

# Mahsa Babaei, MD

Postdoctoral Research Fellow – Neurology (Stanford University)

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## Education & Training

### 2024–Present

Postdoctoral Research Fellow, Department of Neurology & Neurological Sciences, Stanford University, CA, USA

### 2020–2024

Research Fellow, Tehran University of Medical Sciences, Tehran, Iran

### 2020

Doctor of Medicine (MD), Shahid Beheshti University of Medical Sciences, Tehran, Iran

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## Research Interests

Neuroimaging • Neuroradiology • Headache pathophysiology • Brain network analysis • AI in medicine

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## Honors & Awards

- Top 0.01% Rank, Iranian National University Entrance Exam (among >1,000,000 participants)
  - Member, Gifted and Talented Students Program, Ministry of Health, Iran (2013–Present)
  - Teamwork Award, National Education Olympiad, Ministry of Health, Iran (2017–2018)
  - Member, National Organization for Development of Exceptional Talents (2006–2013)
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## Editorial Experience and Peer Review

- Guest Editor, *Journal of Personalized Medicine*
- Reviewer, *American Journal of Neuroradiology Healthcare*
- Reviewer, *Acta Neurologica Scandinavica*
- Reviewer, *Medicina*
- Reviewer, *Psychology, Health & Medicine*
- Reviewer, *International Journal of Behavioral Medicine*
- Reviewer, *Journal of Pharmacy Practice*

## Peer-Reviewed Publications

1. Sridhar J, **Babaei M**, Sanjanwala BM, Cowan RP, DeSouza DD. *Neuroimaging-based subtyping of migraine identifies clinically distinct phenotypes*. **Cephalalgia**. Accepted, in press.
2. **Babaei M**, Sridhar J, Sanjanwala BM, DeSouza DD, Cowan RP. *Migraine sub-typing based on naturalistic and comprehensive phenotype assessment*. **Cephalalgia**. Accepted, in press.
3. **Babaei M**, Sridhar J, Sanjanwala BM, Peretz AM, Cady RK, Cowan RP. *Comparing detailed phenotypic characteristics and treatment outcomes among menstrual-related and non-menstrual-related migraine*. **Cephalalgia**. Accepted, in press.
4. Steinmetz JD, et al. *Global, regional, and national burden of disorders affecting the nervous system, 1990–2021: a systematic analysis for the Global Burden of Disease Study 2021*. **Lancet Neurology**. 2024;23(4):344–381.
5. **Babaei M**, Rapoport AM. *Device profile of Nerivio for the acute and preventive treatment of episodic or chronic migraine in patients 12 years and older*. **Expert Review of Medical Devices**. 2023;20(6):433–447.
6. Dadvar A, Jameie M, Azizmohammad Looha M, et al. *Potential efficacy of caffeine ingestion on balance and mobility in patients with multiple sclerosis: preliminary evidence from a single-arm pilot clinical trial*. **PLoS One**. 2024;19(2):e0297235.
7. Togha M, **Babaei M**, Ghelichi PG. *Reversible cerebral vasoconstriction syndrome (RCVS): an interesting case report*. **Journal of Headache and Pain**. 2021;22:20.
8. Togha M, **Babaei M**, Jameie M. *Good response to rectal diazepam in refractory cases of cyclic vomiting: a case-series and review of the literature*. **Clinical Case Reports**. 2023;11:e8109.
9. Jartarkar SR, Cockerell CJ, Patil A, Kassir M, **Babaei M**, et al. *Artificial intelligence in dermatopathology*. **Journal of Cosmetic Dermatology**. 2022.
10. Mohammad Beigi A, **Babaei M**. *Relationship between procrastination and attitude toward substance use among medical students*. **Journal of Neuroscience and Neurological Research**. 2022.
11. Mohammad Beigi A, **Babaei M**. *Prediction of self-esteem as it relates to parental and peer attachment among adolescents with a cultural perspective*. **Clinical Research and Studies**. 2022.
12. Mohammad-Beigi A, **Babaei M**. *Mental health and attitude toward substance use among medical students*. **Journal of Psychology and Mental Health Care**. 2021.
13. Agin K, Dehaghi AMB, **Babaei M**. *Assessment of the relationship between attitude toward substance abuse and early maladaptive schemas in medical students*. **Journal of Psychology & Psychotherapy**. 2019.
14. Shin YH, Hwang J, Kwon R, et al. *Global, regional, and national burden of allergic disorders and their risk factors in 204 countries and territories, from 1990 to 2019*. **Allergy**. 2023;78:2232–2254.

15. Comfort H, et al. *Global, regional, and national stillbirths at 20 weeks' gestation or longer in 204 countries and territories, 1990–2021. The Lancet.* 2024;404:1955–1988.
  16. Naghavi M, et al. *Global burden of bacterial antimicrobial resistance 1990–2021: a systematic analysis with forecasts to 2050. The Lancet.* 2024;404:1199–1226.
  17. Rashidi MM, et al. *Mortality and disability-adjusted life years in North Africa and Middle East attributed to kidney dysfunction. Clinical Kidney Journal.* 2024.
  18. **Babaei M**, Rezaei S, Saghafi Khadem S, Shirinbak I, Basir Shabestari S. *The role of salivary C-reactive protein in systemic and oral disorders: a systematic review. Medical Journal of the Islamic Republic of Iran.* 2022;36:138.
  19. Rokni GR, Gholizadeh N, **Babaei M**, Das K. *Artificial intelligence in inflammatory skin disorders. Dermatological Reviews.* 2024.
  20. Rokni GR, Gholizadeh N, **Babaei M**, Das K. *Artificial intelligence in infectious skin disease. Dermatological Reviews.* 2024.
  21. Gholizadeh N, Rahmatpour Rokni G, **Babaei M**. *Advantages and disadvantages of using artificial intelligence in dermatology. Dermatological Reviews.* 2024.
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### Conference Presentations

- **Babaei M**, Sridhar J, Sanjanwala BM, DeSouza DD, Cowan RP.  
A novel approach to migraine classification to improve clinical outcomes.  
*International Headache Congress, São Paulo, Brazil, 2025.*
- **Babaei M**, Sanjanwala BM, Cowan RP.  
Individualized migraine treatment using machine learning.  
*American Headache Society Annual Meeting, 2025.*
- Sridhar J, **Babaei M**, et al.  
Chronic migraine progression and brain network changes.  
*American Headache Society Annual Meeting, 2025.*
- **Babaei M**, Cowan RP.  
AI innovations in headache care (ICHD-3).  
*European Headache Congress, 2024.*
- **Babaei M**, Togha M.  
Post-traumatic headache: comprehensive review.  
*International Headache Congress, 2021.*

