

**Department of Anesthesiology and Perioperative Medicine
FY21 Publications (7-1-2021 to 6-30-2022)**

******* 70 Unique papers**

Bernstein, Wendy

Bernstein WK, Wyrobek J, Vidovich C, Tang J, Lindenmuth D, Gosev I. Anesthetic Considerations for Minimally Invasive, Off-Pump, HeartMate III Implantation. *J Cardiothorac Vasc Anesth*. Jun 2022;36(6):1625-1631.

Bjelic M, Ayers B, Paic F, **Bernstein, WK**, et al. Study results suggest less invasive HeartMate 3 implantation is a safe and effective approach for obese patients. *J Heart Lung Transplant*. Sep 2021;40(9):990-997

Gu Y, Panda K, Bensimhon A, **Bernstein W**. Hybrid Approach to Post-Myocardial Infarction Ventricular Septal Rupture Repair and Its Early Complications. *J Cardiothorac Vasc Anesth*. Jan 2021;35(1):274-280.

Borovcanin Zana

Laserna A, Nishtar M, Vidovich C, **Borovcanin Z**. Perioperative Management of Ehlers-Danlos Type III Syndrome Associated With Postural Orthostatic Tachycardia in Patients Undergoing General Anesthesia. *Cureus*. Nov 2021;13(11):e19311.

Brookes, Paul

Brookes PS, Jimenez AG. Metabolomics of aging in primary fibroblasts from small and large breed dogs. *Geroscience*. Aug 2021;43(4):1683-1696.

Huwaimel BI, Bhakta M, Kulkarni CA, **Brookes, P.**, et al. Discovery of Halogenated Benzothiadiazine Derivatives with Anticancer Activity*. *ChemMedChem*. Apr 8 2021;16(7):1143-1162.

Lim Y, Berry B, Viteri S, **Brookes, P.**, et al. FNDC-1-mediated mitophagy and ATFS-1 coordinate to protect against hypoxia-reoxygenation. *Autophagy*. Nov 2021;17(11):3389-3401.

Milliken AS, **Brookes PS**. Amber alert: getting to the heart of succinate efflux in reperfusion injury. *Cardiovasc Res*. Mar 21 2021;117(4):997-998.

Milliken AS, Nadtochiy SM, **Brookes PS**. Inhibiting Succinate Release Worsens Cardiac Reperfusion Injury by Enhancing Mitochondrial Reactive Oxygen Species Generation. *J Am Heart Assoc*. Jul 5 2022;11(13):e026135.

Nadtochiy SM, Ngai M, **Brookes PS**. Modified Blue Native Gel Approach for Analysis of Respiratory Supercomplexes. *Methods Mol Biol*. 2021;2276:227-234.

Paine A, **Brookes PS**, Bhattacharya S, et al. Dysregulation of bile acids, lipids, and nucleotides in psoriatic arthritis revealed by unbiased profiling of serum metabolites. *Arthritis Rheumatol*. Jul 11 2022.

Carinci, Adam

Uribe-Rivera A, Rasubala L, Machado-Perez AC, Ren YF, Malmström H, **Carinci A**. Preliminary study of the impact of elevated circulating plasma levels of catecholamines on opioid requirements for acute surgical pain. *J Clin Transl Sci.* Jan 5 2021;5(1):e1114.

Correll, Lynn

Gloff MS, Robinson R, **Correll LR**, Lander H, Pyne S, Webber A. Preoperative optimization in the pediatric patient. *Int Anesthesiol Clin.* Jan 1 2022;60(1):56-63.

Dworkin, Robert

Gewandter JS, Smith SM, **Dworkin RH**, et al. Research approaches for evaluating opioid sparing in clinical trials of acute and chronic pain treatments: Initiative on Methods, Measurement, and Pain Assessment in Clinical Trials recommendations. *Pain.* Nov 1 2021;162(11):2669-2681.

Kleykamp BA, **Dworkin RH**, Turk DC, et al. Benefit-risk assessment and reporting in clinical trials of chronic pain treatments: IMMPACT recommendations. *Pain.* Jun 1 2022;163(6):1006-1018.

Kleykamp BA, Ferguson MC, McNicol E, **Dworkin, RH.**, et al. A comparison of registered and published primary outcomes in clinical trials of opioid use disorder: ACTION review and recommendations. *Drug Alcohol Depend.* Jul 1 2022;236:109447.

Lee JJ, Price JC, Gewandter J, **Dworkin, RH.**, et al. Design and reporting characteristics of clinical trials investigating sedation practices in the paediatric intensive care unit: a scoping review by SCEPTER (Sedation Consortium on Endpoints and Procedures for Treatment, Education and Research). *BMJ Open.* Oct 14 2021;11(10):e053519. doi:10.1136/bmjopen-2021-053519

Li R, **Dworkin RH**, Chapman BP, et al. Moderate to Severe Chronic Pain in Later Life: Risk and Resilience Factors for Recovery. *J Pain.* Dec 2021;22(12):1657-1671.

Rice ASC, **Dworkin RH**, Finnerup NB, et al. Efficacy and safety of EMA401 in peripheral neuropathic pain: results of 2 randomised, double-blind, phase 2 studies in patients with postherpetic neuralgia and painful diabetic neuropathy. *Pain.* Oct 1 2021;162(10):2578-2589.

Eaton, Michael

Eaton MP, Nadtochiy SM, Stefanos T, LeMoine D, Anderson BJ. Delayed concentration effect models for dabigatran anticoagulation. *Paediatr Anaesth.* Jun 23 2022;doi:10.1111/pan.14511

Lustik SJ, Stern DH, **Eaton MP**. Optimum Call Distribution: Market-Based Approach. *Anesth Analg.* Sep 1 2022;135(3):663-666.

Nadtochiy SM, Baldizhar A, Stefanos T, **Eaton, MP.**, et al. High-Dose Dabigatran Is an Effective Anticoagulant for Simulated Cardiopulmonary Bypass Using Human Blood. *Anesth Analg.* Feb 1 2021;132(2):566-574.

Nadtochiy SM, Stefanos T, Angona RE, **Eaton, MP.**, et al. *Rivaroxaban Reduces the Dabigatran Dose Required for Anticoagulation During Simulated Cardiopulmonary Bypass.* *Anesth Analg.* Jul 1 2022;135(1):52-59.

Wanat-Hawthorne A, Tanaka K, Angona R, Feng C, **Eaton M.** *Survey of Practice Pattern in Patients With Heparin-Induced Thrombocytopenia Requiring Cardiopulmonary Bypass.* *Anesth Analg.* Nov 1 2021;133(5):1180-1186.

Zaleski KL, DiNardo JA, **Eaton MP.** *Bivalirudin: Are kids just adults to the ¾ power?* *Paediatr Anaesth.* Jun 2021;31(6):628-630.

Galton, Christopher

Dorsett M, Panchal AR, Stephens C, **Galton, C.**, et al. *Prehospital Airway Management Training and Education: An NAEMSP Position Statement and Resource Document.* *Prehosp Emerg Care.* 2022;26(sup1):3-13.

Gewandter, Jennifer

Bérubé-Mercier P, Tapp D, Cimon M, **Gewandter, J.**, et al. *Evaluation of the psychometric properties of patient-reported and clinician-reported outcome measures of chemotherapy-induced peripheral neuropathy: a COSMIN systematic review protocol.* *BMJ Open.* Apr 6 2022;12(4)

Gewandter JS, Smith SM, Dworkin RH, et al. *Research approaches for evaluating opioid sparing in clinical trials of acute and chronic pain treatments: Initiative on Methods, Measurement, and Pain Assessment in Clinical Trials recommendations.* *Pain.* Nov 1 2021;162(11):2669-2681.

Kleykamp BA, Dworkin RH, Turk DC, **Gewandter, J.**, et al. *Benefit-risk assessment and reporting in clinical trials of chronic pain treatments: IMMPACT recommendations.* *Pain.* Jun 1 2022;163(6):1006-1018.

Knoerl R, Berry DL, Meyerhardt J, Reyes K, Salehi E, **Gewandter JS.** *Exploring Patients' Understanding of Chemotherapy-Induced Peripheral Neuropathy.* *J Cancer Educ.* Aug 5 2022.

Lee JJ, Price JC, **Gewandter J,** Dworkin, RH., et al. *Design and reporting characteristics of clinical trials investigating sedation practices in the paediatric intensive care unit: a scoping review by SCEPTER (Sedation Consortium on Endpoints and Procedures for Treatment, Education and Research).* *BMJ Open.* Oct 14 2021;11(10):e053519. doi:10.1136/bmjopen-2021-053519

Glance, Laurent

Del Rio JM, Jake Abernathy J, 3rd, Taylor MA, **Glance, LG.**, et al. *The Adult Cardiac Anesthesiology Section of STS Adult Cardiac Surgery Database: 2020 Update on Quality and Outcomes.* *J Cardiothorac Vasc Anesth.* Jan 2021;35(1):22-34.

Glance LG, Benesch CG, Holloway RG, et al. Association of Time Elapsed Since Ischemic Stroke With Risk of Recurrent Stroke in Older Patients Undergoing Elective Nonneurologic, Noncardiac Surgery. *JAMA Surg*. Aug 1 2022;157(8):e222236.

Glance LG, Chandrasekar EK, Shippey E, et al. Association Between the COVID-19 Pandemic and Disparities in Access to Major Surgery in the US. *JAMA Netw Open*. May 2 2022;5(5):e2213527.

Glance LG, Dick AW, Shippey E, et al. Association Between the COVID-19 Pandemic and Insurance-Based Disparities in Mortality After Major Surgery Among US Adults. *JAMA Netw Open*. Jul 1 2022;5(7):e2222360.

Glance LG, Dick AW, Wu I. Safety of Complete Anesthesia Handovers in the Cardiac Surgical Patient. *JAMA Netw Open*. Feb 1 2022;5(2):e2148169.

Glance LG, Nerenz DR, Joynt Maddox KE, Hall BL, Dick AW. Reproducibility of Hospital Rankings Based on Centers for Medicare & Medicaid Services Hospital Compare Measures as a Function of Measure Reliability. *JAMA Netw Open*. Dec 1 2021;4(12):e2137647.

Glance LG, Thirukumaran CP, Dick AW. The Unequal Burden of COVID-19 Deaths in Counties With High Proportions of Black and Hispanic Residents. *Med Care*. Jun 1 2021;59(6):470-476.

Glance LG, Thirukumaran CP, Feng C, Lustik SJ, Dick AW. Association Between the Physician Quality Score in the Merit-Based Incentive Payment System and Hospital Performance in Hospital Compare in the First Year of the Program. *JAMA Netw Open*. Aug 2 2021;4(8):e2118449.

Mazzeffi MA, Holmes SD, Taylor B, **Glance, LG.**, et al. Red Blood Cell Transfusion and Postoperative Infection in Patients Having Coronary Artery Bypass Grafting Surgery: An Analysis of the Society of Thoracic Surgeons Adult Cardiac Surgery Database. *Anesth Analg*. Sep 1 2022;135(3):558-566.

Nerenz DR, Austin JM, Deutscher D, **Glance, LG.**, et al. Adjusting Quality Measures For Social Risk Factors Can Promote Equity In Health Care. *Health Aff (Millwood)*. Apr 2021;40(4):637-644.

Nicoara A, Song P, Bollen BA, **Glance, LG.**, et al. The Society of Thoracic Surgeons Adult Cardiac Surgery Database: 2021 Update on Echocardiography. *Ann Thorac Surg*. Jan 2022;113(1):13-24.

Thirukumaran CP, Kim Y, Cai X, **Glance, LG.**, et al. Association of the Comprehensive Care for Joint Replacement Model With Disparities in the Use of Total Hip and Total Knee Replacement. *JAMA Netw Open*. May 3 2021;4(5):e2111858.

Thirukumaran CP, Ricciardi BF, Cai X, Holloway RG, Li Y, **Glance LG**. Association of Medicare Mandatory Bundled Payment Reform With Joint Replacement Surgery Use for Beneficiaries With Alzheimer Disease and Related Dementias. *JAMA Health Forum*. Feb 2022;3(2):e215111.

Wu IY, Wyrobek JA, Naka Y, Dickstein ML, **Glance LG**. Perioperative Management of Patients Receiving Short-term Mechanical Circulatory Support with the Transcatheter Heart Pump. *Anesthesiology*. May 1 2022;136(5):829-842.

Gloff, Marjorie

Cahill CM, Alhasson B, Blumberg N, **Gloff, M.**, et al. Preoperative anemia management program reduces blood transfusion in elective cardiac surgical patients, improving outcomes and decreasing hospital length of stay. *Transfusion*. Sep 2021;61(9):2629-2636.

Gloff MS, Robinson R, Correll LR, Lander H, Pyne S, Webber A. Preoperative optimization in the pediatric patient. *Int Anesthesiol Clin*. Jan 1 2022;60(1):56-63.

Gu, Yang

Gu Y, Panda K, Bensimhon A, Bernstein W. Hybrid Approach to Post-Myocardial Infarction Ventricular Septal Rupture Repair and Its Early Complications. *J Cardiothorac Vasc Anesth*. Jan 2021;35(1):274-280.

Khan IR, **Gu Y**, George BP, et al. Brain Histopathology of Adult Decedents After Extracorporeal Membrane Oxygenation. *Neurology*. Mar 2 2021;96(9):e1278-e1289.

Johnson, Gail

Carroll T, Guha S, Nehrke K, **Johnson GVW**. Tau Post-Translational Modifications: Potentiators of Selective Vulnerability in Sporadic Alzheimer's Disease. *Biology (Basel)*. Oct 15 2021;10(10).

Lin H, Koren SA, Cvetojevic G, Girardi P, **Johnson GVW**. The role of BAG3 in health and disease: A "Magic BAG of Tricks". *J Cell Biochem*. Jan 2022;123(1):4-21.

Karan, Suzanne

Bartels K, Frendl G, Sprung J, **Karan, SB**, et al. Postoperative pulmonary complications with adjuvant regional anesthesia versus general anesthesia alone: a sub-analysis of the Perioperative Research Network study. *BMC Anesthesiol*. May 3 2022;22(1):136.

Hincker A, Nadler J, **Karan S**, et al. Sleep Apnea and Fetal Growth Restriction (SAFER) study: protocol for a pragmatic randomised clinical trial of positive airway pressure as an antenatal therapy for fetal growth restriction in maternal obstructive sleep apnoea. *BMJ Open*. Jun 29 2021;11(6):e049120.

Hutchison CE, Reminick JI, Love ER, **Karan S**, Gundle KR. Orthopaedic Surgery Residency Program Adherence to Universal Interview Offer Day Guidelines: A Retrospective Analysis. *J Am Acad Orthop Surg*. Jul 1 2022;30(13):e929-e938.

Love ER, Dexter F, Reminick JI, **Karan SB**. Reducing Over-Interviewing in the Anesthesiology Residency Match. *Cureus*. Aug 2021;13(8):e17538.

Love ER, Dexter F, Reminick JI, Sanford JA, **Karan S**. Interview Data Highlight Importance of "Same-State" on Anesthesiology Residency Match. *Anesth Analg*. Jan 2021;132(1):223-230.

Neves SE, Chen MJ, Ku CM, **Karan, S.**, et al. *Using Machine Learning to Evaluate Attending Feedback on Resident Performance.* *Anesth Analg.* Feb 1 2021;132(2):545-555.

Vidovich C, Laserna A, **Karan SB.** *Venous Gas Embolism During Radical Robotic Prostatectomy: A Case Report and Evidence-Based Management Algorithm.* *Cureus.* Aug 2021;13(8):e17296.

Lander, Heather

Gloff MS, Robinson R, Correll LR, **Lander H,** Pyne S, Webber A. *Preoperative optimization in the pediatric patient.* *Int Anesthesiol Clin.* Jan 1 2022;60(1):56-63.

Laserna, Andres

Laserna A, Barahona-Correa JE, Papadakos P, Esquinas A. *High-Flow Nasal Cannula in COVID-19 Pneumonia: Practical Issues.* *Crit Care Med.* Jun 1 2022;50(6):

Laserna A, Nishtar M, Vidovich C, Borovcanin Z. *Perioperative Management of Ehlers-Danlos Type III Syndrome Associated With Postural Orthostatic Tachycardia in Patients Undergoing General Anesthesia.* *Cureus.* Nov 2021;13(11):e19311.

Vidovich C, **Laserna A,** Karan SB. *Venous Gas Embolism During Radical Robotic Prostatectomy: A Case Report and Evidence-Based Management Algorithm.* *Cureus.* Aug 2021;13(8):e17296.

Lindenmuth, Danielle

Bernstein WK, Wyrobek J, Vidovich C, Tang J, **Lindenmuth D,** Gosev I. *Anesthetic Considerations for Minimally Invasive, Off-Pump, HeartMate III Implantation.* *J Cardiothorac Vasc Anesth.* Jun 2022;36(6):1625-1631.

Lindenmuth DM, Chase K, Cheyne C, Wyrobek, J., et al. *Enhanced Recovery After Surgery in Patients Implanted with Left Ventricular Assist Device.* *J Card Fail.* Nov 2021;27(11):1195-1202.

Lustik, Stewart

Glance LG, Thirukumaran CP, Feng C, **Lustik SJ,** Dick AW. *Association Between the Physician Quality Score in the Merit-Based Incentive Payment System and Hospital Performance in Hospital Compare in the First Year of the Program.* *JAMA Netw Open.* Aug 2 2021;4(8):e2118449.

Lustik SJ, Stern DH, Eaton MP. *Optimum Call Distribution: Market-Based Approach.* *Anesth Analg.* Sep 1 2022;135(3):663-666.

Nadler, Jacob

Blacker SN, Vincent A, Burbridge M, **Nadler, J.,** et al. *Perioperative Care of Patients Undergoing Major Complex Spinal Instrumentation Surgery: Clinical Practice Guidelines From the Society for Neuroscience in Anesthesiology and Critical Care.* *J Neurosurg Anesthesiol.* Jul 1 2022;34(3):257-276.

Hincker A, **Nadler J**, Karan S, et al. *Sleep Apnea and Fetal Growth Restriction (SAFER) study: protocol for a pragmatic randomised clinical trial of positive airway pressure as an antenatal therapy for fetal growth restriction in maternal obstructive sleep apnoea.* *BMJ Open.* Jun 29 2021;11(6):e049120.

Papadakos, Peter

Laserna A, Barahona-Correa JE, **Papadakos P**, Esquinas A. *High-Flow Nasal Cannula in COVID-19 Pneumonia: Practical Issues.* *Crit Care Med.* Jun 1 2022;50(6):

Regan GA, **Papadakos PJ.** *Intracerebral hemorrhage after kratom ingestion.* *Jaapa.* Apr 1 2021;34(4):33-36.

Pyne, Sonia

Gloff MS, Robinson R, Correll LR, Lander H, **Pyne S**, Webber A. *Preoperative optimization in the pediatric patient.* *Int Anesthesiol Clin.* Jan 1 2022;60(1):56-63.

Sweeney, Dawn

Boulos L, Kuebler JD, Angona R, **Sweeney, D.** et al. *Cell Saver Blood Reinfusion Up to 24 Hours Post Collection in Pediatric Cardiac Surgical Patients Does Not Increase Incidence of Hospital-Acquired Infections or Mortality.* *J Extra Corpor Technol.* Sep 2021;53(3):161-169. doi:10.1182/ject-2100015

Webber, Audra

Gloff MS, Robinson R, Correll LR, Lander H, Pyne S, **Webber A.** *Preoperative optimization in the pediatric patient.* *Int Anesthesiol Clin.* Jan 1 2022;60(1):56-63.

Wojtovich, Andrew

Amitrano AM, Berry BJ, Lim K, **Wojtovich, AP**, et al. *Optical Control of CD8(+) T Cell Metabolism and Effector Functions.* *Front Immunol.* 2021;12:666231.

Berry BJ, Nieves TO, **Wojtovich AP.** *Decreased Mitochondrial Membrane Potential Activates the Mitochondrial Unfolded Protein Response.* *MicroPubl Biol.* 2021;2021

Kleckner AS, Kleckner IR, Culakova E, **Wojtovich, A.**, et al. *Exploratory Analysis of Associations Between Whole Blood Mitochondrial Gene Expression and Cancer-Related Fatigue Among Breast Cancer Survivors.* *Nurs Res.* Apr 13 2022.

Onukwufor JO, Dirksen RT, **Wojtovich AP.** *Iron Dysregulation in Mitochondrial Dysfunction and Alzheimer's Disease.* *Antioxidants (Basel).* Mar 31 2022;11(4)

Onukwufor JO, Farooqi MA, Vodičková A, **Wojtovich, A.**, et al. *A reversible mitochondrial complex I thiol switch mediates hypoxic avoidance behavior in C. elegans.* *Nat Commun.* May 3 2022;13(1):2403.

Vodičková A, Koren SA, **Wojtovich AP.** *Site-specific mitochondrial dysfunction in neurodegeneration.* *Mitochondrion.* May 2022;64:1-18.

Wu, Isaac

Bjelic M, Vidula H, **Wu IY**, et al. Impact of surgical approach for left ventricular assist device implantation on postoperative invasive hemodynamics and right ventricular failure. *J Card Surg.* Jul 16 2022

Glance LG, Dick AW, **Wu I.** Safety of Complete Anesthesia Handovers in the Cardiac Surgical Patient. *JAMA Netw Open.* Feb 1 2022;5(2):e2148169.

Hirase Y, Obata Y, **Wu IY**, et al. Paravalvular Leak After Mitral Valve Replacement or Another Source for a Regurgitant Jet? *J Cardiothorac Vasc Anesth.* Jun 2022;36(6):1807-1809.

Wu IY, Gu Y, Pospishil L, Neuburger PJ. Transcatheter tricuspid valve repair with the PASCAL repair system: A review of emerging technology. *J Cardiothorac Vasc Anesth.* Jun 25 2022.

Wu IY, Kaple R, Sugeng L, Heerdt PM. Visualizing the Immediate Hemodynamic Impact of Successful Transcatheter Edge-to-Edge Repair of the Mitral Valve. *J Cardiothorac Vasc Anesth.* May 2022;36(5):1504-1505.

Wu IY, Wyrobek JA, Naka Y, Dickstein ML, Glance LG. Perioperative Management of Patients Receiving Short-term Mechanical Circulatory Support with the Transvalvular Heart Pump. *Anesthesiology.* May 1 2022;136(5):829-842.

Wyrobek, Julie

Bernstein WK, **Wyrobek J**, Vidovich C, Tang J, Lindenmuth D, Gosev I. Anesthetic Considerations for Minimally Invasive, Off-Pump, HeartMate III Implantation. *J Cardiothorac Vasc Anesth.* Jun 2022;36(6):1625-1631.

Lindenmuth DM, Chase K, Cheyne C, **Wyrobek, J.**, et al. Enhanced Recovery After Surgery in Patients Implanted with Left Ventricular Assist Device. *J Card Fail.* Nov 2021;27(11):1195-1202.