

# Alireza Sadeghi

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MD | MPH

- **General practitioner, researcher, computer programmer, and data scientist** at Shiraz University of Medical Sciences, Shiraz, Iran.
- Extremely interested in **reproducible research, data science, epidemiology, clinical research design, machine learning, and R programming.**

| Google Scholar | LinkedIn | GitHub | ORCID | ResearchGate |
|----------------|----------|--------|-------|--------------|
| Online resume  |          |        |       |              |

## Skills & Qualifications

- **Analysis:** correlations · regression · diagnostics · survival · data wrangling · data science
- **Software & Programming:** R · Stata · SPSS · Quarto · Prezi · GraphPad · NCSS/PASS · MS Word · MS PowerPoint · MS Excel · MS Sway · Adobe Photoshop · Illustrator · Affinity Designer · LaTeX · MS Visio
- **Epidemiology:** trials · cohorts · case-controls · case-cohort · nested case-controls · diagnostic test accuracy · research leadership

## Education

- MD | 2015 – 2022 | *Shiraz University of Medical Sciences*
- MPH | 2023 – ongoing | *Shiraz University of Medical Sciences*

## Work History

- Editorial Member | 2024 – ongoing | *PLOS ONE*
- General Practitioner | 2022 – ongoing | *Shiraz University of Medical Sciences*
- Medical Intern | 2020 – 2022 | *Shiraz University of Medical Sciences*

## 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: NA**
- [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] Global and Regional Incidence of Intrahepatic Cholestasis of Pregnancy: A Systematic Review and Meta-Analysis · NA

*BMC Medicine* · 2024

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

**First & corresponding 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**

## Ongoing projects

- [1] Performance Comparison of Machine Learning Algorithms in Screening of and Prediction for Type 2 Diabetes Mellitus: Results from Kavar Cohort Study

Status: In Progress

**First author**

- [2] Performance Comparison of Machine Learning Algorithms in Screening of and Prediction for Hypertension: Results from Kavar Cohort Study

Status: In Progress

**First author**

## Peer-reviews

More than 30 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