

# **CURRICULUM VITAE (CV)**

**Babaei-Ghazani, Arash**

**Medical Doctor (MD)**

**Musculoskeletal Ultrasound and Fluoroscopic Guided Spine Interventions Fellowship (from Montreal University)**

**Physical Medicine and Rehabilitation Specialist (Physiatrist)**

**Associate Professor**

## ***Personal Detail***

*First name: Arash*

*Surname: Babaei Ghazani*

*Date & place of birth: 06.08.1982, Tabriz*

*Nationality: Iranian*

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## ***Educational Background:***

***Musculoskeletal Ultrasound and Fluoroscopic Guided Spine interventions Fellowship***  
*2020-2021 Montreal University, Montreal, Canada*

***Board certified Physical Medicine & Rehabilitation specialty in 2013***

***Physical Medicine & Rehabilitation resident 2010-2013 in Tabriz University of Medical Sciences***

***General Medicine October 2001 - September 2008 in Tabriz University of Medical Sciences***

**Medical activity:** *Faculty member and associate professor of Physical Medicine & Rehabilitation at Iran University of Medical Sciences (faculty member since 2014)*

**Language Capability:**

1. *Farsi*
2. *English*
3. *Native language: Turkish (Azari)*
4. *French*

**Research Interests:**

*Musculoskeletal Sonography*  
*Musculoskeletal Ultrasound Guided Interventions*  
*Fluoroscopic Guided Spine Interventions*  
*Pain Management*  
*Electro-diagnostic Medicine and Neuromuscular Disease*

**Manuscript reviewer for:**

*American Journal of Physical Medicine & Rehabilitation*  
*Archives of Physical Medicine & Rehabilitation*  
*Pain medicine*  
*Clinical Rheumatology*  
*Journal of Clinical Neurophysiology*  
*Therapeutic Advances in Musculoskeletal Disease*  
*Journal of Back and Musculoskeletal Rehabilitation*  
*The Anatolian Journal of Cardiology*  
*Medical Journal of Tabriz University of Medical Sciences*  
*Journal of International Medical Research*

## **Publications:**

1. **Babaei-Ghazani A**, Eftekharsadat B, Soleymanzadeh H, ZoghAli M. *Ultrasound-Guided Pes Anserine Bursitis Injection Choices: Prolotherapy or Oxygen-Ozone or Corticosteroid: A Randomized Multicenter Clinical Trial.* *Am J Phys Med Rehabil.* 2024; 103(4): 310-317. doi: 10.1097/PHM.0000000000002343.
2. Sarveazad A, Yari A, Imani F, Fayyaz F, Mokhtare M, **Babaei-Ghazani A**, Yousefifard M, Sarveazad S, Assar S, Shamseddin J, Bahardoust M. *The effect of Trolox on the rabbit anal sphincterotomy repair.* *BMC Gastroenterol.* 2023; 23(1):209. doi: 10.1186/s12876-023-02842-z.
3. Rayegani SM, Soltani V, Cheraghi M, Omid Zohor MR, **Babaei-Ghazani A**, Raeissadat SA. *Efficacy of ultrasound guided caudal epidural steroid injection with or without ozone in patients with lumbosacral canal stenosis; a randomized clinical controlled trial.* *BMC Musculoskelet Disord.* 2023; 24(1):339. doi: 10.1186/s12891-023-06451-5.
4. Ahadi T, Yousefi A, Sajadi S, Yousefi N, **Babaei-Ghazani A**. *Comparing radial extracorporeal shockwave therapy and corticosteroid injection in the treatment of piriformis syndrome: A randomized clinical trial.* *J Bodyw Mov Ther.* 2023; 33: 182-188. doi: 10.1016/j.jbmt.2022.09.020.
5. Mazerolle M, **Babaei-Ghazani A**, Boudier-Revéret M, Chang MC. *A small painful neuroma of the transverse cervical nerve treated with pulsed radiofrequency: A case report.* *J Back Musculoskelet Rehabil.* 2023; 36(3): 767-771. doi: 10.3233/BMR-220114.
6. Raissi G, Arbabi A, Rafiei M, Forogh B, **Babaei-Ghazani A**, Khalifeh Soltani S, Ahadi T. *Ultrasound-Guided Injection of Dextrose Versus Corticosteroid in Chronic Plantar Fasciitis Management: A Randomized, Double-Blind Clinical Trial.* *Foot Ankle Spec.* 2023; 16(1):9-19. doi: 10.1177/1938640020980924.

7. Sarvenaz Zavarei, Shayesteh Khalifeh Soltani, Gholamreza Raissi, **Arash Babaei-Ghazani**, Saeed Safarnezhad, Hosnieh Soleymanzadeh, Tannaz Ahadi. *Efficacy of ultrasonography-guided compared to surface landmark-based corticosteroid injection for people with chronic pes anserine tendinitis or bursitis: a randomised controlled trial. International Journal of Therapy And Rehabilitation. 2023; 30 (4), 1-10. Doi: 10.12968/ijtr.2021.0140*
8. **Babaei-Ghazani A**, Moradnia S, Azar M, Forogh B, Ahadi T, Chaibakhsh S, Khodabandeh M, Eftekharsadat B. *Ultrasound-guided 5% dextrose prolotherapy versus corticosteroid injection in carpal tunnel syndrome: a randomized, controlled clinical trial. Pain Manag. 2022; 12(6):687-97.*
9. **Babaei-Ghazani A**, Aflakian N, Fadavi H R, Babashahi A, Azar M, Afshari-Azar F, et al . *Pronator Teres Reflex and the Diagnosis of C6 and C7 Radiculopathy. Iranian Rehabilitation Journal. 2022; 20 (1) :73-80*
10. Forogh, Bijan; Karimzad, Yousef; **Babaei-Ghazani, Arash**; Janbazi, Lobaneh; Bagherzadeh Cham, Masumeh; Abdolghaderi, Siavash. *Effect of extracorporeal shockwave therapy on medial tibial stress syndrome: a systematic review. Current Orthopaedic Practice. 2022; 33(4):384-92.*
11. Azizi Ata N, Khoddami SM, **Babaei-Ghazani A**, Izadi F, Maroufizadeh S. *Strain Elastosonography Measurement in Patients with Primary Muscle Tension Dysphonia Compared with Healthy Speakers: A Pilot Study. J Voice. 2022; 36(2):290.e7-290.e15. doi: 10.1016/j.jvoice.2020.05.026.*
12. Sarveazad A, Yari A, **Babaei-Ghazani A**, Mokhtare M, Bahardoust M, Asar S, Shamseddin J, Yousefifard M, Babahajian A. *Combined application of chondroitinase ABC and photobiomodulation with low-intensity laser on the anal sphincter repair in rabbit. BMC Gastroenterol. 2021; 21(1): 473. doi: 10.1186/s12876-021-02047-2.*

13. **Babaei-Ghazani, A., Boudier-Revéret, M. & Michaud, J.** Zebras in the Shoulder: **a Review Article** on Advanced Diagnostic Ultrasound of the Shoulder. *Curr Phys Med Rehabil Rep.* 2021; 9, 243–251. Doi:10.1007/s40141-021-00331-6
14. **Babaei-Ghazani A, Majdalani C, Luong DH, Bertrand-Grenier A, Sobczak S.** Sonoelastography of the shoulder: **A narrative review.** *Frontiers in Rehabilitation Sciences.* 2021; 2:11. Doi: 10.3389/freesc.2021.704725
15. **Forough B, Mohamadi H, Fadavi HR, Madani P, Aflakian N, Ghazaie F, Babaei-Ghazani A.** Comparison of Ultrasound-Guided Local Ozone (O<sub>2</sub>-O<sub>3</sub>) Injection Vs Corticosteroid Injection in Patients with Mild to Moderate Carpal Tunnel Syndrome. *Am J Phys Med Rehabil.* 2021; 100(2): 168-172. doi: 10.1097/PHM.0000000000001546.
16. **Ebadi S, Henschke N, Forogh B, Nakhostin Ansari N, van Tulder MW, Babaei-Ghazani A, Fallah E.** Therapeutic ultrasound for chronic low back pain. *Cochrane Database Syst Rev.* 2020; 7(7): CD009169. doi: 10.1002/14651858.CD009169.
17. **Eftekharsadat B, Fasaie N, Gotalizadeh D, Babaei-Ghazani A, Jahanjou F, Eslampoor Y, Dolatkah N.** Comparison of efficacy of corticosteroid injection versus extracorporeal shock wave therapy on inferior trigger points in the quadratus lumborum muscle: a randomized clinical trial. *BMC Musculoskelet Disord.* 2020; 21(1):695. doi: 10.1186/s12891-020-03714-3.
18. **Khodadadi L, Karimzade A, Rayegani SM, Jafarian N, Raeissadat SA, Yasrebi S, Babaei-Ghazani A, Eftekharsadat B.** Beliefs, attitude, and knowledge of the Iranian physiatrists towards neuromusculoskeletal ultrasound and common barriers in its application. *BMC Musculoskelet Disord.* 2020; 21(1): 680. doi: 10.1186/s12891-020-03708-1.
19. **Mokhtare M, Karimi S, Bahardoust M, Sotoudeheian M, Ghazi A, Babaei-Ghazani A.** How adding the abdominal massage to polyethylene glycol can improve symptom and quality of life in patients

with functional constipation in comparison with each one of the treatment modalities alone: A randomized clinical trial. *Complement Ther Med.* 2020; 52: 102495. doi: 10.1016/j.ctim.2020.102495.

20. **Babaei-Ghazani A**, Forogh B, Raissi GR, Ahadi T, Eftekharsadat B, Yousefi N, Rahimi-Dehgolan S, Moradi K. *Ultrasound-Guided Corticosteroid Injection in Carpal Tunnel Syndrome: Comparison Between Radial and Ulnar Approaches.* *J Pain Res.* 2020; 13:1569-78. doi: 10.2147/JPR.S248600.
21. **Babaei-Ghazani A**, Shahrami B, Fallah E, Ahadi T, Forough B, Ebadi S. *Continuous shortwave diathermy with exercise reduces pain and improves function in Lateral Epicondylitis more than sham diathermy: A randomized controlled trial.* *J Bodyw Mov Ther.* 2020; 24(1):69-76. doi: 10.1016/j.jbmt.2019.05.025.
22. Sarveazad A, Babahajian A, Yari A, Rayner CK, Mokhtare M, **Babaei-Ghazani A**, Agah S, Mahjoubi B, Shamseddin J, Yousefifard M. *Combination of laser and human adipose-derived stem cells in repair of rabbit anal sphincter injury: a new therapeutic approach.* *Stem Cell Res Ther.* 2019; 10(1):367. doi: 10.1186/s13287-019-1477-5
23. **Babaei-Ghazani A**, Fadavi HR, Eftekharsadat B, Ebadi S, Ahadi T, Ghazaei F, Khabbaz MS. *A Randomized Control Trial of Comparing Ultrasound-Guided Ozone (O<sub>2</sub>-O<sub>3</sub>) vs Corticosteroid Injection in Patients With Shoulder Impingement.* *Am J Phys Med Rehabil.* 2019; 98(11): 1018-1025. doi: 10.1097/PHM.0000000000001240.
24. Roomizadeh P, Eftekharsadat B, Abedini A, Ranjbar-Kiyakalayeh S, Yousefi N, Ebadi S, **Babaei-Ghazani A**. *Ultrasonographic assessment of carpal tunnel syndrome severity: A systematic review and meta-analysis.* *Am J Phys Med Rehabil.* 2019; 98(5): 373-381. doi: 10.1097/PHM.0000000000001104.

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26. **Babaei-Ghazani A**, Roomizadeh P, Sanaei G, Najarzadeh-Mehdikhani S, Habibi K, Nikmanzar S, Kheyrollah Y. Ultrasonographic reference values for the deep branch of the radial nerve at the arcade of Frohse. *J Ultrasound*. 2018; 21(3):225-231. doi: 10.1007/s40477-018-0303-8.
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28. Forogh B, Aslanpour H, Fallah E, **Babaei-Ghazani A**, Ebadi S. Adding high- frequency transcutaneous electrical nerve stimulation to the first phase of post anterior cruciate ligament reconstruction rehabilitation does not improve pain and function in young male athletes more than exercise alone: a randomized single- blind clinical trial. *Disabil Rehabil*. 2019; 41(5): 514-522. doi: 10.1080/09638288.2017.1399294.
29. **Babaei-Ghazani A**, Najarzadeh S, Mansoori K, Forogh B, Madani SP, Ebadi S, Fadavi HR, Eftekharsadat B. The effects of ultrasound-guided corticosteroid injection compared to oxygen-ozone ( $O_2-O_3$ ) injection in patients with knee osteoarthritis: a randomized controlled trial. *Clin Rheumatol*. 2018; 37(9):2517-2527.
30. **Babaei-Ghazani A**, Roomizadeh P, Nouri E, Raeisi G, Yousefi N, Asilian-Mahabadi M, Moeini M. Ultrasonographic reference values for the median nerve at the level of pronator teres muscle. *Surg Radiol Anat*. 2018; 40(9):1019-1024.

31. Eftekharsadat B, Porjafar E, Eslamian F, Shakouri SK, Fadavi HR, Raeissadat SA, **Babaei-Ghazani A**. Combination of exercise and acupuncture vs acupuncture alone for treatment of myofascial pain syndrome: A randomized clinical trial. *J Acupunct Meridian Stud*. 2018; 11(5): 315-322.
32. **Babaei-Ghazani A**, Roomizadeh P. The Role of Electrodiagnostic Studies in Carpal Tunnel Syndrome: Beyond Confirmation of Diagnosis. *Orthopedics*. 2018; 41(2): 67.
33. **Babaei-Ghazani A**, Nikbakht N, Forogh B, Raissi GR, Ahadi T, Ebadi S, Roomizadeh P, Fadavi HR, Raeissadat SA, Eftekharsadat B. The comparison between effectiveness of ultrasound guided corticosteroid injection above versus below the median nerve in mild to moderate carpal tunnel syndrome: A randomized controlled trial. *Am J Phys Med Rehabil*. 2018; 97(6):407-413.
34. **Babaei-Ghazani A**, Roomizadeh P, Forogh B, Moeini-Taba S-M, Abedini A, Kadkhodaie M, Jahanjoo F, Eftekharsadat B. Ultrasound-guided versus landmark- guided local corticosteroid injection for carpal tunnel syndrome: A systematic review and meta-analysis of randomized controlled clinical trials. *Arch Phys Med Rehabil*. 2018; 99(4):766-775. Review.
35. Eftekharsadat B, Roomizadeh P, Torabi S, Heshmati-Afshar F, Jahanjoo F, **Babaei-Ghazani A**. Effectiveness of *Lavendula stoechas* essential oil in treatment of mild to moderate carpal tunnel syndrome: A randomized controlled trial. *J Hand Ther*. 2018 ; 31(4): 437-442.
36. Eftekharsadat B, **Babaei-Ghazani A**, Samadirad B, Mamaghany V. Cervical and Upper Limb Peripheral Nerve Injuries in Adults: Electrodiagnostic Studies and Symptoms, *Trauma Mon*. 2018; 23(3):e59809.
37. **Babaei-Ghazani A**, Eftekharsadat B, Samadirad B, Mamaghany V, Abdollahian S. Traumatic lower extremity and lumbosacral peripheral nerve injuries in adults: Electrodiagnostic studies and patients symptoms. *J Forensic Leg Med*. 2017; 52: 89-92.



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40. Karimzadeh A, Raeissadat SA, Erfani Fam S, Sedighipour L, **Babaei-Ghazani A**. Autologous whole blood versus corticosteroid local injection in treatment of plantar fasciitis: A randomized, controlled multicenter clinical trial. *Clin Rheumatol*. 2017; 36(3):661-669.
41. Eslamian F, Eftekharsadat B, **Babaei-Ghazani A**, Jahanjoo F, Zeinali M. A Randomized Prospective Comparison of Ultrasound Guided and Landmark Guided Steroid Injections for Carpal Tunnel Syndrome. *J Clin Neurophysiol*. 2017; 34(2):107-113.
42. **Babaei-Ghazani A**, Mohammadi H, Shahidi GA, Habibi SA, Forogh B, Ahadi T, Eftekharsadat B. Reliability and validity of the Persian translation of Berg Balance Scale in Parkinson disease. *Aging Clin Exp Res*. 2017; 29(5): 857-862.
43. **Arash Babaei-Ghazani**, Safoora Ebadi, Bijan Forogh, Bina Eftekharsadat. Sonographic Diagnosis of Acute Achilles Tendon Tear: A case report. *SM Musculoskeletal Disorders*. 2016; 1(1), 1002
44. Yazdani AH, Hesari P, Eghbali-Khosro Sh, Anbarian M, **Babaei-Ghazani A**. Effects of six-week exercise training protocol on pain relief in patients with lumbar disc herniation. *J Anal Res Clin Med*. 2016; 4(1): 27-33.

45. Eftekharsadat B, **Babaei-Ghazani A**, Zeinolabedinzadeh V. Dry needling in patients with chronic heel pain due to plantar fasciitis: A single-blinded randomized clinical trial. *Med J Islam Repub Iran*. 2016; 30: 401.
46. **Babaei-Ghazani A**, Eftekharsadat B. Familial Amyloid Polyneuropathy Type IV (FINNISH) with Rapid Clinical Progression in an Iranian Woman: A Case Report. *Iran J Med Sci*. 2016; 41(3): 241-4.
47. **Babaei-Ghazani A**, Eftekharsadat B. Ultrasound guided injection of resistant extra-articular shoulder and elbow cysts in rheumatoid arthritis: A Case Report. *J Back Musculoskelet Rehabil*. 2016; 29 (2), 381-385
48. Bina Eftekharsadat, **Arash Babaei-Ghazani**, Afshin Habibzadeh. The Efficacy of 100 and 300 mg Gabapentin in the Treatment of Carpal Tunnel Syndrome. *Iranian Journal of Pharmaceutical Research*. 2015; 14 (4): 1275-1280
49. Eftekharsadat B, **Babaei-Ghazani A**, Niknejad-Hosseyni SH, Toopchizadeh V, Sadeghi H. Reliability and validity of Persian version of Western Ontario and McMaster Universities Osteoarthritis index in knee osteoarthritis. *J Anal Res Clin Med*. 2015; 3(3): 170-7.
50. Bina Eftekharsadat, **Arash Babaei-Ghazani**, Afshin Habibzadeh, Babak Kolahi. Efficacy of action potential simulation and interferential therapy in the rehabilitation of patients with knee osteoarthritis. *Therapeutic Advances in Musculoskeletal Disease*. 2015; 7: 67-75
51. Eftekharsadat B, **Babaei-Ghazani A**, Mohammadzadeh M, Talebi M, Eslamian F, Azari E. Effect of virtual reality-based balance training in multiple sclerosis. *Neurol Res*. 2015; 37(6):539-44.
52. **Babaei-Ghazani A**, Eftekharsadat B, Ghabili K. Simultaneous Bilateral Biceps Tendon

*Rupture: A Case Report with Practical Sonographic Diagnosis. Am J Phys Med Rehabil. 2015; 94(2): e13-8.*

53. *Shakouri SK, Razavi Z, Eslamian F, Sadeghi-Bazargani H, Ghaffari S, **Babaei-Ghazani A.** Effect of Enhanced External Counterpulsation and Cardiac Rehabilitation on Quality of Life, Plasma Nitric Oxide, Endothelin 1 and High Sensitive CRP in Patients With Coronary Artery Disease: A Pilot Study. Ann Rehabil Med. 2015; 39(2):191-8.*
54. *Arash **Babaei-Ghazani**, Bina Eftekharsadat. One year after twin earthquakes in Northwest Iran. Environ Health Prev Med. 2014; 19(2):177. doi: 10.1007/s12199-014-0381-y.*
55. *Bina Eftekharsadat, **Arash Babaei-Ghazani**, Mahasti Alizadeh, Morteza Ghojzadeh, Ghader Ghaffari. The Effect of Teaching Practical Physical Modalities on the Ordering Skills of Physical Medicine and Rehabilitation Residents. Res Dev Med Educ, 2013, 2(1), 41-42*
56. *Shimia M, **Babaei-Ghazani A**, Sadat BE, Habibi B, Habibzadeh A. Risk factors of recurrent lumbar disk herniation. Asian J Neurosurg 2013;8:93-6*