

Christopher P. Miller

Education and Work Experience

- 2001-05 University of Pennsylvania, Philadelphia, PA
Bachelor of Arts (BA), May 2005, *Summa Cum Laude*
Major: Biology; Minor: Chemistry
- 2005-10 Yale University, New Haven, CT
Doctor of Medicine (MD), June 2010
Master of Health Science (MHS, Clinical research pathway), June 2010
- 2010-15 Yale New Haven Hospital, New Haven, CT
Internship, General Surgery
Resident, Orthopaedics and Rehabilitation
Chief Resident, Orthopaedics and Rehabilitation
- 2015-16 Brigham and Women's Hospital, Boston, MA
Harvard Foot and Ankle Fellowship
- 2016-20 Instructor, Orthopaedic Surgery
2021- Assistant Professor, Orthopaedic Surgery
Chief, Foot and Ankle Surgery
Carl J. Shapiro Department of Orthopaedics
Beth Israel Deaconess Medical Center, Boston, MA
Harvard Medical School
Boston, MA
- 2021- Medical Director HMFP Foot and Ankle Center

Other Training and Experience

1. MIFAS Basic and Advanced Minimally Invasive Foot and Ankle Surgery. MIFAS by Gremp, Barcelona, Spain. June 2021
2. Leadership Development for Physicians in Academic Health Centers, Harvard T.H. Chan School of Public Health, Executive Education, 11/2021

Medical License and Board Certification

1. Massachusetts Board of Registration of Medicine 2015-
2. American Board of Orthopedic Surgeons – Board Certified 2018-

Journal Reviewer and Development

1. Foot and Ankle International
2. Journal American Academy of Orthopaedic Surgery
3. Journal Bone and Joint Surgery – Knowledge+ Question Author 2016-2019
4. Foot and Ankle International Electronic Media Editorial Board, Founding member 2019-2020

Research Fellowships

- 2006 Medical Student Summer Research Fellowship
2008-09 Doris Duke Clinical Research Fellowship

Legal Work, Experience and Training

- 2018 Brigham and Associates, Inc. AMA Guides to the Evaluation of Permanent Impairment, Sixth Edition Online Course and Training
2018- Case reviews, Narrative report preparation, Permanent impairment ratings, Independent medical examinations, Expert witness testimony

Journal Articles

1. Momenzadeh K, Williams CE, Czerwonka N, Kwon JY, Nazarian A, **Miller CP**. Contamination of The Mini C-Arm During Foot & Ankle Surgery. Accepted for publication *Foot & Ankle Int*, *Accepted February 2021*
2. Ibrahim IO, Velasco BT, Ye MY, **Miller CP**, Kwon JY. Syndesmotic Screw Breakage May Be More Problematic Than Previously Reported: Increased Rates of Hardware Removal Secondary to Pain With Intraosseous Screw Breakage [published online ahead of print, 2020 Jun 19]. *Foot Ankle Spec*. 2020;1938640020932049. doi:10.1177/1938640020932049
3. O'Donnell SW, Velasco BV, Whitehouse B, Kwon JY, **Miller CP**. Surgical Strategies: Limited Open Achilles Tendon Repair in Supine Position with Modified Ring Forceps: A Technique Tip. *Foot Ankle Spec*. 2019;12(6):563-568. doi:10.1177/1938640019863268
4. Stenquist D, Velasco BT, Cronin PK, et al. Syndesmotic Fixation Utilizing a Novel Screw: A Retrospective Case Series Reporting Early Clinical and Radiographic Outcomes [published online ahead of print, 2019 Jul 27]. *Foot Ankle Spec*. 2019;1938640019866322. doi:10.1177/1938640019866322
5. Macaulay A, Nandyala SV, **Miller CP**, Ghorbanhoseini M, Walley KC, Kwon JY. Potential for Bias and the American Orthopaedic Foot and Ankle Society Ankle-Hindfoot Scoring System. *Foot Ankle Spec*. 2018;11(5):416-419. doi:10.1177/1938640017740675
6. Chien BY, Stupay KL, **Miller CP**, Smith JT, Briceno J, Kwon JY. Does the quality of preoperative closed reduction of displaced ankle fractures affect wound complications after surgical fixation?. *Injury*. 2018;49(10):1931-1935. doi:10.1016/j.injury.2018.07.013
7. Stupay KL, Briceño J, Velasco BT, **Miller CP**, Kwon JY. Tuber-to-Anterior Process Angle (TAPA): A cadaveric study and surgical technique for placing axial calcaneal screws. *Injury*. 2019;50(7):1398-1403. doi:10.1016/j.injury.2019.05.019
8. Velasco BT, Briceño J, **Miller CP**, et al. Peri-implant fractures around hindfoot fusion nails: A systematic literature review and classification system. *Injury*. 2020;51(7):1497-1508. doi:10.1016/j.injury.2020.04.019
9. Velasco BT, Ye MY, Chien B, Kwon JY, **Miller CP**. Prevalence of Incidental Benign and Malignant Lesions on Radiographs Ordered by Orthopaedic Surgeons. *J Am Acad Orthop Surg*. 2020;28(8):e356-e362. doi:10.5435/JAAOS-D-19-00236
10. Ibrahim IO, Ye MY, Jacobs J, Smith JT, Kwon JY, **Miller CP**. High Burden of Associated Injuries Occurring With Major Fractures of the Talus. *Foot Ankle Int*. 2020;41(3):324-330. doi:10.1177/1071100719892300
11. Kaiser PB, Cronin P, Stenquist DS, **Miller CP**, Velasco BT, Kwon JY. Getting the Starting Point Right: Prevention of Skiving and Fibular Cortical Breach During Suture Button Placement for Syndesmotic Ankle Injuries [published online ahead of print, 2020 Apr 20]. *Foot Ankle Spec*. 2020;1938640020914679. doi:10.1177/1938640020914679
12. **Miller CP**, Smith SE, Goodman EM, Fisk E, Smith JT, Chiodo CP, Bluman EM. Peroneal Sheath

- Volumes are Greater in Patients with Peroneal Pathology Compared to Controls. *Submitted*. FAS
13. Velasco BT, Chien B, Kwon JY, **Miller CP**. Online Ratings and Reviews of American Orthopedic Foot and Ankle Surgeons. *In press*. *Foot and Ankle Specialist*
 14. Briceno J, Chien B, Velasco, B, **Miller, CP**, Kwon JY. Ankle Gravity Stress View in the Seated Position: A Technical Tip. *Accepted*. *Injury*
 15. **Miller CP**, Paulus, M, Kreulen C, Harris T, Giza E. Biomechanical evaluation of an augmented medial capsular repair for hallux valgus surgery. *Submitted*. *Foot and Ankle International*
 16. Riedel MD, Briceno J, **Miller CP**, Kwon JY. Technical tip: Removal of a broken tri-cortical syndesmotic screw using a "perfect circle" technique. *Injury*. 2018 Apr;49(4):877-880. PMID: 29496318
 17. Chien BY, Stupay KL, **Miller CP**, Smith JT, Briceno J, Kwon JY. Does the quality of preoperative closed reduction of displaced ankle fractures affect wound complications after surgical fixation? *Injury*. 2018 Oct;49(10):1931-1935. PMID: 30077358
 18. Riedel MD, Parker A, Zheng M, Briceno J, Staffa SJ, **Miller CP**, Kaiser PB, Wu JS, Zurakowski D, Kwon JY. Correlation of Soft Tissue Swelling and Timing to Surgery With Acute Wound Complications for Operatively Treated Ankle and Other Lower Extremity Fractures. *Foot Ankle Int*. 2019 Jan 28;1071100718820352. (PMID: 30688533)
 19. Macaulay A, Nandyala SV, **Miller CP**, Ghorbanhoseini M, Walley KC, Kwon JY. Potential for Bias and the American Orthopaedic Foot and Ankle Society Ankle-Hindfoot Scoring System. *Foot Ankle Spec*. 2017 Nov 1. PMID: 29126353
 20. **Miller CP**, Ghorbanhoseini M, Ehrlichman LK, Walley KC, Ghaheri A, Kwon JY. High Variability of Observed Weight Bearing During Standing Foot and Ankle Radiographs. *Foot Ankle Int*. 2017 Jun;38(6):690-693. PMID: 28288520
 21. Riedel MD, **Miller CP**, Kwon JY. Augmenting Suture-Button Fixation for Maisonneuve Injuries With Fibular Shortening: Tehcnique Tip. *Foot Ankle Int* 2017 Oct; 38(10):1146-1151 (PMID: 28748711)
 22. Basques BA, **Miller CP**, Golinvaux NS, Bohl DD, Grauer JN. Risk factors for short-term morbidity and readmission following open reduction and internal fixation of ankle fractures. *Clin Orthop Relat Res* 2015 Mar;473(3):1133-9 (PMID: 25337977)
 23. Basques BA, **Miller CP**, Golinvaux NS, Bohl DD, Grauer JN. Risk factors of thromboembolic events after open reduction internal fixation for ankle fractures. *Am J Orthop*. 2015 Jul;44(7):E220-4 (PMID: 26161767)
 24. Russo GS, Ferrucci AM, **Miller CP**, Dean EW, Strohbehm GW, Dean NM, Sharkey MS. Factors Associated with Transfer of Pediatric Patients with Supracondylar Humerus Fractures to a Level I Pediatric Trauma Center. *Conn Medicine* 2015 Aug vol 79:7, 343-8
 25. Talusan P, **Miller CP**, Save A, Reach J, Brake reaction times do not increase immediately following foot and ankle corticosteroid injections. *Foot Ankle Spec*. 2014 Sep 10 Epub (PMID: 25209215)
 26. Bohl DD, Basques BA, Golinvaux NS, **Miller CP**, Baumgaertner MR, Grauer JN. Extramedullary Versus Intramedullary Implants for Intertrochanteric Hip Fractures: Thirty-day Outcomes Among 4,432 Cases from the ACS-NSQIP Database. *J Bone Joint Surg Am* 2014 Nov 19;96(22):1871-7 (PMID 25410504)
 27. **Miller CP**, Golinvaux NS, Brubacher JW, Yanhong D, Grauer JN. Mortality rates associated with odontoid and subaxial cervical spine fractures. *Am J Orthop* 2015 Jun;44(6):E173-9 (PMID: 26047001)
 28. **Miller CP**, Buerba RA, Leslie MP. Preoperative factors and early complications associated with hemiarthroplasty and total hip arthroplasty for displaced femoral neck fractures. *Geriatr*

- Orthop Surg Rehabil. 2014 Jun;5(12):73-81 (PMID: 25360335)
29. Bohl DD, Gruskay JA, **Miller CP**, Varthi A, Ruiz FK, Grauer JN. Recovery room radiographs not found to have incremental utility above intra-operative images after lumbar fusion procedures. Spine 2013 Oct 15;38(22):1927-33. (PMID: 23883831)
 30. **Miller CP**, Jegede K, Essig D, Garg H, Bible JE, Biswas D, Grauer JN. Efficacy of 2 ceramic bone graft extenders for promoting spinal fusion in a rabbit bone paucity model. Spine 2012 Apr 15;37(8):642-7. (PMID: 21857402)
 31. Essig DA, **Miller CP**, Xiao M, Ivancic P, Jegede K, Badrinath R, Smith BG, Grauer JN. Biomechanical comparison of endplate forces generated by uniaxial screws and monoaxial pedical screws. Orthopedics 2012 Oct;35(10):e1528-32. (PMID: 23027492)
 32. Jegede KA, Ju B, **Miller CP**, Whang P, Grauer JN. Quantifying the variability of financial disclosure information reported by authors presenting research at multiple sports medicine conferences. Am J Othop 2011 Nov;40(11):583-7. (PMID: 22263213)
 33. Jegede KA, **Miller CP**, Bible JE, Whang PG, Grauer JG. The effects of three different types of orthoses on the range of motion of the lumbar spine during fifteen activities of daily living. Spine. 2011 Dec 15;36(26):2346-53. (PMID: 21358469)
 34. **Miller CP**, Brubacher JW, Biswas D, Lawrence BD, Whang PG, Grauer JN. The incidence of noncontiguous spinal fractures and other traumatic injuries associated with cervical spine fractures: a 10 year experience at an academic medical center. Spine. 2011 Sep 1;36(19):1532-40. (PMID: 21242872)
 35. Milewski MD, Cruz AI, **Miller CP**, Peterson AT, Smith BG. Lyme arthritis in children presenting with joint effusions. J Bone Joint Surg Am. 2011 Feb 2;93(3):252-60. (PMID: 21266639)
 36. Ju B, **Miller CP**, Whang PG, Grauer JN. Quantifying the variability of financial disclosure information reported by authors presenting at annual spine conferences. Spine J. 2011 Jan;11(1):1-8. (PMID: 20932807)
 37. Biswas D, Bible JE, Whang PG, **Miller CP**, Jaw R, Miller S, Grauer JN. Augmented demineralized bone matrix: a potential alternative for posterolateral lumbar spinal fusion. Am J Orthop. 2010 Nov;39(11):531-8 (PMID: 21623419)
 38. **Miller CP**, Bible JE, Jegede KA, Whang PG, Grauer JN. The effect of rigid cervical collar height on full, active and functional range of motion during fifteen activities of daily living. Spine. 2010 Dec 15;35(26):E1546-52. (PMID: 21116218)
 39. **Miller CP**, Bible JE, Jegede KA, Whang PG, Grauer JN. Soft and rigid collars provide similar restriction in cervical range of motion during fifteen activities of daily living. Spine. 2010 Jun 1;35(13):1271-8. (PMID: 20512025)
 40. **Miller CP**, Sabino J, Bible JE, Whang PG, Grauer JN. Oblique radiographs compare favorably to computed tomography for the assessment of cervical foraminal dimensions. Am J Orthop 2011 May;40(5):241-5. (PMID: 21734932)
 41. Bible JE, Biswas D, **Miller CP**, Whang PG, Grauer JN. Normal functional lumbar spinal range of motion during fifteen activities of daily living. J Spinal Disord Tech 2010 Feb;23(1):15-21. (PMID: 20065869).
 42. Bible JE, Biswas D, **Miller CP**, Whang PG, Grauer JN. Normal functional cervical spinal range

of motion during fifteen activities of daily living. J Spinal Disord Tech 2010 Apr;23(2):106-12. (PMID: 20051924).

43. **Miller CP**, Simpson AK, Whang PG, et al. Effects of recombinant human bone morphogenetic protein 2 on surgical infections in a rabbit posterolateral lumbar fusion model. Am J Orthop 2009;38:578-84 (PMID: 20049353).
44. Waked WR, Simpson AK, **Miller CP**, Magit DP, Grauer JN. Sterilization wrap inspections do not adequately evaluate instrument sterility. Clin Orthop Relat Res 2007 Sep;462:207-11 (PMID: 17452915).

Chapters and Reviews

1. **Miller CP**, Giza E, Bluman EM. Chronic Peroneal Tendon Injuries. in Chapman's Comprehensive Orthopaedic Surgery 4th Edition. ed: James M, Chapman MW. In press
2. Essig DE, **Miller CP**, Grauer JN. The role for biologics in the aging spine. In: The Comprehensive Treatment of the Aging Spine: Minimally Invasive and Advanced Techniques. Yue JJ, Guyer RD, Johnson JP, Khoo LT, and Hochschuler SH, eds. Elsevier Saunders, Philadelphia 2011; Ch 58, 384-387.
3. Giordano BD, Grauer JN, **Miller CP**, Morgan TL, Rehtine GR. Radiation Exposure Issues in Orthopaedics. J Bone Joint Surg Am. 2011 Jun 15;93(12):e69(1-10). (PMID: 21498490)
4. **Miller CP**, Grauer JN. A review of radiation exposure from musculoskeletal computed tomography. European Musculoskeletal Review 2010; 5:69-72.

Other Publications

1. Kwon JY, Ellington JK, **Miller CP**. Letter to the Editor: Costs and Radiographic Outcomes of Rotational Ankle Fractures Treated by Orthopaedic Surgeons With or Without Trauma Fellowship Training. J Am Acad Orthop Surg. 2019 Feb. PMID: 303207351;27(3):e142-e143
2. Kwon, JY, **Miller CP**. Orthopedics in glass houses. Foot Ankle Int. 2017 Apr;38(4):465-466
3. **Miller CP**, Grauer JN. Literature review: Use of cervical collar after single-level anterior cervical fusion with plate: Is it necessary? SpineLine May/June 2009.
4. **Miller CP**, Grauer JN. Literature review: The effect of obesity on clinical outcomes after lumbar fusion. SpineLine January/February 2009.
5. **Miller CP**, Whang PG, Grauer JN. Literature review: Range of motion and adjacent level degeneration after lumbar total disc arthroplasty. SpineLine September/October 2006, 21-22.
6. Kwon JY, Ellington JK, Miller CP. Letter to the Editor: Costs and Radiographic Outcomes of Rotational Ankle Fractures Treated by Orthopaedic Surgeons With or Without Trauma Fellowship Training. J Am Acad Orthop Surg. 2019;27(3):e142-e143. doi:10.5435/JAAOS-D-18-00508

Invited Lectures and Grand Rounds

1. **Minimally Invasive Insertional Achilles Reconstruction**, AOFAS Webinar 11/2021
2. **Social Media For Foot and Ankle Surgeons**, AOFAS 4/2021
3. **3D Printed Implants for Lower Extremity Limb Salvage**. California Orthopaedic Association Meeting May 2021

4. **Minimally Invasive Foot and Ankle Surgery: A Paradigm Shift**, Harvard Combined Orthopaedic Surgery Resident Grand Rounds, Boston MA August 2020
5. **Common Foot and Ankle Conditions**, BID-Needham Hospital Grand Rounds, February 2020
6. **The Foot and Ankle Exam**, BID-Needham Hospital Grand Rounds June 2019
7. **Tendon Transfers: What, Why, How**, BIDMC Podiatry Grand Rounds, May 2018
8. **Calcaneal Fractures**. Good Samaritan Hospital, Brockton, MA, October 6th 2017
9. **Minimally Invasive Foot and Ankle Surgery**, Whale Imaging Inc. Visiting Chinese Orthopaedic Surgeons Lecture Series, Boston, MA
10. **3D Printing for Plastics & Reconstructive Surgery**. Yale University School of Medicine, Section of Plastics and Reconstructive Surgery. New Haven, CT. November 12th, 2014
11. **3D Printing and Orthopaedics**. Yale University School of Medicine, Department of Orthopaedics. New Haven, CT. October 31st, 2014
12. **“Barefoot” Running**. Yale University School of Medicine, Department of Orthopaedics and Rehabilitation. New Haven, CT. August 2nd, 2013.

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