

Department of Anesthesiology & Pain Medicine
Publications July 1st 2023 – June 30th 2024

1. Neuman MD, Sieber F, **Dillane D**. Comparative Effectiveness Research on Spinal versus General Anesthesia for Surgery in Older Adults. *Anesthesiology*. 2023 Aug 1;139(2):211-223. doi: 10.1097/ALN.0000000000004604. PMID: 37278667.
2. Vail EA, Feng R, Sieber F, Carson JL, Ellenberg SS, Magaziner J, **Dillane D**, Marcantonio ER, Sessler DI, Ayad S, Stone T, Papp S, Donegan D, Mehta S, Schwenk ES, Marshall M, Jaffe JD, Luke C, Sharma B, Azim S, Hymes R, Chin KJ, Sheppard R, Perlman B, Sappenfield J, Hauck E, Tierney A, Horan AD, Neuman MD; REGAIN (Regional versus General Anesthesia for Promoting Independence after Hip Fracture) Investigators. Long-term Outcomes with Spinal versus General Anesthesia for Hip Fracture Surgery: A Randomized Trial. *Anesthesiology*. 2024 Mar 1;140(3):375-386. doi: 10.1097/ALN.0000000000004807. PMID: 37831596; PMCID: PMC11186520.
3. Baaklini CS, Ho MFS, Lange T, Hammond BP, Panda SP, Zirngibl M, Zia S, Himmelsbach K, Rana H, Phillips B, Antoszko D, Ibanga J, Lopez M, Lee KV, Keough MB, Capriariello AV, **Kerr BJ**, Plemel JR. Microglia promote remyelination independent of their role in clearing myelin debris. *Cell Rep*. 2023 Dec 26;42(12):113574. doi: 10.1016/j.celrep.2023.113574. Epub 2023 Dec 14. PMID:38100356.
4. Senger JB, Hardy P, Thorkelsson A, Duia S, Hsiao R, Kemp SWP, Tenorio G, Rajshekar M, **Kerr BJ**, Chan KM, Rabey KN, Webber CA. A Direct Comparison of Targeted Muscle Reinnervation and Regenerative Peripheral Nerve Interfaces to Prevent Neuroma Pain. *Neurosurgery*. 2023 Nov 1;93(5):1180-1191. doi: 10.1227/neu.0000000000002541. Epub 2023 Jun 2. PMID: 37265342.
5. Carrier FM, Vincelette C, Trottier H, Amzallag É, Carr A, Chaudhury P, Dajani K, Fugère R, Giard JM, Gonzalez-Valencia N, Joosten A, Kandelman S, Karvellas C, McCluskey SA, **Özelsel T**, Park J, Simoneau É, Chassé M. Perioperative clinical practice in liver transplantation: a cross-sectional survey. *Can J Anaesth*. 2023 Jul;70(7):1155-1166. English. doi: 10.1007/s12630-023-02499-y. Epub 2023 Jun 2. PMID: 37266852.
6. O'Brien K, Feng R, Sieber F, Marcantonio ER, Tierney A, Magaziner J, Carson JL, **Dillane D**, Sessler DI, Menio D, Ayad S, Stone T, Papp S, Schwenk ES, Marshall M, Jaffe JD, Luke C, Sharma B, Azim S, Hymes R, Chin KJ, Sheppard R, Perlman B, Sappenfield J, Hauck E, Hoeft MA, Karlawish J, Mehta S, Donegan DJ, Horan A, Ellenberg SS, Neuman MD; REGAIN (Regional versus General Anesthesia for Promoting Independence after Hip Fracture) Investigators. Outcomes with spinal versus general anesthesia for patients with and without preoperative cognitive impairment: Secondary analysis of a randomized clinical trial. *Alzheimers Dement*. 2023 Sep;19(9):4008-4019. doi: 10.1002/alz.13132. Epub 2023 May 12. PMID: 37170754.
7. Sharma N, Chwastek D, Dwivedi DJ, Schlechte J, Yu IL, McDonald B, Arora J, Cani E, Eng M, Engelberts D, Kuhar E, Medeiros SK, **Bourque SL**, Cepinskas G, Gill SE, Jahandideh F, Macala KF, Panahi S, Pape C, Sontag D, Sunohara-Neilson J, Fergusson DA, Fox-Robichaud AE, Liaw PC, Lalu MM, Mendelson AA; National Preclinical Sepsis Platform,

Sepsis Canada. Development and characterization of a fecal-induced peritonitis model of murine sepsis: results from a multi-laboratory study and iterative modification of experimental conditions. *Intensive Care Med Exp*. 2023 Jul 17;11(1):45. doi: 10.1186/s40635-023-00533-3. PMID: 37460911; PMCID: PMC10352196.

8. Friedman TN, La Caprara O, Zhang C, Lee K, May J, Faig CA, Baldwin T, Plemel JR, Taylor AMW, **Kerr BJ**. Sex differences in peripheral immune cell activation: Implications for pain and pain resolution. *Brain Behav Immun*. 2023 Nov;114:80-93. doi: 10.1016/j.bbi.2023.07.029. Epub 2023 Aug 6. PMID: 37544463.
9. Alavi P, Yousef Abdulla R, Brown D, Mojiri A, Nagendran J, Lewis J, **Bourque SL**, Jahroudi N. Aging Is Associated with Organ-Specific Alterations in the Level and Expression Pattern of von Willebrand Factor. *Arterioscler Thromb Vasc Biol*. 2023 Nov;43(11):2183-2196. doi: 10.1161/ATVBAHA.123.319255. Epub 2023 Sep 21. PMID: 37732483.
10. Linkiewicz D, Dib KC, Forgeron PA, **Dick BD**, McMurtry CM. Perceptions of Adolescents With Chronic Pain About Peer Support: Reflexive Thematic Analysis. *J Pediatr Psychol*. 2023 Aug 29;48(8):655-663. doi: 10.1093/jpepsy/jsad014. PMID: 36860181.
11. Ferry J, Lewis O, Lloyd J, El-Boghdadly K, Kearns R, Albrecht E, Altermatt F, Ashokka B, Ayad AE, Aziz ES, Aziz L, Jagannathan B, Bouarroudj N, Chin KJ, Delbos A, de Gracia A, **Ip VHY**, Kwofie K, Layera S, Lobo CA, Mohammed M, Moka E, Moreno M, Morgan B, Polela A, Rahimzadeh P, Tangiwat S, Uppal V, Vaz Perez M, Volk T, Wong PBY, Bowness JS, Macfarlane AJR. Research priorities in regional anaesthesia: an international Delphi study. *Br J Anaesth*. 2024 May;132(5):1041-1048. doi: 10.1016/j.bja.2024.01.033. Epub 2024 Mar 5. PMID: 38448274; PMCID: PMC11103078.
12. Martens MD, Holody CD, Wells L, Silver HL, Morales-Llamas DY, Du WW, Reeks C, Khairy M, Chen H, Ferdaoussi M, **Bourque SL**, Yang BB, Ussher JR, Lemieux H, Oudit GY, Screaton RA, Dyck JRB. Reactive Oxygen Species Modulator 1 Plays an Obligate Role in Cardiomyocyte Hypertrophy. *Circ Res*. 2024 Jan 5;134(1):114-116. doi: 10.1161/CIRCRESAHA.123.323456. Epub 2023 Nov 29. PMID: 38018429.
13. El-Boghdadly K, Albrecht E, Wolmarans M, Mariano ER, Kopp S, Perlas A, Thottungal A, Gadsden J, Tulgar S, Adhikary S, Aguirre J, Agur AMR, Altıparmak B, Barrington MJ, Bedfordth N, Blanco R, Bloc S, Boretsky K, Bowness J, Breebaart M, Burckett-St Laurent D, Carvalho B, Chelly JE, Chin KJ, Chuan A, Coppens S, Costache I, Dam M, Desmet M, Dhir S, Egeler C, Elsharkawy H, Bendtsen TF, Fox B, Franco CD, Gautier PE, Grant SA, Grape S, Guheen C, Harbell MW, Hebbard P, Hernandez N, Hogg RMG, Holtz M, Ihnatsenka B, Ilfeld BM, **Ip VHY**, Johnson RL, Kalagara H, Kessler P, Kwofie MK, Le-Wendling L, Lirk P, Lobo C, Ludwin D, Macfarlane AJR, Makris A, McCartney C, McDonnell J, McLeod GA, Memtsoudis SG, Merjavy P, Moran EML, Nader A, Neal JM, Niazi AU, Njathi-Ori C, O'Donnell BD, Oldman M, Orebaugh SL, Parras T, Pawa A, Peng P, Porter S, Pulos BP, Sala-Blanch X, Saporito A, Sauter AR, Schwenk ES, Sebastian MP, Sidhu N, Sinha SK, Soffin EM, Stimpson J, Tang R, Tsui BCH, Turbitt L, Uppal V, van Geffen GJ, Vermeylen K, Vlassakov K, Volk T, Xu JL, Elkassabany NM. Standardizing nomenclature in regional anesthesia: an ASRA-ESRA Delphi consensus study of upper and lower limb nerve

blocks. *Reg Anesth Pain Med*. 2023 Nov 22;rapm-2023-104884. doi: 10.1136/rapm-2023-104884. Epub ahead of print. PMID: 38050174.

14. Rajae AN, Olson DW, Frelove D, Velupillai N, Buro K, Sondekoppam RV, **Özelsel TJ**. Comparison of the Quality of Recovery-15 score in patients undergoing oncoplastic breast-conserving surgery under monitored anesthesia care versus general anesthesia: a prospective quality improvement study. *Can J*
15. *Anaesth*. 2023 Dec;70(12):1928-1938. English. doi: 10.1007/s12630-023-02567-3. Epub 2023 Sep 25. PMID: 37749365.
16. Wawrzyniak P, Hubeli B, Wawrzyniak M, Noureddine N, Walberg A, Scharl S, Turina M, Scharl M, **Zaugg M**, Krämer SD, Rogler G, Hersberger M. Crosstalk within peripheral blood mononuclear cells mediates anti-inflammatory effects of n-3 PUFA-rich lipid emulsions in parenteral nutrition. *Clin Nutr*. 2023 Dec;42(12):2422-2433. doi: 10.1016/j.clnu.2023.10.016. Epub 2023 Oct 17. PMID: 37871483.
17. **Defoe M**, **Lam W**, Becher H, Lydell C, Hong Y, **Sidhu S**. Right ventricular ejection fraction derived from intraoperative three-dimensional transesophageal echocardiography versus cardiac magnetic resonance imaging. *Can J Anaesth*. 2023 Oct;70(10):1576-1586. English. doi: 10.1007/s12630-023-02569-1. Epub 2023 Sep 26. PMID: 37752378.
18. Hammal F, Chiu C, Kung JY, Bradley N, **Dillane D**. Pain management for hospitalized patients with rib fractures: A systematic review of randomized clinical trials. *J Clin Anesth*. 2024 Feb;92:111276. doi: 10.1016/j.jclinane.2023.111276. Epub 2023 Oct 24. PMID: 37883901.
19. Das D, Wong A, Friedman TN, **Kerr BJ**, Kurata HT, Lamothe SM. Reducing agents facilitate membrane patch seal integrity and longevity. *Channels (Austin)*. 2024 Dec;18(1):2297621. doi: 10.1080/19336950.2023.2297621. Epub 2023 Dec 28. PMID: 38154061; PMCID: PMC10761044.
20. Spence J, Belley-Côté E, Jacobsohn E, Lee SF, D'Aragon F, Avidan M, Mazer CD, Rousseau-Saine N, Rajamohan R, Pryor K, Klein R, Tan EC, Cameron M, Di Sante E, DeBorba E, Mustard M, Couture E, Zamper R, Law M, Djaiani G, Saha T, Choi S, Hedlin P, Pikaluk R, **Lam WY**, Deschamps A, Whitlock R, Dulong B, Devereaux PJ, Beaver C, Kloppenburg S, Oczkowski S, McIntyre WF, McFarling M, Lamy A, Vincent J, Connolly S; **B-Free Investigators**. Benzodiazepine-Free Cardiac Anesthesia for Reduction of Postoperative Delirium (B-Free): A Protocol for a Multi-centre Randomized Cluster Crossover Trial. *CJC Open*. 2023 Jun 8;5(9):691-699. doi: 10.1016/j.cjco.2023.06.001. PMID: 37744662; PMCID: PMC10516716.
21. Chatterjee P, Holody CD, Kirschenman R, Graton ME, Spaans F, Phillips TJ, Case CP, **Bourque SL**, Lemieux H, Davidge ST. Sex-Specific Effects of Prenatal Hypoxia and a Placental Antioxidant Treatment on Cardiac Mitochondrial Function in the Young Adult Offspring. *Int J Mol Sci*. 2023 Sep 3;24(17):13624. doi: 10.3390/ijms241713624. PMID: 37686430; PMCID: PMC10487956.
22. Ostertag C, Friedman TN, Keough MB, **Kerr BJ**, Sankar T. Heightened presence of inflammatory mediators in the cerebrospinal fluid of patients with trigeminal neuralgia.

Pain Rep. 2023 Dec 19;8(6):e1117. doi: 10.1097/PR9.0000000000001117. PMID: 38125050; PMCID: PMC10732488.

23. Noble RMN, Kirschenman R, Wiedemeyer A, Patel V, Rachid JJ, Zemp RJ, Davidge ST, **Bourque SL**. Use of Photoacoustic Imaging to Study the Effects of Anemia on Placental Oxygen Saturation in Normoxic and Hypoxic Conditions. *Reprod Sci*. 2024 Apr;31(4):966-974. doi: 10.1007/s43032-023-01395-6. Epub 2023 Nov 27. PMID: 38012522.
24. Noble RMN, Holody CD, Woodman AG, Nie C, Liu SN, Young D, Wiedemeyer A, Soni S, Dyck JRB, Graf D, Eckersley LG, Dufour A, **Bourque SL**. Perinatal iron restriction is associated with changes in neonatal cardiac function and structure in a sex-dependent manner. *Clin Sci (Lond)*. 2023 Aug 14;137(15):1115-1130. doi: 10.1042/CS20230594. PMID: 37463130.
25. El-Andari R, **Sidhu S**, Wang W. Massive septic pulmonary embolism from infective endocarditis obstructing the right pulmonary artery: a case report. *Future Cardiol*. 2023 Nov;19(14):679-683. doi: 10.2217/fca-2023-0101. Epub 2023 Dec 7. PMID: 38059471.
26. Potvin CA, **Ip VHY**. Regional Anesthesia for Athletes Undergoing Upper Extremity Procedures: Techniques and Considerations. *Anesthesiol Clin*. 2024 Jun;42(2):203-217. doi: 10.1016/j.anclin.2023.11.006. PMID: 38705671.
27. Wang F, **Lucchinetti E**, Lou PH, Hatami S, Chakravarty A, Hersberger M, Freed DH, **Zaugg M**. Optimizing resuscitation of the donation after circulatory death heart by mitochondrial protection in a female porcine model. *Anesthesiology*. 2024 May 23. doi: 10.1097/ALN.0000000000005093. Epub ahead of print. PMID:38780996.
28. Linkiewicz D, Dib KC, Forgeron PA, **Dick BD**, McMurtry CM. Roadmap to the 'Chronic Pain GPS for Adolescents' Intervention: Content and Design Considerations for a Group Peer Support Intervention. *Clin J Pain*. 2024 May 1;40(5):288-298. doi: 10.1097/AJP.0000000000001201. PMID: 38303597.
29. **Dillane D**, Ramadi A, Nathanail S, **Dick BD**, Bostick G, Chan K, Douglas C, Goplen G, Green J, Halliday S, Hellec B, Rashid S, Scharfenberger A, Woolsey G, Beaupre LA, Pedersen ME. Correction: Elective surgery in ankle and foot disorders-best practices for management of pain: a guideline for clinicians. *Can J Anaesth*. 2024 Feb;71(2):306. doi: 10.1007/s12630-023-02679-w. Epub 2023 Dec 19. Erratum for: *Can J Anaesth*. 2022 Aug;69(8):1053-1067. doi:10.1007/s12630-022-02267-4. PMID: 38114874.
30. Rajaei AN, Olson DW, Frelove D, Velupillai N, Buro K, Sondekoppam RV, **Özelsel TJ**. Comparison of the Quality of Recovery-15 score in patients undergoing oncoplastic breast-conserving surgery under monitored anesthesia care versus general anesthesia: a prospective quality improvement study. *Can J Anaesth*. 2023 Dec;70(12):1928-1938. English. doi: 10.1007/s12630-023-02567-3. Epub 2023 Sep 25. PMID: 37749365.
31. Krebs BK, Rachor GS, Yamamoto SS, **Dick BD**, Brown CA, Asmundson GJG, Straub S, Els C, Jackson TD, Bremault-Philips S, Voaklander D, Stastny J, Berry T, & Gross DP. (2024). Multiple Psychiatric Diagnoses and Return-to-work Following Posttraumatic Stress Injury

Rehabilitation. *Journal of Vocational Rehabilitation* 60 (3), 363 – 377. doi: 10.3233/JVR-230063

32. Soltani S, Killackey T, Birnie KA, Brennenstuhl S, Kopala-Sibley DC, Choiniere M, Pagé MG, Dassieu L, Lacasse A, Lalloo C, Poulin P, Ingelmo P, Ali S, Battaglia M, Campbell F, Smith A, Benayon M, Jordan I, Marianayagam J, Harris L, Mohabir V, Stinson J, Noel M; **COVID Child Pain Team (Dick BD)**. Pain, mental health and healthcare utilization: Impact of the COVID-19 pandemic on youth with chronic pain, parents and siblings. *Eur J Pain*. 2023 Nov;27(10):1249-1265. doi: 10.1002/ejp.2157. Epub 2023 Jul 12. PMID: 37435883
33. Lee S, Jordan A, Walker N, Nauman H, **Dick BD**, McMurtry CM (2023). Learning, Hope, and Empowerment: A Reflexive Thematic Analysis of Feedback on a Group Intervention for Parents of Youth with Chronic Pain. *The Clinical Journal of Pain* 39(11):p 611-619, November 2023. | DOI: 10.1097/AJP.0000000000001150.
34. Moray A, Mugaba PM, Joynt C, McBrien A, Eckersley LG, Phillipos E, **Holinski P**, Ryerson L, Coe JY, Chandra S, Wong B, Derbyshire M, Lefebvre M, Al Aklabi M, Hornberger LK. Predicting High-Risk Fetal Cardiac Disease Anticipated to Need Immediate Postnatal Stabilization and Intervention with Planned Pediatric Cardiac Operating Room Delivery. *J Am Heart Assoc*. 2024 Mar 19;13(6):e031184. doi: 10.1161/JAHA.123.031184. Epub 2024 Mar 18. PMID: 38497437; PMCID: PMC11010008.
35. El-Andari R, Zibdawi R, **Holinski P**, Koller J, Joynt C, Khoo N, Lequier L, El-Hakim H, Al Aklabi M. Congenital Tracheal Stenosis Patients Undergoing Modified Slide Tracheoplasty: Single-Centre Technique and Long-Term Morbidity and Mortality. *CJC Pediatr Congenit Heart Dis*. 2023 Oct 13;3(1):24-32. doi: 10.1016/j.cjcpc.2023.10.003. PMID: 38544878; PMCID: PMC10964263.
36. Mizubuti GB, Maxwell S, Shatenko S, Braund H, Phelan R, Ho AM, Dalgarno N, Hobbs H, Szulewski A, Haji F, Arellano R; and the **Canadian Anesthesiology POCUS Consortium (Sidhu S)**. Competencies for proficiency in basic point-of-care ultrasound in anesthesiology: national expert recommendations using Delphi methodology. *Can J Anaesth*. 2024 Apr 17. English. doi: 10.1007/s12630-024-02746-w. Epub ahead of print. PMID: 38632162.
37. Schindle M, **Berger L**. Early Long-Acting Buprenorphine for Opioid Use Disorder in the Setting of Acute Pain. *J Addict Med*. 2024 Jun 3. doi: 10.1097/ADM.0000000000001333. Epub ahead of print. PMID: 38829025.
38. Khan JS, Gilron I, Devereaux PJ, Clarke H, Ayach N, Tomlinson G, Quan ML, Ladha KS, Choi S, Munro A, Brull R, Lim DW, Avramescu S, Richebé P, Hodgson N, Paul J, McIsaac DI, **Derzi S**, Zbitnew GL, Easson AM, Siddiqui NT, Miles SJ, Karkouti K; PLAN Trial Investigators. Prevention of persistent pain with lidocaine infusions in breast cancer surgery (PLAN): study protocol for a multicenter randomized controlled trial. *Trials*. 2024 May 22;25(1):337. doi: 10.1186/s13063-024-08151-4. PMID: 38773653; PMCID: PMC11110187.
39. **Derzi SH**, Dewidar O, Sabri H, Tran D, Wells GA. Antithrombotic therapy for durable left ventricular assist devices: protocol for a living systematic review with indirect

comparison/network meta-analysis. BMJ Open. 2024 Jun 25;14(6):e080110. doi: 10.1136/bmjopen-2023-080110. PMID: 38925683; PMCID: PMC11202742.

40. **Gragasin FS**, Phaterpekar N, Glasgow D, Sun HL. Successful Ultrasound-Guided Spinal Anesthesia in a Patient With Severe Hemophilia A Undergoing Total Hip Arthroplasty. J Hematol. 2023 Dec;12(6):268-271. doi: 10.14740/jh1188. Epub 2023 Dec 28. PMID: 38188475; PMCID: PMC10769643.