

2020:

Original Research, Review Articles, Book Chapters, Etc.

Abir G, Austin N, Seligman KM, Burian BK, Goldhaber-Fiebert SN. Cognitive aids in obstetric units: Design, implementation, and use. *Anesthesia & Analgesia* 2020; 130(5):1341-1350. DOI: 10.1213/ANE.0000000000004354. PMID: 31425259.

Alles SRA, Cain SM, Snutch TP. Pregabalin as a pain therapeutic: Beyond calcium channels. *Frontiers in Cellular Neuroscience* 2020; 14:83. DOI: doi.org/10.3389/fncel.2020.00083. PMID: 32351366.

Alles SRA, Gomez K, Moutal A, Khanna R. Putative roles of SLC7A5 (LAT1) transporter in pain. *Neurobiology of Pain* 8: 100050. DOI: 10.1016/j.ynpai.2020.100050.

Alles SRA, Nascimento F, Luján R, Luiz A, Millet Q, Bangash MA, Santana-Varela S, Zhou X, Cox JJ, Okorokov AL, Beato M, Zhao J, Wood JN. Sensory neuron-derived Nav1.7 contributes to dorsal horn neuron excitability. *Science Advances* 2020; 6(8):eaax4568 (7 pages). DOI: 10.1126/sciadv.aax4568. PMID: 32128393.

Banerjee A, Burden A, Slagle JM, Gaba DM, Boulet JR, Torsher L, DeMaria S, Levine AI, Steadman RH, Sinz EH, Park C, Mclvor WR, Shotwell MS, Cooper J, Weinger MB, Rask JP. (2020) Key performance gaps of practicing anesthesiologists: how they contribute to hazards in anesthesiology and proposals for addressing them. *International Anesthesiology Clinics* 58(1): 13-20. DOI: 10.1097/AIA.0000000000000262. PMID: 31800410.

Deriy L, et al. Didactic materials and exam questions for ASA POCUS certification.

Deriy L, Starr B, Gerstein N, Torgeson E. Dissection. Chapter 72 in: *Critical Care Echocardiography Review*, Berg S and Chang M, eds. Wolters Kluwer, 2020.

Deriy L, Starr B, Gerstein N, Torgeson E. Endocarditis and other pathological and normal anatomic variants. Chapter 29 in: *Critical Care Echocardiography Review*, Berg S and Chang M, eds. Wolters Kluwer, 2020.

Deriy L, Starr B, Gerstein N, Torgeson E. Myocardial ischemia, infarction, and wall motion abnormalities. Chapter 34 in: *Critical Care Echocardiography Review*, Berg S and Chang M, eds. Wolters Kluwer, 2020.

Elks W, Jaramillo-Juff A, Barnes KL, Petersen TR, Komesu YM. The SUCCeSS study: Stress urinary incontinence in Crossfit®. *Female Pelvic Medicine & Reconstructive Surgery* 2020; 26(2):101-6. DOI: 10.1097/SPV.0000000000000815. PMID: 31990796.

Gerstein NS, Albrechtsen CL, Mercado N, Cigarroa JE, Schulman PM. A comprehensive update on aspirin management during non-cardiac surgery. *Anesthesia & Analgesia* 2020; 131(4):1111-23. DOI: 10.1213/ANE.0000000000005064. PMID: 32925332.

Gerstein NS, Venkataramani R, Goumas AM, Chapman NN, Deriy L. COVID-19-related cardiovascular disease and practical considerations for perioperative clinicians. Epub ahead of print, *Seminars in Cardiothoracic and Vascular Anesthesia*. DOI: 10.1177/1089253220943019.

Krantz TE, Rogers RG, Petersen TR, Madsen AM, Dunivan GC, Jeppson PC, Ninivaggio CS, Cichowski SB, White AB, Komesu YM. Peer-centered versus physician-centered video counseling for midurethral sling surgery: a randomized controlled trial. *Female Pelvic Medicine & Reconstructive Surgery* 2020; 26(8):470-6. DOI: 10.1097/SPV.0000000000000784. PMID: 31596774.

McIlwrath SL, Montera MA, Gott KM, Yang Y, Wilson CM, Selwyn R, Westlund KN. Manganese-enhanced MRI reveals changes within brain anxiety and aversion circuitry in rats with chronic neuropathic pain- and anxiety-like behaviors. *NeuroImage* 2020; 223:117343. DOI: 10.1016/j.neuroimage.2020.117343. PMID: 32898676.

McMullan JT, Braude DA. Poison, Pixie Dust, and Prehospital Airway Management. *Academic Emergency Medicine* 2020; 27(5):431-3. DOI: 10.1111/acem.13926. PMID: 32220122.

Montera M, Westlund KN. Minimally Invasive Oral Surgery Induction of the FRICT-ION Chronic Neuropathic Pain Model. *Bio-protocol* 10(08):e3591. DOI: 10.21769/BioProtoc.3591.

Soneru CN, Nunez K, Petersen TR, Lock R. Anesthetic concerns for pediatric patients in the era of COVID-19. *Pediatric Anesthesia* 2020; 30(7):737-42. DOI: 10.1111/pan.13924. PMID: 32438527.

Vigil JM, Montera MA, Pentkowski NS, Diviant JP, Orozco J, Ortiz AL, Rael LJ, and Westlund KN. The Therapeutic Effectiveness of Full Spectrum Hemp Oil Using a Chronic Neuropathic Pain Model, *Life* 2020; 10: 69. DOI:10.3390/life10050069. Featured in a UNM press release: <http://news.unm.edu/news/legal-cannabis-hemp-oil-effectively-treats-chronic-neuropathic-pain> , and an online news outlet: <https://painrelief.com/pain-relief/hemp-oil-studies-for-pain-relief-of-neuropathic-pain/547>

Westlund KN, Lu Y, Zhang L, Pappas TC, Zhang W-R, Tagliabue G, McIlwrath SL, McNearney TA. Tyrosine kinase inhibitors reduce NMDA NR1 subunit expression, nuclear translocation, and behavioral pain measures in experimental arthritis. *Frontiers in Physiology* 2020; 11:440. DOI: 10.3389/fphys.2020.00440. PMID: 32536874.

Case Reports

Gerstein N, Freeman JJ, Mitchell JA, Cronin BH. Fatal pulmonary haemorrhage due to severe mitral regurgitation during veno-arterial extracorporeal membrane oxygenation. *Saudi Journal of Anesthesiology* 2020; 14:253-6. DOI: 10.4103/sja.SJA_773_19. PMID: 32317888.

Tully B, Gerstein N, Schulman P. Case report: Electromagnetic interference with an underbody dispersive electrode in a patient with an implantable cardioverter-defibrillator undergoing non-cardiac surgery. *A&A Practice* 2020; 14(11):e01285. DOI: 10.1213/XAA.0000000000001285. PMID: 32985854.

Letters/Correspondence

Evans K, Breidenstein M, Vaquerano C, Nunez K, Marroquin B, Grondin L. The effect of clonidine added to ropivacaine on opioid consumption in transverse abdominis plane blocks for cesarean section: A randomized, double-blind, placebo-controlled, pilot trial. *Journal of Clinical Anesthesia* 2020; 62:109723. DOI: 10.1016/j.jclinane.2020.109723. PMID: 32058260.

Gerstein NS, Cushnyr BW, Petersen TR, Siegel D. Postoperative ultrasound evaluation for deep vein thrombosis after knee replacement surgery performed with tranexamic acid. *Minerva Anestesiologica* 2020; 86(2):217-8. DOI: 10.23736/S0375-9393.19.13916-8. PMID: 31527575.

Nunez K, Soneru C, Demeter A, Petersen T, Yen T, Luke M, Zolyomi A. So many tests, so little time: Common SARS-CoV-2 tests and their Achilles heel. *ASA Monitor* October 2020; 84:e1. DOI: 10.1097/01.ASM.0000718888.31175.fb.

Soneru CN, Petersen TR, Bajracharya M Hadid S, Demeter A. Can pediatric COVID-19 testing sensitivity be improved with sequential tests? *Anesthesia & Analgesia* 2020; 131(2):e135. DOI: 10.1213/ANE.0000000000004982. PMID: 32427657.

2019:

Original Research, Review Articles, Book Chapters, Etc.

Alles, S.R.A, Malfait, A.M. and Miller, R.J.M. (2019) Chemo- and optogenetic studies in the elucidation of pain pathways. In: *The Oxford Handbook of the Neurobiology of Pain*. Editor: John N. Wood. ISBN: 9780190860509. DOI: 10.1093/oxfordhb/9780190860509.013.33

Baker EB, Gerstein N. More salutary effects of intraoperative dexmedetomidine. *Minerva Anestesiologica* 2019; 85(5):451-3. DOI: 10.23736/S0375-9393.18.13237-8. PMID: 30484299.

Braude D, Steuerwald M, Wray T, Galgon R. Managing the out-of-hospital extraglottic airway device. *Annals of Emergency Medicine* 2019; 74(3):416-22. DOI: 10.1016/j.annemergmed.2019.03.002. PMID: 31060744.

Carvalho B, Seligman K, Weiniger CF. The comparative accuracy of a handheld and console ultrasound device for neuraxial depth and landmark assessment. *International Journal of Obstetric Anesthesia* 2019; 39:68-73. DOI: 10.1016/j.ijoa.2019.01.004. PMID: 30770208.

Dalia AA, Essandoh M, Cronin B, Hussain N, Gerstein NS, Schulman P. A narrative review for anesthesiologists of the 2017 AHA/ACC/HRS guideline for management of patients with ventricular arrhythmias and the prevention of sudden cardiac death. *J Cardiothorac Vasc Anesth* 2019; 33(6):1722-30. DOI: 10.1053/j.jyca.2019.01.004. PMID: 30685157.

Deriy L [as part of ASA Editorial Board for Point-of-Care Ultrasound]. Diagnostic Point-of-Care Ultrasound. American Society of Anesthesiologists; Resources from ASA Committees. Available from: <https://www.asahq.org/standards-and-guidelines/resources-from-asa-committees#POM> .

Driver BE, Scharber SK, Horton GB, Braude DA, Simpson NS, Reardon RF. Emergency department management of out-of-hospital laryngeal tubes. *Annals of Emergency Medicine* 2019; 74(3):403-9.

Fedoruk K, Seligman KM, Carvalho B, Butwick AJ. Assessing the association between blood loss and postoperative hemoglobin after cesarean delivery: A prospective study of 4 blood loss measurement modalities. *Anesthesia & Analgesia* 2019; 128:926-32. DOI: 10.1213/ANE.0000000000003449. PMID: 29847380.

Fortner S. Conflict Engagement: Everyday Skills for Better Outcomes. Webinar presentation hosted by Academy of Communication in Healthcare, achonline.org, presented March 2019.

Gerstein N, Clegg SD, Levin DB, Fish AC, Tolstrup K, Nakanishi K, Yoshida Y, Homa S. A case-based discussion on the management of cryptogenic stroke and patent foramen ovale in the patient with a hypercoagulable disorder. *Journal of Cardiothoracic and Vascular Anesthesia* 2019; 33(12):3476-3485. doi: 10.1053/j.jvca.2019.07.136. PMID: 31473116.

Gerstein NS, Choi C, Henry A, Hsu PYF, Khoche S, Cronin B, Maus TM. The year in perioperative echocardiography: Selected highlights from 2018. Epub ahead of print, *Journal of Cardiothoracic and Vascular Anesthesiology*. DOI: 10.1053/j.jvca.2019.03.034. PMID: 31076310.

Grandhe RP, Harris EJ, Koshkin E. Trigeminal neuralgia. In: Cheng J, ed. *Neuropathic Pain: A Case-based approach to practical management*. New York: Oxford University Press; 2019: 257-66.

Kelly SP, Grandhe RP. Gastric ulcer bleed – H/o coronary artery disease, hypertension, hyperlipidemia. In: Straker T, Rajan S, eds. *Anesthesiology: A problem-based learning approach*. New York: Oxford University Press; 2019; 59-65.

Krantz TE, Andrews N, Petersen TR, Dunivan GC, Montoya M, Swanson N, Wenzl CK, Zambrano JR, Komesu YM. Adverse childhood experiences in gynecology patients with chronic pelvic pain. *Obstetrics & Gynecology* 2019; 134(5):1087-95. DOI: 10.1097/AOG.0000000000003533. PMID: 31599850.

Lee NM, Deriy L, Petersen TR, Shah VO, Hutchens MP, Gerstein NS. Impact of Isolyte versus 0.9% saline on postoperative event of acute kidney injury assayed by urinary [TIMP2]x[IGFBP7] in patients undergoing cardiac surgery. *Journal of Cardiothoracic and Vascular Anesthesia* 2019; 33(2): 348-56. DOI: 10.1053/j.jvca.2018.07.042. PMID: 30181085.

Rimmalapudi V, Grandhe RP. Lumbar radicular pain. In: Cheng J, ed. *Neuropathic Pain: A Case-based approach to practical management*. New York: Oxford University Press; 2019: 243.

Seligman KM, Baird E. The pressure is on: Managing the preeclamptic patient. In: *Avoiding Common Anesthesia Errors*, 2nd ed. Marcucci et al., eds. Philadelphia, Wolters Kluwer, 2019.

Soneru CN, Hurt HF, Petersen TR, Davis DD, Braude DA, Falcon RJ. 2019. Apneic nasal oxygenation prolongs safe apnea time during pediatric intubations by learners. *Pediatric Anesthesia* 2019; 29(6): 628-34. DOI: 10.1111/pan.13645. PMID: 30943324.

Togioka BM, Seligman KM, Werntz MK, Yanez D, Noles LM. Education program regarding labor epidurals increases utilization by Hispanic Medicaid beneficiaries: a randomized controlled trial. *Anesthesiology* 2019; 131:840-9. DOI: 10.1097/ALN.0000000000002868. PMID: 31299658.

Zhang M, Hu M, Montera MA, Westlund KN. Sustained relief of trigeminal neuropathic pain by a blood-brain barrier penetrable PPAR gamma agonist. *Molecular Pain* 15:1-15. DOI: 10.1177/1744806919884498. PMID: 31588847.

Case Reports

Hopkins JB, Roginski MA, Braude DA, Cathers AD, Johnson T, Steuerwald MT. Troubleshooting hypoxemia after placement of an extraglottic airway. *Air Medical Journal* 2019; 38:228-30. DOI: 10.1016/j.amj.2019.02.006. PMID: 31122593.

Lauria M, Norii T, Soneru C. Learning to improvise with airway problems: Fixing a cuff leak. *EM Resident*, <https://www.emra.org/emresident/article/cuff-leak/>

Stalls C, Falcon RJ, Southwell B, Zatochill M, Petersen TR, Al Haddadin C, Soneru CN. Transnasal sphenopalatine ganglion block for post-dural puncture headache in an adolescent. *A&A Practice* 13(5):185-7. DOI: 10.1213/XAA.0000000000001029. PMID: 31162223.

Weinstein AL, Gerstein NS, Santos JI, Schulman PM. Epinephrine-induced electrical storm after aortic surgery. *Saudi Journal of Anesthesia* 2019; 13(4): 359-61. DOI: 10.4103/sja.SJA_745_18. PMID: 31572083.

Letters/Correspondence

Zolyomi A, Gerstein N, Petersen T. Electroencephalography-guided anesthetic administration and postoperative delirium. *JAMA* 321(24):2470. DOI: 10.1001/jama.2019.5157. PMID: 31237634.

2018:

Original Research, Review Articles, Book Chapters, Etc.

Chou C, Fortner S, Gordon GH. "Welcome to DocCom." Module #1 in *DocCom* online healthcare communication learning resource. URL: <https://webcampus.drexelmed.edu/doccom/user/>

Danaher RJ, Zhang L, Donley CJ, Laungani NA, Hui SE, Miller CS, Westlund KN. Histone deacetylase inhibitors prevent development of persistent hypersensitivity in an orofacial neuropathic pain model. *Mol Pain* 2018; 14:1-20. DOI: 10.1177/1744806918796763. PMID: 30178698.

Deriy L, Gerstein NS, Hassan MF, Schevchuk A. Unexpected intraoperative transesophageal echocardiographic finding before aortic valve replacement surgery. *Journal of Cardiothoracic and Vascular Anesthesia* 2018; 32(1):603-5. DOI: 10.1053/j.jvca.2017.04.001. PMID: 28778771.

Gerstein N, Deriy L, Patel PA. Tranexamic acid use in cardiac surgery: homeostasis, seizures, or a little of both. *Journal of Cardiothoracic and Vascular Anesthesia* 2018; 32(4):1635-7. DOI: 10.1053/j.jvca.2017.12.001. PMID: 29287733.

Gerstein N, Panikkath P. Arterial pressure monitoring and site-specific gradient issues during cardiac surgery. *Journal of Cardiothoracic and Vascular Anesthesia* 2018; 32(2):699-701. DOI: 10.1053/j.jvca.2017.10.043. PMID: 29199048.

Grandhe RP, Valeriano M, Souza D. Mechanical chronic jaw pain. In: *Pain Management: A Problem-Based Learning Approach*, Anitescu M, ed. Pp. 14-20. New York: Oxford University Press, 2018; 14-20.

Lyons DN, Zhang L, Pandya JD, Danaher RJ, Ma F, Miller CS, Sullivan PG, Sirbu C, Westlund KN. Combination drug therapy of pioglitazone and D-cycloserine attenuates chronic orofacial neuropathic pain and anxiety by improving mitochondrial function following trigeminal nerve injury. *Clin J Pain* 2018; 34(2):168-77. DOI: 10.1097/AJP.0000000000000515. PMID: 28542026.

McNearney TA, Goel N, Lisse JR, Westlund KN. Neurotransmitter excitatory amino acids in synovial fluids demonstrate distinct temporal fluctuations in active arthritis. *Rheumatology and Orthopedic Medicine* 2018; 3(4):1-5. DOI: 10.15761/ROM.1000161.

Nauta HJ, McIlwrath SL, Westlund KN. Punctate midline myelotomy reduces pain responses in a rat model of lumbar spine pain: Evidence that the postsynaptic dorsal column pathway conveys pain from the axial spine. *Cureus* 2018; 10:e2371. PMID: 29805940.

Schulman PM, Gerstein NS, Merkel MJ, Braner DA, Tegtmeyer K. Ultrasound-guided cannulation of the subclavian vein. Videos in Clinical Medicine, *New England Journal of Medicine* 2018; 379:e1. DOI: 10.1056/NEJMvcm1406114. PMID: 29972747.

Steuerwald M, Braude D, Petersen T, Peterson K, Torres M. Comparing aspiration between prehospital patients managed with EGDs and ETI. *Air Medical Journal* 2018; 37(4):240-3. DOI: 10.1016/j.amj.2018.04.004. PMID: 29935702.

Szabo EE. A 32-year-old woman with severe postpartum headache. In: *Obstetrics & Gynecology Morning Report: Beyond the Pearls*. Meriwether KV, England J, eds. Ch. 19, pp. 131-137. Elsevier, 2018.

Vanderwall AG, Noor S, Sun MS, Sanchez JE, Yang XO, Jantzie LL, Mellios N, Milligan ED. Effects of spinal non-viral interleukin-10 gene therapy formulated with D-mannose in neuropathic interleukin-10 deficient mice: Behavioral characterization, mRNA and protein analysis in pain relevant tissues. *Brain, Behavior, and Immunity* 2018; 69:91-112. DOI: 10.1016/j.bbi.2017.11.004. PMID: 29113923.

Yen T, Fortner S. Informed consent for an emergent procedure. In: *Anesthesia OSCE Review*. Mohamed S, ed. Nova Science Publishers, 2018.

Case Reports

Bradford VA, Falcon RJ, Petersen TR, Soneru CN. Delayed post caudal catheter placement pseudomeningocele: A case report. *A&A Practice* 2018; 10(10):258-60. DOI: 10.1213/XAA.0000000000000679. PMID: 29757794.

Fernando RJ, Johnson SD, Augoustides JG, Patel PA, Gutsche JT, Dashiell JM, Feinman JW, Zhou E, Weiss SJ, Goldhammer JE, Panikkath PV, Gerstein NS. Simultaneous right-sided and left-sided infective endocarditis- management challenges in a multidisciplinary setting. *Journal of Cardiothoracic and Vascular Anesthesia* 2018; 32(2):1041-9. DOI: 10.1053/j.jvca.2017.07.031. PMID: 29249580.

Gerstein N, Bhamidipati CM, Schulman PM. Near-complete mechanical valve dehiscence due to endocarditis re-infection. *Echocardiography* 2018; 35:872-5. DOI: 10.1111/echo.14008. PMID: 29726029.

Gerstein N, Rumbaugh C, Riley J. Severe autosomal dominant polycystic kidney disease. *BMJ Case Reports* Published Online First: 2018 Mar 21. DOI: 10.1136/bcr-2018-224189. PMID: 29563131.

Gerstein NS, McLean AR, Stecker EC, Schulman PM. External defibrillator damage associated with attempted synchronized dual-dose cardioversion. *Ann Emerg Med.* 2018; 71(1):109-12. DOI: 10.1016/j.annemergmed.2017.04.005. PMID: 28559035.

Gerstein NS, Nguyen LC, Akbik OS, Yonas H, Carlson AP. A finger-like projection in the carotid artery: a rare source of embolic stroke requiring carotid endarterectomy. *Southwest Journal of Pulmonary and Critical Care* 2018; 16(3):150-5. DOI: 10.13175/swjpc022-18.

Gerstein NS, Spafford MF. Obstructing respiratory papillomatosis. *Anesthesiology* 2018; 128:1239. DOI: 10.1097/ALN.0000000000002106. PMID: 29394164.

Letters/Correspondence

Faber L, Greider K, Nesiba N, Seligman K. Developing an online and print patient education tool for pain relief options in labor. *ASRA News*, February 2018, pp. 45-46.

Gerstein NS, Sanders JC, McCunn M, Brierley JK, Gerstein WH, West SD, Tawil I, Kraai EP, Boyd NH, Bronshteyn YS, Torgeson EL, Schulman PM. The gun violence epidemic: Time for perioperative physicians to act. *Journal of Cardiothoracic and Vascular Anesthesia* 2018; 32(3):1097-1100. DOI: 10.1053/j.jvca.2018.03.002. PMID: 29602543.

Hruschka J, Arndt C. Transverse approach to the erector spinae plane block. *Regional Anesthesia & Pain Medicine* 2018; 43(7):805. DOI: 10.1097/AAP.0000000000000836. PMID: 30234841.

Schulman PM, Gerstein NS, Tegtmeyer K. Ultrasound-guided cannulation of the subclavian vein- an update. *New England Journal of Medicine* 2018; 379(16):e27. DOI: 10.1056/NEJMc1810174. PMID: 30332567.

Seligman K. Comment on: Arzola C, et al. Gastric ultrasound in the third trimester of pregnancy: A randomized controlled trial to develop a predictive model of volume assessment. *Obstetric Anesthesia Digest* 2018; 38:209-10. DOI: 10.1097/01.aoa.0000547307.48799.09

Seligman KM, Katz D, Farber MK. Preventing surgical site infection after cesarean delivery- The anesthesia professional's role. *APSF Newsletter* June 2018; 33(1):25-7.