

Dr. Abdel-Rahman Aly
MB B Ch, FRCPC (Physiatry), CSCN (EMG) Dip., CIME, RMSK
Clinical Associate Professor at the Universities of Alberta and Calgary

(Updated January 15, 2025)

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Education & Medical Training:

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|-----------------------|--|-----------------------|
| • Mentorship | Interventional Pain Management, HealthPointe Spine Centre, University of Alberta, Edmonton, AB, Canada | July 2014 – June 2015 |
| • Residency | Physical Medicine & Rehabilitation (Physiatry)
University of Saskatchewan, Saskatoon, SK, Canada | July 2009 – June 2014 |
| • Residency | Orthopaedic surgery (incomplete training)
Police Authority Hospitals, Cairo, Egypt | June 2005 – Dec. 2006 |
| • Internship | General Rotating Internship
Ain Shams University, Cairo, Egypt | Mar. 2004 – Feb. 2005 |
| • M.B., B. Ch. | Bachelor of Medicine, Bachelor of Surgery
Ain Shams University, Cairo, Egypt | Sep. 1997 – Dec. 2003 |

Professional Credentials:

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| • CIME | Certified Independent Medical Examiner
American Board of Independent Medical Examiners (ABIME) | Dec. 2014
Re-C. 2023 |
| • DESS | Insurance Medicine and Medicolegal Expertise
University of Montréal, Montréal, QC, Canada | Dec. 2020 |
| • Ultrasonography | Ultrasound Guided Intervention Approval
PM&R section of Alberta Medical Association (AMA) | May 2016 |
| • Fluoroscopy | Diagnostic Imaging – Fluoroscopy Full Approval
College of Physicians and Surgeons of Alberta (CPSA) | Jan 2015 |
| • RMSK | Registered in Musculoskeletal ultrasonography.
American Registry for Diagnostic Medical Sonography | Dec. 2014 |
| • CSCN (EMG) Dip. | Canadian Society of Clinical Neurophysiologists Diplomat | June 2014 |
| • FRCPC | Fellow of the Royal College of Physician of Canada (Physiatry) | June 2014 |
| • LMCC | Licentiate of the Medical Council of Canada | Dec. 2008 |

Other Credentials & Certifications:

- **ACLS** Advanced Cardiac Life Support Recertified
Heart & Stroke Foundation Jan. 2025
- **CES** Clinical Exercise Specialist Jan. 2007
American Council on Exercise, USA
- **LWMC** Lifestyle & Weight Management Consultant Jan. 2007
American Council on Exercise, USA

Professional Practices:

- **Physiatrist** Canada Diagnostic Centres, Caleo Health Mar. 2023 – Present

Clinical Assessments and Fluoroscopic Guided
Spine/Pain Management Intervention.
- **Physiatrist** Momentum Health West Springs Jan. 2023 – Present

Clinical Assessments and Ultrasound Guided
MSK/Pain Management Intervention.
- **Physiatrist** Central Alberta Orthopaedics Sep. 2018 – Dec. 2022

Clinical Assessments and Ultrasound Guided
MSK/Pain Management Intervention.

Clinical Assessments and Fluoroscopic
Guided Spine/Pain Management Intervention.
- **Physiatrist** HealthPointe Medical Centre July 2014 – Dec. 2022

Clinical Assessments and Ultrasound Guided
MSK/Pain Management Intervention.

Clinical Assessments and Fluoroscopic Guided
Spine/Pain Management Intervention.

Clinical Assessments and Electrodiagnostic studies
for Neuromuscular disorder.

Appointments:

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| • Associate Clinical Processor | Physical Medicine and Rehab (PM&R) Division,
University of Calgary, Calgary, AB, Canada | Oct. 2024 – Present |
| • Associate Clinical Processor | PM&R Division, Department of Internal Medicine
University of Alberta, Edmonton, AB, Canada | July 2019 – Present |
| • Physician Examiner | Medical Council of Canada
Ottawa, ON, Canada | April 2019 – Present |
| • Assistant Clinical Professor | PM&R Division, Department of Internal Medicine
University of Alberta, Edmonton, AB, Canada | July 2016 – June 2019 |
| • Ultrasound Guided Credetials Assessor | Ultrasound Guided Intervention Credentials
Committee, PM&R section of AMA | May 2016 – Present |
| • Medical Director | HealthPointe Medical Centre Neurophysiology Lab
Edmonton, Alberta, Canada | Oct. 2015 – June 2020 |
| • Board of Director | Canadian Society of Medical Evaluators
Toronto, Ontario, Canada | June 2015 – June 2016 |
| • Clinical Lecturer | Physical Medicine & Rehab Department,
University of Alberta, Edmonton, AB, Canada | July 2014 – June 2016 |
| • Chief Resident | Physical Medicine & Rehab Department,
University of Saskatchewan, Saskatoon, SK, Canada | July 2011 – June 2012 |

Peer-reviewed Publications:

- 1 Rajasekaran S, Lo A, **Aly AR**, Ashworth N. Honorary authorship in postgraduate medical training. **Postgraduate medical journal**. 2015;91(1079):501-7. Epub 2015/08/27. Doi: 10.1136/postgradmedj-2015-133493. PubMed PMID: 26306503.
- 2 Hoeber S, **Aly AR**, Ashworth N, Rajasekaran S. Ultrasound-guided hip joint injections are more accurate than landmark-guided injections: a systematic review and meta-analysis. **British journal of sports medicine**: 2015. Epub 2015/06/13. Doi: 10.1136/bjsports-2014-094570. PubMed PMID: 26062955.
- 3 **Aly AR**, Rajasekaran S, Ashworth N. Ultrasound guidance improves accuracy and outcomes in shoulder girdle injections – A systematic review and meta-analysis. **British Journal of Sports Medicine**: 2014. Epub 2014/11/19. Doi: 10.1136/bjsports-2014-093573. PubMed PMID: 25403682.
- 4 Moulton KM, **Aly AR**, Rajasekaran S, Shepel M, Obaid H. Acetabular anteversion is associated with gluteal tendinopathy at MRI. **Skeletal radiology**: 2014. Epub 2014/08/28. Doi: 10.1007/s00256-014-1991-6. PubMed PMID: 25158908.
- 5 **Aly AR**, Rajasekaran S, Mohamed A, Beavis C, Obaid H. Feasibility of ultrasound-guided percutaneous tenotomy of the long head of the biceps tendon-A pilot cadaveric study. **Journal of clinical ultrasound: JCU**. 2014. Epub 2014/06/26. Doi: 10.1002/jcu.22189. PubMed PMID: 24962183.

- 6 **Aly AR**, Rajasekaran S, Obaid H, Bernacki B. Bilateral ulnar neuropathy at the elbow secondary to neuropathic arthropathy associated with syringomyelia. **PM & R: the journal of injury, function, and rehabilitation**. 2013;5(6):533-8. Epub 2013/06/26. Doi: 10.1016/j.pmrj.2013.01.010. PubMed PMID: 23790822.
- 7 **Aly AR**, Rajasekaran S, Obaid H. MRI morphometric hip comparison analysis of anterior acetabular labral tears. **Skeletal radiology**: 2013;42(9):1245-52. Epub 2013/06/14. Doi: 10.1007/s00256-013-1652-1. PubMed PMID: 23760571.
- 8 Rajasekaran S, Beavis C, **Aly AR**, Leswick D. The utility of ultrasound in detecting anterior compartment thickness changes in chronic exertional compartment syndrome: a pilot study. **Clinical journal of sport medicine: official journal of the Canadian Academy of Sport Medicine**. 2013;23(4):305-11. Epub 2013/04/06. Doi: 10.1097/JSM.0b013e3182856046. PubMed PMID: 23558330.

Abstracts Publications:

1. **Aly AR**, Rajasekaran S, Obaid H. MRI morphometric hip comparison analysis of anterior acetabular labral tears. **J Rehab Med**. 2014; 46: 1064
2. **Aly AR**, Rajasekaran S, Ashworth N. Ultrasound guidance improves accuracy and outcomes in shoulder girdle injections – a systemic review and meta-analysis. **J Ultrasound Med**. 2014 Apr;33(suppl):S62
3. **Aly AR**, Rajasekaran S, Obaid H, Beavis RC, Mohamed A. Feasibility of ultrasound-guided percutaneous tenotomy of the long head of the biceps tendon – A Pilot Study. **J Ultrasound Med**. 2014 Apr;33(suppl):S61
4. Rajasekaran S, **Aly AR**. Anterior Tibial Artery Flow Characteristics Do Not Change in Chronic Exertional Compartment Syndrome. **Clin J Sport Med**. 2013 Mar;23(2):132
5. Rajasekaran S, Beavis RC, **Aly AR**, Kanigan N, Leswick D. Using Ultrasound to Diagnose Chronic Exertional Compartment Syndrome. **PM R**. 2012 Oct;4(10 Suppl 2):S271

Presentations at Scientific Meetings:

Podium Presentations – Presenter / 1st Author

- MRI Morphometric Hip Comparison Analysis of Anterior Acetabular Labral Tears. June 2014
CAPM&R 62nd Annual Scientific Meeting, St. John's, Newfoundland, Canada
- Feasibility of Ultrasound-Guided Percutaneous Tenotomy of the Long Head of the Biceps Tendon – A Pilot Study April 2014
AIUM Annual Convention, Caesars Palace, Las Vegas, Nevada, USA.
- Ultrasound guidance improves accuracy and outcomes in shoulder girdle injections – a systemic review and meta-analysis April 2014
AIUM Annual Convention, Caesars Palace, Las Vegas, Nevada, USA.

- MRI Morphometric Hip Comparison Analysis of Anterior Acetabular Labral Tears. Nov. 2013
Alberta Physical Medicine & Rehabilitation Resident Research Day
University of Alberta & Calgary, Calgary, Alberta, Canada.
- MRI Morphometric Hip Comparison Analysis of Anterior Acetabular Labral Tears. May 2013
Department of Medical Imaging Research Day College of Medicine,
University of Saskatchewan, Saskatoon, SK, Canada

Podium Presentations – Co-author

- Honorary Authorship in Postgraduate Medical Training. May 2015
CAPM&R 63rd Annual Scientific Meeting, Vancouver, BC, Canada
- Ultrasound-guided hip joint injections are more accurate than landmark-guided May 2015
injections: a systematic review and meta-analysis.
CAPM&R 63rd Annual Scientific Meeting, Vancouver, BC, Canada
- Morphometric characteristics of the hip associated with magnetic resonance imaging May 2013
features of greater trochanteric pain syndrome.
Department of Medical Imaging Research Day
College of Medicine, University of Saskatchewan, Saskatoon, SK, Canada
- The Utility of Ultrasound in Detecting Anterior Compartment Thickness Changes in April 2013
Chronic Exertional Compartment Syndrome: A Pilot Study.
AIUM Annual Convention, New York, U.S.A.
- Anterior Tibial Artery Flow Characteristics do not change in Chronic Exertional April 2013
Compartment Syndrome.
AMSSM 22nd Annual Meeting, San Diego, CA, USA
- Using Ultrasound to Diagnose Chronic Exertional Compartment Syndrome. Sep. 2012
XXXII World Congress of Sports Medicine, Rome, Italy
- Using Ultrasound to Diagnose Chronic Exertional Compartment Syndrome. June 2012
CASEM Sports Medicine Conference, Kelowna, British Columbia, Canada

Poster Presentations – Presenter/1st Author

- MRI Morphometric Hip Comparison Analysis of Anterior Acetabular Labral Tears. Oct. 2013
ISS 40th annual meeting, Philadelphia, Pennsylvania, USA.
- MRI Morphometric Hip Comparison Analysis of Anterior Acetabular Labral Tears. June 2013
Residents Research Day, College of Medicine,
University of Saskatchewan Saskatoon, SK, Canada
- Anterior Tibial Artery Flow Characteristics in Chronic Exertional Compartment April 2013
Syndrome (coauthor)
CASEM Sports Medicine Conference, Whistler, British Columbia, Canada

Poster Presentations Co-author

- The relationship of acetabular anteversion, femoral neck anteversion and femoral neck shaft angle to greater trochanteric pain syndrome at MRI
ISS 40th Annual Meeting, Philadelphia, Pennsylvania, USA. (Pending) Oct. 2013
- Using Ultrasonography to Diagnose Chronic Exertional Compartment Syndrome
2012 AAPM&R Annual Assembly, Atlanta, Georgia, U.S.A. Nov. 2012
- Using Ultrasonography to Diagnose Chronic Exertional Compartment Syndrome
CITAC-CSCI Meeting & Young Investigators' Forum Ottawa, Ontario, Canada. Sep. 2012

Awards:

- 10th Canadian Comprehensive Review Course Teaching Excellence Award Mar. 2018
- University of Alberta L.A. Bellamy Teaching Award 2017-2018
- Resident Research award for completed research project (Co-author)
Ultrasound-guided hip injections are more accurate than landmark-guided injections.
Alberta Physiatrist Association meeting, Calgary, AB Oct. 2015
- Third place award for original research abstracts (Co-author)
Honorary Authorship in Postgraduate Medical Training.
CAPM&R 63rd Annual Scientific Meeting, Vancouver, BC May 2015
- First place award for systematic reviews (Co-author)
Ultrasound-guided hip injections are more accurate than landmark-guided injections.
CAPM&R 63rd Annual Scientific Meeting, Vancouver, BC May 2015
- Second place award for original research abstracts
MRI Morphometric Hip Comparison Analysis of Anterior Acetabular Labral Tears.
CAPMR 62nd annual scientific meeting, St. John's, NL June 2014
- R. Tait MacKenzie and Kinemedics Award (Co-author)
Using Ultrasound to Diagnose Chronic Exertional Compartment Syndrome
CASEM Sports Medicine Conference Kelowna, BC June 2012
- College of Medicine Resident Research Day Award (Co-author)
Using Ultrasound to Diagnose Chronic Exertional Compartment Syndrome
College of Medicine Resident Research Day, Saskatoon, Sk May 2012
- Best Research Award in the Division of Orthopaedic Surgery (Co-author)
Using Ultrasound to Diagnose Chronic Exertional Compartment Syndrome
University of Saskatchewan Surgery Resident Research Day, Saskatoon, SK April 2012

Research Grant:

- Saskatchewan Academy of Sports Medicine Research Grant; Feasibility of ultrasound-guided percutaneous tenotomy of biceps tendon long head. May 2013

Journal Reviewer and Editorial Activity:

- Reviewer, PLOS ONE Dec. 2014 – Present
- Reviewer, British Medical Journal Cases May 2014 – Present
- Reviewer, International Journal of Orthopaedics April 2014 – Present
- Reviewer, Aging Clinical and Experimental Research (ACER) Nov. 2103 – Present
- Reviewer, Orthopaedic & Muscular system: Current research, OMICS July 2013 – Present
- Reviewer, Skeletal Radiology journal April 2013 – Present

Invited Lectures & Courses:

- Course Instructor March 2018
10th Canadian Comprehensive Review Course
Edmonton, AB, Canada
- Course Instructor March 2017
Canadian Neuromusculoskeletal Ultrasound Symposium
University of Calgary, Calgary, AB
- Tendinopathy Management - An Evidence-Based Approach Jun. 2016
University of Alberta, Edmonton, AB
- Approach to Hip Pathologies Nov. 2015
University of Alberta, Edmonton, AB
- Evaluation of Entrapment Neuropathy in the Upper Limbs Jan. 2015
University of Alberta, Edmonton, AB
- Residents as Teachers June 2012
University of Saskatchewan, Saskatoon, SK
- Management of Chronic Tendinopathy - Evidence Based Feb. 2012
Department of Physical Medicine and Rehabilitation
University of Saskatchewan, Saskatoon, SK
- Management of Osteoarthritis in Elderly Patients Mar. 2010
Department of Internal Medicine
University of Saskatchewan, Saskatoon, SK

Courses and Conferences:

Advanced Interventional Procedure Management of Chronic Pain, Barcelona, Spain	April 2024
Advanced Interventional and Regenerative Musculoskeletal Ultrasound	Feb. 2024
AMA Guides to the Evaluation of Permanent Impairment 6 th Ed, ABIME	Dec. 2023
2019 AAPM&R Annual Assembly, San Antonio, Texas, USA	Nov. 2019
Ultrasound Guided Spine intervention, PM&R department University of Calgary, AB	Jun. 2019
Regenerative Medicine comprehensive review course, Orlando, FL, USA	Feb. 2019
Sports Medicine Review, American Seminar Institute, Cancun, Mexico	Dec. 2018
TOBI 9 th Annual PRP & Regenerative Medicine, Las Vegas, NV, USA	June 2018
Pain Management review, American Seminar Institute	Dec. 2017
Interventional Management of Chronic Musculoskeletal Pain, CAPRI, AB	Dec. 2017
Canadian PM&R Neuromuscular Ultrasound Symposium, Calgary, AB	Mar. 2017
Hands-on Diagnostic and Interventional Musculoskeletal Ultrasound, AIUM	May 2016
Sports Ultrasound Cadaver Course, AMSSM	Nov. 2015
Radiofrequency Bio Skills Lab, Spine Intervention Society	Aug. 2015
Cervical Procedure Bio Skills Lab, Spine Intervention Society	Feb. 2015
AMA Guides to the Evaluation of Permanent Impairment 6 th Ed, ABIME	Oct. 2014
Lumbar Procedure Bio Skills Lab, Spine Intervention Society	Oct. 2014
Harvard EMG and Neuromuscular Medicine course	Nov. 2013
ISS Musculoskeletal ultrasound course: Hand & wrist	Oct. 2013
ISS 40th annual meeting, Philadelphia, Pennsylvania, USA	Oct. 2013
Crucial Conversation Training, Canadian Society of Physician Executive	Sep. 2013
61 st CAPM&R Annual Scientific Meeting, Montreal, Ottawa	May 2013
Canadian PM&R 3 rd annual Ultrasound course (intermediate level)	May 2013
CASEM Sports Medicine Conference, Whistler, BC	April 2013
47 th Comprehensive review course in PM&R, University of Texas	Mar. 2013
Writing for Biomedical Publication workshop, Mayo Clinic	Mar. 2013
EMG and Neurophysiology in Clinical Practice Course, Mayo Clinic	Feb. 2013
CASEM Sports Medicine Conference, Kelowna, BC	May 2012
Canadian PM&R Neuromuscular Ultrasound Symposium, Calgary, AB	Mar. 2012
Health Pointe Pain and Musculoskeletal Medicine Retreat, Banff, AB	Dec. 2012
Health Pointe Pain and Musculoskeletal Medicine Retreat, Banff, AB	Dec. 2011
59 th CAPM&R Annual Scientific Meeting, Victoria, BC	Feb. 2011
Clinical Teaching TIPS course, University of Saskatchewan	June 2011
Critical Appraisal course, College of Medicine, University of Saskatchewan	Sep. 2010

58th CAPM&R Annual Scientific Meeting, Winnipeg, MB
 Clinical Research Methodology, University of Saskatchewan

May 2010
 Dec. 2009

Professional Memberships:

Alberta Medical Association	2014 – Present
American Institute of Ultrasound Medicine	2013 – Present
Royal College of Physician and Surgeon of Canada	2013 – Present
Publication Integrity and Ethics organization	2013 – Present
Canadian Medical Association	2009 – Present
Canadian Society of Medical Evaluators	2015 – 2017
International Spine Intervention Society	2013 – 2017
American Association of Physical Medicine and Rehabilitation	2013 – 2017
International Federation of Sports Medicine	2012 – 2016
Canadian Academy of Sport and Exercise Medicine	2012 – 2016
Canadian Association of Physical Medicine and Rehabilitation	2009 – 2015