

George S. Athwal, MD, FRCSC

Professor of Surgery

University of Western Ontario, Hand and Upper Limb Centre, St Joseph's Health Care

HIGHLIGHTS

Professor of Surgery

Co-Founder and Co-Director, Advanced Shoulder Arthroplasty Meeting, Snowbird, Utah

Past-President, Association of Clinical Elbow and Shoulder Surgeons

President, International Congress of Shoulder & Elbow Surgery Meeting Vancouver 2026

Executive Board Member, American Shoulder & Elbow Surgeons, 2022 - Present

Executive Board Member, Canadian Shoulder & Elbow Society, 2021 - Present

Scientific Publications >350

Presentations >700

Honored Professorships at International or National Societies >30

Associate Editor, Journal of Shoulder and Elbow Surgery

Editorial Board, Clinics in Shoulder & Elbow

Graduate Students (Masters/PhD) Supervised >25

Courses or Meetings Chaired/Developed/Organized >20

Neviaser Award Winner for best paper published in JSES 2024

Neer Award Recipient 2017 & 2022 (Premier Award for Shoulder Research in the ASES)

Morrey Award Winner 2021

Samson Award Recipient (Premier Award for Orthopedic Research in Canada)

Maclean's Magazine Power List Top 100, May 2024

EDUCATION

Bachelor of Science (Microbiology)

1990-94

University of British Columbia, BC, Canada

Doctor of Medicine

1994-98

University of British Columbia, Vancouver, BC, Canada

Resident, Orthopedic Surgery

1998-02

Queen's University, Kingston, Ontario, Canada

Chief Resident, Orthopedic Surgery

2002-03

Queen's University, Kingston, Ontario, Canada

Hand & Elbow Surgery Fellowship

2003-04

Hospital for Special Surgery, New York, NY, USA

Drs. E Athanasian, RN Hotchkiss, AJ Weiland & SW Wolfe

PUBLICATIONS (Total >350)

- 1) Roddy E, Gardner MJ, Namdari S, Athwal GS, Hebert-Davies J. Proximal Humerus Fractures: How to Achieve Best Outcomes. *Instr Course Lect.* 2024;73:535-545.PMID: 38090923
- 2) Sanchez-Sotelo J, Berhouet J, Chaoui J, Freehill MT, Collin P, Warner J, Walch G, Athwal G. Validation of Mixed Reality Surgical Navigation for Glenoid Axis Pin Placement in Shoulder Arthroplasty Using a Cadaveric Model. *J Shoulder Elbow Surg.* 2023 Oct 25:S1058-2746(23)00773-5. doi: 10.1016/j.jse.2023.09.027.
- 3) Macken AA, Macken LC, Oosterhoff JHF, Boileau P, Athwal GS, Doornberg JN, Lafosse L, Lafosse T, van den Bekerom MPJ, Buijze GA. Developing a machine learning algorithm to predict the probability of aseptic loosening of the glenoid component after anatomical total shoulder arthroplasty: protocol for a retrospective, multicentre study. *BMJ Open.* 2023 Oct 18;13(10):e074700. doi: 10.1136/bmjopen-2023-074700.PMID: 37852772
- 4) Cunningham DE, Spangenberg GW, Langohr GDG, Athwal GS, Johnson JA. Stemless reverse humeral component neck-shaft angle has an influence on initial fixation. *J Shoulder Elbow Surg.* 2024 Jan;33(1):164-171. doi: 10.1016/j.jse.2023.06.035. Epub 2023 Jul 27.PMID: 37507001
- 5) Franceschi F, Giovannetti de Sanctis E, Gupta A, Athwal GS, Di Giacomo G. Reverse shoulder arthroplasty: State-of-the-art. *J ISAKOS.* 2023 Oct;8(5):306-317. doi: 10.1016/j.jisako.2023.05.007. Epub 2023 Jun 8.PMID: 3730147
- 6) Sharif-Ahmadian A, Beagley A, Pearce C, Saliken D, Athwal GS, Giles JW. Statistical Shape and Bone Property Models of Clinical Populations as the Foundation for Biomechanical Surgical Planning: Application to Shoulder Arthroplasty. *J Biomech Eng.* 2023 Oct 1;145(10):101004. doi: 10.1115/1.4062709.PMID: 37295930
- 7) Abdic S, Van Osch NJ, Langohr DG, Johnson JA, Athwal GS. Mixed reality visualization in shoulder arthroplasty: is it better than traditional preoperative planning software? *Clin Shoulder Elb.* 2023 Jun;26(2):117-125. doi: 10.5397/cise.2022.01326. Epub 2023 Apr 14.PMID: 37088879
- 8) Lapner P, Henry P, Athwal G, Moktar J, McNeil D, MacDonald P; Canadian Shoulder and Elbow Society (CSES). Position statement: management of rotator cuff tears in adults. *Can J Surg.* 2023 Apr 21;66(2):E190-E195. doi: 10.1503/cjs.022221. Print 2023 Mar-Apr.PMID: 37085294
- 9) Furtado R, MacDermid JC, Bryant D, Faber KJ, Drosdowech DS, Athwal GS. Balancing clinician and patient priorities for total shoulder replacement preoperative education programs. *Patient Educ Couns.* 2023 Jul;112:107759. doi: 10.1016/j.pec.2023.107759. Epub 2023 Apr 14.PMID: 3707565
- 10) Kobayashi EF, Namdari S, Schenker M, Athwal GS, Ahn J. Evaluation and treatment of postoperative periprosthetic humeral fragility fractures. *OTA Int.* 2023 Mar 28;6(1 Suppl):e244. doi: 10.1097/OI9.000000000000244. eCollection 2023 Mar. PMID: 37006451
- 11) Atwan Y, Abdulla I, Grewal R, Faber KJ, King GJW, Athwal GS. Indomethacin for Heterotopic Ossification Prophylaxis Following Surgical Treatment of Elbow Trauma: A Randomized Controlled Trial. *J Shoulder Elbow Surg.* 2023 Mar 10:S1058-2746(23)00253-7. doi: 10.1016/j.jse.2023.02.119.
- 12) Aibinder WR, Uddin F, Bicknell RT, Krupp R, Scheibel M, Athwal GS. Stress shielding following stemless anatomic total shoulder arthroplasty. *Shoulder Elbow.* 2023 Feb;15(1):54-60. doi: 10.1177/17585732211058804. Epub 2021 Nov 24.PMID: 36895609
- 13) Zhang Y, Chang N, Athwal GS, King GJ. Arthroscopic reduction and internal fixation of capitellar and trochlear fractures: A case series. *Shoulder Elbow.* 2023 Feb;15(1):75-81. doi: 10.1177/17585732211037617. Epub 2021 Dec 7.PMID: 36895598

BOOK CHAPTERS (>40)

- 1) AAOS Comprehensive Orthopedic Review 4. Wolters Kluwer 2024
- 2) AAOS Instructional Course Lectures Volume 73. Wolters Kluwer 2024
- 3) Burkhart KJ, Watts AC, Athwal GS, Hollinger B, Wegmann K, Muller LP. Complication Management in Distal Humerus Hemiarthroplasty. Elbow Arthroplasty: Current Techniques and Complications. Eds: Castoldi F, Giannicola G, Rotini R. Springer, 2020.
- 4) Frank T and Athwal GS. Hemiarthroplasty for Proximal Humerus Fractures. Procedure 9. Operative Techniques: Orthopedic Trauma Surgery, 2E. Elsevier, 2020.
- 5) OKU Shoulder and Elbow 5
- 6) Murthi AM, Cox RM, Strelzow JA, Athwal GS, Tashjian RZ, Abboud JA. Glenohumeral Arthritis in Young Patients: Scope, Arthroplasty, Interposition, Arthrodesis, and Resurfacing. Instructional Course Lectures, Volume 67 Page 119-133, 2018.
- 7) Fierro G, Krishnan S, Athwal GS. Exposure and Work-Up of Reverse Total Shoulder Arthroplasty. Eds: Dines, Dines and Edwards. In Reverse Shoulder Arthroplasty. Thieme Publishers. (In Press).
- 8) Isa D, Faber KJ, Athwal GS, King GJW. Forearm and Elbow Reconstruction. Orthopedic Knowledge Update 12. American Academy of Orthopedic Surgeons Press.
- 9) Aldebeyan W, Knowles N, Ferreira L, Athwal GS. Posterior Augmented Glenoid Components. Anatomic Shoulder Arthroplasty – Strategies for Clinical Management. Eds: Armstrong and Murthi. Springer.
- 10) Chin K, Athwal GS. Varus posteromedial elbow instability. The Unstable Elbow: An Evidence Based Approach to Evaluation and Management. Editor: Tashjian R. Springer.
- 11) Athwal GS. Distal Biceps Tendon Injures. Morrey's The Elbow and Its Disorders 5th Edition. Eds: Morrey, Morrey and Sanchez-Sotelo. Springer.

SCIENTIFIC PRESENTATIONS (>450)

- 1) Fleet C, Gao R, Johnson J, Athwal GS. Kouvalchouk Procedure Compared to Distal Tibial Allograft. SECEC (European Shoulder and Elbow Society) Annual Meeting, Munich, Germany. September 4-6, 2024.
- 2) Berhouet J, Sanchez-Sotelo J, Warner JP, Collin P, Freehill M, Athwal GS. Mixed Reality Navigation for Shoulder Reverse Arthroplasty. 97th SOFCOT Congress, Paris France, November 13-15, 2023.
- 3) Ombogo MA, Langohr GDG, Chandrashekar N, Athwal GS, Medley JB. Novel Tribological Design for Reverse Shoulder Implant. Biotribology. Fukuoka City, Japan, September 24-25, 2023.
- 4) Cunningham D, Lanoghr D, Athwal GS. Johnson JA. Evaluating the Effect of Simulating Extreme Physiological Loads on Interface Fixation of Stemless Reverse Humeral Component Fixation. 34th International Congress of the International Society for Technology in Arthroplasty at the Sheraton Times Square Hotel in New York City on September 27-30, 2023.
- 5) Cunningham D, Spangenberg GW. Lanoghr D, Athwal GS. Johnson JA. The Effect of Neck Shaft Angle on Stemless Reverse Humeral Component Fixation. 34th International Congress of the International Society for Technology in Arthroplasty at the Sheraton Times Square Hotel in New York City on September 27-30, 2023.

COURSE DEVELOPMENT, CHAIRMAN (>40)

- 1) President, International Congress of Shoulder and Elbow Surgery, Vancouver, BC, 2026
- 2) Scientific Committee, Rome International Shoulder Course, Rome, Italy Dec 2024
- 3) Co-Chair, Advanced Shoulder Arthroplasty Course, Snowbird, Utah, January 18-20, 2024
- 4) Co-Chair, Tel Aviv Hip/Knee/Shoulder Meeting, Tel Aviv, November 2023
- 5) Co-Chair, American Shoulder and Elbow Surgeons Annual Meeting 2023
- 6) Co-Chair, Stryker Masters Course in Shoulder Arthroplasty, Nashville, Oct 2023
- 7) Chair, ASES Day at the International Congress of Shoulder & Elbow Surgery, Rome, Italy, Sept 2023

GUEST PROFESSORSHIPS FOR NATIONAL SOCIETIES

Australian Shoulder and Elbow Association (SESA) Presidential Guest Professor	2016
New Zealand Shoulder and Elbow Society (NZSES)	2017
Brazilian Shoulder and Elbow Society (SBCOC)	2017
Japan Shoulder Society (JSS), Chairman's Guest Professor	2017
Asian Shoulder and Elbow Surgeons Group, Presidential Guest	2018
Germany (DVSE: Deutsche Vereinigung Fur Schulter und Ellenbogenchirurgie)	2018
European Shoulder & Elbow Society (SECEC) Presidential Guest Lecturer	2018
Colombian Shoulder & Elbow Society	2018
Chilean Orthopedic and Traumatology Society	2018
French Arthroscopy Society (SFA) (declined due to conflict)	2018
Spain (SECHC) Spanish Shoulder & Elbow Society	2019
Portuguese Shoulder and Elbow Society Annual Meeting	2019
French Arthroscopy Society (SFA)	2019
Mexican Shoulder and Elbow Society (Declined due to conflict)	2019
Brazilian Orthopedic and Traumatology Society (Declined due to conflict)	2019
Hong Kong Orthopedic Society (Cancelled due to COVID-19)	2020
Mexican National Orthopedic Society Meeting (Declined due to conflict)	2020
Norwegian Shoulder Society (Cancelled due to COVID-19)	2020
Argentine Association of Orthopedic Surgeons (Cancelled due to COVID-19)	2020
Israeli Orthopedic Association Meeting (Cancelled due to COVID-19)	2020
Colombia Society of Orthopedic Surgery and Traumatology (SCCOT)	2020
Greek Shoulder Society, Athens (Cancelled due to COVID-19)	2021
Peruvian Shoulder Society	2021
Argentinian Shoulder and Elbow Society Meeting	2021
Latin American Shoulder & Elbow Society (SLAHOC) Congress (Declined Conflict)	2021
Korean Shoulder & Elbow Society, Daejeon Shoulder Symposium (Declined Conflict)	2021
Sociedad Puertorriquena de Ortopedia y Traumatologia (Porto Rico)	2021
German Society for Arthroscopy and Joint Surgery (AGA) (Declined due to Conflict)	2021
Israeli Orthopedic Association Meeting (Declined due to Conflict)	2022
Turkish Shoulder and Elbow Society	2022
Brazilian Shoulder and Elbow Society (SBCOC)	2022
Norwegian Shoulder and Elbow Society	2022
Japanese Orthopedic Association 95 th Annual Meeting (Declined due to Conflict)	2022
Peruvian National Orthopedic Congress	2022
Patagonia Shoulder & Elbow Society (Declined due to Conflict)	2022
South African Shoulder & Elbow Society	2023
Korean Shoulder & Elbow Society (KSES)	2023
Indian Shoulder & Elbow Society (ISES)	2023
Mexican National Orthopedic Society (Declined due to Conflict)	2024
Chinese Society of Sports Medicine Annual Meeting (Declined due to Conflict)	2024
Ecuadorian Society of Orthopaedics and Traumatology	2024
Hong Kong Orthopedic Society (Declined due to Conflict)	2024
Turkish Shoulder and Elbow Society	2024
British Elbow and Shoulder Society (BESS)	2025
New Zealand Shoulder and Elbow Society	2025
Japan Elbow Society	2025
Italian Arthroscopy Association (SIAGASCOT) (declined due to conflict)	2025
African Shoulder and Elbow Society (AfSES) (declined due to conflict)	2025
Egyptian Shoulder and Elbow Society (declined due to conflict)	2025

INVITED FACULTY, LECTURESHIPS, & PROFESSORSHIPS (>300)

- 1) Faculty, Rome Revision Course, Rome January 2025
- 2) Faculty, SECEC Annual Meeting, Munich, Germany, Sept 2024
- 3) Faculty, Nice Shoulder Course, Nice, France, June 2024
- 4) Faculty, Turkish Shoulder and Elbow Society Annual meeting, April 2024
- 5) Faculty, Stryker Shoulder Masters Course, Vancouver April 2024
- 6) Faculty, Paris International Shoulder Course March 2024
- 7) Faculty, Athens Shoulder Course, Athens, Greece, Feb 2024
- 8) Faculty, Tampa Shoulder Course, 30th Anniversary, Tampa, Jan 2024
- 9) Faculty, Shoulder Conclave Meeting, Pune, India, Jan 2024
- 10) Faculty, Advanced Shoulder Arthroplasty Course, Snowbird, Utah, Jan 2024
- 11) Faculty, University of Toronto, Shoulder Rounds, Toronto, Ont, Nov 2023

ACADEMIC ACHIEVEMENTS & AWARDS

Neviaser Award for Top Clinical Paper in JSES	2024
Maclean's Magazine Top 100 Power List (Canadians Shaping the Country)	2024
Charles S. Neer Award by the American Shoulder & Elbow Surgeons	2022
C.H. Rorabeck Award (Best Intraoperative Teacher voted by residents) Orthopedic Surgery, University of Western Ontario	2021
Bernard Morrey Award by the American Shoulder & Elbow Surgeons	2021
British Elbow & Shoulder Society, Top Ten Scientific Paper Award	2021
Canadian Orthopedic Foundation Robin Richards Award for Upper Extremity Research	2021
Department of Surgery Western University, Merit Award Winner in Research	2020
Department of Surgery Western University, Merit Award Winner in Research	2019
President (ACESS) Association of Clinical Elbow and Shoulder Surgeons	2018
Neer Circle Inductee	2018
Achievement Award Winner, American Academy of Orthopedic Surgeons	2018
J Edouard Samson Award (The Premier Award for Orthopedic Research in Canada)	2017/19
Achievement Award Winner, American Academy of Orthopedic Surgeons	2017
Charles S. Neer Award by the American Shoulder & Elbow Surgeons	2017
American Academy of Orthopedic Surgeons Award Winning Movie Presentation at Annual Meeting, Orlando, FL	2016
Canadian Orthopaedic Research Legacy (CORL) Award	2014
Certificate of Excellence in Reviewing, Journal of Shoulder and Elbow Surgery	2013
Top 28 Shoulder Surgeons in North America by Orthopedics This Week	2013
Dean's Award of Excellence, Schulich School of Medicine and Dentistry UWO for excellence in research, education and innovation.	2011
American Shoulder and Elbow Surgeons European Fellowship	2011
Clinical Scientist Award, UWO Department of Surgery \$150,000.00 / 3 years	2010-13
University Student's Council of University of Western Ontario Award for Excellence in Teaching in Medicine	2009
HS Cameron Award for Teaching Excellence (Best Clinical Teacher voted by residents) Orthopedic Surgery, University of Western Ontario	2008
Kirkley Young Investigator Award (Canadian Orthopaedic Foundation)	2007
AMOSO Opportunities Award to Support Research Excellence \$174,000.00 / 3 years	2007-10
John J. Fahey, MD, North American Traveling Fellowship Award Sponsored by AOA and COA	2007
American Orthopedic Association, Emerging Leaders Program	2007
US Bone and Joint Decade & Bone and Joint Decade Canada's Young Investigator Initiative Program	2007
Orthopedic In-Training Examination (OITE) (PGY 5) 99 percentile	2002

(PGY 4)	85 percentile	2001
(PGY 3)	86 percentile	2000
Margaret Ho Scholarship in Medicine		1997
Samuel Diamond Scholarship in Medicine		1996
Dr. Ernest Roland Myers Scholarship in Medicine		1995
Lewis Lipsey Toohill Scholarship in Medicine		1995
Florence E. Heighway Research Award		1995
Dean's Honor List, University of British Columbia		1994
Natural Sciences and Engineering Research Council Award		1993
Dean's Honor List, University of British Columbia		1993
University of British Columbia Scholarship		1992
Dean's Honor List, University of British Columbia		1992
University of British Columbia Scholarship		1991
University of British Columbia Entrance Scholarship		1990
British Columbia Provincial Scholarship		1990
Teacher's Federation Scholarship		1990

COMMITTEES/BOARDS

Scientific Committee, Rome International Shoulder Course, Rome, Italy	2024
Scientific Committee, Paris Shoulder Course, Paris, France	2024
International Board of Shoulder and Elbow Surgery, Member at Large	2023-2026
Executive Board, American Shoulder and Elbow Society (ASES)	2022-2024
ASES Neer Circle Committee	2022-2024
Executive Board, Canadian Shoulder & Elbow Society (CSES)	2021-present
Co-Chair American Shoulder and Elbow Surgeons Annual Meeting Scottsdale AZ	2023
Chair, Young Scholars Memorial Fellowship Committee	2020-2023
ASES Task Force on Virtual Reality and Augmented Reality	2020-2021
ASES Nomination Committee	2020-2021
ASES Education Committee	2020-2023
ASES Exchange Fellowship Committee	2019-2022
Scientific Executive Board, Nice Shoulder Course, Nice, France	2020
Scientific Committee, Berlin International Shoulder Course, Berlin, Germany	2020
Scientific Committee, Rome Revision Arthroplasty Course, Rome, Italy	2020
Scientific Committee, Paris Rotator Cuff and Tendon Transfer Course	2020
Program Committee, American Shoulder and Elbow Surgeons Symposium, NY, NY	2020
Scientific Program Committee, 14 th International Congress of Shoulder & Elbow Surgery (ICES) Meeting Buenos Aires, Argentina	2019
Scientific Committee, 8 th Annecy Live Surgery International Shoulder Course	2019
Scientific Committee, Paris Shoulder Course, Paris, France	2019
Co-Chair, Advanced Shoulder Arthroplasty Meeting, Park City, Utah	2019
Planning Committee, San Diego Shoulder Course, San Diego, CA	2018
Scientific Committee, Rome Shoulder Course "Revision Arthroplasty" Rome, Italy.	2018
Program Committee, American Shoulder and Elbow Surgeons 2017 ASES Meeting, New Orleans, LA	2017
Orthopedic Surgery Scientific Council, King Saud University, Riyadh, Saudi Arabia	2016-present
Surgeon Advisory Board, Wright Medical Technologies	2016-present
Advisory Board, Codman Shoulder Society	2016-present
Examiner (Standby), Royal College of Physicians and Surgeons of Canada Orthopaedic Surgery Examination Board	2017-18
Nominating Committee, American Shoulder and Elbow Surgeons	2016-17
Co-Chair, American Shoulder and Elbow Surgeons Open Meeting / Specialty Day Program. San Diego, CA.	2017
Executive Committee, Association of Clinical Elbow and Shoulder Surgeons (ACCESS)	2016-20
Scientific Program Committee, 13 th International Congress of Shoulder & Elbow Surgery	2016

(ICSES) Meeting Jeju, Korea	
Program Committee, American Shoulder and Elbow Surgeons 2016 Open Meeting/Specialty Day, Orlando FL	2016
Program Committee, American Shoulder and Elbow Surgeons 2016 Closed Meeting, Boston MA	2016
American Shoulder and Elbow Surgeons Exchange Fellowship Committee	2014-17
Chair/Chief, Division of Orthopedic Search Committee	2013
SJHC Surgical Purchasing Committee (Value Analysis Team)	2013
Upper Extremity Arthroplasty RFP Committee	2012
AANA (Arthroscopy Association of North America) Maintenance of Certification Examination Development Task Force	2012
Consultant, Medical Devices Bureau of Health Canada	2012
Mentorship Committee, Western Ontario (Vasarhelyi)	2012
Research Committee, Association of Clinical Elbow and Shoulder Surgeons (ACCESS)	2010-present
Exchange Fellowship Committee, Canadian Orthopedic Association	2010-present
Radiation Safety Committee, St Joseph's Health Care	2008-present

HOSPITAL/PROFESSIONAL LEADERSHIP

President, International Congress of Shoulder and Elbow Surgery Vancouver 2026	
Executive Board, American Shoulder and Elbow Society (ASES)	2022-2024
Executive Board, Canadian Shoulder and Elbow Society (CSES)	2021-present
President, ACCESS (Assoc of Clinical Elbow and Shoulder Surgeons)	2018-19
Vice-President, ACCESS (Assoc of Clinical Elbow and Shoulder Surgeons)	2017-18
Secretary, ACCESS (Assoc of Clinical Elbow and Shoulder Surgeons)	2016-17
Board of Directors, St Joseph's Foundation, London, Ontario	2018-20
Medical Affairs, Credentialed Professional Staff Organization Executive Elected Official: Secretary	2014-15

PATENTS

US Provisional Application No. 62/266088 entitled "Coracoid Drill Guide and Method of Use"

US Provisional Application No.62/469803 entitled "Platform Fracture Fixation Implants"

US Provisional Application No Tech ID: W-18-002 entitled "Linked Shoulder Implant"

US Provisional Application No.17/359,745 entitled "Patient Specific Humeral Cutting Guides"

US Provisional Application No.:62/740,333 entitled "Shoulder Prosthesis Components and Assemblies"

US Provisional Application No.16/208,956 entitled "Stemless Prosthesis Anchor Components, Methods, and Kits"

US Provisional Application: Acromial Fracture Repair System No: 019870-085400/PRO

US Provisional Application No.:62/885,033 entitled "Apparatuses and Methods for Implanting Glenoid Prosthesis"

US Provisional Application No (XX) entitled "Intra-articular Balloon Arthroplasty"

US Provisional Application: Porous Metal Implants No: To Be Assigned

US Provisional Application No.:62/994,699 entitled "Metaphyseal Referencing Technique and Instrumentation"