadian Journal of Anesthesia (2021 - present)
- President, California Society of Anesthesiologists (2022 - present)

PROFESSIONAL EDUCATION

- Board Certification: Pediatric Anesthesia, American Board of Anesthesiology (2013)
- Board Certification: Anesthesia, American Board of Anesthesiology (2004)
- Fellowship: Stanford University Pediatric Anesthesia Fellowship (2004) CA
- Internship: Inova Fairfax Hospital GME Office (2000) VA
- Medical Education: Georgetown University School of Medicine (1999) DC
- Residency: Stanford University Anesthesiology Residency (2003) CA
- Green Belt, Veterans Affairs Palo Alto Health Care System , Lean Six Sigma (2020)
- Doctor of Medicine, Georgetown University School of Medicine , Medicine (1999)
- Internship, Georgetown University / INOVA Fairfax Hospital , Transitional (2000)
- Residency, Department of Anesthesia; Stanford University , Anesthesiology (2003)
- Fellowship, Department of Anesthesia; Stanford University / Lucile Packard Children's Hospital , Pediatric Anesthesiology (2004)
- Master of Advanced Studies, University of California, San Diego , Clinical Research (2008)

COMMUNITY AND INTERNATIONAL WORK

- Volunteer Medical-Surgical Mission, Ecuador
- Volunteer Medical-Surgical Mission, Philippines

LINKS

- EdMariano.com: <https://www.edmariano.com/>
- @EMARIANOMD on Twitter: <https://twitter.com/EMARIANOMD>
- Dr. Mariano on LinkedIn: <https://www.linkedin.com/in/edwardmariano/>
- Dr. Mariano on YouTube: <https://www.youtube.com/channel/UCu4FY2L2JCS0YN04Npujyaw>

Research & Scholarship

RESEARCH INTERESTS

- Assessment, Testing and Measurement
- Curriculum and Instruction
- Lifelong Learning
- Professional Development
- Research Methods

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research interests have primarily focused on the development of techniques and patient care pathways to improve postoperative pain control and other surgical outcomes. As a faculty member at UCSD and founder of the RAAPM program there, I established successful research collaborations which led to the publication of multiple randomized clinical trials investigating the use of opioid-sparing continuous peripheral nerve block (CPNB) techniques for same-day surgical patients and establishing the use of ultrasound guidance for advanced nerve block procedures. My studies in regional anesthesia have proven important patient benefits such as decreased opioid use, earlier postoperative mobility, and faster times to achieve discharge eligibility. The use of non-opioid pain management modalities has become a high priority in the setting of the current opioid epidemic. Based on common research interests and facilitated by modern communication methods, I have developed collaborations with physicians and researchers around the world. I have received extramural research funding for my own investigator-initiated and collaborative studies from the Foundation for Anesthesia Education and Research, Department of Defense, and Department of Veterans Affairs (VA).

I am also passionate about knowledge translation and change implementation, and I believe this research area represents an important intersection of my scholarship activities and administrative responsibilities. I have been able to study the influence of specific regional anesthesia practice models on operating room efficiency and hospital costs. I have also led successful implementation projects to establish or update clinical pathways at VA Palo Alto that have improved in-hospital and post-discharge outcomes for our patients. As examples, implementation projects refining our clinical pathways have led to earlier postoperative rehabilitation, decreased opioid use in the hospital and at home, exploration of new models of care, standardization of anesthetic techniques, and methods to maintain adherence to protocols and sustain change long term. The sharing of these projects through publications is helping to shape the clinical practice of perioperative care worldwide.

CLINICAL TRIALS

- Follow-Up Study to Assess Implementation of Ultrasound-Guided Regional Anesthesia Skills, Recruiting
- Optimizing Catheter Insertion Technique for Ultrasound-guided Continuous Peripheral Nerve Blocks, Recruiting

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Anesthesia (Fellowship Program)

Publications

PUBLICATIONS

- **Single-injection regional analgesia techniques for mastectomy surgery: A network meta-analysis.** *European journal of anaesthesiology*
De Cassai, A., Zaranonello, F., Geraldini, F., Boscolo, A., Pasin, L., De Pinto, S., Leardini, G., Basile, F., Disarò, L., Sella, N., Mariano, E. R., Pettenuzzo, T., Navalesi, et al
2022; 39 (7): 591-601
- **A simple checkbox reminder may influence postoperative opioid prescribing behaviour in acute pain service clinicians.** *Anaesthesia*
Hunter, O. O., Kou, A., Leng, J. C., Mariano, E. R.
2022
- **Single-center cross-sectional study of high opioid prescribing among U.S. veterans with peripheral arterial disease.** *Regional anesthesia and pain medicine*
Stern, J. R., Kou, A., Kapoor, A., Regala, S., He, H., Stafford, R. S., Mariano, E. R., Mudumbai, S. C.
2022
- **Role of social networks in regional anesthesia research: a case study of the erector spinae plane block.** *Regional anesthesia and pain medicine*
De Cassai, A., Iuzzolino, M., Geraldini, F., Mariano, E. R.
2022
- **Looking backward to move forward in perioperative pain management?** *Regional anesthesia and pain medicine*
Mariano, E. R., El-Boghdadly, K.
2022
- **Is there a correlation between Altmetric Attention Scores and citation count in Regional Anesthesia and Pain Medicine journal articles?** *Regional anesthesia and pain medicine*
Grosh, T., Kim, J., Graff, V., Mariano, E. R., Elkassabany, N. M.
2022
- **A Comparative Utility Score for Digital Health Tools.** *Journal of medical systems*
Burton, J. C., Regala, S., Williams, D., Desai, A., He, H., Aalami, O., Mariano, E. R., Stafford, R. S., Mudumbai, S. C.
2022; 46 (6): 34
- **PECS2 or PICK2.** *Regional anesthesia and pain medicine*
Elkassabany, N. M., Mariano, E. R., Kopp, S., Albrecht, E., Wolmarans, M., El-Boghdadly, K.
2022
- **Standardizing nomenclature for fascial plane blocks: the destination not the journey.** *Regional anesthesia and pain medicine*
El-Boghdadly, K., Wolmarans, M., Kopp, S., Mariano, E. R., Albrecht, E., Elkassabany, N. M.
1800
- **Regional anesthesia and enhanced recovery after colorectal surgery: are we asking the right questions?** *Regional anesthesia and pain medicine*
Mariano, E. R., McCartney, C. J.
2022; 47 (5): 279-281
- **Regional anesthesia techniques and postoperative delirium: systematic review and meta-analysis.** *Minerva anesthesiologica*
Fanelli, A., Balzani, E., Memtsoudis, S., Abdallah, F. W., Mariano, E. R.
2022
- **Perioperative management of quadriceps tendon rupture in a patient recovering from COVID-19 pneumonia: A case report** *JOURNAL OF CLINICAL ANESTHESIA*
Seol, A., Truntzer, J., Coffman, C., Walters, L., Mariano, R., Leng, C.
2021; 75

- **Perioperative management of quadriceps tendon rupture in a patient recovering from COVID-19 pneumonia: A case report.** *Journal of clinical anesthesia*
Seol, A., Truntzer, J., Coffman, C., Walters, T. L., Mariano, E. R., Leng, J. C.
2021; 75: 110548
- **The external oblique intercostal block: anatomical evaluation and case series.** *Pain medicine (Malden, Mass.)*
Elsharkawy, H., Kolli, S., Soliman, L. M., Seif, J., Drake, R. L., Mariano, E. R., El-Boghdady, K.
2021
- **A multisociety organizational consensus process to define guiding principles for acute perioperative pain management.** *Regional anesthesia and pain medicine*
Mariano, E. R., Dickerson, D. M., Szokol, J. W., Harned, M., Mueller, J. T., Philip, B. K., Baratta, J. L., Guler, P., Robles, J., Schroeder, K. M., Wyatt, K. E., Schwab, J. M., Schwenk, et al
2021
- **Peripheral nerve block anesthesia/analgesia for patients undergoing primary hip and knee arthroplasty: recommendations from the International Consensus on Anesthesia-Related Outcomes after Surgery (ICAROS) group based on a systematic review and meta-analysis of current literature.** *Regional anesthesia and pain medicine*
Memtsoudis, S. G., Cozowicz, C., Bekeris, J., Bekere, D., Liu, J., Soffin, E. M., Mariano, E. R., Johnson, R. L., Go, G., Hargett, M. J., Lee, B. H., Wendel, P., Brouillette, et al
2021
- **Preliminary analysis of factors affecting publication of abstracts presented during the 2017 American Society of Regional Anesthesia and Pain Medicine spring annual meeting.** *Regional anesthesia and pain medicine*
Rasouli, M. R., Maty, S., Mariano, E. R., Jaremko, K., Kou, A., Memtsoudis, S. G., Elkassabany, N. M., Schwenk, E. S.
2021
- **Immediate Effects of a Continuous Peripheral Nerve Block on Postamputation Phantom and Residual Limb Pain: Secondary Outcomes From a Multicenter Randomized Controlled Clinical Trial.** *Anesthesia and analgesia*
Ilfeld, B. M., Khatibi, B., Maheshwari, K., Madison, S. J., Ali Sakr Esa, W., Mariano, E. R., Kent, M. L., Hanling, S., Sessler, D. I., Eisenach, J. C., Cohen, S. P., Mascha, E. J., Yang, et al
2021
- **Standardizing nomenclature in regional anesthesia: an ASRA-ESRA Delphi consensus study of abdominal wall, paraspinal, and chest wall blocks.** *Regional anesthesia and pain medicine*
El-Boghdady, K., Wolmarans, M., Stengel, A. D., Albrecht, E., Chin, K. J., Elsharkawy, H., Kopp, S., Mariano, E. R., Xu, J. L., Adhikary, S., Altiparmak, B., Barrington, M. J., Bloc, et al
2021; 46 (7): 571-580
- **Percutaneous Peripheral Nerve Stimulation (Neuromodulation) for Postoperative Pain: A Randomized, Sham-controlled Pilot Study** *ANESTHESIOLOGY*
Ilfeld, B. M., Plunkett, A., Vijjeswarapu, A. M., Hackworth, R., Dhanjal, S., Turan, A., Cohen, S. P., Eisenach, J. C., Griffith, S., Hanling, S., Sessler, D., Mascha, E. J., Yang, et al
2021; 135 (1): 95-110
- **Evaluation of trends in continuous peripheral nerve block utilization for total knee arthroplasty within and outside the Veterans Affairs Healthcare System.** *Regional anesthesia and pain medicine*
Nagavelli, H., Mariano, E. R., Krishnamoorthy, V., Ray, N. D., Hsia, H., Ellis, A. R., Memtsoudis, S. G., Bryan, W. E., Pepin, M. J., Raghunathan, K.
2021
- **Racism in Pain Medicine: We Can and Should Do More.** *Mayo Clinic proceedings*
Strand, N. H., Mariano, E. R., Goree, J. H., Narouze, S., Doshi, T. L., Freeman, J. A., Pearson, A. C.
2021; 96 (6): 1394-1400
- **The opioid sparing effect of erector spinae plane block for various surgeries: a meta-analysis of randomized-controlled trials.** *Minerva anesthesiologica*
Fanelli, A., Torrano, V., Cozowicz, C., Mariano, E. R., Balzani, E.
2021
- **Pilot study to correlate objective eye-tracking data with timed subjective task completion using five local anesthetic systemic toxicity cognitive aids.** *Regional anesthesia and pain medicine*
Joo, S. S., Mariano, E. R., Neal, J. M., Weinberg, G. L., Kou, A., Hunter, O. O., Harrison, T. K., Udani, A. D., Howard, S. K.
2021

- **Enhanced recovery pathways and patient-reported outcome measures in gynaecological oncology.** *Anaesthesia*
Chen, Q., Mariano, E. R., Lu, A. C.
2021; 76 Suppl 4: 131–38
- **We Asked the Experts: The WHO Surgical Safety Checklist and the COVID-19 Pandemic: Recommendations for Content and Implementation Adaptations.** *World journal of surgery*
Panda, N. n., Etheridge, J. C., Singh, T. n., Sonnay, Y. n., Molina, G. n., Burian, B. K., Capo-Chichi, N. n., Cauley, C. E., de Beer, D. A., Derbew, M. n., Dias, R. D., Fearon, M. C., Feysa, et al
2021
- **Eight years and already a classic: marking the rise of ultrasound-guided fascial plane blocks for chest wall surgery.** *Anaesthesia*
Kumar, A. H., Sultan, E., Mariano, E. R.
2021; 76 (8): 1129-1133
- **In reply: 'automating patient outcomes: next frontier?'** *Regional anesthesia and pain medicine*
Gessner, D., Hunter, O. O., Kou, A., Mariano, E. R.
2021
- **Assessment of Intercostal Nerve Block Analgesia for Thoracic Surgery: A Systematic Review and Meta-analysis.** *JAMA network open*
Guerra-Londono, C. E., Privorotskiy, A., Cozowicz, C., Hicklen, R. S., Memtsoudis, S. G., Mariano, E. R., Cata, J. P.
2021; 4 (11): e2133394
- **A tale of two surges: messaging app and public COVID-19 data summarize one anesthesiology practice's pandemic year in review.** *Canadian journal of anaesthesia = Journal canadien d'anesthesie*
Leng, J. C., Tirumalai, A. A., Kou, A., Brun, C., Coffman, C., Harrison, T. K., Howard, S. K., Shum, C., Hammons, A., Mariano, E. R.
2021
- **The expanding role of chronic pain interventions in multimodal perioperative pain management: a narrative review.** *Postgraduate medicine*
Ye, Y., Gabriel, R. A., Mariano, E. R.
2021
- **In reply: Three (more) tips to reduce socioeconomic bias in virtual anesthesiology interviews.** *Canadian journal of anaesthesia = Journal canadien d'anesthesie*
Leng, J. C., Mariano, E. R., El-Boghdadly, K.
2021
- **Believe the hype? An evaluation of Twitter activity and publication trends related to the erector spinae plane block.** *Journal of clinical anesthesia*
De Cassai, A., Geraldini, F., Mariano, E. R., Kou, A., Matava, C.
2021; 75: 110499
- **A field on fire: Why has there been so much attention focused on burnout among anesthesiologists?** *Journal of clinical anesthesia*
Muir, R., Flores, L. E., Padilla, K. E., Salinas, M., Silver, E. M., Mariano, E. R.
2021; 73: 110356
- **Non-Fellowship regional anesthesia training and assessment: an international Delphi study on a consensus curriculum.** *Regional anesthesia and pain medicine*
Chuan, A., Jeyaratnam, B., Fathil, S., Ferraro, L. H., Kessow, A., Lim, Y. C., O'Rourke, M. J., Ponde, V., Raft, J., Segurado, A., Tangiwat, S., Torborg, A., Turbitt, et al
2021
- **Six tips for successful virtual anesthesiology interviews in the COVID-19 era and beyond.** *Canadian journal of anaesthesia = Journal canadien d'anesthesie*
Leng, J. C., Mariano, E. R., El-Boghdadly, K. n.
2021
- **Fighting burnout in the COVID-19 era is a family matter.** *Journal of clinical anesthesia*
Padilla, K. E., Silver, E. M., Flores, L. E., Muir, R. n., Salinas, M. n., Mariano, E. R.
2021; 72: 110293
- **Making a business plan for starting a transitional pain service within the US healthcare system.** *Regional anesthesia and pain medicine*
Sun, E. C., Mariano, E. R., Narouze, S. n., Gabriel, R. A., Elsharkawy, H. n., Gulur, P. n., Merrick, S. K., Harrison, T. K., Clark, J. D.

2021

- **Regional anesthesia educational material utilization varies by World Bank income category: A mobile health application data study.** *PloS one*
Moll, V. n., Mariano, E. R., Kitzman, J. M., O'Reilly-Shah, V. N., Jabaley, C. S.
2021; 16 (2): e0244860
- **Contemporary training methods in regional anaesthesia: fundamentals and innovations.** *Anaesthesia*
Ramlogan, R. R., Chuan, A. n., Mariano, E. R.
2021; 76 Suppl 1: 53–64
- **Advancing towards the next frontier in regional anaesthesia.** *Anaesthesia*
Chin, K. J., Mariano, E. R., El-Boghdadly, K. n.
2021; 76 Suppl 1: 3–7
- **Automated text messaging follow-up for patients who receive peripheral nerve blocks.** *Regional anesthesia and pain medicine*
Gessner, D. n., Hunter, O. O., Kou, A. n., Mariano, E. R.
2021
- **Analysis of the gender distribution of industry- and society-sponsored webinar faculty during the COVID-19 pandemic.** *Journal of clinical anesthesia*
Strand, N. H., Maloney, J. A., Mariano, E. R., Rosenow, J. M., Moeschler, S. M., Narouze, S., Petersen, E. A.
2020; 67: 110040
- **Are anesthesiology societies at risk of becoming obsolete? Perspectives on challenges and opportunities for moving forward.** *International anesthesiology clinics*
Methangkool, E., Mariano, E. R., Oakes, D.
2020
- **Leveraging video telehealth for the transitional pain service in response to COVID-19.** *Regional anesthesia and pain medicine*
Hunter, O. O., Mariano, E. R., Harrison, T. K.
2020
- **Patient experiences following botulinum toxin A injection for complex abdominal wall hernia repair.** *Journal of clinical anesthesia*
Hunter, O. O., Pratt, J. S., Bandle, J., Leng, J., Mariano, E. R.
2020; 66: 109956
- **Using postoperative pain trajectories to define the role of regional analgesia in personalised pain medicine.** *Anaesthesia*
Mariano, E. R., El-Boghdadly, K., Ilfeld, B. M.
2020
- **Implementation of a patient-specific tapering protocol at discharge decreases total opioid dose prescribed for 6 weeks after elective primary spine surgery.** *Regional anesthesia and pain medicine*
Joo, S. S., Hunter, O. O., Tamboli, M., Leng, J. C., Harrison, T. K., Kassab, K., Keeton, J. D., Skirboll, S., Tharin, S., Saleh, E., Mudumbai, S. C., Wang, R. R., Kou, et al
2020
- **Opioid Stewardship Program and Postoperative Adverse Events: A Difference-in-differences Cohort Study.** *Anesthesiology*
Barrevel, A. M., McCarthy, R. J., Elkassabany, N., Mariano, E. R., Sites, B., Ghosh, R., Buvanendran, A.
2020
- **Replacement of Fascia Iliaca Catheters with Continuous Erector Spinae Plane Blocks Within a Clinical Pathway Facilitates Early Ambulation After Total Hip Arthroplasty.** *Pain medicine (Malden, Mass.)*
Xu, L. n., Leng, J. C., Elsharkawy, H. n., Hunter, O. O., Harrison, T. K., Vokach-Brodsky, L. n., Kumar, G. n., Funck, N. n., Hill, J. N., Giori, N. J., Indelli, P. F., Kou, A. n., Mariano, et al
2020
- **Best Practices, Research Gaps, and Future Priorities to Support Tapering Patients on Long-Term Opioid Therapy for Chronic Non-Cancer Pain in Outpatient Settings.** *NAM perspectives*
Rich, R. C., Chou, R., Mariano, E. R., Dopp, A. L., Sullenger, R., Burstin, H., Pain Management Guidelines and Evidence Standards Working Group
2020; 2020
- **Assessing the current status of continuous peripheral nerve blocks in clinical practice in North America, a survey approach.** *Journal of clinical anesthesia*

- Adhikary, S. n., Sideris, A. n., Hargett, M. n., Elkassabany, N. M., Mariano, E. R., Liu, J. n.
2020; 65: 109870
- **The future of education in anesthesiology is social.** *International anesthesiology clinics*
Kumar, A. H., Udani, A. D., Mariano, E. R.
2020
 - **The effect of intraoperative intravenous acetaminophen on intraoperative and postoperative opioid use and pain scores in minimally invasive spine surgery.** *Journal of clinical anesthesia*
Le Clair, M. Z., Ayrian, E. n., Mariano, E. R., Jha, S. n.
2020; 65: 109748
 - **Pain Management in Breast Surgery: Recommendations of a Multidisciplinary Expert Panel-The American Society of Breast Surgeons.** *Annals of surgical oncology*
Brenin, D. R., Dietz, J. R., Baima, J. n., Cheng, G. n., Froman, J. n., Laronga, C. n., Ma, A. n., Manahan, M. A., Mariano, E. R., Rojas, K. n., Schroen, A. T., Tiouririne, N. A., Wiechmann, et al
2020
 - **The #ASRASpring20 conference was canceled due to COVID-19 but the science survives and thrives.** *Regional anesthesia and pain medicine*
Gupta, R. K., Mariano, E. R., Narouze, S. n., Elkassabany, N. M.
2020
 - **Collateral Damage as Crises Collide: Perioperative Opioids in the COVID-19 Era.** *Pain medicine (Malden, Mass.)*
Mudumbai, S. C., Mariano, E. R., Clark, J. D., Stafford, R. S.
2020
 - **An ultrasound-guided fascia iliaca catheter technique does not impair ambulatory ability within a clinical pathway for total hip arthroplasty.** *Korean journal of anesthesiology*
Mudumbai, S. C., Kim, T. E., Howard, S. K., Giori, N. J., Woolson, S. n., Ganaway, T. n., Kou, A. n., King, R. n., Mariano, E. R.
2020; 73 (3): 267
 - **Quality of Patient Education Materials on Safe Opioid Management in the Acute Perioperative Period: What Do Patients Find Online?** *PAIN MEDICINE*
Kumar, G., Jaremko, K. M., Kou, A., Howard, S. K., Harrison, T., Mariano, E. R.
2020; 21 (1): 171–75
 - **A little better is still better: using marginal gains to enhance 'enhanced recovery' after surgery.** *Regional anesthesia and pain medicine*
Leng, J. C., Mariano, E. R.
2020
 - **The rise and fall of the COVID-19 aerosol box through the lens of Twitter.** *Journal of clinical anesthesia*
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