

# Dr. Reza Rabiei

*Associate Professor in Medical Informatics*

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**Google Scholar:** <https://scholar.google.com/citations?user=v5A1jXsAAAAJ&hl=en>

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Over the last 16 years I have been into research and education of Medical Informatics, an interdisciplinary field which is at the intersection of Information Science, Computer Science, and Medicine. This discipline focuses on applying technologies and methods to improve data acquisition, manipulation, storage, retrieval and exchange in healthcare. Medical Informatics aims to support clinicians in their practice, improve the accessibility of healthcare services for patients and their relatives, and support healthcare managers in planning services.

## Education

**2006-2010** PhD in Health Informatics, University of Sheffield, UK.

**2000-2002** M.Sc. in Medical Records (Health Information Management) Education, Iran University of Medical Sciences

## Employment

**2011- Now** Associate Professor in Medical Informatics, Shahid Beheshti University of Medical Sciences

### Responsibilities in Effect:

- Deputy of Education to Department of Health Information Technology and Management
- Advisor to Scientific Students Committees in School of Allied Medical Sciences, SBMU
- Member of Curriculum Planning (education methodology and students' evaluation) committee in School of Allied Medical Sciences, SBMU
- Member of Education and Development Office (EDO) Committee in School of Allied Medical Sciences, SBMU
- Member of working group on empowering lectures and professors in School of Allied Medical Sciences, SBMU
- Member of Scholarship Committee in School of Allied Medical Sciences, SBMU

**2001-2005** University Lecturer, Medical Records Department, Kashan University of Medical Sciences (KAUMS), Iran

### Responsibilities:

- Academic Secretary of Publication Committee (Translation and Authorship), Deputy of Research, KAUMS
- Member of Strategic Planning Committee in School of Allied Medical Sciences, KAUMS
- Member of Research Committee in School of Allied Medical Sciences, KAUMS

## Research Publications in English (N=53)

- R Rabiei, S Alamsi. Requirements and challenges of hospital dashboards: a systematic literature review. *BMC Medical Informatics and Decision Making*, 2022, 22 (287). <https://assets.researchsquare.com/files/rs-1450850/v1/fd5193a2-48f4-488b-99d9-9de90ab5d32f.pdf?c=1649347145>
- A Sabahi, F Asadi, R Rabiei, S Paydar. Providing a Population Based Registry Model of Drug Poisoning in Iran. *Iranian Journal of Pharmaceutical Research*, 2022, 21 (1). <https://brieflands.com/articles/ijpr-130124.html>
- H Moghaddasi, R Rabiei, S Shademani. Error Detection in Patients' Pharmaceutical Data: Application of Ontology-Based Text Miner. *Archives of Advances in Biosciences*, 2022, 13 (2). [https://scholar.google.com/citations?view\\_op=view\\_citation&hl=en&user=v5A1jXsAAAAJ&sortby=pubdate&citation\\_for\\_view=v5A1jXsAAAAJ:umqufdRvDiIC](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=v5A1jXsAAAAJ&sortby=pubdate&citation_for_view=v5A1jXsAAAAJ:umqufdRvDiIC)
- R Rabiei, SM Ayyoubzadeh, S Sohrabei, M Esmaeili, A Atashi. Prediction of Breast Cancer using Machine Learning Approaches. *Journal of Biomedical Physics and Engineering*, 2022, 12 (3), 297-308. [https://scholar.google.com/citations?view\\_op=view\\_citation&hl=en&user=v5A1jXsAAAAJ&sortby=pubdate&citation\\_for\\_view=v5A1jXsAAAAJ:a9-T7VOCCH8C](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=v5A1jXsAAAAJ&sortby=pubdate&citation_for_view=v5A1jXsAAAAJ:a9-T7VOCCH8C)
- MR Afrash, R Rabiei, A Hosseini, S Salari, M Sepehri. Impact of Computerized Provider Order Entry on Chemotherapy Medication Errors: A Systematic Review. *International Journal of Cancer Management*, 2022, 15 (3). <https://brieflands.com/articles/ijcm-120300.html>
- S Setareh, R Rabiei, H Mirzaei, A Roshanpoor, S Shaabani. Effects of Guideline-based Computerized Provider Order Entry Systems on the Chemotherapy Order Process: a Systematic Review. *Acta Medica Informatica*, 2022, 30 (1), 61-68. <https://pubmed.ncbi.nlm.nih.gov/35800912/>
- A Sabahi, F Asadi, S Shadnia, R Rabiei, A Hosseini. Data Infrastructure for a Poisoning Registry with Designing Data Elements and a Minimum Data Set. *Shiraz E-Medical Journal*, 2021, 23 (5). <https://brieflands.com/articles/semj-116103.html>
- Afrash M, Hosseini A, Rabiei R, Salari S, Sepehri M. Design and Implementation of a Guideline-Based Workflow Software System for Improving the Chemotherapy Process. *Shiraz E-Medical Journal*, 2021. <https://brieflands.com/articles/semj-119010.html>
- F Asadi, H Moghaddasi, M Anvari, R Rabiei. [Diagnostic Point-of-Care Tests with an Approach to Data Management](#). *Frontiers in Health Informatics*, 2021, 10 (1), 90. <http://ijmi.ir/index.php/IJMI/article/view/322>
- R Rabiei, F Asadi, H Emami, MA Hosseini. [Quality of coding for trauma using ICD10](#). *Trauma monthly*, 2021, 26 (3), 130-134. [http://www.traumamon.com/article\\_131161.html](http://www.traumamon.com/article_131161.html)
- R Rabiei, F Asadi, H Moghaddasi, M Shojaei Baghini. [A Model for the National Mental Health Information Network](#). *Applied Health Information Technology*, 2021, 2 (1), 39-50. [https://enjournal.ssu.ac.ir/article\\_141.html](https://enjournal.ssu.ac.ir/article_141.html)
- A Sabahi, F Asadi, S Shadnia, R Rabiei, AS Hosseini. The Features and Processes of Poisoning Registries: A Scoping Review. *International Journal of Medical Toxicology and Forensic Medicine*, 2021, 11 (3). <https://journals.sbm.ac.ir/ijmtfm/article/view/34286>
- A Sabahi, F Asadi, S Shadnia, R Rabiei, A Hosseini. Minimum data set for a poisoning registry: a systematic review. *Iranian Journal of Pharmaceutical Research*, 2021, 20 (2). <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8457722/>

S Almasi, R Rabiei, H Moghaddasi, M Vahidi-Asl. Emergency Department Quality Dashboard; a Systematic Review of Performance Indicators, Functionalities, and Challenges. Archives of Academic Emergency Medicine, 2021, 9 (1), e47-e47. <https://pubmed.ncbi.nlm.nih.gov/34405145/>

R Rabiei, F Rouzbahani, F Asadi, H Moghaddasi, H Emami, F Rahimi. Health Information Governance Program: A Review on Components and Principles. Crescent Journal of Medical and Biological Sciences, 2021, 8 (1). [https://www.cjmb.org/uploads/pdf/pdf\\_CJMB\\_472.pdf](https://www.cjmb.org/uploads/pdf/pdf_CJMB_472.pdf)

F Rouzbahani, F Asadi, R Rabiei, H Moghaddasi, H Emami. Developing a Model for National Health Information Governance Program in Iran. Journal of Medicine and Life, 2020, 13 (4), 510. <https://pubmed.ncbi.nlm.nih.gov/33456599/>

A Garavand, R Rabiei, H Emami, M Pishgahi, M Vahidi- Asl. [The attributes of hospital-based coronary artery diseases registries with a focus on key registry processes: A systematic review](https://pubmed.ncbi.nlm.nih.gov/32677480/) Health Information Management Journal, 2020. <https://pubmed.ncbi.nlm.nih.gov/32677480/>

L Ghaderi-Nansa, R Rabiei, F Asadi, A Hosseini, H Emami. [Medical Tourism Websites with an Approach to Information Content: A Systematic Review](https://ijph.tums.ac.ir/index.php/ijph/article/view/13357). Iranian Journal of Public Health, 2020. <https://ijph.tums.ac.ir/index.php/ijph/article/view/13357>

A Garavand, H Emami, R Rabiei, M Pishgahi, M Vahidi- Asl. Designing the Coronary Artery Disease Registry with Data Management Processes Approach: A Comparative Systematic Review in Selected Registries. International Cardiovascular Research Journal, 2020, 14 (1). <https://brieflands.com/articles/ircrj-100833.html>

R Rabiei, H Moghaddasi, M Heidari. Design and Evaluation of a Mobile Application for Relapse Prevention to Methamphetamine Use Disorder. International Journal of High Risk Behaviors and Addiction, 2020, 9 (1). <https://brieflands.com/articles/ijhrba-100340.html>

H Moghaddasi, R Rabiei, F Asadi, A Mohammadpour. Developing A General Framework for National Health Information Network for Developing Countries. Galen Medical Journal 9, e1792, 2020. <https://pubmed.ncbi.nlm.nih.gov/34466593/>

R Rabiei, Y Mohammadi Moghadam, N Aslani, A Garavand . Knowledge Management Status in a Non-governmental Public Hospital: The Current Status and Improvement Solutions. Journal of Health Management & Information Science, 2020, 7 (1), 26-32. [https://jhmi.sums.ac.ir/article\\_46625\\_915fad46282cb9ef2393c7d116cbfb14.pdf](https://jhmi.sums.ac.ir/article_46625_915fad46282cb9ef2393c7d116cbfb14.pdf)

MS Baghini, R Rabiei, F Aasdi, H Moghaddasi, A Sabahi. National mental health information system: a review of data architecture in selected countries. Journal of Advanced Pharmacy Education & Research| Apr-Jun 10, 2020 (S2), 131. <https://japer.in/article/national-mental-health-information-system-a-review-of-data-architecture-in-selected-countries>

M Afzali, K Etemad, A Kazemi, R Rabiei. Cerebral palsy information system with an approach to information architecture: a systematic review. BMJ Health and Care Informatics 26 , 2019. <https://pubmed.ncbi.nlm.nih.gov/31892529/>

H Haghiri, R Rabiei, A Hosseini, H Moghaddasi, F Asadi. Notifiable Diseases Surveillance System with a Data Architecture Approach: a Systematic Review. Acta Informatica Medica , 2019, 27 (4), 268. <https://pubmed.ncbi.nlm.nih.gov/32055095/>

A Fathian, H Emami, Hassan, Moghaddasi, A Kazemi, R Rabiei. Features of Nursing Management Information Systems: A Systematic Review. Biomedical Journal of Scientific and Technical Research , 2019,21 (2), 15773-15781. <https://biomedres.us/fulltexts/BJSTR.MS.ID.003582.php>

F Rouzbahani, R Rabiei, F Asadi, H Moghaddasi, H Emami. Information Governance Program: A Review of Applications in Healthcare. Journal of Paramedical Sciences, 2019, 10 (1), 47-55. <https://journals.sbmu.ac.ir/aab/article/view/23597>

SS Seyedi, A Hosseini, R Rabiei, F h Asadi, H Moghaddasi. Infertility Information System with an Approach to Data Architecture: A Systematic Review. Am J Biomed Sci & Res 5 (4), 2019, 254-261. <https://biomedgrid.com/fulltext/volume5/infertility-information-system-with-an-approach-to-data-architecture-a-systematic-review.000922.php>

- MHH Haghghi, H Moghaddasi, R Rabiei, F Asadi. National Information Systems of Natural Crises in Some Countries. Archives of Advances in Biosciences, 2019, 10 (4), 75-81. <https://www.sid.ir/paper/315951/en>
- A Tabatabaei Tabrizi, H Moghaddasi, R Rabiei, B Sharif Kashani. Development of a Catheterization and Percutaneous Coronary Intervention Registry with a Data Management Approach: A Systematic Review. Perspective in Health Information Management, 2019. <https://pubmed.ncbi.nlm.nih.gov/30766453/>
- M Karimi, F Asadi, H Moghaddasi, R Rabiei. [Features of Intellectual Disability Information System: A Comparative Study](https://www.opastpublishers.com/open-access-articles/features-of-intellectual-disability-information-system-a-comparative-study.pdf). Journal of Clinical Review and Case Reports, 2018, 3 (8). <https://www.opastpublishers.com/open-access-articles/features-of-intellectual-disability-information-system-a-comparative-study.pdf>
- M Amanzadeh, H Moghaddasi, R Rabiei, A Amini Harandi, H Haghghi. [Difficulties of Diagnosing Alzheimer's Disease: The Application of Clinical Decision Support Systems](https://journals.sbmu.ac.ir/aab/article/view/20966). Journal of Paramedical Sciences, 2018, 9 (4), 8. <https://journals.sbmu.ac.ir/aab/article/view/20966>
- R Rabiei, H Moghaddasi, F Asadi, M Heydari. [Evaluation of computerized provider order entry systems: assessing the usability of systems for electronic prescription](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6122865/). Electronic Physician, 2018, 10 (8), 7196-7204. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6122865/>
- S Derayeh, A Kazemi, R Rabiei, A Hosseini, H Moghaddasi. [National information system for rare diseases with an approach to data architecture: A systematic review](https://pubmed.ncbi.nlm.nih.gov/30181934/). Intractable & Rare Diseases Research, 2018, 7 (3), 156-163. <https://pubmed.ncbi.nlm.nih.gov/30181934/>
- H Moghassemi, R Rabiei, H Moghaddasi, M Shabani, R Ataee. [Computer-Aided Diagnosis Approaches to Fatty Liver Disease According to Sonographic Images Based on Wavelet Transform: A Review Study](https://www.opastpublishers.com/open-access-articles/computeraided-diagnosis-approaches-to-fatty-liver-disease-according-to-sonographic-images-based-on-wavelet-transform-a-r.pdf). Journal of Clinical Review & Case Reports, 2018, 3 (4), 1-5. <https://www.opastpublishers.com/open-access-articles/computeraided-diagnosis-approaches-to-fatty-liver-disease-according-to-sonographic-images-based-on-wavelet-transform-a-r.pdf>
- N Hashemi, H Moghaddasi, R Rabiei, F Asadi, A Farahi. [Eye Health Information Systems in Selected Countries](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6058548/). Journal of Ophthalmic and Vision Research, 2018, 13 (3), 333-338. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6058548/>
- H Moghaddasi, F Asadi, R Rabiei, F Rahimi, R Shahbodaghi. [Presenting an Evaluation Model for the Cancer Registry Software](https://pubmed.ncbi.nlm.nih.gov/29284919/). Acta Medica Informatica 25 ,2017, (4), 267-270. <https://pubmed.ncbi.nlm.nih.gov/29284919/>
- H Bagherian, M Farahbakhsh, R Rabiei, H Moghaddasi, F Asadi. [National Communicable Disease Surveillance System: A review on Information and Organizational Structures in Developed Countries](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5723198/). Acta Medica Informatica ,2017, 25 (4), 271-276. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5723198/>
- S Valizadeh, H Moghaddasi, R Rabiei , Asadi. [Health websites visual structure: the necessity of developing a comprehensive design guideline](https://journals.sbmu.ac.ir/aab/article/view/18175). Journal of Paramedical Sciences,2017, 8 (4). <https://journals.sbmu.ac.ir/aab/article/view/18175>
- R Rabiei, H Moghaddasi, AA Khadem Maboudi, A Basiri. [Assessment of factors affecting kidney transplant survival based on literature review between 2000 and 2014](https://tmuj.iautmu.ac.ir/browse.php?a_id=1247&sid=1&slc_lang=en). Medical Science Journal of Islamic Azad University-Tehran Medical Branch, 2017, 27. [https://tmuj.iautmu.ac.ir/browse.php?a\\_id=1247&sid=1&slc\\_lang=en](https://tmuj.iautmu.ac.ir/browse.php?a_id=1247&sid=1&slc_lang=en)
- H Moghaddasi, R Rabiei, F Asadi, A Mohammadpour. [National health information network: lessons learned from the USA and the UK](https://journals.sbmu.ac.ir/aab/article/view/15209). Archives of Advances in Biosciences, 2017, 8 (2), 57-70. <https://journals.sbmu.ac.ir/aab/article/view/15209>
- R Rabiei, H Ayatollahi, MR Katigari, M Hasannezhad, H Amjadnia. [Epidemiology of Urban traffic accidents: a study on the victims' health records in Iran](https://www.ccsenet.org/journal/index.php/gjhs/article/view/62057). Global journal of health Science, 2017, 9 (5), 156-166. <https://www.ccsenet.org/journal/index.php/gjhs/article/view/62057>
- Z Mastaneh, F Asadi, R Rabiei, A Hoseini, H Moghaddasi. National Transplant Network Information System of the US and England. J Transplant Technol Res,2017, 7 (173), 2161-0991.1000173. <https://www.semanticscholar.org/paper/National-Transplant-Network-Information-System-of-Mastaneh-Asadi/1018e3d84cae1c71b1da6a4b6bd95f7ce63362c1>

F Asadi, H Moghaddasi, R Rabiei, S Malekzadeh. Study on the status of information system for dialysis patients in the Country. Hakim, 2017, 20 (2), 5.

[https://hakim.tums.ac.ir/browse.php?a\\_id=1776&slc\\_lang=en&sid=1&printcase=1&hbnr=1&hmb=1](https://hakim.tums.ac.ir/browse.php?a_id=1776&slc_lang=en&sid=1&printcase=1&hbnr=1&hmb=1)

H Moghaddasi, B Ahmadzadeh, R Rabiei, M Farahbakhsh. Study on the Efficiency of a Multi-layer Perceptron Neural Network Based on the Number of Hidden Layers and Nodes for Diagnosing Coronary- Artery Disease. Jentashapir Journal of Health Research (JJHR), 2017, 8 (3), 8. <https://www.semanticscholar.org/paper/Study-on-the-Efficiency-of-a-Multi-layer-Perceptron-Moghaddasi-Ahmadzadeh/4d3f23085e24141bacc29577f9df93d2e9048b21>

H Moghaddasi, R Rabiei, F Asadi, N Ostvan. Evaluation of Nursing Information Systems: Application of Usability Aspects in the Development of Systems. Healthcare Informatics Research, 2017, 23 (2), 101-108.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5435582/>

M Jahanbakhsh, R Rabiei, F Asadi, H Moghaddasi. Electronic health record architecture: a systematic review, Journal of Paramedical Sciences. 2016, 7 (3), 29-36. <https://journals.sbm.ac.ir/aab/article/view/13126/9979>

Deimazar G, A Kazemi, R Rabiei, H Moghaddasi. Pharmacy Information Systems in Teaching Hospitals: A Multi-dimensional Evaluation Study. Healthcare Informatics Research 2016; 22(3): 231-237.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4981583/>

F Asadi, H Moghaddasi, R Rabiei, F Rahimi, SJ Mirshekarlou. The evaluation of SEPAS national project based on electronic health record system (EHRS) in Iran. Acta Informatica Medica, 2015, 23 (6), 369.

<https://pubmed.ncbi.nlm.nih.gov/26862248/>

H Moghaddasi, R Rabiei, N Sadeghi. Improving the quality of clinical coding: a comprehensive audit model. Journal of Health Management & Informatics, 2014, 1 (2), 36-40. [https://jhmi.sums.ac.ir/article\\_42618.html](https://jhmi.sums.ac.ir/article_42618.html)

H Moghaddasi, R Rabiei. A model for measuring e-health status across the world. Telemedicine and e-Health, 2013, 19 (4), 322-327. <https://pubmed.ncbi.nlm.nih.gov/23506327/>

R Rabiei, PA Bath, A Hutchinson, D Burke. The National Programme for IT in England: clinicians' views on the impact of the Choose and Book service. Health Informatics Journal, 2009, 15 (3), 167-178.

<https://pubmed.ncbi.nlm.nih.gov/19713392/>

Publications in Persian (N=8)

2022- S Mohammadpour, R Rabiei, F Shahbahrani, K. Fathisalari. The Effects of Implementing Clinical Decision Support Systems on the Diagnosis, Treatment and Management of Cancers: A Systematic Review. Payavard Salamat, 2022, 16 (2), 113-122. [https://payavard.tums.ac.ir/browse.php?a\\_id=7271&sid=1&slc\\_lang=en](https://payavard.tums.ac.ir/browse.php?a_id=7271&sid=1&slc_lang=en)

2021- H Moghaddasi, R Rabiei, A Hosseini, R Soltani. Study of Nutrition Information Systems in Hospitals Affiliated with Shahid Beheshti University of Medical Sciences. Hakim, 24 (2):152-159. <https://hakim.tums.ac.ir/article-1-2104-en.html>

2017- Asadi F, H Moghaddasi, R Rabiei, S Malekzadeh. Study on the Status of Information System for Dialysis Patients in the Country. Hakim, 20 (2): 93-98.

[https://hakim.tums.ac.ir/browse.php?a\\_id=1776&slc\\_lang=en&sid=1&printcase=1&hbnr=1&hmb=1](https://hakim.tums.ac.ir/browse.php?a_id=1776&slc_lang=en&sid=1&printcase=1&hbnr=1&hmb=1)

H Moghaddasi, F Asadi, R Rabiei, Z Mastaneh. National Transplant Network of America and England: Remarks for Developing Countries. Iranian Journal of Surgery, 2017, 24 (4).

[file:///C:/Users/god/Downloads/af\\_22223351AmozehayeShabakeMeli-Dr.Moghadasi1949%20\(1\).pdf](file:///C:/Users/god/Downloads/af_22223351AmozehayeShabakeMeli-Dr.Moghadasi1949%20(1).pdf)

2016- H Moghaddasi, M Jahanbakhsh, R Rabiei, F Asadi. An Architectural Model for Structure of Summary Electronic Health Records. Health Information Management, 2016. 13 (4), 267-272.

[http://him.mui.ac.ir/article\\_11519\\_d0db9b3216b02c7a223c01ea491a5d23.pdf](http://him.mui.ac.ir/article_11519_d0db9b3216b02c7a223c01ea491a5d23.pdf)

2016- H Moghaddasi, R Rabiei, F Rahimi, S Ayani. Deliberating Blood Glucose Control of Diabetic Patients Using Insulin Therapy Decision Support Systems. Journal of Sabzevar University of Medical Sciences, 22, 1180-1191.

[http://jsums.medsab.ac.ir/article\\_855.html?lang=en](http://jsums.medsab.ac.ir/article_855.html?lang=en)

2014- H Moghaddasi, R Rabiei, Z Mastaneh. Pre-hospital Emergency Information System in America and England: A review study. Payesh , 2014, 13 (4), 281.

2013- R Rabiei, H Moghaddasi, A Hosseini, S Paydar. A Study on Radiology Management Information System (RMIS) in Teaching Hospitals Affiliated to Medical Universities in Tehran. Health Information Management, 12 (1).

[http://him.mui.ac.ir/article\\_11387.html?lang=en](http://him.mui.ac.ir/article_11387.html?lang=en)

2013- A Hosseini, R Rabiei, H Moghaddasi, Z Mastaneh. Application of Classification Systems in Nursing Information System: an Integrative Review of Literatures. Payesh, 2(1): 67-74. <http://payeshjournal.ir/article-1-284-en.html&sw=Rabiei>

2003- Ayatollahi H, Rabiei R. An Analytic Review of Diagnostic Related Groups (DRGs). Hospital 2003, 3 (11): 26-30.

<https://jhosp.tums.ac.ir/article-1-178-fa.html&sw=%D8%B1%D8%A8%DB%8C%D8%B9%DB%8C>

### **International Conference Papers**

**2022- R. Rabiei**, Sohrabi S. Application of Remote Monitoring Technologies to Reduce Patients Hospitalization Time in Patients with Cancer Suffering from Covid-19. International Telemedicine Conference, Isfahan, Iran.

**2016-** H Moghaddasi, **R Rabiei**, Sohrabi S. Comparing the Efficiency of Diagnostic Models of Breast Cancer Using Genetic Algorithm and Multi-layer Perceptron . 11<sup>th</sup> International Congress on Breast Cancer, Tehran, Iran.

**2004-** M. Farzandipour, R.Rabiei. EHR Architecture Standards. 4<sup>th</sup> Regional Conference on eHealth.

### **National Conference Papers**

**2022- R Rabiei (Key Note Speaker)**, H Emami, mHealth Application: From Design to Implementation. Symposium on Artificial Intelligence (AI) in Medicine. Smart University of Medical Sciences, Tehran, Iran.

**2017- R Rabiei**, F Asadi, F Rouzbahani. Role of Electronic Health Records in Developing Health Information Management Professionals Knowledge and Skills. 5<sup>th</sup> National Congress on Health Information Management Promotion, Tehran, Iran.

**2017-** M Lotfi, R Rabiei, F Asadi, H Moghaddasi. Study on Operation Rooms Information Systems in Hospitals Affiliated with Shahid Beheshti, Iran, and Tehran University of Medical Sciences, Tehran, Iran.

**2004-** R Rabiei, **Ayatollahi H**. Medical records application in telemedicine. (Poster). In: proceedings of 4th regional conference on e-Health: Building the electronic health record. Iran, Tehran, 7-9 September.

**2003- Ayatollahi H**, R Rabiei. Health promotion and social equity. (Poster). In: proceedings of national conference on health and sustainable development. Iran, Tehran, 13-14 October.

**2003-** R Rabiei, **Ayatollahi H**. Women's health promotion: a basis for sustainable development in the community (Poster). In: proceedings of national conference on health and sustainable development. Iran, Tehran, 13-14 October.

**2003-** R Rabiei, Farzandipour M, **Ayatollahi H**. Role of health in national development. (Poster). In: proceedings of national conference on health and sustainable development. Iran, Tehran, 13-14 October.

**2003-** R Rabiei, **Ayatollahi H**. Health promotion based on national health information. (Oral Presentation). In: proceedings of national conference on health promotion. Iran, Zanjan, 14-15 May: P 14-15.

## Books

**2023-** A Sabahi, F Asadi, R Rabiei, Y Sadat, S Paydar. Population-based Registry with an Approach to Drug Poisoning. Tehran: Sayeh Salamat.

**2021-** R Rabiei. H Emami, S, Salari. Digital Revolution with an Approach to Social Security Organization in Iran. Social Security Organization.

**2020-** Rabiei et al. *Book Chapters* in : Analysis of Covid-19 Crisis in Iran and Other Countries by Azli A, Ghanaati H, Maher A. Tehran: Timourzadeh

**2005-** Vali L, Rabiei R, **Ayatollahi H**. An Introduction to Telemedicine. Kashan: Morsal.

**2005-** Farzandipour M, Rabiei R, **Ayatollahi H**, Rangraz Jeddi F. Principles of medical documentation. Kashan: Morsal.

**2004-** Rabiei R, **Ayatollahi H**. Health information management in ambulatory care. Kashan: Morsal.

## Ph.D. Thesis Supervisor- Completed (N=25)

**2022-** Afrash M. Design and Evaluation of Computerized Provider Order Entry (CPOE) Coupled with Clinical Decision Support System for Breast Cancer Chemotherapy (Medical Informatics)

**2022-** Setareh, S. Design and Evaluation of Computerized Provider Order Entry (CPOE) Coupled with Clinical Decision Support System for Metastatic Colon Cancer Chemotherapy (Medical Informatics)

**2022-** Almasi S. Design and Evaluation of Quality Dashboard for Emergency Departments in Iran (Health Information Management)

**2021-** Sabahi A. Presenting a Population Based Registry Model of Drug Poisoning in Iran (Health Information Management)

**2020-** Garavand A. Design and Evaluation of Hospital-based Registry Software for Coronary Artery Disease in Iran (Health Information Management)

**2020-** Afzali. M. Developing Data Architecture Model for Cerebral Palsy Information System (Health Information Management)

**2020-** Haghiri, H. Information Architecture Modelling for Notifiable Disease Information System (Health Information Management)

**2019-** SS. Seyedi. Information Architecture Modelling of Infertility Information Systems in Iran. (Health Information Management)

**2018-** Tabatabaei-Tabrizi, A. Design and Evaluation of Cardiac Catheterization Registry Software and Providing a Cloud Computing Architecture Model for Sharing the Software (Medical Informatics)

**2018-** Rouzbahani F. Developing a Model for Health Information Governance Program for Healthcare System in Iran (Health Information Management)

**2018-** Derayeh S. Developing a data Architecture Model for Rare Diseases National Information Systems (Health Information Management)

**2018-** Ghaderi Nansa, L. Developing an Information Architecture Model for Medical Tourism Information System in Iran (Health Information Management)

**2017-** Amanzadeh M. Design and Evaluation of Diagnostic Decision Support System for Alzheimer Disease (Medical Informatics)

**2017-** Moghassemi, H. Presenting an Efficient Model Based on Wavelet Approach for Diagnosing Diffuse Liver Disease Using Sonographic Data (Medical Informatics)

**2017-** Hashemi N. Developing an Architecture Model for National Eye Health Information System (Health Information Management).

**2017-** Bagherian, H. Architecture Modelling for National Communicable Disease Information System with a Database Approach (Health Information Management)

**2017-** Ariaei, M. Developing an Information Model for Healthcare Organization Accreditation in Iran (Health Information Management)

**2017-** Shokrizadeh Arani, L. Developing an Architecture Model for National Bioterrorism Information System (Health Information Management)

**2017-** Shojaei M. Developing an Architecture Model for National Mental Health Information Network (Health Information Management)

**2017-** Samzadeh, H. Developing an Evaluation Model for Emergency Department Information Systems (Health Information Management)

**2016-** Ayani, S. Design and Evaluation of Clinical Decision Support System for Estimating Insulin Dosage in Type 1 Diabetes. (Medical Informatics)

**2016-** Rahmatizadeh, S. Design and Evaluation for Clinical Decision Support System for Predicting Graft Survival in Kidney Transplantation (Medical Informatics)

**2016-** Mohammadpour, A. Developing a General Framework for National Health Information Network in Iran (Health Information Management)

**2016-** Jahanbakhsh, M. Developing an Architecture Model for Summary Electronic Health Record (Health Information Management)

**Ph.D. Thesis Advisor- Completed (N=7)**

**2019-** Hamedan M. Developing an Architectural Model of Geriatric Information System (Health Information Management)

**2018-** Karimi, M. Developing an Architectural Model for National Intellectual Disability Information System (Health Information Management)

**2017-** Mastaneh, Z. Developing an Architecture Modelling for National Transplant Network with a Database Approach (Health Information Management)

**2017-** Hayavi Haghghi, M.H. Developing an Architecture Modelling of Natural Crisis National Information System for Iran (Health Information Management)



**2016-** Valizadeh-Haghi, S. Developing a Model for Designing Health Websites Structure (Health Information Management)

**M.Sc. Dissertation Supervisor- Completed (N=27)**

**2022-** Mortezaei, S. Design and Evaluation of a Mobile Application for Self-management of Albinism (Medical Informatics)

**2021-** Nemani, S. Evaluation of User Satisfaction with Emergency Department Information Systems (EDIS) in Hospitals Affiliated with Shahid Beheshti and Iran Universities of Medical Sciences (Medical Informatics)

**2019-** Abedini, H. Study on Laboratory Management Information Systems of Hospitals Affiliated with Shahid Beheshti University of Medical Sciences (Health Information Technology)

**2017-** Ghalandari, P. Design and Evaluation of a Website for Patients with Breast Cancer (Medical Informatics)

**2017-** Heidari, M. Design and Evaluation of a Mobile Application for Relapse Prevention to Methamphetamine Use Disorder

**2017-** Anvari M. Developing a Data Management Model for Point-of-Care equipment (Health Information Technology)

**2017-** Haydari M. Evaluation of Computerized provider Order Entry System in Hospitals in Tehran (Health Information Technology)

**2017-** Jamshidian, M. Usability Evaluation of Hospital Information Systems in Hospitals Affiliated to Ilam University of Medical Sciences (Medical Informatics)

**2016-** Kamyab Kalantari, F. Comparing the Efficiency of Prediction Models for Autism Disorder Based on Artificial Neural Network, Fuzzy Logic, and Neuro-Fuzzy Network (Medical Informatics)

**2016-** Khoonraz, F. Comparing the Efficiency of Support Vector Machine (SVM) and Decision Tree (DT) in Lung Cancer Prediction (Medical Informatics)

**2016-** Ayoub-Zadeh, S.M. Comparing the Efficiency of KNN and Decision Tree (DT) for Differential Diagnosis of Cardiac Chest Pain (Medical Informatics)

**2016-** Hamidi, A. Study of Hospital-based Diabetes Registry in Hospitals Affiliated with Shahid Beheshti University of Medical Sciences (Health Information Technology)

**2016-** Ahadi, E. Developing an Object-oriented Model for Multiple Sclerosis Registry System (Medical Informatics)

**2016-** Radmand, A. Developing an Object-oriented Model for Autism Registry System (Medical Informatics)

**2016-** Pourmagsoudi, S. Developing an Object-oriented Model for Hepatitis Registry System (Medical Informatics)

**2016-** Lotfi, M. Evaluation of Operation Room Information System in Hospitals Affiliated with Shahid Beheshti, Iran, and Tehran University of Medical Sciences (Health Information Technology)

**2016-** Karimi, A. Evaluation of Health Information Technology Departments in Hospitals Affiliated with Shahid Beheshti, Iran, and Tehran University of Medical Sciences (Health Information Technology)

**2015-** Ostvan, N. Evaluation of the Usability of Nursing Information Systems in Hospitals Affiliated with Medical Universities in Tehran (Health Information Technology)

**2014-** Rezaei, T. Developing an Evaluation Model for Physiotherapy Information System

(Health Information Technology)

**2014-** Farshbaf, R. Developing a Database Architecture Model for National Roads Traffic Accidents (Medical Informatics)

**2013-** Ghorban-Alinezhad, M. Developing an Evaluation Model for Radiology Department Utilization Management Software (Medical Informatics)

**2012-** Paydar, S. Evaluation of Radiology Management Information System in Hospitals Affiliated with Medical Universities in Tehran (Health Information Technology)

**M.Sc. Dissertation Advisor- Completed (N=44, Featured are Listed Below)**

**2021** –Salehi S. Design and Evaluation of Self-reporting Application for General Surgery Error (Medical Informatics)

**2020-** Tahmasbpour, F. Design and Evaluation of a Mobile Application for Women’s Self-management for Prevention of Breast, Cervix, and Lymphatic Gland’s Cancer (Medical Informatics)

**2020-** Shahriari, H. Design and Evaluation of a Mobile Application for Self-management of Patients with Metabolic Syndrome (Medical Informatics)

**2020-** Hosseini, M. Auditing the Quality of Trauma Coding Based-on ICD-10 in Hospitals Affiliated to Shahid Beheshti University of Medical Sciences (Health Information Technology)

**2018-** Mostaf Yazdanparast. Presenting an Evaluation Model for Crisis Management Information System (Medical Informatics)

**2018-** Razavi, Z. Presenting an Evaluation Model for Decision Support System of Mechanical Ventilation (Medical Informatics)

**2018-** Sheikh-mohammadi, N. Developing an Object-oriented Model for Colorectal Cancer (Medical Informatics)

**2018-** Mohebi, Sara. Comparing the Efficiency of the Diagnostic Models for Tuberculosis Using Multi-layer Perceptron Neural Network and Adaptive Neuro-Fuzzy Inference System (Medical Informatics)

**2018-** Ramezani, F. Developing a Model for Diabetes Population-based Registry (Medical Informatics) (Health Information Technology)

**2017-** Ostadi, M. Developing an Evaluation Model for Rescue Information System (Health Information Technology)

**2016-** Hosseini, S. Evaluation of Intensive Care Unit (ICU) Information Systems in Hospitals Affiliated with Shahid Beheshti University of Medical Sciences (Health Information Technology)

**2016-** Shahbazi, N. Study on Health Information Technology (HIT) Departments in Hospitals Affiliated to Jondi-Shapour University of Medical Sciences (Health Information Technology)

- 2016-** Taherian, M. Comparing the Efficiency of Multiple Decision Tree (MDT) and Cox Regression Models for Predicting the Survival of Patients with Leukaemia (Medical Informatics)
- 2016-** Kheirian, S. Comparing the Efficiency of Support Vector Machine (SVM), Decision Tree (DT) Models for Predicting the Survival of Patients with Colorectal Cancer (Medical Informatics)
- 2016-** Comparing the Efficiency of Multi-layer Perceptron (MLP) and Decision Tree (DT) for Prediction of Chronic Lymphoblastic Leukaemia (Medical Informatics)
- 2016-** Mohammadi, A. Study of Pharmacy Information System in Hospitals Affiliated with Shahid Beheshti University of Medical Sciences (Health Information Technology)
- 2016-** Bastam, M. Design and Evaluation of a Mobile Application for First-Aids Assistance in Road Accidents (Medical Informatics)
- 2016-** Sohrabi, S. Comparing the Efficiency of Prediction Models for Breast Cancer Using Genetic Algorithm and Multi-layer Perceptron (MLP) Techniques (Medical Informatics)
- 2016-** Nourani, A. Comparing the Efficiency of Prediction Models in Patients with Colorectal Cancer using Parametric and Non-Parametric Approaches (Medical Informatics)
- 2016-** Mohammad-Hassan Zadeh, N. Comparing the Efficiency of Prediction Models for Gastric Cancer Using Multi-layer Perceptron (MLP), Decision Tree (DT), and Neural Network Techniques (Medical Informatics)
- 2016-** Shabhodaghi, R. Developing an Evaluation Model for Cancer Registry System (Medical Informatics)
- 2016-** Salmani, M. Study on Hospital-based Eye Injuries Registry System in Hospitals Affiliated to Medical Registries in Tehran (Health Information Technology)
- 2016-** Golshani, M. Study on Information Technology Adoption in Emergency Departments of Hospitals Affiliated with Shahid Beheshti University of Medical Sciences (Health Information Technology)
- 2014-** Deimazar, G. Developing an Evaluation Model for Pharmacy Information Systems in Hospitals Affiliated with Medical Universities in Tehran (Health Information Technology)
- 2014-** Jahangiri, S. Evaluation of National Electronic Health Records (SEPAS) (Health Information Technology)
- 2014-** Ahmadzadeh, B. The Efficiency of Multi-layer Perceptron (MLP) Technique for Predicting Coronary Artery Disease (Medical Informatics)
- 2013-** Norouzi, A. Evaluation of Mental Health Information System in Hospitals Affiliated with Medical Universities in Tehran (Health Information Technology)
- 2012-** Maghsoudi, E. Evaluation of Nursing Management Information System in Hospitals Affiliated with Medical Universities in Tehran (Health Information Technology)

## Research Projects

**1-Subject:** Electronic Services in Social Security Organizations and Factors Influencing the Implementation of the Programme

**2-Subject:** Design, Development, and Evaluation of a Dashboard for Emergency Department Management

**3-Subject:** Design and Evaluation of a Registry Software for Coronary Artery Disease (CAD)

**4-Subject:** Developing a Population-based Registry for Drug Poisoning in Iran.

**5-Subject:** Design and Evaluation of a Computerized Provider Order Entry (CPOE) Supported with CDSS for Breast

**6-Subject:** Observatory of Pervasive and Effective Virtual Medical Education for Situations Similar to Covid-19 Quarantine

**7-Subject:** Comparative Study of Medical Informatics Human Resources in Regional, European, and North American Countries

**8-Subject:** Design and Evaluation of a Mobile Application for Self-Management of Metabolic Syndrome

**9-Subject:** Developing a Model for Covid-19 Vaccination Information Management System in Pregnant Women.

**10-Subject:** Auditing the Quality of Trauma Coding Based-on ICD-10 in SEPAS (National Electronic Health Records System) in Hospitals Affiliated to Shahid Beheshti University of Medical Sciences

**11-Subject:** Developing a Population-based Model for Managing Cardiovascular Diseases and Design and Evaluation of Hospital-based Software for Data Management

**12-Subject:** Developing a Model for Health Information Management Governance in Iran.

**13-Subject:** Design and Evaluation of a Mobile Application for Relapse Prevention to Methamphetamine Use Disorder

**14- Subject:** Design and Evaluation of a Software for Error Detection in Patients' Pharmaceutical Data

**15- Subject:** Analysis of Road Traffic Accident using GIS in Hospitals Affiliated to Tehran University of Medical Sciences.

## National Memberships

**2019- Now-** Member of Board of Directors and Scientific Secretary to Iranian Medical Informatics Association (IRAMI)

**2012-2018-** Member of Board of Directors and Treasurer to Iranian Medical Informatics Association (IRAMI)

## Awards and Honors

**2022-** Nominated member of Academy of Medical Sciences (AMS), Digital Health Working Group

**2019 -** *Khayyam* national award for featured PhD projects- Design and Evaluation of a Registry for Cardiac Catheterization Per Cutaneous Intervention (Cath PCI)

**2014 –** Top Ranked Faculty Member in Shahid Motahari 9<sup>th</sup> Educational Festival

**2008 -** *John Campbell Trust*, UK (award was granted to a project on the NHS National Programme for IT-NPfit)

**2005** - Full-time PhD scholarship, Ministry of Health and Medical Education, Iran

**2005**- Top Ranked Researcher in Kashan University of Medical Sciences

### **Congress Scientific Committee**

**2022**- A Jury Member to eBall Tech Event run by Smart University of Medical Sciences (Examining the Start- Up Projects in Healthcare at a National Level)

**2022**- Member of Scientific Committee to International Telemedicine Conference, Isfahan, Iran, 21-23 Feb,

**2018**- Member of Scientific Committee to the 2<sup>nd</sup> Congress on Medical Informatics and 7<sup>th</sup> Conference of eHealth and ICT Application in Healthcare, Tehran, Iran, April.

**2018**- Member of Scientific Committee to the 1<sup>st</sup> Congress on Health Information Technology and 5<sup>th</sup> Congress on Health Information Management, Tabriz, Iran, April.

**2012**- A panel member in the international conference on E-Health, Tehran, Iran.

### **Journal and Book Editor**

**2019**- Book Editor- “Big Data and Its Analysis in Health” – Iranian Social Security Organization.

**2004**- Editor to Journal of Kashan University of Medical Sciences (KAUMS) <https://feyz.kaums.ac.ir/page/71/Indexing-Sources> ( CINAHL, EBSCO, DOAJ..)

**2001**- **Technical** Manager to Journal of Health Administration, formerly known as Quarterly Journal of Management and Medical Information Sciences, Iran University of Medical Sciences (IUMS), <https://jha.iums.ac.ir/page/79/Indexing-and-Abstracting> (Scopus, ISC, DOAJ, IMEMR...)

### **Journal Reviewer**

An active reviewer to the following international and national journals over the past years:

- BMC Medical Informatics and Decision Making
- BMC Medical Research Methodology
- BMC Health Service Research
- BMC Public Health
- Health Informatics Journal
- Healthcare Informatics Research
- Health Information Management
- Applied Clinical Informatics
- Asia-Pacific Journal of Clinical Oncology
- SN Comprehensive Clinical Medicine
- Science Progress

- Journal of Health and Biomedical Informatics
- Journal of Health Administration
- Journal of Payavard Salamat
- Journal of Hospital
- Archives of Advances in Biosciences

### **Administrative Experience and Executive Positions**

2022-Present, Deputy of Education to Department of Information Technology and Management

2019- Present, Academic Secretary to Iranian Association of Medical Informatics (IRAMI)

2012-2018, Treasurer to Iranian Association of Medical Informatics (IRAMI)

2016- Examiner to National PhD Exam in Medical Informatics, Governor: Ministry of Health of Iran through Tehran University of Medical Sciences

2017- Examiner to National PhD Exam in Medical Informatics, Governor: Ministry of Health of Iran through Iran University of Medical Sciences

2018- Examiner to National PhD Exam in Medical Informatics, Governor: Ministry of Health of Iran through Iran University of Medical Sciences

2019- Examiner to National PhD Exam in Medical Informatics, Governor: Ministry of Health of Iran through Mashhad University of Medical Sciences

### **Research Interests:**

Health Information Systems Analysis and Evaluation, Clinical Decision Support Systems, Computerized Provider Order Entry (CPOE), Medical Registries, Medical Dashboards, Mobile Health (mhealth)/ Mobile Applications, eHealth/Digital Health, Healthcare Information Strategies, User-Centered Design of Information Systems, Human Computer Interaction (HCI), Systematic Reviews, IT adoption and Change Management, Qualitative Research Methodologies.

### **Skills**

**Computer:** MS Project, ATLAS Ti, NVivo, Endnote, SPSS, Enterprise Architecture, Rational Rose

**English Language:** Professional level, Teachers Training Certificate (TTC)