

Department of Anesthesiology and Perioperative Medicine
FY18 publications (July 1, 2017-June 30, 2018)

***** 76 unique papers

Brookes, Paul

Roberts R, Laramée RS, Smith GA, **Brookes P**, DCruze T. *Smart Brushing for*

Cell Ca. FASEB J. 2018 Jun 4;201803R. doi:

10107.201803R. [Epub ahead of print]PubMed PMID: 296392.

Zhang J, Wang Y, Miller JH, Day MM, Munger JC, Brookes PS. Accumulation of Succinate in Cardiac Ischemia Primarily Occurs via Canonical Krebs cycle Activity. Cell Rep. 2018 May 29;23(9):2617-2628. doi:10.1016/j.celrep.2018.04.104. PubMed PMID: 29847793; PubMed Central PMCID: PMC6002783.

Peoples JNR, Maxmillian T, Le Q, Nadtochiy SM, **Brookes PS**, Porter GA Jr, Davidson VL, Ebert SN. *Metabolomics reveals critical adrenergic regulatory checkpoints in glycolysis and pentose-phosphate pathways in embryonic heart.* J Biol Chem. 2018 May 4;293(18):6925-6941. doi: 10.1074/jbc.RA118.002566. Epub 2018 Mar 14. PubMed PMID: 29540484; PubMed Central PMCID: PMC5936816.

Sahni PV, Zhang J, Sosunov S, Galkin A, Niatetskaya Z, Starkov A, **Brookes PS**, *Ten VS. Krebs cycle metabolites and preferential succinate oxidation following neonatal hypoxic-ischemic brain injury in mice.* Pediatr Res. 2018 Feb;83(2):491-497. doi: 10.1038/pr.2017.277. Epub 2017 Dec 6. PubMed PMID: 29211056; PubMed Central PMCID: PMC5866163.

Brookes PS, Taegtmeyer H. Metabolism: *A Direct Link Between Cardiac Structure and Function.* Circulation. 2017 Nov 28;136(22):2158-2161. doi: 10.1161/CIRCULATIONAHA.117.031372. PubMed PMID: 29180494; PubMed Central PMCID: PMC5785082.

Resseguie EA, **Brookes PS**, O'Reilly MA. *SMG-1 kinase attenuates mitochondrial ROS production but not cell respiration deficits during hyperoxia.* Exp Lung Res.

2017 Aug - Sep;43(6-7):229-

Price TJ, Basbaum AI, Bresnahan J, Chambers JF, De Koninck Y, Edwards RR, Ji RR, Katz J, Kavelaars A, Levine JD, Porter L, Schechter N, Sluka KA, Terman GW, Wager TD, Yaksh TL, **Dworkin RH**. Transition to chronic pain: opportunities for novel therapeutics. Nat Rev Neurosci. 2018 May 15. doi: 10.1038/s41583-018-0012-5. [Epub ahead of print] PubMed PMID: 29765159.

Smith SM, Jensen MP, He H, Kitt R, Koch J, Pan A, Burke LB, Farrar JT, McDermott MP, Turk DC, **Dworkin RH**. A Comparison of the Assay Sensitivity of Average and Worst Pain Intensity in Pharmacologic Trials: An ACTION Systematic Review and Meta-Analysis. J Pain. 2018 Sep;19(9):953-960. doi: 10.1016/j.jpain.2018.02.016. Epub 2018 Mar 26. Review. PubMed PMID: 29597081.

Gewandter JS, Chaudari J, Iwan KB, Kitt R, As-Sanie S, Bachmann G, Clemens Q, Lai HH, Tu F, Verne GN, Vincent K, Wesselmann U, Zhou Q, Turk DC, **Dworkin RH**, Smith SM. Research Design Characteristics of Published Pharmacologic Randomized Clinical Trials for Irritable Bowel Syndrome and Chronic Pelvic Pain Conditions: An ACTION Systematic Review. J Pain. 2018 Jul;19(7):717

Gewandter JS, McDermott MP, Kitt RA, Chaudari J, Koch JG, Evans SR, Gross RA, Markman JD, Turk DC, **Dworkin RH**. *Interpretation of CIs in clinical trials with non-significant results: systematic review and recommendations*. *BMJ Open*. 2017 Jul 18;7(7):e017288. doi: 10.1136/bmjopen-2017-017288. Review. PubMed PMID: 28720618; PubMed Central PMCID: PMC5726092.

Kent ML, Tighe PJ, Belfer I, Brennan TJ, Bruehl S, Brummett CM, Buckenmaier CC 3rd, Buvanendran A, Cohen RI, Desjardins P, Edwards D, Fillingim R, Gewandter J, Gordon DB, Hurley RW, Kehlet H, Loeser JD, Mackey S, McLean SA, Polomano R, Rahman S, Raja S, Rowbotham M, Suresh S, Schachtel B, Schreiber K, Schumacher M, Stacey B, Stanos S, Todd K, Turk DC, Weisman SJ, Wu C, Carr DB, **Dworkin RH**, Terman G. *The ACTION-APS-AAPM Pain Taxonomy (AAAPT) Multidimensional Approach to Classifying Acute Pain Conditions*. *J Pain*. 2017 May;18(5):479-489. doi: 10.1016/j.jpain.2017.02.421. PubMed PMID: 28495013.

Kent ML, Tighe PJ, Belfer I, Brennan TJ, Bruehl S, Brummett CM, Buckenmaier CC 3rd, Buvanendran A, Cohen RI, Desjardins P, Edwards D, Fillingim R, Gewandter J, Gordon DB, Hurley RW, Kehlet H, Loeser JD, Mackey S, McLean SA, Polomano R, Rahman S, Raja S, Rowbotham M, Suresh S, Schachtel B, Schreiber K, Schumacher M, Stacey B, Stanos S, Todd K, Turk DC, Weisman SJ, Wu C, Carr DB, **Dworkin RH**, Terman G. *The ACTION-APS-AAPM Pain Taxonomy (AAAPT) Multidimensional Approach to Classifying Acute Pain Conditions*. *Pain Med*. 2017 May 1;18(5):947-958. doi: 10.1093/pm/pnx019. PubMed PMID: 28482098; PubMed Central PMCID: PMC5431381.

Smith SM, Jones JK, Katz NP, Roland CL, Setnik B, Trudeau JJ, Wright S, Burke LB, Comer SD, Dart RC, Dionne R, Haddox JD, Jaffe JH, Kopecky EA, Martell BA, Montoya ID, Stanton M, Wasan AD, Turk DC, **Dworkin RH**. *Measures That Identify Prescription Medication Misuse, Abuse, and Related Events in Clinical Trials: ACTION Critique and Recommended Considerations*. *J Pain*. 2017 Nov;18(11):1287-1294. doi: 10.1016/j.jpain.2017.03.015. Epub 2017 May 4. PubMed PMID: 28479207; PubMed Central PMCID: PMC5660635.

Gauthier LR, **Dworkin RH**, Warr D, Pillai Riddell R, Macpherson AK, Rodin G, Zimmermann C, Lawrence Librach S, Moore M, Shepherd FA, Gagliese L. *Age-Related Patterns in Cancer Pain and Its Psychosocial Impact: Investigating the Role of Variability in Physical and Mental Health Quality of Life*. *Pain Med*. 2018 Apr 1;19(4):658-676. doi: 10.1093/pm/pnx002. PubMed PMID: 28340045.

Considerations. *J Pain*. 2017 Jul;18(7):757-777. doi: 10.1016/j.jpain.2017.02.429.

Eaton, Michael

Blumberg N, Cholette JM, Pietropaoli AP, Phipps R, Spinelli SL, **Eaton MP**, Noronha SA, Seghatchian J, Heal JM, Refaai MA. 0.9% NaCl (Normal Saline) - Perhaps not so normal after all? *Transfusion and apheresis science : official journal of the World Apheresis Association : official journal of the European Society for Haemapheresis*. 2018;57(1):127-131.

Cancer. 2018 Apr;26(4):1019-1028. doi: 10.1007/s00520-017-4013-0. Epub 2017 Dec 14. PubMed PMID: 29243164; PubMed Central PMCID: PMC5823751.

Ryan Wolf J, Heckler CE, Guido JJ, Peoples AR, **Gewandter JS**, Ling M, Vinciguerra VP, Anderson T, Evans L, Wade J, Pentland AP, Morrow GR. *Oral curcumin for radiation dermatitis: a URCC NCORP study of 686 breast cancer patients*. Support Care Cancer. 2018 May;26(5):1543-1552. doi: 10.1007/s00520-017-3957-4. Epub 2017 Dec 1. PubMed PMID: 29192329; PubMed Central PMCID: PMC5876157.

Gewandter JS, Freeman R, Kitt RA, Cavaletti G, Gauthier LR, McDermott MP, Mohile NA, Mohlie SG, Smith AG, Tejani MA, Turk DC, Dworkin RH. *Chemotherapy-induced peripheral neuropathy clinical trials: Review and recommendations*. Neurology. 2017 Aug 22;89(8):859-869. doi: 10.1212/WNL.0000000000004272. Epub 2017 Jul 26. Review. PubMed PMID: 28747442.

Gewandter JS, McDermott MP, Kitt RA, Chaudari J, Koch JG, Evans SR, Gross RA, Markman JD, Turk DC, Dworkin RH. *Interpretation of CIs in clinical trials with non-significant results: systematic review and recommendations*. BMJ Open. 2017 Jul 18;7(7):e017288. doi: 10.1136/bmjopen-2017-017288. Review. PubMed PMID: 28720618; PubMed Central PMCID: PMC5726092.

Kent ML, Tighe PJ, Belfer I, Brennan TJ, Bruehl S, Brummett CM, Buckenmaier
CC 3rd, 017288.ss R-4(,)o10(u)-2(J,)1(B Fd45(a)1-2(s)]TJ10(D)-l)10(dy)5.1((ro)W4(c)2(c)4(h)-10(S,)1())1

PubMed Central PMCID: PMC5780643.

Rothstein D, Kitt RA, Smith SM, Abdi S, Engle MP, McDermott MP, Raja SN, Turk DC, Dworkin RH, **Gewandter JS**. Reporting of Design Features and Analysis Details in Randomized Clinical Trials of Procedural Treatments for Cancer Pain: An ACTION Systematic Review. Reg Anesth Pain Med. 2017 May/Jun;42(3):392-399. doi: 10.1097/AAP.0000000000000553. Review. PubMed PMID: 28085789.

Gewandter JS, Burke L, Cavaletti G, Dworkin RH, Gibbons C, Gover TD, Herrmann DN, Mcarthur JC, McDermott MP, Rappaport BA, Reeve BB, Russell JW, Smith AG, Smith SM, Turk DC, Vinik AI, Freeman R. Content validity of symptom-based measures for diabetic, chemotherapy, and HIV peripheral neuropathy. Muscle Nerve. 2017 Mar;55(3):366-372. doi: 10.1002/mus.25264. Epub 2016 Dec 23. Review. PubMed PMID: 27447116; PubMed Central PMCID: PMC5528159.

Glance, Laurent

Cook A, Osler T, **Glance L**, Lecky F, Bouamra O, Weddle J, Gross B, Ward J, Moore FO, 3rd, Rogers F, Hosmer D. Comparison of two prognostic models in trauma outcome. *The British journal of surgery*. 2018;105(5):513-519.

Glance LG, Dick AW, Osler TM. Risk Prediction Tools: The Need for Greater Transparency. *Anesthesiology*. 2018;128(2):244-246.

Glance LG, Dutton RP, Feng C, Li Y, Lustik SJ, Dick AW. Variability in Case Durations for Common Surgical Procedures. *Anesthesia and analgesia*. 2018;126(6):2017-2024.

Glance LG, Holloway RG. Raising the Alarm on Brain Attacks in Surgical Patients: Are We Doing Enough to Prevent and Treat Postoperative Strokes? *Anesthesiology*. 2017;127(1):3-5.

Glance LG, Wanderer JP, Dick AW, Dutton RP. Building Bridges Across Clinical Registries. *Anesthesia and analgesia*. 2017;125(2):689-691.

Li Y, Cen X, Cai X, Thirukumaran CP, Zhou J, **Glance LG**. Medicare Advantage Associated With More Racial Disparity Than Traditional Medicare For Hospital Readmissions. *Health affairs (Project Hope)*. 2017;36(7):1328-1335.

Li Y, Cen X, Cai X, Wang D, Thirukumaran CP, **Glance LG**. Does Medicare Advantage Reduce Racial Disparity in 30-Day Rehospitalization for Medicare Beneficiaries? *Medical care research and review : MCRR*. 2018;75(2):175-200.

Johnson, Gail

Monteagudo A, Feola J, Natola H, Ji C, Pröschel C, **Johnson GVW**. Depletion of astrocytic transglutaminase 2 improves injury outcomes. *Mol Cell Neurosci*. 2018 Jun 30;92:128-136. doi: 10.1016/j.mcn.2018.06.007. [Epub ahead of print] PubMed

Karan, Suzanne

Ward DS, Williams MR, Berkenbosch JW, Bhatt M, Carlson D, Chappell P, Clark RM, Constant I, Conway A, Cravero J, Dahan A, Dexter F, Dionne R, Dworkin RH, Gan TJ, Gozal D, Green S, Irwin MG, **Karan S**, Kochman M, Lerman J, Lightdale JR, Litman RS, Mason KP, Miner J, O'Connor RE, Pandharipande P, Riker RR, Roback MG, Sessler DI, Sexton A, Tobin JR, Turk DC, Twersky RS, Urman RD, Weiss M, Wunsch H, Zhao-Wong A. *Evaluating Patient-Centered Outcomes in Clinical Trials of Procedural Sedation, Part 2 Safety: Sedation Consortium on Endpoints and*

Berger M, Ponnusamy V, Greene N, Cooter M, **Nadler JW**, Friedman A, McDonagh DL, Laskowitz DT, Newman MF, Shaw LM, Warner DS, Mathew JP, James ML. The Effect of Propofol vs. Isoflurane Anesthesia on Postoperative Changes in Cerebrospinal Fluid Cytokine Levels: Results from a Randomized Trial. *Frontiers in immunology*. 2017;8:1528.

Evans JL, **Nadler JW**, Preud'homme XA, Fang E, Daughtry RL, Chapman JB, Attarian D, Wellman S, Krystal AD. Pilot prospective study of post-surgery sleep and EEG predictors of post-operative delirium. *Clinical neurophysiology : official journal of the International Federation of Clinical Neurophysiology*. 2017;128(8):1421-1425.

Nadtochiy, Sergiy

Nadtochiy SM, Wang YT, Nehrke K, Munger J, Brookes PS. Cardioprotection by nicotinamide mononucleotide (NMN): Involvement of glycolysis and acidic pH. *J Mol Cell Cardiol*. 2018 Aug;121:155-162. doi: 10.1016/j.yjmcc.2018.06.007. Epub 2018 Jun 26. PubMed PMID: 29958828; PubMed Central PMCID: PMC6103815.

Smith CO, Wang YT, **Nadtochiy SM**, Miller JH, Jonas EA, Dirksen RT, Nehrke K, Brookes PS. Cardiac metabolic effects of K(Na)1.2 channel deletion and evidence for its mitochondrial localization. *FASEB J*. 2018 Jun 4:fj201800139R. doi: 10.1096/fj.201800139R. [Epub ahead of print] PubMed PMID: 29863912.

Peoples JNR, Maxmillian T, Le Q, **Nadtochiy SM**, Brookes PS, Porter GA Jr, Davidson VL, Ebert SN. Metabolomics reveals critical adrenergic regulatory checkpoints in glycolysis and pentose-phosphate pathways in embryonic heart. *J Biol Chem*. 2018 May 4;293(18):6925-6941. doi: 10.1074/jbc.RA118.002566. Epub 2018 Mar 14. PubMed PMID: 29540484; PubMed Central PMCID: PMC5936816.

Nadtochiy SM, Wang YT, Zhang J, Nehrke K, Schafer X, Welle K, Ghaemmaghani S, Munger J, Brookes PS. Potential mechanisms linking SIRT activity and hypoxic 2-hydroxyglutarate generation: no role for direct enzyme (de)acetylation. *Biochem J*. 2017 Aug 10;474(16):2829-2839. doi: 10.1042/BCJ20170389. PubMed PMID: 28673962; PubMed Central PMCID: PMC5562404.

Papadakos, Peter

Schreiber A, Yildirim F, Ferrari G, Antonelli A, Delis PB, Gunduz M, Karcz M, **Papadakos P**, Cosentini R, Dikmen Y, Esquinas AM. Non-Invasive Mechanical Ventilation in Critically Ill Trauma Patients: A Systematic Review. *Turkish journal of anaesthesiology and reanimation*. 2018;46(2):88-95.

Pyne, Sonia

Childs S, **Pyne S**, Nandra K, Bakhsh W, Mustafa SA, Giordano BD. The Effect of Intra-articular Cocktail Versus Femoral Nerve Block for Patients Undergoing Hip Arthroscopy. *Arthroscopy : the journal of arthroscopic & related surgery : official publication of the Arthroscopy Association of North America and the International Arthroscopy Association*. 2017;33(12):2170-2176.

Smith, Daryl

Edwards RR, Harris RE, Wager TD, Arendt-Nielsen L, Burke LB, Carr DB, Chappell A, Farrar JT, Freeman R, Gilron I, Goli V, Haeussler J, Jensen T, Katz NP, Kent J, Kopecky EA, Lee DA, Maixner W, Markman JD, McArthur JC, McDermott MP, Parvathani L, Raja SN, Rappaport BA, Rice ASC, Rowbotham MC, Tobias JK, Wasan AD, Witter J. *The Potential Role of Sensory Testing, Skin Biopsy, and Functional Brain Imaging as Biomarkers in Chronic Pain Clinical Trials: IMMEDIATE* Considerations. J Pain. 2017 Jul;18(7):757-777. doi: 10.1016/j.jpain.2017.02.429. Epub 2017 Feb 27. Review. PubMed PMID: 28254585; PubMed Central PMCID: PMC5484729.

Rothstein D, Kitt RA, **Smith SM**, Abdi S, Engle MP, McDermott MP, Raja SN, Turk DC, Dworkin RH, Gewandter JS. *Reporting of Design Features and Analysis Details in Randomized Clinical Trials of Procedural Treatments for Cancer Pain: An ACTION Systematic Review*. Reg Anesth Pain Med. 2017 May/Jun;42(3):392-399. doi: 10.1097/AAP.0000000000000553. Review. PubMed PMID: 28085789.

Gewandter JS, Burke L, Cavaletti G, Dworkin RH, Gibbons C, Gover TD, Herrmann DN, McArthur JC, McDermott MP, Rappaport BA, Reeve BB, Russell JW, Smith AG, **Smith SM**, Turk DC, Vinik AI, Freeman R. *Content validity of symptom-based measures* (e)(4)-(a)-5(L)(a)-5(L)(a)-1(w)(6)(36 8F)7-1..-5(L)(a)(B-7(w)(6)(as))-8(e)-t-(r)h1(P)-(e)-ap3(pt)..-5(Lo)-1(m

2018 May 17. doi: 10.1213/ANE.0000000000003409. [Epub ahead of print] PubMed
PMID: 29782404.

Williams MR, Nayshtut M, Hoefnagel A, McKeown A, Carlson DW, Cravero J,
Lightdale J, Mason KP, Wilson S, Turk DC, Dworkin RH, **Ward DS**. *Efficacy Outcome
Measures for Pediatric Procedural Sedation Clinical Trials: An ACTION Systematic
Review*. *Anesth Analg*. 2018 Mar;126(3):956-967. doi: 10.1213/ANE.0000000000002456.
PubMed PMID: 28922236.

Ward DS, Williams MR, Turk DC, Dworkin RH, Sessler DI, Dexter F; SCEPTER

~~2018 May 17. doi: 10.1213/ANE.0000000000003409. [Epub ahead of print] PubMed PMID: 29782404.~~

doi: 10.1213/ANE.0000000000001566. PubMed PMID: 27622720.

Wojtczak, Jacek

Andruszkiewicz P, Sobczyk D, Nycz K, Gorkiewicz-Kot I, Zietkiewicz M, Wierzbicki K, **Wojtczak J**, Kowalik I. A comparison of the ultrasound measurement of the inferior vena cava obtained with cardiac and convex transducers.