

MAHMOUD ALMASRI, MD, FRCSC

Curriculum Vitae

Citizenship: *Canadian*

Languages Spoken: *English, French, Arabic*

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EMPLOYMENT & ACADEMIC APPOINTMENTS:

Mercy Health Hospital of Cincinnati Orthopaedic Surgeon & Hip Preservation Specialist Cincinnati, Ohio, USA	Feb 2021 – Present
Cincinnati Sports Medicine Research & Education Foundation Faculty Member, Education & Fellowship Program Cincinnati, Ohio, USA	Jan 2021 – Onwards
Attending General Orthopaedic Surgeon Mercy Health Hospital of Cincinnati Cincinnati, Ohio, USA	Aug 2019 – Jul 2020
Attending General Orthopaedic Surgeon St. Elizabeth Health Care Edgewood, Kentucky, USA	Aug 2019 – Jul 2020

TRAINING & EDUCATION:

Clinical Fellow – Hip Preservation Surgery McMaster University, Division of Orthopaedic Surgery Fellowship Director: Dr Olufemi Ayeni MD, PhD, FRCSC Hamilton, Ontario, Canada	Aug 2020 – Jan 2021
Details: <ul style="list-style-type: none">• 1 Hip Preservation Fellow selected per academic year• Ranked no. 4 University in Canada• Top 100 University in the World• Discipline of <u>Evidence-Based Medicine</u> was developed at McMaster University• Trained under world-renowned Hip Preservation Surgeon Dr Olufemi Ayeni<ul style="list-style-type: none">○ Division Head of Orthopaedic Surgery at McMaster University	

- Published over 300 peer-reviewed manuscripts in several highly respected journals
- Academic Committee Chair for the International Society for Hip Arthroscopy (ISHA)

Clinical Fellow – Orthopaedic Sports Medicine

Aug 2019 – Jul 2020

The Jewish Hospital Cincinnati/Cincinnati Sports Medicine and Orthopaedic Center & The Noyes Knee Institute

Fellowship Director: Dr Frank Noyes, MD

Cincinnati, Ohio, USA

Details:

- ACGME-accredited, nationally acclaimed fellowship, AOSSM/AANA recognized
- Voted *Fellow of The Year* by the support staff at Mercy Health Hospital
- 4 fellows selected per year from over 100 applicants from the US, Canada, South America, Europe, and the Middle East.
- One of the first developed Sports Medicine Fellowships in the United States (1978)
- <https://www.beckersspine.com/sports-medicine/item/2038-24-orthopedic-practices-with-great-sports-medicine-practices->
- Trained under world-renowned orthopaedic surgeon Dr Frank Noyes:
 - An internationally recognized authority on the diagnosis and treatment of complex knee problems
 - No. 1 cited Orthopaedic Surgeon for Knee Research Worldwide, JBJS (Journal of Bone and Joint Surgery)
 - Inducted into the hall of fame for the American Orthopaedic Society for Sports Medicine

Orthopaedic Surgery – Residency Training

Jul 2014 – Jun 2019

Division of Orthopedic Surgery, Department of Surgery

University of Ottawa, Ottawa, Ontario

Details:

- Premier orthopaedic surgery training program in Canada's Capital
 - 5 residents selected from 65 interviewed candidates, and 150 applicants
- The largest bilingual (English-French) university & teaching program in the world
- National leader in 3D Printing for major sarcoma surgery
- Nationally recognized center for phage therapy for treatment of peri-prosthetic joint infections in orthopaedic surgery

MD, CM (*Medicinæ Doctorem et Chirurgiæ Magistrum*)

Aug 2010 – May 2014

McGill University Faculty of Medicine

Montreal, Quebec, Canada

Graduation: May 29, 2014

Details:

- Considered one of the most prestigious universities in the world
- As of 2014-2015, ranked 1st in Canada among all its major/research universities (Maclean's 24th annual rankings), maintaining this position for 10th consecutive year
- Ranked 24th in the world and 1st in Canada in 2015 QS World University Rankings

LICESNURE & CERTIFICATIONS:

American Board of Orthopedic Surgeons (ABOS) Part 1 Board Eligible Orthopaedic Surgeon	2020 (active)
Royal College of Physicians & Surgeons of Canada (RCPSC) Specialist Certificate – Orthopedic Surgery	2019 (active)
College of Physicians and Surgeons Ontario (CPSO) Independent Practice Certificate (103558), 6/2020 Post-Graduate Education (103558), 7/2014 – 6/2019	2014 (active)
State Medical Board of Ohio Active Member (35.136029)	2019 (active)
Kentucky Board of Medical Licensure Active Member (52520)	2019 (active)
Licentiate of The Medical Council of Canada (LMCC)	2016 (active)
Surgical Foundations Exam Royal College of Physicians & Surgeons of Canada	2016 (active)
Medical Council of Canada Qualifying Examination (MCCQE) Part II	2016 (active)
Medical Council of Canada Qualifying Examination (MCCQE) Part I	2014 (active)
USMLE Step 2 – Clinical Skills	2016 (active)
USMLE Step 2 – Clinical Knowledge	2014 (active)

ADDITIONAL TRAINING & MEETINGS:

Hip Conditions in the Young Adult: A Virtual Course International Course - chaired by McMaster University, Hamilton, Ontario	Aug 2020
DJO Advance Orthopedic Education – Fellows Switchover Course Cincinnati, Ohio	Jul 2019 & 2020
The Clearwater Arthroscopy Meeting - ConMed Education Hip Arthroscopy, Knee Arthroscopy & Meniscal Transplant Workshop Clearwater, Florida	Nov 2019
AOSSM Fellows Course Rosemont, Illinois	Jul 2019
Canadian Orthopaedic Association – Annual Meeting Montreal, Quebec	Jun 2019

CORF – Canadian Orthopaedic Residence Forum Calgary, Alberta	Apr 2019
CORR Recon – Orthopaedic Resident Review in Reconstructive Surgery Mississauga, Ontario	Jan 2019
CORR Paeds - Orthopaedic Resident Review in Pediatrics Mississauga, Ontario	Jan 2019
CORR Trauma - Orthopaedic Resident Review in Trauma Mississauga, Ontario	Dec 2018
National Capital Knee Symposium Ottawa, Ontario	Oct 2018
CSES – Canadian Shoulder & Elbow Society Resident Course Ottawa, Ontario	Feb 2018
National Capital Knee Symposium Ottawa, Ontario	Sep 2016
Canadian Orthopedic Association – Annual Meeting Ottawa, Ontario	Jun 2016
Principles and Practice of Clinical Research (PPCR) Ron Joyce Business Centre – Burlington, Ontario	Oct 2015
ACLS Certification (Advanced Cardiac Life Support) Ottawa, Ontario	Feb 2015
AO Principles of Fracture Management – Basics Course Markham, Ontario	Nov 2014
ATLS Certification (Advanced Traumatic Life Support) Ottawa, Ontario	Oct 2014
National Capital Knee Symposium Ottawa, Ontario	Sep 2014

HONORS & AWARDS:

TOH Commitment to Safety Award – Code Orange Response The Ottawa Hospital - Ottawa, Ontario	Apr 2019
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Details:

- Jan 11, 2019 public transport bus collision resulting in a code-orange response with 100 patients in the ED department, and 24 admitted patients, many needing vascular surgery and orthopedic surgery care
- Commitment to Safety Award recognizes the off-duty physician who still chose to take part in the disaster response team, providing both medical and surgical care

Helen Lemieux Internship Award Shriner’s Hospital for Children Montreal, Quebec	Summer 2012
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Details:

- In July 2007, **First Lady Helen Lemieux** announced her fundraising program, “Research – Straight to the Heart,” which provided scholarships for a summer internship program for medical students.
- Only 1 of 2 recipients of this prestigious scholarship which funded clinical research in pediatric orthopaedics at the only Shriner’s Hospital in Canada.
- Award \$2,500.00

Kevric Summer Research Bursary - McGill University

Summer 2012

Details:

- Each year, the Faculty of Medicine offers its Summer Research Bursary Program. The program provides McGill health professional students with an opportunity to work in a research environment alongside clinical and fundamental scientists and their trainees. For 2 months during the Summer term, each student is expected to work full-time on a health-related and hypothesis-driven project. Students must be thoroughly involved in the scientific experimentation process and not mainly data collection. Funding for the Summer Research Bursary Program is provided by various agencies, foundations and donors. Each year, the Faculty usually received about 85 applications. All applications are reviewed and ranked by the Student Research Committee, whereby research bursaries are awarded to top-ranking students.
- Award: \$2,834.00

NSERC Undergraduate Research Award

Summer 2008

University of Ottawa, Ottawa, Ontario

Details:

- NSERC allocates a quota of awards to each eligible institution, and recipients of the award must have demonstrated an excellent academic record and research aptitude.
- Duration of the award is 16 consecutive weeks on a full-time basis, during which the student is thoroughly involved in the development of the research methodology, hypothesis testing, basic science bench work, data analysis, and not only data collection.
- Award: \$4,500.00

Dean’s Honor List - University of Ottawa, Ottawa, Ontario

2006 – 2009

- Awarded to any student who maintains a grade point average (GPA) of at least 8.5/10 within a single academic year.
- I was mentioned on the Dean’s Honor List for 3 consecutive years

University of Ottawa Entrance Scholarship

2005

University of Ottawa, Ottawa, Ontario

- Award: \$16,000.00

TEAM COVERAGE:

FC Cincinnati MLS Soccer - Sideline Coverage, Assistant MD

2019-2020

Cincinnati, Ohio

Description:

- Provided athletic coverage for regular season home games, including sideline injury assessment, intravenous line insertion and removal, suturing, and reductions of joint dislocations.

FC Cincinnati MLS Soccer – Preseason Entrance Physicals **2020**

Cincinnati, Ohio

Description:

- Provided player assessment and risk stratification for existing professional player roster and new signings, as it pertains to musculoskeletal health on behalf of the FC Cincinnati franchise.

Catholic Invitational Wrestling Tournament – MD Coverage **2020**

Cincinnati, Ohio

- Provided athletic coverage for regular season games, including sideline injury assessment, intravenous line insertion and removal, suturing, and reductions of joint dislocations.

Cincinnati Bengals NFL – Athlete Evaluation in Clinic & Free Agent Entrance Physicals **2019-2020**
Oct 29, 2020

Cincinnati, Ohio

Description:

- Provided player assessment and risk stratification for free agents as it pertains to musculoskeletal health on behalf of the Cincinnati Bengals franchise
- Pre-operative and post-operative evaluation, and peri-operative care of regular-season athletes

Deer Park Wildcats High School Football - Team Physician **2019-2020**

Cincinnati, Ohio

Description:

- Provided athletic coverage for regular season games, including sideline injury assessment, intravenous line insertion and removal, suturing, and reductions of joint dislocations.

UBC Thunderbirds Football– Sideline Coverage, Assistant MD **2017**

Vancouver, British Columbia

PEER-REVIWED PUBLICATIONS:

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1. **Almasri M**, Ayeni OR. Editorial Commentary: Defining Proficiency in Hip Arthroscopic Surgery Is Facing Its Own Learning Curve. *Arthroscopy*. 2020 Dec;36(12):3106-3107. doi: 10.1016/j.arthro.2020.08.028. PMID: 33276895.
 - Journal of Arthroscopy: 4.292 impact factor.
 - Editorial commentaries are by invite only from the Editor-in-Chief
 2. **Almasri M**, Simunovic N, Heels-Ansdell D, Ayeni OR; FIRST Investigators. Femoroacetabular impingement surgery leads to early pain relief but minimal functional gains past 6 months: experience from the FIRST trial. *Knee Surg Sports Traumatol Arthrosc*. 2021 Jan 2. doi: 10.1007/s00167-020-06401-x. Epub ahead of print. PMID: 33386426.
 - This study reports on the short- and mid-term *functional* results from the first ever international randomized controlled trial (RCT) evaluating the efficacy of surgical correction of FAI via arthroscopic osteochondroplasty with or without labral repair compared with an arthroscopic lavage of the hip joint with or without labral repair.

- The results from this publication and all subsequent manuscripts emanating from this international clinical trial will serve as a landmark study when completed and published.
3. Lameire DL, Abdel Khalik A, Zakharia A, Kay J, **Almasri M**, de SA D. Autologous Bone Grafting of the Patella Defect following ACL Reconstruction with Bone-Patella Tendon-Bone Autograft: A Systematic Review. *Submitted to Journal of Arthroscopy ARTH-20-1771*
 4. **Almasri M**, Kohrs B, Wendt A, Nolan J, Fleckenstein C, Hasan SS. Reverse Shoulder Arthroplasty in patients 85 years and older is safe and effective. *J Shoulder Elbow Surg.* **In submission.**
 - Journal of Shoulder and Elbow Surgery: 2.817 impact factor and 3.267 5-year impact factor.
 - In addition to presenting the outcomes of patients 85 years and older, this study will be the first in the literature to document and report on the outcomes of reverse shoulder replacement surgery in the oldest patients, age 90 and older.
 5. **Almasri, M**. Noyes, FR. Video review of various anterior closing wedge osteotomy techniques of the proximal tibia. *Accepted for presentaiotn at the American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting for 2021.*
 6. Aldhuhoori, S; **Almasri, M**; Nicholls, S; Pollock, JW; Rollins, M; Howard, L; Lapner, P. What outcomes are important in the recovery from acromio-clavicular (AC) joint pathology? A focus group study with patients and surgeons. *Disability and Rehabilitation.* PMID 32805156. **DOI:** 10.1080/09638288.2020.1805800
 - Journal of Disability and Rehabilitation: 2.054 impact score
 - This publication describes the protocol and results of a rigorous focus group whose goal was to develop a novel patient-reported outcome measure (PROM) for the acromioclavicular joint (AC joint). This thematic analysis has been accepted for publication, and serves as the first in a series of our own psychometric studies working towards a final AC joint score. Once completed and publish published, this novel AC joint scoring system will be a landmark clinical and research tool within the shoulder literature.
 - **54 reads (Research Gate), Altmetric Score 4, 4 Tweets**
 - **This publication has an Above-Average attention score compared to outputs of the same age (63rd percentile) scored by Altmetric**
 7. Ajrawat P, Dwyer T, **Almasri M**, Veillette C, Romeo A, Leroux T, Theodoropoulos J, Nauth A, Henry P, Chahal J. Bone Marrow Stimulation Decreases Re-Tear Rates Following Primary Arthroscopic Rotator Cuff Repair: A Systemic Review and Meta-Analysis. *J Shoulder Elbow Surg* (2019) 28, 782-791. PMID: 30885313.
 - Journal of Shoulder and Elbow Surgery: 2.817 impact factor and 3.267 5-year impact factor.
 - **9 citations (Google Scholar), 73 reads (Research Gate), 4.5 Research Interest.**
 - **This publication has an Above-Average attention score compared to outputs of the same age (62nd percentile) scored by Altmetric.** It has been Tweeted 5 times and has 23 readers on Mendeley.

- This manuscript serves as the first systematic review on the topic of bone marrow stimulation (BMS) with regards to healing rates and functional outcomes in rotator cuff repair surgery. Surgeons and researchers are still attempting to improve healing rates and clinical outcomes for rotator cuff repair surgery. Our findings are very impactful to the literature as re-tear for rotator cuff repair can be as high as 40 to 94%, and re-tears are a prevalent problem Worldwide and in the United States.
 - Our findings demonstrated that patients receiving BMS had significantly lower re-tear rates (18.4%) than patients treated with conventional repair only (31.8%). This study provides evidence for the use of BMS as a potential cost-effective biological approach toward improving rotator cuff healing.
 - This publication was presented as a *poster presentation* at the Canadian Orthopaedic Association (COA) on June of 2018 in Victoria, British Columbia.
8. **Almasri M**, Kishta W, Abduljabbar FH, Arlet V, Saran N, Ouellet J. Ischiospinal Dysostosis in a Child with Pierre-Robin Syndrome. *Hindawi Case Reports in Orthopedics*. Volume 2017, Article ID 8263536. PMID: 28473936.
- **Case Reports in Medicine, 1.100 Citation Rate, 61 reads (Research Gate), 401 downloads and 1136 views (Hindawi.com)**
 - This case report describes the first known case in the literature of a congenital vertebral subluxation of the thoracic spine, in a child with Ischiospinal Dysostosis treated at our institution.
 - It also presents the *longest* known follow-up period, of 13 years, detailing the post operative course and complications of 360-degree spinal fusion surgery for a child with this condition.
9. Vauclair F, **Almasri M**, Gallusser N, Van Lanker H, Reindl R. Metaphyseal tibial level (MTL) screws: a modified percutaneous technique for lateral plateau depression fractures. *Eur J Orthop Surg Traumatol*. 2015 Jul;25(5):963-7. PMID 25956170.
- European Journal of Orthopaedic Surgery & Traumatology (EJOST): 0.181 impact factor
 - **3 citations (Google Scholar), 25 reads (Research Gate), 1.2 Research Interest (Research Gate)**, It has been Tweeted 1 time and has 18 readers on Mendeley.
10. Khandelwal A, Vorstenbosch J, Di Lollo S, **Almasri M**, Chertkow L, Boudreau D, Gupta N, Primavesi R. Medical Students and Social Media – Guidelines for Professional Conduct CCME; 2013 Poster Presentation.
- **73 Reads on ResearchGate, Research Interest 1.2 (ResearchGate)**
 - Describes development of guidelines for medical student participation on social media outlets. The guidelines were accepted as part of the McGill Faculty of Medicine Code of Conduct and have gone through further updates available at: <http://www.mcgill.ca/ugme/academic-policies/guidelines-medical-students-public>. We also developed a section on social media wellness with a "To do list" and a set of 9 scenarios that we discuss annually during the orientation of new medical students at McGill. These are available at: <http://www.mcgill.ca/medwell/yourwellness/social>
11. Montezano, AC, Burger D, Paravicini TM, Chignalia AZ, Yusuf H, **Almasri M**, He Y, Callera GE, He G, Krause KH, Lambeth D, Quinn MT, Touyz RM. Nicotinamide

adenine dinucleotide phosphate reduced oxidase 5 (Nox5) regulation by angiotensin II and endothelin-1 is mediated via calcium/calmodulin-dependent, rac-1-independent pathways in human endothelial cells. *Circ Res.* 2010; 106: 1363-1373, PMID: 20339118

- Circulation Research, an American Heart Association (AHA) journal : 15.862 impact factor
- **151 citations (Google Scholar), 252 reads (Research Gate), 282 downloads (AHA), 64.0 Research Interest (Research Gate)**

RESEARCH IN PROGRESS:

12. Walker M, Almasri M, Ayeni OR. Book Chapter: Hip Osteoarthritis, Etiology & Treatment Options. Musculoskeletal Disorders, Springer. *Submitted to Springer.*
 - This invitation-only textbook aims to be the an updated go-to reference for physicians learning about musculoskeletal disorders. My chapter focuses on the main underlying etiologies for the development of hip osteoarthritis. Namely, these causes are outlined as femoroacetabular impingement, post-traumatic injury, avascular necrosis of the hip, and hip dysplasia. This chapter presents an updated and evidenced-based discussion of treatment options for hip osteoarthritis based on these causes.
13. **Almasri M**, Simunovic N, Heels-Ansdell D, Ayeni OR, on behalf of the FIRST Investigators. Osteochondroplasty Benefits the Pragmatic Patient with Femoroacetabular Impingement: Analysis from the Embedded Prospective Cohort of the FIRST Trial. *Submitted to Arthroscopy ARTH-21-181*
14. **Almasri M**, Simunovic N, Ayeni OR, on behalf of the FIRST Investigators. Urinary and Sexual Dysfunction following FAI Surgery: Analysis from the FIRST trial. *In preparation*
15. **Wang C, Almasri M**, Simunovic N, Ayeni OR. Systematic Review of the literature addressing the utility of the FEAR INDEX in defining hip instability. *In preparation*
16. Cohen D, Khan A, **Almasri M**, Kay J, Slawaska S, Simunovic Nicole, Duong A Ayeni OR. Postoperative Radiographic Outcomes in Arthroscopic Osteochondroplasty for FAI: A Systematic Review and Meta-Analysis. *In submission*
17. **Almasri M**, Kohrs B, Fleckenstein C, Hasan SS. A Systematic Review & Meta-analysis of the Safety & Efficacy of Reverse Shoulder Arthroplasty in the Oldest Patients. *In preparation*
18. **Almasri M**, Momoli F, Nicholls S, Pollock J, Lapner P. Developing a Novel & Validated Acromioclavicular Joint Scoring System. *In preparation.*
19. **Almasri M**, Montpetit, K, Hamdy R, Fassier F. Reviewing Complication Rates of Fassier-Duval Femoral Rodding in 86 Patients with Osteogenesis Imperfecta. *Internal retrospective review 2013. Shriners' Hospital, Montreal, Canada*

SUMMARY OF RESEARCH:

In summary, my Research Interest Score of 74.9 is higher than 62% of researchers on ResearchGate. My publications have been cited 158 times and read over 500 times. My published multimedia has been viewed **over 1500 times**.

I have focused my research efforts on a variety of basic science and clinical topics pertaining to the practice of medicine and surgery. Starting within the field of cellular & molecular medicine, my study of Nox5 signaling in human endothelial cells formed the platform for my basic science knowledge and research methods. This was under the direction of full professor Dr Rhian Touyz, who has published over 750 peer-reviewed manuscripts and who held the prestigious Canada Research Chair in Hypertension. My hypertension research holds strong relevance to my work as an Orthopaedic Surgeon, as we are utilizing anti-hypertensive medications to prevent the abnormal formation of hip stiffness post hip arthroscopic surgery.

My particular research interests have evolved to further focus on orthopaedic surgery, and in particular, the clinical, the patient-reported outcomes, and the biomechanical study of shoulder joint and the knee joint. In the shoulder, I took a leading role in devising an evidence-based psychometric protocol, while also orchestrating the patient and surgeon focus groups required, during our development of a novel and validated patient-outcome measure for the acromio-clavicular (AC) joint. My orthobiologics research in the shoulder focused on the study of bone marrow stimulation in improving healing rates in rotator cuff repair surgery. Continued interest in the shoulder led me to study the outcomes of reverse shoulder replacements in the oldest patient population. This has not been thoroughly studied in the past. Once published, my findings will highlight the safety, efficacy, and potential cost-saving nature of this procedure to the United States health care system.

In the knee, I have described a minimally invasive technique for the fixation of tibial plateau fractures. Separately, I have helped devise an evidence-based mathematic calculation describing the most accurate method of performing a slope reducing re-alignment osteotomy of the knee, hence reducing failure rates in ACL (anterior cruciate ligament) surgery. This technique and formula will make an important contribution to the field of sports medicine surgery, and its video publication has gathered over *1000 downloads* on VuMedi within 2 weeks of publication.

Lastly, I am actively involved in numerous research projects evaluating clinical outcomes in hip arthroscopy and in hip preservation surgery. I am part of the FIRST (**F**emoroacetabular **I**mpingement **R**andomised controlled **T**rial) study group, which has conducted the world's first randomized controlled trial (RCT)) to evaluate the outcomes of surgical correction of femoroacetabular impingement (FAI) via arthroscopic osteochondroplasty with or without labral repair compared with an arthroscopic lavage of the hip joint with or without labral repair. The scientific results from this international clinical trial will serve as landmarks in the hip preservation field when completed and published.

PRESENTATIONS & PROCEEDINGS:

Curso De Updates En Patologia De Hombro

Dec 2020

Updates in Shoulder Pathology - Virtual Shoulder Conference - *Invited Speaker*

Topic: Arthroscopic Soft Tissue Repairs for Shoulder Instability

Granada, Spain

Canadian Arthroscopy Meeting (CAM) – Conmed Linvatec **Nov 2020**
Virtual Conference
Clearwater, Florida, USA

DJO Advance Orthopedic Education – Fellows Switchover Course **Jul 2020**
Didactic presentation titled: Managing the B2, B3 Glenoid: High Side Reaming, Augmented Glenoid, or Reverse Total Shoulder Arthroplasty? – *Invited Speaker*
Cincinnati, Ohio, USA

SIU School of Medicine – Grand Rounds Lecture **Feb 2020**
Title: Orthobiologics & Advances in Sports Medicine Rehabilitation - *Invited Speaker*
Springfield, Illinois, USA

Canadian Orthopaedic Association (COA) – Annual meeting **Jun 2018**
Poster Presentation: Bone Marrow Stimulation Decreases Re-Tear Rates Following Primary Arthroscopic Rotator Cuff Repair: A Systemic Review and Meta-Analysis
Victoria, British Columbia, Canada

University of Ottawa Research in Progress Day **Nov 2017**
Title: What Outcome Measures Matter in AC Joint Disorders? Comparing the Patients' with the Surgeons' Perspective.
Ottawa, Ontario, Canada

University of Ottawa Research in Progress Day **Dec 2016**
Title: Developing a Novel & Validated Acromio-Clavicular Joint Scoring System.
Ottawa, Ontario, Canada

Canadian Conference on Medical Education (CCME) **Apr 2013**
Poster Presentation: Medical Students & Social Media – Guidelines for Online Behavior
Quebec City, Quebec, Canada

McGill University Student Research Day **Nov 2012**
Poster Presentation: The Use of microCT Analysis to Evaluate Changes in Vertebral Endplate & Subchondral Bone Architecture in the Context of Intervertebral Disc Degeneration.
Montreal, Quebec, Canada

PUBLISHED MULTIMEDIA:

Almasri M, Ayeni OR. Labral Reconstruction of the Hip: Indications & Outcomes. *Video Published on the FAI Application Nov 18, 2020.*

- This video published on the peer-reviewed iPhone/Android FAI app(femoroacetabular impingement application) reviews the best current evidence - as of the year 2020 - on indications outcomes for labral reconstruction of the hip.

Almasri M, Noyes FR. Anterior Closing Wedge Osteotomy of the Proximal Tibia – Video Review & Technical Instruction. *Published on VuMedi, Aug 31 2020.*

- This video reviews 6 techniques for a slope reducing anterior closing wedge osteotomy (ACWO) technique of the proximal tibia. We also present a case presentation of our own patient who has a high posterior tibial slope (PTS) of 17 degrees with recurrent knee instability and a failed anterior cruciate ligament reconstruction. We conclude the video with our proposed algorithm and technical

considerations for an accurate corrective osteotomy. The surgical technique and mathematical formula described will make an important contribution to the field of sports medicine surgery.

- <https://www.vumedi.com/video/anterior-closing-wedge-osteotomy-of-the-proximal-tibia-video-review-technical-instruction/>
- Registered 1,007 views on VuMedi within 14 days of online publication.

Visiting Professor Online Video Interview Series: <https://vimeo.com/uottawaortho>

Details:

- In this podcast and videos series, I interviewed world-renowned surgeons and together debate the latest evidence-based ‘hot’ topics in orthopaedic surgery.

Jan 2019 **Dr Donald Bae** – Boston Children’s Hospital, Harvard Medical School

Nov 2018 **Dr David Ring** – Professor of Surgery & Psychiatry, Dell Medical School

Oct 2018 **Dr David Mayman** - Associate Professor, Hospital for Special Surgery

Visiting Professors Online Podcast:

https://www.uottawaortho.ca/education/#section_two-hundred

Oct 2018 Don Johnson Sports Medicine Visiting Professor
Dr John Richmond – New England Baptist Hospital

Oct 2018 **Dr Bruce Levy** – Mayo Clinic, Rochester, Minnesota

Sep 2017 **Dr Laith Jazrawi** – Chief of Sports Medicine, New York University Hospital for Joint Disease, New York, NY

Feb 2018 James Wiley Pediatrics Visiting Professor
Dr Jonathan Schoenecker – Vanderbilt Medical Center, Nashville, Tennessee

Feb 2017 **Dr Lawson Copley** – Texas Scottish Rite Hospital, Dallas, Texas

Nov 2016 Adult Reconstruction Visiting Professor
Dr Bassam Masri – Department Chief, University of British Columbia, Vancouver, British Columbia

Nov 2015 **Dr Craig J. Della Valle** – Rush University, Chicago, Illinois

Sep 2016 Garth Johnson Trauma & Spine Visiting Professor
Dr David Sanders – Trauma, Western University, London, Ontario

Jan 2016 **Dr Christopher Bono** – Spine, Harvard University, Boston, Massachusetts

May 2016 Hans K. Uhtoff Visiting Professor
Dr David Barei – Trauma, Harborview Medical Centre, Seattle, Washington

PROFESSIONAL SOCIETY MEMBERSHIPS:

Arthroscopy Association of North America (AANA)

Aug 2020 (active)

Active Member

Details:

- The Arthroscopy Association of North America (AANA) is an international professional organization of more than 5,000 orthopaedic surgeons and other medical professionals who are committed to advancing the field of minimally-invasive orthopaedic surgery to improve patient outcomes.
- Criteria for membership:
 - Be a medical or osteopathic doctor who practices in North America
 - Have completed an orthopaedic surgery residency with proof of board certification (American Board of Orthopaedic Surgery, the Royal College of Physicians and Surgeons of Canada, the American Osteopathic Association, or the Consejo Mexicano de Ortopedia)
 - Two completed sponsorship forms from existing active AANA members (Dr Frank R. Noyes, and Dr Michael P. Palmer)

International Society for Hip Arthroscopy (ISHA)

Feb 2020 (active)

AKA. The Hip Preservation Society

Associate Member

Details:

- ISHA is a not-for-profit Society which aims to stimulate research and education in hip arthroscopic surgery and thereby expand the network of healthcare professionals undertaking the procedure safely. The vision of the Society is to be the premier international society for education and research in arthroscopic hip surgery.
- Criteria for membership:
 - Membership status is confirmed by the Executive Committee and presented to the Ordinary Membership at an annual general meeting or an extraordinary general meeting their approval.
 - <https://ishasoc.net/members/membership-information/>

American Orthopaedic Society for Sports Medicine (AOSSM)

Feb 2020 (active)

Candidate Member

Details:

- The AOSSM is a national organization of orthopaedic surgeons specializing in sports medicine, including national and international sports medicine leaders. AOSSM is world leader in sports medicine education, research, communication and fellowship. Formed in 1972 primarily as a forum for education and research, the AOSSM has grown from its modest initial membership of fewer than 100 to close to 3,000.
- Criteria for membership:
 - One year of completion of an ACGME approved Orthopaedic Sports Medicine fellowship program.
 - Demonstrate a significant contribution and commitment to sports medicine as required of active members and as otherwise established by the Board of Directors and Membership Committee
 - Supporting reference forms from residency program director (Dr Karl-Andre Lalonde) and fellowship program director (Dr Frank Noyes)
 - https://www.sportsmed.org/aossmimis/Members/Membership/Apply_for_Membership/Members/Membership/Membership_Categories.aspx?hkey=0295dd4e-5393-4d48-b29f-8a10bcb243fa

The Royal College of Physicians & Surgeons of Canada

Jul 2019 (active)

Fellow of the Royal College of Surgeons of Canada (Division of Surgery)

Details:

- The Royal College of Physicians and Surgeons of Canada is the national professional body overseeing the medical education of specialists in Canada. The Royal College issues designations and related documents which confirm achievement of and adherence to the high standards set by the Royal College.
- Criteria for certification and FRCSC designation:
 - Royal College certification attests to the fact that the certificant has met the highest Royal College standards of assessment for the certificant's specialty or subspecialty discipline.
 - Success on the Canadian Royal College Certification Exam for Orthopaedic Surgeons
 - <http://www.royalcollege.ca/rcsite/home-e>

American Medical Association**Mar 2019** (active)

Member

Details:

- Criteria for membership:
 - Physicians who possess the United States degree of doctor of medicine (MD) or doctor of osteopathic medicine (DO), or a recognized international equivalent.
 - Approval by the AMA Program Administrator (Matthew Hart) upon verification of completion of medical training in the US or Canada.

Canadian Orthopaedic Association (COA)**Jun 2016** (active)

Active International Member

Details:

- The Canadian Orthopaedic Association's mission is to serve the profession and promote excellent in orthopaedic and musculoskeletal health for Canadians. Their goals are to provide Canada with outstanding and committed surgeons, and ensure that adequate and accessible resources are available for Canadians.
- Criteria for selection:
 - Eligibility for active membership reviewed by the Membership Committee prior to being accepted as a member of the COA
 - Completed training in an approved orthopaedic surgery program
 - Obtained certification by the Royal College of Physicians and Surgeons of Canada
 - Practice full-time orthopaedic surgery in Canada or the United States

American Academy of Orthopaedic Surgeons (AAOS)**2020** (active)

Candidate Member

Details:

- Founded in 1933, the Academy is the preeminent provider of musculoskeletal education to orthopaedic surgeons and others in the world.
- Criteria for selection:
 - Available to graduates immediately upon completion of approved U.S./Canadian Orthopaedic residency programs who intend to pursue certification by the American Board of Orthopaedic Surgery (ABOS)
 - This status is held for a 5-year maximum following residency, including post-graduate fellowship(s).

REVIEWER EXPERIENCE:

Arthroscopy: The Journal of Arthroscopic and Related Surgery **2020 - present**

- Journal impact factor: 4.292
- Arthroscopy is the leading peer-reviewed journal in the field, and the official journal of the Arthroscopy Association of North America. Established in 1985, the journal covers research on the clinical practice of arthroscopic and minimally invasive surgery.
- Requirement to become a reviewer: recommendation from a leader in the field (Dr. Frank R. Noyes, and Dr Thomas N. Lindenfeld)

The American Journal of Sports Medicine (AJSM) **2020 – present**

- Journal impact factor: 5.810, 5-Year Impact Factor 6.804
- AJSM is a peer-reviewed scientific journal that is the official publication of the AOSSM (American Orthopaedic Society for Sports Medicine). It was first published in 1972, and the journal covers and presents research on several topics: basic science relevant to clinical sports medicine, arthroscopic and surgical techniques of the shoulder, elbow, knee and ankle, and rehabilitation and training.
- Requirement to become a reviewer: recommendation from a leader in the field (Dr. Frank Noyes)

BMC Musculoskeletal Disorders **2020 - present**

- Journal impact factor: 2.050
- *BMC Musculoskeletal Disorders* is an open access, peer-reviewed journal that considers articles on all aspects of the prevention, diagnosis and management of musculoskeletal disorders, as well as related molecular genetics, pathophysiology, and epidemiology.
- Requirement to become a reviewer: invitation from Associated Editor Dr Olufemi R. Ayeni

COMMITTEES & ADMINISTRATIVE SERVICES:

Resident Selection Committee **2016-2017**

Division of Orthopedic Surgery, University of Ottawa

Medical Council of Canada **2015-2019**

Test Marker - LMCC Exam Part 1 – Clinical Decision-Making Section

- The MCCQE (Medical Council of Canada Qualifying Exam) Part 1 is a one-day, computer based test that assesses the critical medical knowledge and clinical decision-making ability at a level expected of a medical student who is completing his/her medical degree in Canada. Success on Part 1 is a mandatory pre-requisite to obtain Licentiate status with the Medical Council of Canada (LMCC)

Medical Council of Canada **2019**

Examiner - NAC OSCE and LMCC Exam Part 2

- The NAC Examination is a one-day exam that assesses candidate readiness to enter a Canadian residency program. It is a national, standardized examination that tests the knowledge, skills, and attitudes essential for entrance into postgraduate training in Canada.
- The MCCQE (Medical Council of Canada Qualifying Exam) Part 2 is a clinical exam that assesses competence, knowledge, skills and attitudes essential for entry in independent clinical practice in Canada.
- Both the NAC and the MCCQE Part 2 are Objective Structured Clinical Examination (OSCE) that includes a series of stations where candidates are presented with typical

clinical scenarios in medicine, surgery, pediatrics, psychiatry, obstetrics and gynecology, and preventative medicine and public health.

Surgical Undergraduate Education Committee (SUEC) **2012-2014**
– Core & Senior Clerkship Representative
Faculty of Medicine, McGill University, Montreal, Quebec

McGill Senate – Medicine Student Senator **2011-2012**
Faculty of Medicine, McGill University, Montreal, Quebec

Workgroup on Social Media Guidelines for Medical Students **2011-2013**
Faculty of Medicine, McGill University, Montreal, Quebec

Medical Student Wellness Committee – (Group President in 2011, 2012) **2010-2014**
McGill University, Montreal, Quebec

Summary of having served as a JUDGE of the work of others:

I have had numerous and consistent experiences serving as a judge of the work of others in medicine and in surgery.

As a senior undergraduate student in Biochemistry, I was recruited to be a Teaching Assistant at the Biochemistry Microbiology and Immunology (BMI) Department at the University of Ottawa. This role is normally reserved for masters-level students, but my strong standing within the department awarded me the position. My job involved marking laboratory reports, evaluating technical performance, and calculating a cumulative final grade for the entire semester for a cohort of 2nd year Biochemistry students. As an orthopaedic surgery resident, I took part in the University of Ottawa Faculty of Medicine Physician Skills Development Program. This program culminated in me administering a formative final evaluation of the physical examination skills of 1st year medical students in the topic of musculoskeletal medicine.

While in residency, I was recruited to serve as an exam marker for the Medical Council of Canada Qualifying Exam Part 1, decision-making section. My role evolved in year 4 of the position to be a *super-marker*, whose job was to resolve any marking discrepancies regarding the accuracy of candidate answers. I was then recruited to become an examiner for the NAC and MCCQE Part 2 Objective Structured Clinical Examination (OSCE). My role was to evaluate candidates and determine their success on a standardized OSCE station using a strict marking criteria. Success on the MCCQE 2 is essential for entry in independent clinical practice in Canada.

I became involved in the selection committee of future residents and clinical fellows, during residency and fellowship, respectively. My role involved reviewing the resumes, reference letters and cover letters of potential candidates. I also conducted in-person interviews to determine aptitude and readiness for rigorous orthopaedic residency and fellowship training.

Lastly, I am currently serving as reviewer for three prestigious scientific journals in the field of Sports Medicine & Arthroscopic surgery. Using my knowledge in the areas of arthroscopy, sports medicine, and hip preservation surgery, my role as reviewer involves providing my expert opinion on submitted manuscripts before determining their eligibility for official publication.

TEACHING:

Site Chief Resident – Orthopaedic Surgery Children’s Hospital of Eastern Ontario, Ottawa, Ontario	2018
Physician Skills Development (PSD) Program Undergraduate Medical Education, University of Ottawa, Ottawa, Ontario	2018
Physician Skills Development (PSD) Program Undergraduate Medical Education, University of Ottawa, Ottawa, Ontario	2017
Physician Skills Development (PSD) Program Undergraduate Medical Education, University of Ottawa, Ottawa, Ontario	2016
Physician Skills Development (PSD) Program Undergraduate Medical Education, University of Ottawa, Ottawa, Ontario	2015
Physician Skills Development (PSD) Program Undergraduate Medical Education, University of Ottawa, Ottawa, Ontario	2014
Physician Apprenticeship - Co-Leader McGill Faculty of Medicine, Montreal, Quebec	2012-2014
Wellness Day – Student Keynote Speaker Faculty of Medicine, McGill University, Montreal, Quebec	2011-2013
Mentor & Interview preparation for pre-medical students University of Ottawa, Ottawa, Ontario	2010-2014
Teaching-assistant for Year 2 Biochemistry Laboratory University of Ottawa BMI Teaching Labs, Ottawa, Ontario	2008-2009

SUMMARY OF LEADING ROLE(S) FOR DISTINGUISHED ORGANIZATIONS:

I have held leadership positions for several distinguished organizations throughout my career. At McGill University’s Faculty of Medicine, I was one of the co-founders of the Social Media WorkGroup, who had defined the University’s first official social medial guidelines for medical students and health professionals. I was also nominated to serve as Medicine Senator on the McGill Senate, the governing body tasked with general control and supervision over the academic matters of the University.

I served as senior resident for 3 years at the University of Ottawa (uOttawa) Orthopaedic Surgery training program, and as Site-Chief at the Children’s Hospital of Eastern Ontario (CHEO) in year 4 of my residency. These roles involved managing the on-call physician schedule and supervising the work of medical students and junior residents. Moreover, I had delivered numerous evidence-based lectures and morbidity-and-mortality lectures to the resident body and to the Ottawa Hospital’s faculty members. At CHEO, I took a leading role in weekly indication rounds that focused on the pre-operative planning for complex surgical procedures in pediatric orthopaedics. For the uOttawa Division of Orthopaedics, I pioneered and edited an online podcast and visiting surgeon video-series in which I interviewed world-renowned surgeons on the latest evidence in the field of orthopaedic surgery. This endeavor was the first of its kind in Canada. These roles culminated in my invitation to serve on the resident selection committee for the division.

As a fellow at Mercy Health Hospital of Cincinnati/Cincinnati Sports Medicine and Orthopaedic Center, I served as assistant team physician to the FC Cincinnati (Football Club Cincinnati) Major League Soccer franchise. Specifically, I took part in the 2020 pre-season entrance physicals for the returning roster and new signings for the team. I similarly took part in entrance physicals for free-agents who trialed for the Cincinnati Bengals NFL football team.

VOLUNTEER EXPERIENCE:

Sep 2018 -Nov 2018 Team Broken Earth Haiti – Ottawa Team
Medical relief mission at the Hospital Bernard Mevs, Port-au-Prince,
Haiti
<https://brokengearth2018.wixsite.com/public>

Summer 2012 Certified Soccer Coach – Competitive Youth Soccer
NDG Panthers, Montreal, Quebec

May 2007- Aug 2010 Certified Soccer Coach – Competitive Youth Soccer
Nepean Hotspurs Soccer Club, Ottawa, Ontario