Alireza Sadeghi, MD

alireza@sadeghimd.ir · alireza.sadeghi.md@gmail.com

www.sadeghimd.ir

- **General physician**, **clinical researcher**, **computer programmer (R, Python)**, **bitcoiner (maximalist)**, and **clinical data scientist** at Shiraz University of Medical Sciences (SUMS), Shiraz, Iran.
- Interested in **reproducible research**, **data science**, **epidemiology**, **clinical research design**, **machine learning**, **AI (RAG systems, agents, MCP, fine-tuning)**, and **programming**.
- 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 Archlinux, BTW!

Education

- MD | 2015 – 2022 | *SUMS*
- MPH | 2022 – Drop out | *SUMS*

Work History

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

Skills & Qualifications

- **Analysis** correlations · regression · diagnostics · survival · data wrangling · clinical data science · meta-analysis · machine learning models
- **Software & Programming** · Python · Local AI models · RAG systems · 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 computer networking (homelabbing) · Telegram bot programming
- **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] The Role of Urine Alkalinization in Preventing Rhabdomyolysis-Induced Acute Kidney Injury and Need for Dialysis: A Systematic Review and Meta-Analysis · 10.30476/beat.2025.107657.1618
Bulletin of Emergency and Trauma · 2025

[7] 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

[8] 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

[9] 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

[10] 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

[11] 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

[12] 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

[13] 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

[14] 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)

[15] 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

[16] 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

[17] 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

[18] 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)

[19] 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

[20] 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

[21] 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

[22] 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

[23] 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

[24] 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

[25] 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

[26] 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

[27] 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

[28] 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**
  - ↳ **CELPIP-G Score: 11/12**
- Esperanto★ | Exploring
- French | Learning (Currently A1)

Leisure Pursuits

- Programming and computer sciences

- FOSS & GNU/Linux 🐧
- Movies & cinema
- ₿itcoin
- Family and friends