

# Al Sadeghi, MD

 alireza.sadeghi.md@gmail.com

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

## Education

- MD | 2015 – 2022 | *Shiraz University of Medical Sciences*
- MPH (Health Policy) | 2023 – 2025 | *Shiraz University of Medical Sciences*

## Work History

- Academic Editor | 2024 – 2025 | *PLOS ONE*
- General Practitioner | 2022 – 2025 | *Shiraz University of Medical Sciences*
- Medical Intern | 2020 – 2022 | *Shiraz University of Medical Sciences*
- Clinical Researcher | 2022 – 2025 | *Shiraz University of Medical Sciences*

## Skills & Qualifications

- **Analysis:** correlations · regression · diagnostics · survival · data wrangling · data science
- **Software & Programming:**  · 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 · 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**

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- [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

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- 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

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*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/hrsr.2.1901

*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**

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[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:

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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

## Languages

- Persian | Native proficiency
- English | Full professional proficiency
- Esperanto ★ | Limited proficiency

## Leisure Pursuits

- Programming and computer sciences
- Movies and series
- Visualization and graphical design
- Data science
- Bitcoin
- Family and friends

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