




# Alireza Sadeghi, MD

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🏠 [sadeghimd.ir](http://sadeghimd.ir)

- Interested in **reproducible research**, **data science**, **epidemiology**, **clinical research design**, **machine learning**, and  **programming**.
- **General physician**, **researcher**, **computer programmer**, **bitcoiner**, and **clinical data scientist** at Shiraz University of Medical Sciences (SUMS), Shiraz, Iran.
- Deeply into computers — you'll often find me in a Linux terminal, tweaking my Raspberry Pi , or tinkering with my homelab. I also self-host an E2EE messaging service on top of the clearnet and Yggdrasil network for my friends and family.
- I use Arch , BTW!



## Education

- MD | 2015 – 2022(completed) | *SUMS*

## Work History

- Academic Editor | 2024 – 2026 | *PLOS ONE*
- General Practitioner | 2022 – 2026 | *SUMS*
- Medical Intern | 2020 – 2022 | *SUMS*
- Clinical Researcher | 2022 – 2026 | *SUMS*

## Skills & Qualifications

- **Analysis** correlations · regression · diagnostics · survival · data wrangling · data science
- **Software & Programming**  Programming Language · Python  · Stata · SPSS · Quarto · Prezi · GraphPad · NCSS/PASS · MS Word · MS PowerPoint · MS Excel · MS Sway · Adobe Photoshop · Illustrator · Affinity Designer · LaTeX · MS Visio · Neovim · Linux server · Bash Scripting · basic networking
- **Epidemiology** trials · cohorts · case-controls · case-cohort · nested case-controls · diagnostic test accuracy · research leadership · large-scale registries



## Publications

- [1] Endovascular therapy for acute stroke with a large infarct core: A systematic review and meta-analysis · 10.1016/j.jstrokecerebrovasdis.2023.107427  
*Journal of Stroke and Cerebrovascular Diseases* · 2023  
**IF: 2.5**
- [2] Massive pulmonary embolism post sleeve gastrectomy treated with systemic thrombolytic: A case report · 10.1002/ccr3.8211  
*Clinical Case Reports* · 2023  
**IF: 0.7** Corresponding author
- [3] Correspondence on “Salivary biomarkers in breast cancer diagnosis: A systematic review and diagnostic meta-analysis” · 10.1002/cam4.6353  
*Cancer Medicine* · 2023  
**IF: 4** Corresponding author
- [4] Early Morning Cortisol Level as a Predictive Factor for Long-Term Glucocorticoid Replacement After Pituitary Surgery: A Systematic Review and Meta-Analysis · 10.1016/j.wneu.2023.05.029  
*World Neurosurgery* · 2023  
**IF: 2**
- [5] Global prevalence of Helicobacter pylori infection among individuals with obesity: A protocol for a systematic review and meta-analysis · 10.1002/hsr2.1505  
*Health Science Reports* · 2023  
**IF: 2** First & corresponding author
- [6] Prevalence of body dysmorphic disorder in rhinoplasty candidates: A systematic review and meta-analysis · 10.1002/hsr2.1495  
*Health Science Reports* · 2023  
**IF: 2** Corresponding author
- [7] E-275 Endovascular therapy for acute stroke with a large ischemic region: a systematic review and meta-analysis · 10.1136/jnis-2023-snis.374  
*Journal of NeuroInterventional Surgery* · 2023  
**IF: 4.9**



- [8] Protective effects of melatonin against oxidative stress induced by metabolic disorders in the male reproductive system: a systematic review and meta-analysis of rodent models · 10.3389/fendo.2023.1202560  
*Frontiers in Endocrinology* · 2023  
**IF: 5.2** Co-first author
- [9] Effects of l-arginine supplementation in patients with sickle cell disease: A systematic review and meta-analysis of clinical trials · 10.1002/hsr2.1167  
*Health Science Reports* · 2023  
**IF: 2** First author
- [10] Protective effects of melatonin against physical injuries to testicular tissue: A systematic review and meta-analysis of animal models · 10.3389/fendo.2023.1123999  
*Frontiers in Endocrinology* · 2023  
**IF: 5.2** Co-first author
- [11] Protective effects of melatonin against the toxic effects of environmental pollutants and heavy metals on testicular tissue: A systematic review and meta-analysis of animal studies · 10.3389/fendo.2023.1119553  
*Frontiers in Endocrinology* · 2023  
**IF: 5.2** Co-first author
- [12] Correspondence on "Prognostic significance of complement factors in severely ill patients with COVID-19" · 10.1177/10815589221150645  
*Journal of Investigative Medicine* · 2023  
**IF: 2.6** First author
- [13] Conduction system disorders and electrocardiographic findings in COVID-19 deceased patients in 2021, Shiraz, Iran · 10.4330/wjc.v14.i12.617  
*World Journal of Cardiology* · 2022  
**IF: 1.9** Lead author (thesis)
- [14] The Efficacy of Ivermectin and Metronidazole vs. Standard Treatment Protocols on Outcomes of COVID-19 in Hospitalized Patients: A Triple-Blinded Randomized Controlled Trial · 10.5812/archcid-122525  
*Archives of Clinical Infectious Diseases* · 2022



**IF: 0.5**

- [15] Driving restrictions in patients with seizures; a review of the regulations from the English-speaking nations · 10.1016/j.yebeh.2022.108888  
*Epilepsy & Behavior* · 2022

**IF: 2.6**

- [16] Protective effects of exogenous melatonin therapy against oxidative stress to male reproductive tissue caused by anti-cancer chemical and radiation therapy: a systematic review and meta-analysis of animal studies · 10.3389/fendo.2023.1184745  
*Frontiers in Endocrinology* · 2023

**IF: 5.2**

Senior author

- [17] ECG Prediction of Mortality in COVID-19 Patients by Sokolow-Lyon Voltage · 10.5812/semj-128688  
*Shiraz E-Medical Journal* · 2022

**IF: NA**

Lead author (thesis)

- [18] Global incidence of intrahepatic cholestasis of pregnancy: A protocol for systematic review and meta-analysis · 10.1002/hsr2.1901  
*Health Science Reports* · 2024

**IF: 2**

First & corresponding author

- [19] Electrocardiographic abnormalities in patients with sickle cell disease: A systematic review and meta-analysis · 10.1002/pbc.30916  
*Pediatric Blood & Cancer* · 2024

**IF: 3.2**

Corresponding author

- [20] Machine-learning algorithms in screening for type 2 diabetes mellitus: Data from Fasa Adults Cohort Study · 10.1002/edm2.472  
*Endocrinology, Diabetes & Metabolism* · 2024

**IF: 2.5**

- [21] Estimates of global and regional prevalence of *Helicobacter pylori* infection among individuals with obesity: a systematic review and meta-analysis · 10.1007/s15010-024-02244-7  
*Infection* · 2024



**IF: 7.5**

**First & corresponding author**

- [22] Electrocardiographic findings in patients with sickle cell disease: A protocol for systematic review and meta-analysis · 10.1002/hsr2.2212  
*Health Science Reports* · 2024

**IF: 2**

**First author**

- [23] Comparative effectiveness of mesenchymal stem cell versus bone-marrow mononuclear cell transplantation in heart failure: a meta-analysis of randomized controlled trials · 10.1186/s13287-024-03829-7  
*Stem Cell Research & Therapy* · 2024

**IF: 7.5**

- [24] Radioprotective Effects of Melatonin Therapy Against Testicular Oxidative Stress: A Systematic Review and Meta-Analysis of Rodent Models ·  
10.1097/MS9.0000000000002620  
*Annals of Medicine and Surgery* · 2024

**IF: 1.7**

**Corresponding author**

- [25] Global and Regional Incidence of Intrahepatic Cholestasis of Pregnancy: A Systematic Review and Meta-Analysis · 10.1186/s12916-025-03935-0  
*BMC Medicine* · 2025

**IF: 9.3 (SNIP 5%)**

**Co-first & corresponding author**

- [26] Evaluation of the Effects of Post Sleeve Gastrectomy Exercise on Long-term Glucose Profile and Weight Loss among Iranian Females: a Prospective Cohort Study from 2016 to 2020 · 10.1002/hsr2.70431  
*Health Science Reports* · 2025

**IF: 2.1**

**Co-first author**

- [27] Adherence to national and international vaccine information sources and future pandemic preparedness among Iranian adults in the post-COVID-19 era ·  
10.1186/s12889-025-24161-6  
*BMC Public Health* · 2025

**IF: 3.5**

+ 10 papers in-progress/under review with the following keywords:



Machine learning, Cohort, Burden of diseases, Prostate cancer, Kidney cancer, Bladder cancer, Testicular cancer, Vaccine epidemiology, Substance use (national survey)

## Peer-reviews

More than 50 peer-reviews for:

- PLOS ONE
- Health Science Reports
- Annals of Medicine and Surgery
- International Journal of Surgery Open
- AME Medical Journal
- The Journal of Urology
- European Journal of Epidemiology
- F&S Science
- BMC Cancer
- JBI Evidence Synthesis
- Andrologia
- American Society for Reproductive Medicine (ASRM) – 2026 Congress

## Languages

- Persian | Native
- English | Full professional proficiency [TOEFL Score: 113/120]
- Esperanto★ | Limited proficiency
- French | Exploring

## Leisure Pursuits

- Programming and computer sciences
- FOSS & GNU/Linux 🐧
- Movies & cinema
- Bitcoin
- Family and friends

