

George S. Athwal is an Associate Professor of Surgery and a Clinician-Scientist at the University of Western Ontario in London, Ontario, Canada. He is actively involved in clinical and biomechanical research of the shoulder and elbow.

EDUCATION

Bachelor of Science (Microbiology) University of British Columbia, BC, Canada	1990-94
Doctor of Medicine University of British Columbia, Vancouver, BC, Canada	1994-98
Resident, Orthopedic Surgery Queen's University, Kingston, Ontario, Canada	1998-03
Hand & Elbow Surgery Fellowship Hospital for Special Surgery, New York, NY, USA	2003-04
Shoulder & Elbow Surgery Fellowship Mayo Clinic, Rochester, MN, USA	2004-05

SELECTED PUBLICATIONS (TOTAL: 141)

- 1) Lanohr GD, Giles JW, Athwal GS, Johnson JA. The effect of glenosphere diameter in reverse shoulder arthroplasty on muscle force, joint load, and range of motion. *J Shoulder Elbow Surg.* 2014 Dec 26. pii: S1058-2746(14)00584-9. doi: 10.1016/j.jse.2014.10.018. [Epub ahead of print] PMID: 25547853
- 2) Creech MJ, Yeung M, Denkers M, Simunovic N, Athwal GS, Ayeni OR. Surgical indications for long head of biceps tenodesis: A systematic review. *Knee Surg Sports Traumatol Arthrosc.* 2014 Oct10. DOI 10.1007/s00167-014-3383-9
- 3) Athwal GS, Faber KJ, Drosdowech D. Does bony increase offset reverse shoulder arthroplasty decrease scapular notching? *J Shoulder Elbow Surg.* 2014 Oct21. DOI: <http://dx.doi.org/10.1016/j.jse.2014.08.015> [Epub ahead of print]
- 4) Knowles NK, Keener JD, Ferreira LM, Athwal GS. Quantification of the position, orientation, and surface area of bone loss in type B2 glenoids. *J Shoulder Elbow Surg.* 2014 Oct 29. DOI: <http://dx.doi.org/10.1016/j.jse.2014.08.021>
- 5) MacDermid JC, Khadilkar L, Birmingham TB, Athwal GS. Validity of the QuickDASH in Patients with Shoulder Related Disorders Undergoing Surgery. *J Orthop Sports Phys Ther.* 2014 Nov 13:1-43. [Epub ahead of print]
- 6) Giles J, Ferreira L, Athwal GS, Johnson JA. Validation of a Multi-PID Driven In-Vitro Active Motion Shoulder Simulator and Application to Assessing Reverse Total Shoulder Arthroplasty. *J Biomech Eng.* 2014 Oct 1. doi: 10.1115/1.4028820. [Epub ahead of print]
- 7) Knowles NK, Athwal GS, Keener JD, Ferreira LM. Regional bone density variations in osteoarthritic glenoids: a comparison of symmetric to asymmetric (type B2) erosion patterns. *J Shoulder Elbow Surg.* 2014 Oct 8. pii: S1058-2746(14)00386-3. doi: 10.1016/j.jse.2014.07.004. [Epub ahead of print]
- 8) Lapner PL, Jiang L, Zhang T, Athwal GS. Rotator Cuff Fatty Infiltration and Atrophy Are Associated With Functional Outcomes in Anatomic Shoulder Arthroplasty. *Clin Orthop Relat Res.* 2014 Sep 30. [Epub ahead of print] PMID: 25267270 [PubMed - as supplied by publisher]
- 9) Lapner PL, Wood KS, Zhang T, Athwal GS. The return of subscapularis strength

after shoulder arthroplasty. *J Shoulder Elbow Surg.* 2014 Sep 5. pii: S1058-2746(14)00344-9. doi: 10.1016/j.jse.2014.06.042. [Epub ahead of print] PMID: 25200918 [PubMed - as supplied by publisher]

- 10) Giles J, Degen R, Johnson J, Athwal GS. The bristow and latarjet procedures: why these techniques should not be considered synonymous. *J Bone Joint Surg Am.* 2014 Aug 20;96(16):1340-8. doi: 10.2106/JBJS.M.00627.
- 11) Chan K, MacDermid JC, Hoppe DJ, Ayeni OR, Bhandari M, Foote CJ, Athwal GS. Delayed versus early motion after arthroscopic rotator cuff repair: a meta-analysis. *J Shoulder Elbow Surg.* 2014 Aug 12. pii: S1058-2746(14)00318-8. doi: 10.1016/j.jse.2014.05.021. [Epub ahead of print] PMID: 25127908
- 12) Khadilkar L, MacDermid JC, Sinden KE, Jenkyn TR, Birmingham TB, Athwal GS. An analysis of functional shoulder movements during task performance using Dartfish movement analysis software. *International Journal of Shoulder Surgery.* 2014 Jan;8(1):1-9. doi: 10.4103/0973-6042.131847
- 13) Chan K, MacDermid JC, Faber KJ, King GJ, Athwal GS. Can We Treat Select Terrible Triad Injuries Nonoperatively? *Clin Orthop Relat Res.* 2014 Feb 19. [Epub ahead of print] PMID: 24549776
- 14) Simone JP, Streubel PH, Sperling JW, Schleck CD, Cofield RH, Athwal GS. Anatomical total shoulder replacement with rotator cuff repair for osteoarthritis of the shoulder. *Bone Joint J.* 2014 Feb;96-B(2):224-8. doi: 10.1302/0301-620X.96B.32890.
- 15) Degen RM, Giles JW, Johnson JA, Athwal GS. Remplissage Versus Latarjet for Engaging Hill-Sachs Defects Without Substantial Glenoid Bone Loss: A Biomechanical Comparison. *Clin Orthop Relat Res.* 2014 Jan 3. [Epub ahead of print] PMID: 24385035

ACADEMIC ACHIEVEMENTS and AWARDS (SELECTED)

Dean's Award of Excellence, Schulich School of Medicine and Dentistry
 American Shoulder and Elbow Surgeons European Fellowship
 Top 28 Shoulder Surgeons in North America by Orthopedics This Week
 Clinical Scientist Award, UWO Department of Surgery
 University Student's Council of Western University Award for Excellence in Teaching
 H.S. Cameron Award for Teaching Excellence, Orthopedic Surgery, Western University
 Kirkley Young Investigator Award (Canadian Orthopaedic Foundation)
 AMOSO Opportunities Award to Support Research Excellence
 John J. Fahey, MD, North American Traveling Fellowship Sponsored by AOA and COA
 Margaret Ho Scholarship in Medicine
 Samuel Diamond Scholarship in Medicine
 Dr. Ernest Roland Myers Scholarship in Medicine
 Lewis Lipsey Toohill Scholarship in Medicine
 Florence E. Heighway Research Award
 Natural Sciences and Engineering Research Council Award