

MedStar Health Orthopaedics Research Publications and Presentations

2018-2019

Published and In Press Journal Articles

1. Atwater LC, Aynardi MC, Melvani R, Schon LC, Miller SD. Safety of dorsolateral talonavicular joint fixation in modified double arthrodesis: an anatomic study. *Curr Orthop Pract* 2018;29:265-9.
2. Aynardi MC, Zahoor T, Mitchell R, Loube J, Feltham T, Manandhar L, Paudel S, Schon LC, Zhang Z. Orthotopic transplantation of Achilles tendon allograft in rats: with or without incorporation of autologous mesenchymal stem cells. *Cell Transplantation* 2018;27:245-55.
3. Carpenter SR, Stroh DA, Melvani R, Parks BG, Camire LM, Murthi AM. Distal triceps transosseous cruciate versus suture anchor repair using equal constructs: a biomechanical comparison. *J Shoulder Elbow Surg* 2018;27:2052-6.
4. Cunningham BW, Sponseller PD, Murgatroyd AA, Kikkawa J, Tortolani PJ. A comprehensive biomechanical analysis of sacral alar iliac fixation: an invitro human cadaveric model. *J Neurosurg Spine* 2019;30:367-75.
5. de Cesar Netto C, da Fonseca LF, Nascimento FS, O'Daley AE, Tan EW, Dein EJ, Godoy-Santos AL, Schon LC. Diagnostic and therapeutic injections of the foot and ankle: an overview. *Foot Ankle Surg* 2018;24:99-106.
6. de Cesar Netto C, Shakoob D, Dein EJ, Zhang H, Thawait GK, Richter M, Ficke JM, Schon LC, Demehri S. Influence of investigator experience on reliability of adult acquired flatfoot deformity measurements using weightbearing computed tomography. *Foot Ankle Surg* 2019;In press, Epub ahead of print
7. de Cesar Netto C, Fonseca L, Fritz B, Stern SE, Raithel E, Nittka M, Schon LC, Fritz J. Metal artifact reduction MRI of total ankle arthroplasty implants. *Euro Radiol* 2018;28:2216-27.
8. de Cesar Netto C, Godoy-Santos AL, Pontin P, Natalino RJ, Pereira CA, Lima FD, da Fonseca LF, Staggars R, Cavinatto LM, Schon LC, et al. Novel animal model for Achilles tendinopathy: controlled experimental study of serial injections of collagenase in rabbits. *PLoS ONE* (online publication) 2018; accessed 1/14/19 <https://doi.org/10.1371/journal.pone.0192769>
9. de Cesar Netto C, Chinanuvathana A, Fonseca L, Dein EJ, Tan EW, Schon LC. Outcomes of flexor digitorum longus (FDL) tendon transfer in the treatment of Achilles tendon disorders. *Foot Ankle Surg* 2019;In press Epub ahead of print
10. Dombrowski ME, Yasui Y, Murawski CD, Fortier LA, Giza E, Haleem AM, Hamid K, Tuan R, Zhang Z, Schon LC, et al. Conservative management and biological treatment

strategies: proceedings of the international consensus meeting on cartilage repair of the ankle. *Foot Ankle Int* 2018;39:9S-15S.

11. Douoguih WA, Goodwin DS, Churchill RW, Paulus M, Maxwell AB. Conjoined tendon transfer for traumatic anterior glenohumeral instability in patients with large bony defects and anterior capsulolabral deficiency. *Arthroscopy* 2018;34:12-20.
12. Foss KB, Le Cara Ed, McCambridge T, Hinton RY, Kushner A, Myer GD. Epidemiology of injuries in women's lacrosse: implications for sport, level and sex specific injury prevention strategies. *Clin J Sports Medicine* 2018;28:406-13.
13. Khodarahmi I, Haroun RR, Lee M, Fung GSK, Fuld MK, Schon LC, Fishman EK, Fritz J. Metal artifact reduction computed tomography of arthroplasty implants: effects of combined modeled iterative reconstruction and dual-energy virtual monoenergetic extrapolation at higher photon energies. *Invest Radiol* 2018;53:728-35.
14. Lee DC, de Cesar Netto C, Staggars R, Siegel R, Chen R, Bae S-Y, Schon LC. Clinical and radiographic outcomes of the Kramer osteotomy in the treatment of bunionette deformity. *Foot Ankle Surg* 2018;24:530-4.
15. Lobao MH, Canham RB, Melvani RT, Abboud JA, Parks BG, Murthi AM. Biomechanics of biodegradable subacromial balloon spacer in the setting of irreparable superior rotator cuff tears. *J Bone Joint Surg Am* 2019; In press
16. Lobao MH, Murthi AM. Long head of biceps tendon transfer for anterior shoulder instability. *Tech Shoulder Elbow Surg* 2018;19:175-8.
17. Lobao MH, Murthi AM. Pitfalls of revision reverse replacement part I: dealing with instability and glenoid bone loss. *Ann Joint* 2018;3:99.
18. McAfee PC, Cunningham B, Mullinix K, Dobbs E, Eiserman L. Middle-column gap balancing and middle-column mismatch in spinal reconstructive surgery. *Int J Spine Surg* 2018;12:160-71.
19. Mitchell R, Molligan J, Rooney S, Cho Y, Schon L, Zhang Z. Functionally compromised synovium-derived mesenchymal stem cells in charcot neuroarthropathy. *Exp Mol Pathol* 2018;104:82-8.
20. O'Neil JT, Guyton GP. Revision of surgical lateral ankle ligament stabilization. *Foot Ankle Clin N Am* 2018;23: 605-24.
21. Sando M, Grieshaber JA, Kim H, Henn RF, Dreese JC. Evaluation of risk to the suprascapular nerve during arthroscopic SLAP repair: is a posterior portal safer? *Arthroscopy* 2018;34:389-95.
22. Sherman TI, Guyton GP. Minimal incision/minimally invasive medializing displacement calcaneal osteotomy. *Foot Ankle Int* 2018;39:119-28.
23. Stroh DA, DeFontes K, Paez AG, Parks BG, Guyton GP. Distal fibular malrotation and lateral ankle contact characteristics. *Foot Ankle Surg* 2019;25:90-3.

24. Ulrich S, Parks BG, Tsai MA, Miller SD. Distribution of subchondral bone puncture strength in the talus and tibial plafond: a biomechanical study. *Foot Ankle Spec* 2018;11:44-8.
25. Zahoor T, Mitchell R, Bhasin P, Guo Y, Paudel S, Schon LC, Zhang Z. Effect of low-intensity pulsed ultrasound on joint injury and posttraumatic osteoarthritis: an animal study. *Ultrasound Med Biol* 2018;44:234-42.

Published Books and Book Chapters

1. Barr CR, Schon LC. The diabetic foot. In: Robinson AHN, Brodsky JW, Negrine J, editors. *Core Topics in Foot and Ankle Surgery*. New York: Cambridge University Press; 2018. p. 321-41.
2. Canham RB, Murthi AM. Arthroscopic distal clavicle resection. In: Lee D, Neviasser RJ, editors. *Operative Techniques: Shoulder & Elbow Surgery*. 2nd ed. Elsevier: Philadelphia; 2019. p. 250-6.
3. Guyton GP. Peroneal groove deepening for peroneal subluxation. In: Raikin SM, editor. *Foot and Ankle Surgery: Tricks of the Trade*. New York: Thieme Medical Publishers, Inc; 2018.
4. Hinton RY, Levine RG, Dreese JC. Patellar instability. In: Scott WN, editor. *Insall & Scott Surgery of the Knee*. 6th ed. Philadelphia, Pa: Elsevier; 2018. p. 1289-306.
5. Lankachandra M, Murthi AM. Management of the failed hemiarthroplasty. In: Tashjian RZ, editor. *Complex and Revision Shoulder Arthroplasty: An Evidence-Based Approach to Evaluation and Management*. Springer; 2019. p. 129.
6. Mousavian A, Schon LC. The Zimmer trabecular metal total ankle system. In: Raikin SM, editor. *Foot and Ankle Surgery: Tricks of the Trade*. New York: Thieme Medical Publishers, Inc; 2018.
7. Sayde WM, Dreese JC. Compression aperture fixation of soft-tissue anterior cruciate ligament reconstruction. In: Prodromos CC, Andrews JR, Brown TD, Fu FH, Georgoulis A, Gobbi A, et al., editors. *The Anterior Cruciate Ligament: Reconstruction and Basic Science*. 2nd ed. Philadelphia: Elsevier; 2018. p. 280-3.
8. Stroh DA, Moatz B, Tortolani PJ. Rehabilitation after spine surgery - relevant anatomy. In: Green A, Hayda R, Hecht AC, editors. *Postoperative Orthopaedic Rehabilitation*. Philadelphia: Wolters-Kluwer; 2018. p. 545-55.
9. Tortolani PJ. Multiple level interbody fusion: how do two-level fusion techniques compare between open and MIS? In: Vaccaro AR, Fessler RG, Eck JC, Sandhu F, Voyadzis JM, Kepler CK, editors. *Controversies in Spine Surgery: MIS versus OPEN*. 2nd ed. Thieme Medical Publishers; 2018.
10. Tortolani PJ. Posterior lumbar interbody fusion. In: Eck JC, Vaccaro AR, editors. *Surgical Atlas of Spinal Operations*. 2nd ed. New Delhi: Jaypee Brothers Medical Publishers Pvt. Ltd.; 2018.

Project Awards

1. Canham, RB, Melvani, R, Parks, BG, Cox, R, Abboud, JA, Murthi, AM. Evaluation of a biodegradable subacromial ballon spacer on glenohumeral joint biomechanics in the setting of irreparable superior rotator cuff tears. Winner of the Roger H. Michael Fellow Research Award for Outstanding Achievement in Orthopedic Research by MedStar Union Memorial Hospital, Department of Orthopedics, June 30, 2018.
2. Tartaglione, JP, Parks, BG, Hasenboehler, EA, Thamyongkit, S, Schon, LC. Early weight bearing after operatively treated trimalleolar ankle fractures with large posterior malleolar fragments: a biomechanical analysis of screw versus plate screw constructs. Winner of the Roger H. Michael Fellow Research Award for Outstanding Achievement in Orthopedic Research by MedStar Union Memorial Hospital, Department of Orthopedics, June 30, 2018.