



Biography

Mahnaz Hamedan, Assistant Professor in Health Information Management, has received her Ph.D. from Shahid Beheshti University of Medical Sciences, Tehran, Iran in 201⁹. Currently, She works as an Assistant Professor at Department of Health Information Management, school of Medicine, Ardabil University of Medical Sciences (ARUMS), Iran. Her research focuses on Management Dashboards, Artificial Intelligence (AI), Telemedicine and development of health information systems.

Curriculum Vitae

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Personal

- Date of birth: ۲۲ September 1985
- Place of birth: West Azerbaijan, Iran
- Sex: Female
- Nationality: Iranian
- Statues: Married

Education

2013 - 2019

Shahid Beheshti University of Medical Sciences, Tehran, Iran (Ph.D. in Health Information Management)

2007-2010

Tehran University of Medical Sciences, Tehran, Iran (M.Sc. in Health Information Technology)

2005 - 2007

Iran University of Medical Sciences, Tehran, Iran (B.Sc. in Medical Records)

Publications

- ۱) Nouri, H; Mahdavi, A; Abedi, A; Mohammadnia, A; **Hamedan, M**; Amanzadeh, M. Performance of large language models in medical licensing examinations: a systematic review and meta-analysis. *Journal of educational evaluation for health professions*. 2025; 22:36.
- 2) Tarighatnia, A; Amanzadeh, M; **Hamedan, M**; Mohammadnia, A; Nader, N D. Deep Learning-Based Evaluation of Panoramic Radiographs For Osteoporosis Screening: A Systematic Review and Meta-Analysis. *BMC medical imaging*. 2025; 25(1): 45668.
- 3) Tarighatnia, A; Amanzadeh, M; **Hamedan, M**; Mobareke, M K; Nader, N D. Opportunities and Challenges of Large Language Models in Medical Imaging. *Frontiers in Biomedical Technologies*. 2025; 12(2): 205-209.
- 4) Amani, F; Amanzadeh, M; **Hamedan, M**; Amani, P. Diagnostic Accuracy of Deep Learning in Prediction of Osteoporosis: A Systematic Review and Meta-Analysis. *BMC medical imaging*. 2024; 25(1): 991.
- 5) Mahdavi, A; Amanzadeh, M; **Hamedan, M**. The Role of Large Language Models in Modern Medical Education: Opportunities and Challenges. *Shiraz E-Med Journal*. 2024; 25: e144847.
- ۶) Amanzadeh, M; **Hamedan, M**; Mahdavi, A; Mohammadnia, A. Digital Cognitive Tests for Dementia Screening: A Systematic Review. *Shiraz E-Med Journal*. 2023; 25(6): e137241.
- ۷) Amanzadeh, M; Mahdavi, A; Mashoufi, M; **Hamedan, M**. Mobile Health in Management of Gastrointestinal Diseases: Opportunities and Challenges. *Journal of Biomedical Physics & Engineering*. 2023; 13.
- ۸) Mahdavi, A; Amanzadeh, M; **Hamedan, M**; Naemi, R. Artificial Intelligence Based Chatbots to Combat Covid-19 Pandemic: A Scoping Review. *Shiraz E-Med Journal*. 2023; 24(11): e139627.
- ۹) Mahdavi, A; Amanzadeh, M; **Hamedan, M**. The Challenges of Mobile Health in Achieving Health Equity during The COVID-19 Pandemic. *Journal of Biomedical Physics & Engineering*. Shiraz University of Medical Sciences. 2023; 13.
- 1۰) Mahdavi, A; Amanzadeh, M; Mashoufi, M; **Hamedan, M**. Application of Mobile Health for Diagnosis of Dementia and Other Cognitive Disorders in Older Adults. *Journal of Biomedical Physics & Engineering*. 2023; 13.
- 1۱) Moghaddasi, H; **Hamedan, M**; Asadi, F; Emami, H; Rahimi, F. Integrated Information System for The Older People With A Comprehensive Care Delivery Approach. *American Journal of Biomedical Science & Research*. 2019;2(6): 222-228.
- 1۲) Moghaddasi, H; Amanzadeh, M; Rahimi, F; **Hamedan, M**. Ehealth Equity: Current Perspectives. *Journal of the International Society for Telemedicine and eHealth*. 2017 Jun 18;5:e9-1.
- 1۳) Dargahi, H; **Hamedan, M**; Ghazi Saeedi, M; Safdari, R. *Clinical Information System*. Avayee Danesh Gostar. 2011; ISBN: 978-964-2557-61-5.
- 15) Dargahi, H; Ghazi Saeedi, M; Safdari, R; **Hamedan, M**. A Survey of Clinical Information System Process in General Hospitals of Tehran University of Medical Sciences. *Payavard Salamat journal*. Tehran University of Medical Sciences. 2010; 4(2):31-43.
- 1۴) Safdari, R; **Hamedan, M**; Ghazi Saeedi, M. Ethical and Legal Challenges in E-Health Systems. *Journal of the Iranian Medical Records Scientific Association*. Tehran University of Medical Sciences. 2007; 1.

Presentations

- 1) **Hamedan, M**; Mohammadi Azar M; Haghighat Z; Amanzadeh, M. Blockchain Technology Based on Artificial Intelligence in Electronic Health. The 6th Iranian Telemedicine Association Congress. 2024. Iranian Telemedicine Association. Tehran, Iran.
- 2) Haghighat Z; Mohammadi Azar M; **Hamedan, M**. Role of Metaverse in Reducing Health Care Costs. The 6th Iranian Telemedicine Association Congress. 2024. Iranian Telemedicine Association. Tehran, Iran.
- 3) Mohammadi Azar M; **Hamedan, M**; Haghighat Z. Telemedicine in Health Tourism: Challenges, Opportunities, and Solutions. The 6th Iranian Telemedicine Association Congress. 2024. Iranian telemedicine association. Tehran, Iran.
- 4) Amanzadeh, M; Mahdavi A, **Hamedan, M**. Application of Health Chatbots in Control and Management of The COVID-19 Pandemic. 2022. The 5th Conference on Information Technology and Health Promotion. Aja University of Medical Sciences, Tehran, Iran.
- 5) **Hamedan, M**. Organizational Management and Challenges of a Changing Organizational: Solutions. The 3rd National Scientific Conference of Paramedical Students in Tehran. 2008. Tehran University of Medical Sciences, Tehran, Iran.
- 6) **Hamedan, M**. Ethical and Legal Challenges in E-Health Systems. The 2nd National Scientific Conference of Paramedical Students in Tehran. 200V. Tehran University of Medical Sciences, Tehran, Iran.
- Y) **Hamedan, M**. A Review of EHR Standards from an Ad Hoc Perspective. The 2nd National Scientific Conference of Paramedical Students in Tehran. 200V. Tehran University of Medical Sciences, Tehran, Iran.

Posters

- 1) M.Amanzadeh, **M. Hamedan**. Ethics and Health Chatbots. Iranian Journal of Medical Ethics and History of Medicine. 2024. Shiraz University of Medical Sciences. Shiraz, Iran.
- 2) M. Mohammadi Azar, A.Rezapour, **M. Hamedan**. The Application of Artificial Intelligence in Improving Medication Management and Reducing Medication Errors: Challenges and Opportunities. The 2nd National Scientific Conference on Rational Prescription and Consumption. 2024. Esfahan University of Medical Sciences, Esfahan, Iran.
- 3) **M.**Mohammadi Azar, A.Rezapour, **M. Hamedan**. The Impact of Drug Authenticity Non-Verification on Hospital Deductions. The 2nd National Scientific Conference on Rational Prescription and Consumption. 2024. Esfahan University of Medical Sciences, Esfahan, Iran.
- 4) M.Amanzadeh, A.Mahdavi, **M. Hamedan**. Application of Large Language Models (LLMs) in Dementia Care. International Healthy Aging Congress. 2024. Tabriz University of Medical Sciences. Tabriz, Iran.
- 5) M.Amanzadeh, A.Mahdavi, M. Mashoufi, **M. Hamedan**. Mobile Health in Management of Gastrointestinal Diseases: Opportunities and Challenges. The 5th Shiraz International Congress on mHealth. 2023. Shiraz University of Medical Sciences. Shiraz, Iran.
- 6) A.Mahdavi, M.Amanzadeh, M. Mashoufi, **M. Hamedan**. Application of Mobile Health for Diagnosis of Dementia and Other Cognitive Disorders in Older Adults. The 5th Shiraz International Congress on mHealth. 2023. Shiraz University of Medical Sciences. Shiraz, Iran.
- 7) A.Mahdavi, M.Amanzadeh, M. Mashoufi, **M. Hamedan**. The Challenges of Mobile Health in Achieving Health Equity during The COVID-19 Pandemic. The 5th Shiraz International Congress on mHealth. 2023.Shiraz University of Medical Sciences. Shiraz, Iran.
- 8) M.Amanzadeh, M. Mashoufi, A.Mohammadnia, **M. Hamedan**. Internet of Robotic Things in Healthcare Domain: Applications and Challenges. The 1th International Congress of

Artificial Intelligence in Medical Sciences. 2023. Smart University of Medical Sciences. Kish Island, Iran.

9) A.Mohammadnia, M.Amanzadeh, M. Mashoufi, **M. Hamedan**. Blockchain Technology in Healthcare Domain: Applications and Challenges. The 1th International Congress of Artificial Intelligence in Medical Sciences. 2023. Smart University of Medical Sciences. Kish Island, Iran.

10) A.Mohammadnia, M.Amanzadeh, M. Mashoufi, **M. Hamedan**. Artificial Intelligence and Health Equity. The 1th International Congress of Artificial Intelligence in Medical Sciences. 2023. Smart University of Medical Sciences. Kish Island, Iran.

11) M.Amanzadeh, A. Mahdavi, **M. Hamedan**. Telemedicine and Health Equity during the COVID-19 Pandemic; Barriers and Solutions. The International Telemedicine Conference. 2022. Isfahan university of Medical Sciences, Isfahan, Iran.

12) **M. Hamedan**. Patients' Rights in the Perspective of the Islamic Religion. Patients' Rights Conference. 2010. Tehran University of Medical Sciences, Tehran, Iran.

13) **M. Hamedan**. Comparative Evaluation of CCR and CDA Standards and the Presentation of a Common Model. The 3rd National Scientific Conference of Paramedical Students in Tehran. 2008. Tehran University of Medical Sciences, Tehran, Iran.

14) **M. Hamedan**. Evaluation of the Accuracy of Cause-of-Death Documentation on Death Certificates and Associated Influencing Factors in the Educational Hospitals of Mazandaran University of Medical Sciences. The 2nd National Scientific Conference of Paramedical Students in Tehran. 200V. Tehran University of Medical Sciences, Tehran, Iran.

15) **M. Hamedan**. Assessment of the Functional Characteristics of the Hospital Information System in the Medical Records Department. The 2nd National Scientific Conference of Paramedical Students in Tehran. 200V. Tehran University of Medical Sciences, Tehran, Iran.

16) **M. Hamedan**. Ward In Hand. The 2nd National Scientific Conference of Paramedical Students in Tehran. 200V. Tehran University of Medical Sciences, Tehran, Iran.

17) **M. Hamedan**. MDS in Nursing Informatics Systems. The 2nd National Scientific Conference of Paramedical Students in Tehran. 200V. Tehran University of Medical Sciences, Tehran, Iran.

Executive responsibilities

1) Secretariat Member of the Iran Health Care Roadmap Project (Vision 1404) at the Office of the Vice-Chancellor for Treatment Affairs, Tehran University of Medical Sciences.

2) Member of the Telemedicine (PAD) Committee, Office of the Vice-Chancellor for Treatment Affairs, Tehran University of Medical Sciences.

3) Member of the University Telemedicine Headquarters Committee (SEPAD), Tehran University of Medical Sciences.

4) Evaluator of Hospitals in the Country Using a Modern Accreditation Approach, Office of the Vice-Chancellor for Treatment Affairs, Tehran University of Medical Sciences.

5) Medical Records and Statistics Officer, Office of the Vice-Chancellor for Treatment Affairs, Tehran University of Medical Sciences.

6) Health Information Technology and Health Economics Officer, Office of the Vice-Chancellor for Treatment Affairs, Ardabil University of Medical Sciences.

7) Reviewer of scientific papers from scientific journals.

- 8) Member of the University Telehealth and Telemedicine Services Committee (University PAD Committee), Office of the Vice-Chancellor for Treatment Affairs, Ardabil University of Medical Sciences.
- 9) Representative for the Online Bed Monitoring Service, Office of the Vice-Chancellor for Treatment Affairs, Ardabil University of Medical Sciences.
- 10) Member of the Research Committee, Office of the Vice-Chancellor for Treatment Affairs, Tehran University of Medical Sciences.
- 11) Executive Committee Member, The 2nd National Scientific Congress of Paramedical Students, Tehran University of Medical Sciences.
- 12) Research Committee Member, School of Paramedical Sciences, Tehran University of Medical Sciences.
- 13) Executive Committee Member, The 3rd National Scientific Congress of Paramedical Students, Tehran University of Medical Sciences.
- 14) Head of the Medical Records and Statistics Unit, Dr. Shariati Hospital, Tehran University of Medical Sciences.
- 15) Secretary of the Knowledge Management and EFQM Organizational Excellence Model Project Committee, Dr. Shariati Hospital, Tehran University of Medical Sciences.

Awards and appreciation

Habits

Sports (Mountain Climbing, Badminton and Volleyball)