Nahid Tavakoli
MSc, PhD

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Profile

Dr Nahid Tavakoli MSc, PhD. is an Assistant Professor at the Department of Management and Health Information Technology, School of Management and Medical Information Sciences, Isfahan University of Medical Sciences in Iran. B.Sc. degree in Medical Record from Shahid Beheshti Isfahan University of Medical Sciences (Iran). M.Sc. degree in Medical Record Education from Iran University of Medical Sciences (Iran). Ph.D. in Health in Disaster(s) & Emergencies from Isfahan University of Medical Sciences (Iran). Published more than 40 refereed journal/conference papers and research interests include Information management in emergency department, hospital information system (HIS), electronic medical record (EMR) in ambulatory care unit, electronic health record (EHR) challenges in Iran, patient tracking system in disaster(s), developing response plan to flood hazard and Interorganization Information and Communication in disaster and emergencies.

Teaching

Disaster Information and Communication Management (Postgraduate)
This compulsory module covers basic concepts in information and communication management. It introduces the concept of roles and responsibilities of communication and information management in emergencies and disaster(s). It covers early warning systems and community media. Also includes communication management with media during disaster and emergencies.

Health Information System in Disaster(s) and Emergencies (Postgraduate)
This Compensatory Module introduces the definition and components of information system and principles of its development to students who do not have background knowledge in this field. The focus is on current technologies and information system in disaster(s) and emergency response including patient tracking system; tele medicine; Radio Frequency Identification (RFID); Near Field Communication (NFC); Wireless Sensor and smart devices.

Disaster Risk Management (Postgraduate)
This compulsory module begins with a discussion of historical context of thinking about disasters. In continues, it provides a sample of theories and concepts, applicable to the domain of disaster policy and to the field of emergency management. Also in this module, it introduces the basic concepts, principle and practical application underpinning best practice in all aspects of disaster management. This module covers new approaches of disaster management considering Hyogo and Sendai Framework for Disaster Risk Reduction. It also provides an overview of leadership, coordination and logistic and resources management in disasters.

Introduction and Principles of Disaster Management (Undergraduate & Postgraduate)

This compulsory module begins with definition of basic concepts of disaster and emergencies keywords. In continuous, it introduces the disaster management cycle and explanation each phase in the cycle including prevention & mitigation, preparedness, response and recovery. At the end of this course, students have to draw the risk map and complete the risk matrix in a scenario. All of the students in Isfahan University of Medical Sciences have to pass this course.

Health Information System (Undergraduate)
This compulsory Module covers definition and basic concepts in health information system. It introduces the principle of health information system design and development. Also in this module, it introduces the health information system architecture and use of information system in health system. This module covers electronic medical record and electronic health record components and functions. It also provides an overview of health data confidentiality and security, electronic health information exchange and content and structure of health information.

Research

Her main research topics are patient tracking system(PTS), and disaster response plan, communication and information management in disaster and emergencies. Since 2000 until now she has been principle and co-investigator for several funded research projects on emergency medical information management, Electronic Medical Record, Disaster Plan and Interorganization Information and Communication in disaster and emergencies.
Her PhD dissertation was sponsored by Iran National Science Foundation (INSF) in the field of patient tracking platform.

Publications

Developing a Hospital Response Plan for Mass Casualties in Traumatic Incidents: A study protocol.
2025 Journal of Education and Health Promotion
Tajik M, Atighechian G, Nasr M, Tavakoli N (corresponding author).

Extracting Hidden Patterns of Iranian User Trust in Social Networks Regarding Coronavirus Disease 2019 Using Data Mining Techniques. 2024. International Journal of Environmental Health Engineering
Jangi M, Jahanbakhsh M, Tavakoli N, Bagherian H, Ehteshami A, Saghaeian Nejad S, Sattari M

Identifying flood response experiences in Iranian health system: A qualitative study.
2023. J Flood Risk Management.
Mohajervatan A, Atighechian G, Khankeh H, Raeisi A, Tavakoli N (corresponding author).

A comparative study of interagency communications and information exchange in disaster response among selected countries. 2023. Edu Health Promot
Abdolahzadeh F, Bagherian H, Peyravi M, Kolivand P, Tavakoli N (corresponding author).

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Nasr Isfahani M,Tavakoli N, Bagherian H, Fatemi N, and Sattari M

Experiences of Experts with Communication and Information Exchange in Response to Disasters.
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Disaster planning approaches in Iran's health system: A mixed-methods study
2022. J Edu Health Promot
Mohajervatan A, Atighechian G, Khankeh H, Raeisi A, Tavakoli N (corresponding author**).**

Health sector's flood response plan: A comprehensive review
2021. Environmental Health Engineering and Management Journal
Mohajervatan A, Tavakoli N (corresponding author), Khankeh H, Raeisi A, Atighechian G.

Information challenges of COVID-19: A qualitative research.
2021. J Edu Health Promot
Atighechian G, Rezaei F, Tavakoli N (corresponding author), Abarghoian M.

The Information Needs of the Iranian People in the COVID-19 Pandemic from the Perspective of Health Professionals: A Qualitative Approach. 2021. Journal of Education and Community Health.
Atighechian G, Tavakoli N, Rezaei F.

The role of virtual social networks in shaping people's attitudes toward COVID-19 in Iran 2021. Journal of Education and Health Promotion
Jahanbakhsh M, Bagherian H, Tavakoli N, Ehteshami A, Sattari M, Saghaeian Nejad Isfahani S,

Test and Evaluation of Patient Tracking Platform: Use of Near Field Communication
2020. Health in Emergencies and Disasters Quarterly
Tavakoli N , Yarmohammadian Mohammad H , Samimi A.

A review on the use of operational research techniques in the medical records department
2020. Proceedings of Singapore Healthcare
Bagherian H, Jahanbakhsh M, Tavakoli N

Effect of Relief Maneuvers on Staff Preparedness for Disasters. [In Persian]
2020. Sci J Rescue Relief
Abdolahzadeh F, Tavakoli N , Mohammadi MB , Jalali P , Hassani Nalousi A.

Challenges and recommendations for patient tracking in past earthquakes: An experience from Iran. (Extracted from my PhD dissertation) 2018. Trauma Monthly
Tavakoli N, Safdari R, Keyvanara M, Yarmohammadian M.

Designing a model of patient tracking system for natural disaster in Iran. (Extracted from my PhD dissertation) 2017. J Edu Health Promot
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Overcrowding in emergency departments: A review of strategies to decrease future challenges.
2017. J Res Med Sci.
Yarmohammadian M, Rezaei F, Haghshenas A, Tavakoli N.

Patient tracking in earthquake emergency response in Iran: A qualitative study. (Extracted from my PhD dissertation) 2017. World J Emerg Med.
Tavakoli N, Safdari R, Keyvanara M, Yarmohammadian M.

External evaluation of four hospitals according to patient-centred care standards
2013. Acta Inform Med.
Tavakoli N, Abbasi Sh.

E-health implementation challenges in Iranian medical centers: A qualitative study in Iran 2013. Telemedicine and e-Health
Sharifi M, Ayat M, Jahanbakhsh M, Tavakoli N, Mokhtari H, Kheiruzzaman W

Electronic medical record in central polyclinic of Isfahan oil industry: A case study based on technology acceptance model. 2013. Acta Inform Med.
Tavakoli N, Shahin A, Jahanbakhsh M, Mokhtari H, Rafiei M.

Patient access to electronic health record: a comparative study on laws, policies and procedures in selected countries. 2013 Med Arh.
Tavakoli N, Saghaeian Nejad S, Amini A

A comparative study of laws and procedures pertaining to the medical records retention in selected countries. 2012. Acta Inform Med.
Tavakoli N, Saghaeian S, Habibi MR.

Opportunities of Electronic Health Record Implementation in Isfahan
2011. Procedia Computer Science
Tavakoli N, Jahanbakhsh M.

Information management on emergency departments at Isfahan University of Medical Sciences. [In Persian]
2006. Health Information Management Journal
Tavakoli N, Yarmohammadian M.

Scholarly Contributions
Journal Reviewer: Journal of Education and Health Promotion, Journal of Health Information Management, Disaster Medicine and Public Health Preparedness, Frontiers in Health Services, International Journal of Preventive Medicine

References:

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