



## Recent Campbell Foundation Publications

Amoli MA, Flynn JM, Edmonds EW, Glotzbecker MP, Kelly DM, Sawyer JR. Gender Differences in Pediatric Orthopaedics: What Are the Implications for the Future Workforce? *Clinical Orthopaedics and Related Research*. September 2016, Volume 474, Issue 9, pp 1973-1978. First online: 15 July 2016.

Avilucea FR, Triantafillou K, Whiting PS, Periz EA, Mir HR. Suprapatellar Intramedullary Nail Technique Lowers Rate of Malalignment of Distal Tibia Fractures. *J Orthop Trauma*. 2016 May 19 [Epub ahead of print]. PMID: 27218695.

Beason AM, Zhang H, Anoushiravani AA, Sayeed Z, Chambers MC, El-Othmani MM, Mihalko WM, Saleh KJ. Postoperative Radiographic Assessment of the Vega Posterior-Stabilized TKA. *Orthopedics*. 2016 May;39(3 Suppl):S56-60. doi: 10.3928/01477447-20160509-19. PMID: 27219730.

Bell A, Templeman D, Weinlein JC. Nonunion of the Femur and Tibia: An Update. *Orthop Clin North Am*. 2016 Apr;47(2):365-75. PMID: 26772945.

Bettin CC, Ishikawa SN. Complications in foot and ankle surgery in smokers. *COP*. 2016;27(2):146-150.

Bettin CC, Weinlein JC, Toy PC, Heck RK. Distal Femoral Replacement for Acute Distal Femoral Fractures in Elderly Patients. *J Orthop Trauma*. 2016 Apr 12 [Epub ahead of print] PMID: 27078131.

Calandruccio JH, Gear BJ, Mauck BM, Sawyer JR, Toy PC, Weinlein JC. Common Complications in Orthopedics. *Orthopedic Clinics*, Vol. 47, Issue 2, i. DOI: [http://dx.doi.org/10.1016/S0030-5898\(15\)00257-6](http://dx.doi.org/10.1016/S0030-5898(15)00257-6). Published in issue: April 2016.

Calandruccio JH, Gear BJ, Mauck BM, Sawyer JR, Toy PC, Weinlein JC. Orthopedic Urgencies and Emergencies. *Orthopedic Clinics*, Vol. 47, Issue 3, i. DOI: [http://dx.doi.org/10.1016/S0030-5898\(16\)30007-4](http://dx.doi.org/10.1016/S0030-5898(16)30007-4). Published in issue: July 2016.

Canale, ST. Orthopaedics and Comorbidities *COP*. 27(2):123-124, March/April 2016.

Chambers MC, El-Othmani MM, Sayeed Z, Anoushiravani A, Schnur AK, Mihalko WM, Saleh KJ. Economics of All-Polyethylene Versus Metal-Backed Tibial Prosthesis Designs. *Orthopedics*. 2016 May;39(3 Suppl):S61-6. doi: 10.3928/01477447-20160509-18. PMID: 27219732.

Cho H, Bhatti Fu, Lee S, Brand DD, Yi AK, Hasty KA. In Vivo Dual Fluorescence Imaging to Detect Joint Destruction. *Artif Organs*. 2016 May 16. [Epub ahead of print]. PMID: 27183538.



Cho H, Bhatti FU, Yoon TW, Hasty KA, Stuart JM, Yi AK. Non-invasive dual fluorescence in vivo imaging for detection of macrophage infiltration and matrix metalloproteinase (MMP) activity in inflammatory arthritic joints. *Biomed Opt Express*. 2016 Apr 14;7(5):1842-52. PMID: PMC4871085.

Cho H, Holt DC 4rd, Smith R, Kim SJ, Gardocki RJ, Hasty KA. The Effects of Platelet-Rich Plasma on Halting the Progression in Porcine Intervertebral Disc Degeneration. *Artif Organs*. 2016 Feb;40(2):190-5. PMID: 26147759.

Davidson AR, Loftis CM, Throckmorton TW, Kelly DM. Accessibility and Availability of Online Information for Orthopaedic Surgery Residency Programs. *Iowa Orthop J*. 2016; 36: 31–36. PMCID: PMC4910793.

de Mendonça RG, Sawyer JR, Kelly DM. Complications after surgical treatment of adolescent idiopathic scoliosis. *Orthop Clin North Am*. 2016 Apr;47(2):395-403. PMID: 26772948.

Fournier M, Hallock J, Mihalko WM. Preoperative Optimization of Total Joint Arthroplasty: Obesity. *J of Arthroplasty*. 2016 March 21 [Epub ahead of print] doi: <http://dx.doi.org/10.1016/j.arth.2016.02.085>.

Garg S, Cyr M, St. Hilaire T, Flynn T, Carry P, Glotzbecker M, Smith JT, Sawyer JR, Pahys J, Luhmann S & others. Variability of Surgical Site Infection With VEPTR at Eight Centers: A Retrospective Cohort Analysis. *Spine Deformity*. January 2016. 4(1):59-64.

Ginnetti M, El-Othmani MM, Wright E, Tzeng TH, Saleh J, Lane JM, Mihalko WM, Saleh KJ. Effect of Vitamin D on Joint Replacement Outcomes. *Instr Course Lect*. 2016;65:521-30. PMID: 27049217.

Glotzbecker MP, Shore BJ, Fletcher ND, Larson AN, Hydorn CR, Sawyer JR. Practice Management Committee of the Pediatric Orthopaedic Society of North America. Early Career Experience of Pediatric Orthopaedic Fellows: What to Expect and Need for Their Services. *J Pediatr Orthop*. 2016 June;36(4):429-32. PMID: 25851674.

Goodman SB, Mihalko WM, Anderson PA, Sale K, Boxic KJ. Introduction of New Technologies in Orthopaedic Surgery. *JBJS Reviews*. 2016;4(5):e5:Http://dx.doi.org/10.2016/JBJS.RVW.O.00067.

Gear BJ. Surgical procedures & complications in midfoot Charcot neuroarthropathy. *COP*. 2016;27(2):151-155.

Gear BJ. Review of Talus Fractures and Surgical Timing. *Orthop Clin North Am*. 2016 Jul;47(3):625-37. Epub 2016 Apr 23. PMID: 27241385.



Gunzenhauser J, Throckmorton TW. Biomaterials in Total Shoulder Arthroplasty. *TSES*. 2016 March; 17(1): 2-4.

Hakki S, El-Othmani MM, Gabriel C, Mihalko WM, Saleh KJ. Assessing Tibial Tray Rotation in TKA: A Cadaveric Study. *Orthopedics*. 2016 May;39(3 Suppl):S67-71. doi: 10.3928/01477447-20160509-20. PMID: 27219733.

Harmer L, Throckmorton TW, Sperling JW. Total shoulder arthroplasty: are the humeral components getting shorter? *Current Reviews in Musculoskeletal Medicine*. [22 January 2016 online.] DOI 10.1007/s12178-016-9313-3. 2016 Mar;9(1):17-22.

Hyden J, Petty B. Sideline Management of Concussion. *Phys Med Rehabil Clin n Am*. 2016 May;27(2):395-409. PMID: 27154852.

Kavanaugh TE, Werfel TA, Cho H, Hasty KA, Duvall Cl. Particle-based Technologies for Osteoarthritis Detection and Therapy. *Drug Deliv Transl Res*. 2016 April;6(2):132-45. PMID: 25990835.

Kelly DM. Flexible Intramedullary Nailing of Pediatric Humeral Fractures: Indications, Techniques, and Tips. *J Pediatr Orthop*. 2016 Jun; 36 Suppl 1:s49-55. PMID: 27152902.

Lin CA, Bhandari M, Guyatt G, Walter SD, Schemitsch EH, Swiontkowski M, Sanders D, Tornetta P 3rd; SPRINT Investigators. Does Participation in a Randomized Clinical Trial Change Outcomes? An Evaluation of Patients Not Enrolled in the SPRINT Trial. *J Orthop Trauma*. 2016 Mar;30(3):156-61. PMID: 27326429.

Loftis CM, Sawyer JR, Eubanks JW 3rd, Kelly DM. Impact of Child Safety Restraint Status and Age in Motor Vehicle Collisions in Predicting Type and Severity of Bone Fractures and Traumatic Injuries. *J Pediatr Orthop*. 2016 Jan 11 [Epub ahead of print] PMID: 26756986.

Mahmood BM, El-Othmani MM, Mihalko WM, Jiranek WA, Paproski WG, Saleh KJ. Revision in the Setting of Periprosthetic TKA Infection: Indications, Contraindications, and Postoperative Outcomes. *AAOS ICL* vol. 66.

Mahmood BM, El-Othmani MM, Mihalko WM, Jiranek WA, Paproski WG, Saleh KJ. Periprosthetic Knee Infections: Prevention and Diagnosis. *AAOS ICL* vol. 66.

Martinez SF. A New Interventional Field? *Phys Med Rehabil Clin N Am*. 2016 Aug;27(3):xiii-xiv. doi: 10.1016/j.pmr.2016.06.010. No abstract available. PMID: 27468677.

Martinez SF. It Takes a Team Effort. *Phys Med Rehabil Clin N Am*. 2016 May;27(2):xi-xii. PMID: 27154861.



Martinez SF. Supporting a Running Lifestyle. *Phys Med Rehabil Clin N Am*. 2016 Feb;27(1):xiii-xiv. PMID: 266161689.

Martus JE, Otsuka NM, Kelly DM. What's New in Pediatric Orthopaedics? *J Bone Joint Surg Am*. 2016 Feb 17;93(4):317-24. doi: 10.2106/JBJS.15.01236. PMID: 26888682.

Mihalko WM, Lowell J, Higgs G, Kurtz S. Total Knee Post-Cam Design Variations and Their Effects on Kinematics and Wear Patterns. *Orthopedics*. 2016 May;39(3 Suppl):S45-9. doi: 10.3928/01477447-20160509-14. PMID: 27219727.

Miller DC, Whittington KB, Brand DD, Hasty KA, Rosloniec EF. The CII-specific autoimmune T-cell response develops in the presence of FTY720 But is Regulated by Enhanced Treg Cells That Inhibit the Development of Autoimmune arthritis. *Arthritis Res Ther*. 2016 Jan 12;18(1):8. PMID: 26757712.

Mulligan RP, Azar FM, Throckmorton TW. Is a generic targeting guide useful for glenoid component placement in shoulder arthroplasty? *JSES*. 2016;25(4):e90-95. PMID: 26652695.

Mulligan RP, McCarthy KJ, Grear BJ, Richardson DR, Ishikawa SN, Murphy GA. Psychosocial Risk Factors for Postoperative Pain in Ankle and Hindfoot Reconstruction. *Foot Ankle Int*. 2016 Jun 16. pii: 1071100716655142. [Epub ahead of print] PMID: 27316667.

Murphy RF, Moisan A, Kelly DM, Warner WC, Jones TL, Sawyer JR. Use of Vertical Expandable Prosthetic Titanium Rib (VEPTR) in the Treatment of Congenital Scoliosis Without Fused Ribs. *J Pediatr Orthop*. 2016 Jun;36(4):329-35. PMID: 25887832.

Naranje SM, Erali RA, Warner WC, Sawyer JR, Kelly DM. Epidemiology of Pediatric Fractures Presenting to Emergency Departments in the United States. *J Pediatr Orthop*. 2016 Jun; 36(4):e45-8. PMID: 26177059.

Naranje SM, Gilbert SR, Stewart MG, Rush JK, Bleakney CA, McKay JE, Warner WC, Kelly DM, Sawyer JR. Gunshot-associated Fractures in Children & Adolescents Treat at Two Level 1 Pediatric Trauma Centers. *JPO*. January 2016; 36(1):1-5. doi:10.1097/BPO.0000000000000401 PMID: 25633608.

Obremskey W, Agel J, Archer K, To P, Tornetta P 3rd; SPRINT Investigators. Character, Incidence, and Predictors of Knee Pain and Activity After Infrapatellar Intramedullary Nailing of an Isolated Tibia Fracture. *J Orthop Trauma*. 2016 Mar;30(3):135-41. doi: 10.1097/BOT.0000000000000475. PMID: 26496180.



Pretell-Mazzini J, Kelly DM, Sawyer JR, Esteban E, Spence DD, Warner WC, Beaty JH. Outcomes and Complications of Tibial Tubercle Fractures in Pediatric Patients: A Systematic Review of the Literature. *J Pediatr Orthop*. 2016 Jul-Aug;36(5):440-446. PMID: 25887827.

Rivera CE. Core and Lumbopelvic Stabilization in Runners. *Phys Med Rehabil Clin N Am*. 2016 Feb;27(1):319-37. PMID: 26616187.

Roaten J, Spence DD. Complications Related to the Treatment of Slipped Capital Femoral Epiphysis. *Othop Clin N Am*. 2016 Apr;47(2):405-13. PMID: 26772979.

Roberson T, Azar FM, Miller RH, Throckmorton TW. Predictors of Early Complications After Rotator Cuff Repair (notified in 2014). *TSES*. June 2016. Vol 17(2): 88-92.

Roberson T, Throckmorton TW. Pain after rotator cuff repair. *COP*. 2016;27(2):156-160.

Rudloff MI, Triantafillou KM. Management of Pelvic Ring Injuries in Unstable Patients. *Orthop Clin North Am*. 2016 Jul;47(3):551-63. doi: 10.1016/j.ocl.2016.03.009. Review. PMID: 27241378.

Salb KN, Wido DM, Stewart TE, DiAngelo DJ. Development of a Robotic Assembly for Analyzing the Instantaneous Axis of Rotation of the Foot Ankle Complex. *Appl Bionics Biomech*. 2016;2016:5985137. doi: 10.1155/2016/5985137. Epub 2016 Mar 23. PMID: 27099456

Saleh J, Wright E, El-Othmani MM, Lane JM, Mihalko WM, Saleh KJ. Cardiovascular Considerations for Joint Replacement Surgery. *Instr Course Lect*. 2016;65:477-86. PMID: 27049213.

Saleh KJ, El Othmani MM, Tzeng TH, Mihalko WM, Chambers MC, Grugg TM. Acrylic Bone Cement in Total Joint Arthroplasty: A Review. *J Orthop Res*. 2016 Feb 6. [Epub ahead of print]. PMID: 26852143.

Saleh KJ, Kurdi A, El-Othmani MM, Voss B, Tzeng TH, Saleh J, Lane JM, Mihalko WM. Perioperative Treatment of Patients with Rheumatoid Arthritis. *Instr Course Lect*. 2016;65:497-508. PMID: 27049215.

Sanford BA, Williams JL, Zucker-Levin A, Mihalko WM. Asymmetric Ground Reaction Forces and Knee Kinematics During Squat After Anterior Cruciate Ligament (ACL) Reconstruction. *Knee*. 2016 June 1. pii: S0968-0160(15)00244-6. doi: 10.1016/j.knee.2015.11.001. [Epub ahead of print].

Sanford BA, Williams JL, Huffman KD, Zucker-Levin AR, Mihalko WM. Tibiofemoral Rotation During Sit-to-Stand Activity After TKA. *Orthopedics*. 2016 May;39(3 Suppl):S41-4. doi: 10.3928/01477447-20160509-13. PMID: 27219726.



Sawyer JR. The Changing Face of Pediatric Orthopedics. *Am J Orthop* (Belle Mead NJ) > 2016;45(1):10-1. PMID: 26761910.

Sayeed Z, Anishouravani AA, El-Othmani, Chambers MC, Mihalko WM, Jiranek WM, Paproski WG, Saleh KJ. Two-Stage Revision and Alternative Treatment Modalities in Infected TKA. *AAOS ICL* vol. 66.

Sielatycki JA, Sawyer JR, Mir HR. A Supply and Demand Analysis of the Orthopaedic Trauma Surgeon Workforce in the United States. *JOT*. 2016 Jan 30. [Epub ahead of print] PMID: 26840016.

Spence DS, DiMauro JP, Glotzbecker PE, Hedequist DJ, Shore BJ. Osteonecrosis After Femoral Neck Fractures in Children and Adolescents: Analysis of Risk Factors. *JPO*. 2016 March, 36(2): 111-118. PMID: 25730381.

Stewart MS, Bettin CC, Ramsey MT, Ishikawa SN, Murphy GA, Richardson DR, Tolley EA. Effect of Obesity on Outcomes of Forefoot Surgery. *FAI*. January 7, 2016. doi: 10.1177/107110071562209. PMID: 26747294.

Tauchi R, Tsuji T, Cahill PJ, Flynn JM, Flynn JM, Glotzbecker M, El-Hawary R, Heflin JA, Imagama S, Joshi Ap, Nohara A, Ramirex N, Roye DP Jr, Saito T, Sawyer JR, Smith JT, Kawakami N. Reliability analysis of Cobb angle measurements of congenital scoliosis using x-ray and 3D-CT images. *Eur J Orthop Surg Traumatol*. 2016 Jan;26(1):53-7. PMID: 26377663.

Throckmorton TW. Glenohumeral arthritis: current indications for hemiarthroplasty versus total shoulder arthroplasty. *TSES*. 2016 March; 17(1):25-26.

Walters JD, Barkoh K, Smith RA, Azar FM, Throckmorton TW. Younger patients report similar activity levels as older patients following RTSA. *JSES*. 2016 March 30 pii: S1058-2746(16)00034-3. doi: 10.1016/j.jse.2016.01.011. [Epub ahead of print].

Wang L, Jiao Y, Wang Y, Zhang M, Gu W. Self-Confirmation and Ascertainment of the Candidate Genomic Regions of Complex Trait Loci - A None-Experimental Solution. *PLoS One*. 2016 May 20;11(5):e0153676. PMCID: PMC 4874692.

Wang L, Xiao J, Gu W, Chen H. Sex Difference of Egfr Expression and Molecular Pathway in the Liver: Impact on Drug Desing and Cancer Treatments? *J Cancer*. 2016 Mar 20;7(6):671-80. PMCID: PMC4829553.

Wodowski AJ, Swigler CW, Liu H, Nord KM, Toy PC, Mihalko WM. Proprioception and Knee Arthroplasty: A Literature Review. *Orthop Clin North Am*. 2016 Apri;47(2):301-9. PMID: 26772938.





Wright E, Tzeng TH, Ginnetti M, El-Othmani MM, Saleh JK, Saleh J, Lane JM, Mihalko WM, Saleh KJ. Effect of Smoking on Joint Replacement Outcomes: Opportunities for Improvement Through Preoperative Smoking Cessation. Instr Course Lect. 2016;65:509-20. PMID: 27049216.