# 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 · causality inference · 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*
- Medica Intern | 2020 – 2022 | *Shiraz University of Medical Sciences*

- Clinical Researcher    | 2022 – ongoing    | *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**                                                  <span style="color:red">**First & corresponding author**</span>

[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**                                                               <span style="color:red">**First author**</span>

[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%)**                                         <span style="color:red">**First & corresponding author**</span>

[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                                                  <span style="color:red">**First author**</span>

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

Status: In Progress                                                  <span style="color:red">**First author**</span>

## 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