

Curriculum Vitae(CV)

Mehrdad Karajizadeh, Ph.D.

Researcher in Shiraz Trauma Research Center, Shiraz University of Medical Sciences
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Brief Personal

Nationality: Iranian

Language: Persian; English good (Reading, Writing, Speaking)

Educational Record

2016 Sep-2021 Nov: Ph.D. in Health Information Management (with A+ GPA):

School of Health Management and Information Sciences; Shiraz University of Medical
Science; Shiraz, Iran. **Ph.D. dissertation title:** Design and Implementation of Clinical
Decision Support system to the existing Computerized Physician Order Entry and its effect
on clinical and performance indicators in Intensive Care Units of Nemazee hospital

2011 Sep-2014 Jun: M.Sc. in Medical Informatics; School of allied medical sciences;
Tehran University of Medical Sciences; Tehran, Iran.

2007 Sep-2011 Jul: B.Sc. in Medical Library and Information sciences; School of
Health Management and Information Sciences; Isfahan University of Medical Sciences;
Isfahan, Iran.

Skills and Tools

SQL, C++; Python(learning), IBM SPSS Statistics, Word office; Excel, PowerPoint,
MedCalc statistical software, IBM SPSS Modeler (Data mining), Microsoft Power BI,
Clinical Research skill, Visual Paradigm (VP-UML), Electronic health records, clinical
decision support system.

Employment Record

2024 Feb- Current (full time): Director Disease and outcome registry office; Shiraz University of Medical Science; Shiraz, Iran.

2022 Mar- Current (full time): Researcher in Shiraz Trauma Research Center; Shiraz University of Medical Science; Shiraz, Iran

2015 Oct- 2016 Oct (full time): Researcher in Shiraz Trauma Research Center; Shiraz University of Medical Science; Shiraz, Iran

2014 Aug-2015Aug (full time): Health information technology expert in army hospital; Shiraz, Iran

2018 Apri-2022(part-time): Data scientist in ToobaBigDataScience Company

Teaching experience

- Teaching Health information technology students in bachelor's degree (application health information technology course), School of Health Management and Information Sciences; Shiraz University of Medical Science; Shiraz, Iran since 2017.
- Teaching clinical research methodology, clinical data collection, statistical software in Shiraz Trauma Research Center; Shiraz University of Medical Science; Shiraz, Iran since 2022.

Research Output

1. **Karajizadeh M**, Ghaedi A, Pakdaman A, Paydar S. Artificial intelligence may help decision-making for withdrawal of life supporting treatment among the injured elderly. *Journal of Trauma and Acute Care Surgery*. 2024;96(3):e21-e2.
2. Yadollahi M, **Karajizadeh M**, Bordbar N, Ghahramani Z. Incidence and pattern of traumatic spine injury in a single level I trauma center of southern Iran. *Chinese Journal of Traumatology*. 2023.
3. Yadollahi M, Hosseinalipour H, **Karajizadeh M**, Alinaqi M, Fazeli P, Jowkar M, et al. Investigating the prevalence of and predictive and risk factors for pulmonary embolism in patients with COVID-19 in Nemazee Teaching Hospital. *Blood research*. 2023;58(3):127.
4. Yadollahi M, Fazeli P, Naqi MA, **Karajizadeh M**, Parsaiyan S. Epidemiology of Burns in pediatric and adolescent patients of Fars province between 2017 and 2018. *Bulletin of Emergency & Trauma*. 2023;11(1):41.
5. Yadollahi M, Fazeli H, **Karajizadeh M**, Farajpour H. Incidence, Pattern and Mortality of Traumatic Abdominal Injury: A Three-Year Study at the Largest Trauma Center in Southern Iran. 2023.
6. Salimi M, Bastani P, Nasiri M, **Karajizadeh M**, Ravangard R. Factors Associated with Readmission of Cardiovascular Patients: A Cross-sectional Study in Iran. *The Open Public Health Journal*. 2023;16(1).

7. Salimi M, Bastani P, Nasiri M, **Karajizadeh M**, Ravangard R. Predicting Readmission of Cardiovascular Patients Admitted to the CCU using Data Mining Techniques. *The Open Cardiovascular Medicine Journal*. 2023;17(1).
8. **Karajizadeh M**, Zand F, Vazin A, Saeidnia HR, Lund BD, Tummuru SP, et al. Design, development, implementation, and evaluation of a severe drug–drug interaction alert system in the ICU: An analysis of acceptance and override rates. *International Journal of Medical Informatics*. 2023;177:105135.
9. **Karajizadeh M**, Zand F, Sharifian R, Vazin A, Sabetian G, Saeidnia M. The Impact of a Web-based Clinical Decision Support System on Adherence to Venous Thromboembolism Prophylaxis Guidelines in ICU Nonsurgical Patients: A Prospective Study. 2023.
10. **Karajizadeh M**, Zand F, Sharifian R, Vazin A, Davoodian L. Effect of Venous Thromboembolism Prophylaxis Recommender System on Adherence to Clinical Guideline among Surgical ICU Patients. *Journal of Biomedical Physics & Engineering*. 2023;13.
11. **Karajizadeh M**, Zand F, Sharifian R, Nikandish R, Vazin A, Davoodian L, et al. Experience with Pharmacological Prophylaxis for Venous Thromboembolism in Surgical ICUs in Tertiary Care Hospitals in Southwest Asia. *Indian Journal of Surgery*. 2023;85:147-51.
12. **Karajizadeh M**, Yadollahi M, Bordbar N, Ghahramani Z. Pattern and Severity of Traumatic Renal Injury: A Three-Year Study at Single Level One Trauma Center in Southern Iran. *Iranian Red Crescent Medical Journal*. 2023;25(1).
13. **Karajizadeh M**, Sabetian G, Bordbar N, Kazemi H, Borazjani R, Paydar S, et al. Risk Factors and Outcomes of Acute Kidney Injury in Trauma Patients Admitted to Critical Care Units. *Trauma Monthly*. 2023;28(4):867-75.
14. **Karajizadeh M**, Nikandish R, Zalpour Z, Roozrokh Arshadi Montazer M, Soleimanijafarbiglo M, Saeidnia HR, et al. Identify the information needs of a nurse-led rapid response team to design and development an electronic medical record system. *Health Management & Information Science*. 2023(Articles in Press).
15. Hosseini M, Shayan L, Yadollahi M, **Karajizadeh M**. Characteristics of Traumatic Patients Referring to the Emergency Department and their Association with Mortality and Incidence of Surgery Performance. *Bulletin of Emergency & Trauma*. 2023;11(3):132.
16. Hosseini M, Fazeli P, **Karajizadeh M**, Ghasemian M, Akerdi AT, Paydar S. Tissue-resident memory and memory T stem cell subsets may be important predictors of pulmonary infection after thoracic injury rather than T central memory cells. *Journal of Trauma and Acute Care Surgery*. 2023:10.1097.
17. Ghiasi N, Babashahi M, Saeidnia HR, Lotfata A, **Karajizadeh M**, Hassanzadeh M. Digital Support for Wellbeing: Addressing COVID-19-Related Mental Health Challenges in a Developing Country via Web-Based Telehealth. 2023.
18. Ghaedi A, Bazrgar A, **Karajizadeh M**, Paydar S. Heart rate variability may be better than hemoglobin for monitoring pediatric patients with solid organ injuries. *Journal of Trauma and Acute Care Surgery*. 2023:10.1097.
19. Yadollahi M, **Karajizadeh M**, Farahmand M, Bordbar N, Ghahramani Z. Clinical Features and Predictor of Mortality among Patients with COVID-19 in Shiraz, Iran. *Health Management & Information Science*. 2022;9(4):193-200.
20. Yadollahi M, **Karajizadeh M**, Bordbar N, Ghahramani Z, Shayan L. Effect of COVID-19 pandemic on incidence and mortality rate due to road traffic injury in shiraz. *Bulletin of Emergency & Trauma*. 2022;10(3):110.
21. Saeidnia HR, Kozak M, Ausloos M, Herteliu C, Mohammadzadeh Z, Ghorbi A, et al. Development of a Mobile app for self-care against COVID-19 using the analysis, design, development, implementation, and evaluation (ADDIE) model: methodological study. *JMIR formative research*. 2022;6(9):e39718.

22. Sabetian G, **Karajizadeh M**, Rezaee V, Naderi N, Tabei SHM, Abbaspour F. A Study of the Health-related Quality of Life in Injured Patients Three Years after ICU Hospitalization. *Health Management & Information Science*. 2022;9(1):32-7.
23. Pakdaman A, **Karajizadeh M**, Nasiri M, Sharifian R. Business Intelligence Dashboard in Healthcare: Lesson Learned. *Health Management & Information Science*. 2022;9(3):184-91.
24. **Karajizadeh M**, Zand F, Vazin A, Sharifian R, Bayati N. Usability of Venous Thromboembolism Prophylaxis Recommender System: A Pilot Study. *Stud Health Technol Inform*. 2022;289:220-3.
25. **Karajizadeh M**, Nikandish R, Zalpour Z, Roozrokh Arshadi Montazer M, Soleimanijafarbiglo M, Mazaher Y, et al. Identification of the Information Needs of a Nurse-led Rapid Response Team to Design and Develop an Electronic Medical Record System. *Health Management & Information Science*. 2022;9(4):236-42.
26. **Karajizadeh M**, Hassanipour S, Sharifian R, Tajbakhsh F, Saeidnia HR. The effect of information technology intervention on using appropriate VTE prophylaxis in non-surgical patients: a systematic review and meta-analysis. *Digital Health*. 2022;8:20552076221118828.
27. Saeidnia HR, **Karajizadeh M**, Mohammadzadeh Z, Abdoli S, Hassanzadeh M. Usability Evaluation of the Mask Mobile Application: The Official Application of the Iranian Government. *Iranian Journal of Medical Microbiology*. 2022;16(1):49-55.
28. **Mehrdad K**, Roxana S, Farid Z, Mahdi N, Afsaneh V. Evaluation Criteria for the Effects of Decision Support integrated into computerized provider order entry system: A Scoping Review *Shiraz E-Medical Journal*. 2022.
29. **Karajizadeh M**, Zand F, Vazin A, Sharifian R, Bayati N. Usability of Venous Thromboembolism Prophylaxis Recommender System: A Pilot Study. *Informatics and Technology in Clinical Care and Public Health: IOS Press; 2022*. p. 220-3.
30. **Karajizadeh M**, Zand F, Sharifian R, Nikandish R, Vazin A, Davoodian L, et al. Experience with Pharmacological Prophylaxis for Venous Thromboembolism in Surgical ICUs in Tertiary Care Hospitals in Southwest Asia. *Indian Journal of Surgery*. 2022:1-5.
31. Sepehri N, **Karajizadeh M**, Nikandish R, Hosseini SA, Moazzemi K. COVID-19 in Liver and Kidney Transplant Recipients: An Initial Single-center Experience in Iran. *Shiraz E-Medical Journal*. 2021.
32. Nikandish R, **Karajizadeh M**, Bordbar N, Fallah K, Soleimanijafarbiglo M. Investigation of Healthcare Professionals' Viewpoints Towards Patient Safety Culture in Abu-Ali Sina Organ Transplantation Center, Shiraz, Iran. *Health Management & Information Science*. 2021;8(2):119-28.
33. **Karajizadeh M**, Zand F, Vazin A, Nasiri M, Sharifian R. Identification and Prioritization of Clinical Decision Support Functionalities Built Within A Computerized Provider Order Entry System. *Health Scope*. 2021;10(1).
33. **Karajizadeh M**, Zand F, Sharifian R, Vazin A, Bayati N. A Study on Design, Development, Implementation, and Evaluation of Severe Drug-Drug Interaction Alert System in ICU. 2021.
34. **Karajizadeh M**, Zand F, Sharifian R, Vazin A, Bayati N. Effect of Web-based Clinical Decision Support Systems on Adherence to Venous Thromboembolism Prophylaxis guideline among ICU Nonsurgical Patients: A Prospective Before and After Study. 2021.
35. **Karajizadeh M**, Nikandish R, Yousefianzadeh O, Hamed Z, Saeidnia HR. Usability Evaluation of the Electronic Medical Record of the Rapid Response Team: a Case Study. *Applied Health Information Technology*. 2021.
36. **Karajizadeh M**, Nasiri M, Yadollahi M, Montazer MRA. Risk Factors Affecting Death from Hospital-Acquired Infections in Trauma Patients: Association Rule Mining. *J Health Man & Info*. 2021;8(1):27-33.

37. Yadollahi M, Ghaedsharaf Z, Jamali K ,Niakan MH, Pazhuheian F, **Karajizadeh M**. The Accuracy of GAP and MGAP Scoring Systems in Predicting Mortality in Trauma; a Diagnostic Accuracy Study. *Frontiers in Emergency Medicine*. 2020;4(3):e73-e.
38. Nikandish R, **Karajizadeh M**, Rasekh R, Soleimanijafarbiglo M, Golafshan L, Roozrokh Arshadi Montazer M. The Nurses' Perception of Nurse-Physician Professional Relationship in Abu-Ali-Sina Organ Transplantation in Shiraz: A Descriptive Study in Iran. *Journal of Health Management & Informatics*. 2020;7(4):20. ۶-۱۲
39. **Karajizadeh M**, Nasiri M, Yadollahi M, Zolfaghari AH, Pakdam A. Mortality Prediction from Hospital-Acquired Infections in Trauma Patients Using an Unbalanced Dataset. *Healthcare informatics research*. 2020;26(4):284.
40. Sarikhani Y, Bastani P, **Karajizadeh M**, Kavosi Z, Ravangard R. Global barriers to provision and utilization of mental health services: a systematic scope study. 2019.
41. Yadollahi M, Farahmand M, **Karajizadeh M**, Ghaem H, Foadi M, Shamseddini N. The Effect of Radiation on Secondary Sex Ratio among Radiologists in Shiraz, Iran. *Iranian Journal of Health, Safety and Environment*. 2018;5(3):1072-6.
42. Hajizadeh R, Farhang Dehghan S, Golbabaee F, Jafari SM, **Karajizadeh M**. Offering a model for estimating black globe temperature according to meteorological measurements. *Meteorological applications*. 303-7:(2);2017.

Conference Papers

1. **Mehrdad Karajizadeh** , Roxana Sharifian ,Afsaneh Vazin, Laleh Davoodian, editor Effect of Venous Thromboembolism Prophylaxis Recommender System on Adherence to Clinical Guideline among Surgical ICU Patients. The 5th Shiraz International Congress on Mobile Health; 2023.
2. **Karajizadeh M**, Predication of in-hospital mortality among trauma patient with data mining. Sixth National Conference on Health Information Management with Information Systems Development Approach Hospital, Advances and Opportunities - Ahvaz Jundishapur University of Medical Sciences 2018.
3. **Karajizadeh M**, Learning from imbalance medical data set: literature review. Sixth National Conference on Health Information Management with Information Systems Development Approach Hospital, Advances and Opportunities - Ahvaz Jundishapur University of Medical Sciences -2018
4. **Karajizadeh M**, Epidemiology survey on injuries from motor accident in Shahid Rajaei Hospital 2011-2014. 1st International Congress of Trauma and Emergency Critical Care Tabriz - Iran; 2016.
5. **Karajizadeh M**, Injury characteristics and fatality rate of trauma victims in southern part of Iran: five-year study. 1st International Congress of Trauma and Emergency Critical Care Tabriz - Iran; 2016.
6. Sharifian R, Roozrokh Arshadi Montazer M, Khademian F, **Karajizadeh M**, Usability Evaluation of Computerized Physician Order Entry: A Heuristic Evaluation. Proceedings of the 19th IFHIMA International Congress Dubai 2019 Empowering HIM Professionals Through A Global Voice; 2019
7. **Karajizadeh M**, Design and development human resource dashboard at Shiraz University of Medical Science. "National Statistics, Planning and Spatial Information Day Conference held in Shiraz 2019.
8. Karajizadeh M, Design and development data warehouse for Trauma Research Center. "National Statistics, Planning and Spatial Information Day Conference held in Shiraz 2019.

Editorial board

2022-present Bulletin of Emergency And Trauma

2024-present InfoScience Trends Journal

Reviewer Activity

Reviewer: Health Informatics Journal

Reviewer: Bulletin of Emergency And Trauma

Research Interests

Artificial intelligence in healthcare; Clinical decision support system

Research Projects

Research project website: <https://rpis.research.ac.ir/Researcher.php?id=1265974>

1. Evaluation of reliability and validity of social support, social participant and quality of life in traumatic patients referred to Shiraz Shahid Rajaei hospital
2. An epidemiologic study on spinal injuries Patients need urgent intervention who Admitted to Shahid Rajaei Hospital in Shiraz
3. Evaluation of risk factors incidence and outcomes in Adult Acute Kidney Injury in Trauma Patients Admitted to Critical Care units of Rajaei Hospital
4. The Design health insurance benefits package for Multiple Sclerosis and Diabetes Mellitus services
5. Evaluation accuracy of Bispectral index (BSI) monitoring for diagnosis and assessment of severity of hepatic encephalopathy in acute liver failure
6. Frequency and characteristics of falling patient at Abu-Ali-Sina Organ Transplantation hospital.
7. Nurses perception of the quality of the Rapid Response Team in Abu-Ali-Sina Organ Transplantation Hospital
8. Assessment quality of patient information in the rapid response team electronic clinical tools at tertiary referral organ transplant center (OTC)
9. investigation of validity and reliability of Persian version of an assessment tools for rapid response team quality at hospital from nurses' viewpoint
10. Evaluation impact of implementation rapid response team on rates of in hospital cardiac arrest and mortality in Organ Transplantation Center
11. Effect two type of endotracheal tube on the incidence of post CABG pneumonia at Abu-Ali-Sina Transplantation hospital
12. Information needs for the rapid response team electronic clinical tool in tertiary referral organ transplant center (OTC)
13. determine injury severity score from diagnostic code in the tenth revision of ICD
14. Survey of Prevalence, Accident location and Cause of Traffic Accidents in Rahmat highway in Shiraz
15. Efficiency of Education with Multi-facted approach to prevent car accident in Trauma patient's caregivers in Shahid Rajaei Hospital in Shiraz-2016

16. The survey of the effect of education on Knowledge and Attitude of Caregivers in the prevention of pedestrian Accidents in Shahid Rajaei Hospital in Shiraz
17. Assessment of Scoring system(score-Transfusion-Trauma-Shiraz) in short-time and long-time prognosis of trauma patients in Shahid Rajaei Hospital in Shiraz
18. Check the short-time prognosis in trauma patients with need to resuscitation in Shahid Rajaei Hospital in Shiraz
19. Injury Mechanism in Blunt trauma in patients to Shahid Rajaei Hospital in Shiraz
20. Severity of injuries and pattern of maxilla-facial Injuries in patients referring to Shahid Rajaei Hospital in Shiraz
21. Evaluate the severity and Prognosis of Spinal Injuries in traumatic patients admitted to Shahid Rajaei hospital in Shiraz
22. Comparison of severity and pattern of injuries between motorcycle riders and their pillions admitted to Shahid rajaei hospital in Shiraz