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Health Information Management

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Education

- Tehran University of Medical Sciences, Health Information Management, PhD, 2008-2012
- Shahid Beheshti University of Medical Sciences, Health Information Management (Medical Records), MSc, 2004-2007
- Shahid Beheshti University of Medical Sciences, Health Information Management (Medical Records), BSc, 1999-2003

Academic positions

1. Full time faculty member, Iran University of Medical Sciences, 2014- Now.
2. Full time faculty member, Tehran University of Medical Sciences, 2013- 2014.
3. Part time lecturer, Iran University of Medical Sciences, 2012- 2014.
4. Part time lecturer, Shahid Beheshti University of Medical Sciences, 2010-2012.
5. Full time lecturer, Kashan university of Medical Sciences, 2007-2008

Academic teaching experiences

PhD courses
- Data mining and knowledge discovery (2014-Now)
- Analyzing and modeling the business processes and workflows/process mining (2018-Now)
- Quality improvement methods (2012-Now)
- Ethics and medical informatics (2014-2018)

- Telemedicine (2012-now)

- Analysis and development methods for information systems (2012-2016)

- Disease surveillance and monitoring systems (2012-2016)

- Planning for information management (2012-2013)

Master courses
- Artificial intelligence in Medicine (2023)
- Data standards and coding (classification) systems (2014-Now)

- Electronic health record (2012-Now)

- Health nomenclature and classification system (2014-Now)

- Health care evaluation methods (2012-Now)

- Managing health information systems (2014-2017)

- Application of information technology in health industry (2012-2014)

- Research seminar (2012-2014)

- Management of health information systems (2012-2013)

- Health information management (2010-2012)

Undergraduate courses
- Health data quality (2012-2018)

- Clinical coding (2014-2018)

- International health classification systems (2014-2018)

- Health Information Technology 1 (2012-2018)

- Health Information Technology 2 (2012-2018)

- Information technology in crisis management (2012-2018)

- Electronic health record (2014-2018)

- Research seminar (2012-2018)

- Research methods (2012-2017)

- Information technology in crisis management (2012-2014)

- Health information management 1 (2012-2014)

- Health information management 2 (2012-2014)

- Health information management (2007-2008)

- Clinical coding (2007-2008)

- Research methods (2007-2008)

Publications

Articles in English

Under review

1. Deimazar G, **Sheikhtaheri Abbas**. Application of machine learning and deep learning methods to analyze patient safety incident reports: A systematic review. **Under review.**

2. Mostofi D, Sayadi J, **Sheikhtaheri Abbas**. Predicting Mortality Following Percutaneous Coronary Intervention among Patients with Acute Myocardial Infarction: A Machine Learning Approach. **Under review.**

3. Paydar K. **Sheikhtaheri Abbas**. Prediction of pregnancy outcomes in women with systematic lupus erythematosus before pregnancy: Application of machine learning. **Under Revision**.

4. Marjan Fathi, Seyed Kazem Malakouti, Mohsen Rezaeian, Kourosh Sayehmiri, **Sheikhtaheri Abbas**, Ida Ghaemmaghamfarahani, Ahmad Hajebi, Behrooz Ghanbari, Farnaz Etesam. A Multicenter Registry Protocol for Suicidal Behaviors in Iran: The SUBRP Study (2019-2022) **Submitted**

5. Shadi Akbarian, **Sheikhtaheri Abbas**, Farid Khorrami, Hossein Ghahvechian, Nasser Karimi, Mohsen Bahmani Kashkouli. Implementation of Thyroid Eye Disease Registry in Iran: Rationale and Research Protocol. **Submitted**

6. Ahmadi H, Huo H, Sheikhtaheri Abbas, Zhou S. Early detection of Parkinson's disease: a hybrid intelligent approach with eHealth records. **Submitted**

7. Keramat A, Sabetrohani H, Koohpayehzadeh J, **Sheikhtaheri Abbas**, Goli S. Perspectives of mothers and providers regarding virtual care approaches during pregnancy in high and low-income countries: a meta-synthesis on qualitative studies. **Under revision**

8. Sabermahani F, Almasi-Dooghaee M**. Sheikhtaheri Abbas** Effectiveness of serious games in evaluating cognitive status of the elderly: A systematic review and meta-analysis. **Under review**.

9. **Sheikhtaheri Abbas,** Taheri Moghadam S**,** Tatarpoor P**.** Acceptance of patient safety reporting systems among nurses: application of the unified theory of acceptance and use of technology (UTAUT). **Under Revision**.

10. Moulaei K, **Sheikhtaheri Abbas**. Smart Diabetic Shoe System for Foot Ulcer Self-Management: A Usability Evaluation. **Under review**.

Published

11. Deimazar G, **Sheikhtaheri Abbas**. Machine learning models to detect and predict patient safety events using electronic health records: A systematic review. International Journal of Medical Informatics 2023, 105246. (IF=4.9, Q1) [Link].

12. Azin Nahvijou, Erfan Esmaeeli, Bita Kalaghchi, **Sheikhtaheri Abbas**, Kazem Zendehdel. Using electronic health record system to establish a national patient's registry in Iran: lessons learned from the cancer registry. International Journal of Medical Informatics 2023, 105245. (IF=4.9, Q1) [link]

13. Taheri Moghadam S, **Sheikhtaheri Abbas**. Hooman N, Patient safety classifications, terminologies and ontologies, part 2: A systematic review on content coverage. Journal of Biomedical Informatics, 2023. (IF=4.5, Q1)

14. Kermani F, Zarkesh MR, Vaziri M, Sheikhtaheri Abbas. A case-based reasoning system for neonatal survival and LOS prediction in neonatal intensive care units: a development and validation study. Scientific Reports, 2023 13(1), 8421. (IF= 4.6, Q1). [link]

15. Jebraeily M, Farzi J, Fozoonkhah S, **Sheikhtaheri Abbas**. Identification of root causes of clinical coding problems in Iranian hospitals. Health Information Management Journal, 2023;52(3):144-150. WOS/Pubmed (IF: 3.2; Q1) [link]

16. Sabbaghi H, Ahmadieh H, Daftarian N, Suri F, Saviz P, Khorrami F, Madani S, Sheikhtaheri Abbas. A health terminological system for inherited retinal diseases: content coverage evaluation and a proposed novel classification. PLOS One 2023; 4;18(8):e0281858. (IF= 3.7, Q1) [link]

17. Arabkermani Z, Sharifian R, Esmaeli N, Bastani P, Bashiri A, **Sheikhtaheri Abbas.** Usability of Iranian primary vitiligo patient registry: a pilot study. Studies in Health Technology and Informatics; 2023; 299: 251-255 [link]

18. Moulaei K, **Sheikhtaheri Abbas**, Haghdoost A**,** Nezhadd A, Bahaadinbeigy K. A data set for the design and implementation of the upper limb disability registry. Journal of Education and Health Promotion 2023; 12(1): 130. [link]

19. Mostowfi S, Dalvand H, Hadian Rasanani M, **Sheikhtaheri Abbas**, Rahsepar Fard K. Introducing Educational application of neurodevelopmental treatment for children with cerebral palsy. Journal of Modern Rehabilitation; 2023**.** [Link].

20. Jamshidi K, Bagherifard A, Zendehdel Z, Sharifi Kia A, **Sheikhtaheri Abbas**, Hashemi N, Nahvizadeh S, Mirzae A. Establishment of Iran musculoskeletal tumor registry: a study protocol and lessons learned from implementation and the pilot phase. Medical Journal of the Islamic Republic of Iran (MJIRI) 2023; 37 (1) [link]

21. Moulaei K, Bahaadinbeigy K Haghdoost A**,** Nezhadd A, **Sheikhtaheri Abbas**. An analysis of clinical outcomes and essential parameters for designing effective games for upper limb rehabilitation: A scoping review**.** Health Science Reports, 2023, 11;6(5):e1255 (IF=2) [link]

22. Moulaei K, **Sheikhtaheri Abbas,** Haghdoost A**,** Nezhadd A, Bahaadinbeigy K. Overview of the role of robots in upper limb disabilities rehabilitation: a scoping review. Archives of Public Health 2023, 81 (IF=3.3, Q2) [link]

23. Sharifikia A, Nahvijou A, Machine learning-based mortality prediction models for smoker Covid-19 patients. BMC Med Inform Decis Mak. 2023; 23: 129. (IF=3.5, Q1) [link]

24. Khanahmadi S, H Sourtiji, Sheikhtaheri Abbas. Effect of a sensory diet smartphone application on the symptoms of children with attention deficit hyperactivity disorder (ADHD): A feasibility study. Heliyon 2023 12;9(8):e19086(IF=4, Q1) [link]

25. Zarei J, Golpira R, Azadmanjir Z, Hashemi N, Meidani Z, Vahedi A, Bakhshandeh H, Fakharian E, **Sheikhtaheri Abbas.** Comparison of the accuracy of inpatient morbidity coding with ICD-11 and ICD-10. Health Information Management. 2023. (IF=3.2, Q1) [link]

26. Zahra Arabkermani, Roxana Sharifian, Zeinab Aryanian, Peivand Bastani, Nafiseh Esmaeli, Azadeh Bashiri, **Sheikhtaheri Abbas**. Design, Implementation, and Usability Evaluation of the Iranian Primary Vitiligo Patient Registry Journal of the Dermatology Nurses' Association 2023; 15(4): 196-205 [link]

27. **Sheikhtaheri Abbas**, Tabatabaee Jabali M, Bitaraf E, TehraniYazdi A, Kabir A, Real-time Electronic Health Record-based COVID-19 Surveillance System: An Experience from a Developing Country. Health Information Management Journal 2022; WOS/Pubmed (IF: 3.778; Q1) [Link].

28. Fahanik Babaei J, Sedighi M, Mehrabi S, Pournik O, **Sheikhtaheri Abbas, et al.** Preliminary report of Iranian Registry of Alzheimer's disease in Tehran province: A cross-sectional study in Iran. Health Science Reports 2022; 5:e952 (IF=2) [link]

29. Sabermahani F, Manafimourkani A, Bitaraf E, Seifi N, Chinichian Mahdi, Ghaemi A, Farhadi L, **Sheikhtaheri Abbas.** An easy-to-use platform for reporting COVID-19 patients by private offices and clinics without IT support: A pilot study. Studies in Health Technology and Informatics. 2022, 293:242-249. [Link].

30. Taheri Moghadam S, Hooman N, **Sheikhtaheri Abbas**. Patient safety classifications for Health Information Technology (HIT) and medical devices: A review on available systems. Studies in Health Technology and Informatics. 2022, 293:153-160. [Link]

31. **Sheikhtaheri Abbas**, Taheri Moghadam S, Challenges and facilitators of using smartphones in educational activities: medical and nursing students' perspective. Studies in Health Technology and Informatics. 2022, 293:234-241 [Link]

32. Sabermahani F, Almasi-Dooghaee M, **Sheikhtaheri Abbas**. Alzheimer's Disease and Mild Cognitive Impairment Serious Games: A Systematic Analysis in Smartphone Application Markets. Studies in Health Technology and Informatics. 2022, 293:179-186 [Link]

33. Amiri P, Moulaei K, Bahaadinbeigy K, Ghaemi M, **Sheikhtaheri Abbas**. The information-seeking behaviour of medical sciences students towards COVID-19 in the mass media: A cross-sectional study. Health Sciences Report. 2022, 235(3):e648 (IF=2) [Link].

34. Zarei J, Jamshidnezhad A, Haddadzadeh Shoushtari M, Hadianfard A, Cheraghi Maria, **Sheikhtaheri Abbas**. Machine learning models to predict in-hospital mortality among inpatients with COVID-19:

Under-estimation and over-estimation bias analysis in subgroup populations. Journal of Healthcare engineering. 2022, 1644910. WOS/ Pubmed. (IF=3.822, Q1). [Link].

35. Taheri Moghadam S, Hooman N, **Sheikhtaheri Abbas**. Patient safety classification, taxonomy and ontology systems: A systematic review on development and evaluation methodologies. Journal of biomedical Informatics 2022; 133. WOS/ Pubmed. (IF=4.5, Q1). [Link].

36. Mohammadi M, Rawassizadeh R, **Sheikhtaheri Abbas**. A patient-centered security framework for sharing patients' health information in health social networks. Journal of Information Security and Applications. 2022; 69, 103303. WOS (IF: 5.6, Q1). [Link].

37. Ahmadi M, **Sheikhtaheri Abbas**, Tahmasbi F, Eslami Jahromi M, Rangraz Jeddi F. A competency framework for Ph.D. programs in health information management. International Journal of Medical Informatics 2022;168: 104906. WOS/ Pubmed. Pubmed (IF=4.9, Q1). [Link]

38. Lazem M, Hooman N, **Sheikhtaheri Abbas**. Development and pilot implementation of Iranian hemolytic uremic syndrome registry. Orphanet Journal of Rare Diseases 2022; 17:228. WOS/Pubmed (IF=4.303, Q1). [Link].

39. Moulaei K, **Sheikhtaheri Abbas**, Shahabi M, Haghdoost A, Gheysari M, Bahaadinbeigy K. Tele-rehabilitation for Upper limb disabilities: A scoping review on applications and outcomes. Archives of Public Health 2022; 80:196. WOS/Pubmed (IF=3.3, Q2). [Link].

40. Arabkermani Z, Sheikhtaheri Abbas, Sharifian R, Bastani P, Esmaeli N, Bashiri A. Developing a minimum data set required to create a registry system for patients with vitiligo. Heliyon 2022; 8(12):e12641. WOS/Pubmed (IF=4, Q1). [Link]

41. Sabermahani F, Almasi-Dooghaee M, **Sheikhtaheri Abbas**. Development and evaluation of serious games for diagnosis and cognitive improvement of patients with mild cognitive impairment: a study protocol. Informatics in Medicine Unlocked, 2022; 32. (Q1) [Link]

42. Sheikhtaheri Abbas, Hasani N, Hosseini F. Effect of picture archiving and communication system on diagnosis accuracy in CT and radiography examinations in emergency departments. International Journal of Medical Informatics 2023;170: 104972. WOS/ Pubmed. Pubmed (IF=4.9, Q1). [Link]

43. Khorrami F, Ahmadi M, Karami NA, Alipour J, **Sheikhtaheri Abbas**. A framework for selection of health terminology systems: A prerequisite for interoperability of health information systems. Informatics in Medicine Unlocked, 2022; (Q1) [Link]

44. Lazem M, **Sheikhtaheri Abbas**. Barriers and facilitators for the implementation of health condition and outcome registry systems: a systematic literature review. Journal of the American Medical Informatics Association, 2022; 29(4), 723–734. WOS/Pubmed (IF: 7.942; Q1) [Link].

45. Salmani H, Nahvijou A, **Sheikhtaheri Abbas**. Smartphone-based application for self-management of patients with colorectal cancer: development and usability evaluation. Supportive Care in Cancer, 2022; 30, 3249–3258 WOS/Pubmed (IF=3.359, Q1) [link]

46. **Sheikhtaheri Abbas**, Sabermahani F. Applications and Outcomes of Internet of Things for Patients with Alzheimer's Disease/Dementia: A Scoping Review. BioMed research international 2022. WOS/Pubmed (IF= 3.246, Q2) [Link]

47. Lazem M, **Sheikhtaheri Abbas**. Barriers and facilitators for disease registry systems: a mixed-method study. BMC medical informatics and decision making 2022; 22 (1), 1-19. WOS/Pubmed (IF=3.298, Q1) [Link]

48. Bahaadinbeigy K, **Sheikhtaheri Abbas**, Fatehi F, Moulaei M. Development and usability evaluation of a telemedicine system for management and monitoring of patients with diabetic foot. Healthcare Informatics Research 2022; ;28(1), 77-88 Pubmed. Q1 [Link]

49. Sadoughi F, Erfannia L, El-Gazzar RF**, Sheikhtaheri Abbas**. How the health sector can overcome the challenges of migrating to the cloud? A framework based on a mix method approach. Frontiers in Health Informatics 2022,11 (1), 107 [Link].

50. Soleimani Movahed M, Khorrami F, **Sheikhtaheri Abbas**, Hasaniazad M, Gharibzadeh A, Kamali M, Alishan Karami N. Covid-19 inpatients in Southern Iran: a time series forecasting for 2020-21. Hormozgan Med J. 2022; 25(4):153-159. [Link]

51. Lazem M, **Sheikhtaheri Abbas**, Hooman N. Lessons learned from hemolytic uremic syndrome registries: recommendations for implementation Orphanet journal of rare diseases 2021; 16 (1), 1-13 WOS/Pubmed (IF=4.303, Q1) [Link]

52. NaseriBooriAbadi T, Sadoughi F, **Sheikhtaheri Abbas**. The Status of Electronic Health Literacy in people with Hearing Impairment: Content Analysis Approach. Journal of Health Literacy 2021; 6(3): 9 – 23.[Link]

53. Azad MH, Khorrami F, Jahromi MK, Karami NA, Shahi M, Dolatabadi ND. **Sheikhtaheri Abbas**. Clinical and epidemiological characteristics of hospitalized COVID-19 patients in Hormozgan, Iran: A retrospective, multicenter study. Archives of Iranian medicine 2021; 24 (5), 434-444. WOS/Pubmed (IF: 3.138, Q1) [Link].

54. Paydar K, Kermani AZ, **Sheikhtaheri Abbas**, Paydar S. Smart Home Technologies to Enhance Life Quality in Elderly People: A Review Study. Journal of Medical Library and Information Science 2021; 2, 1-8 [Link].

55. Sadeghi M, Langarizadeh M, Olang B, Seddighi H, **Sheikhtaheri Abbas**. A Survey of implementation status of child nutrition surveillance systems, registry systems and information systems: a scoping literature review protocol. BMJ paediatrics open 2021; 5 (1). Q2 [Link]

56. Samimagham H, Hassani Azad M, Arabi M, Hooshyar D, **Sheikhtaheri Abbas**, Khorrami F, Hosseini Teshnizi S, Kazemi Jahromi M. COVID-19 Severity and Comorbidities in Diabetic Patients. Disease and Diagnosis 2021; 10 (3), 91-98. [Link]

57. Jafarian H, Mohammadi M, Javaheri A, Sukarieh M, Yoosefi Nejad M, **Sheikhtaheri Abbas**, Hosseinzadeh M Momeni-Ortner E, Rawassizadeh R. West Asian and North African Social

Media Reactions towards COVID-19: A Cross-language Analysis of Twitter Data. Stud Health Technol Inform 2021; 279:26-33. WOS/Pubmed [Link].

58. Moulaei K, **Sheikhtaheri Abbas**, Ghafaripour Z, Bahaadinbeigy K. The Development and Usability Assessment of an mHealth Application to Encourage Self-Care in Pregnant Women against COVID-19. Journal of healthcare engineering 2021; 28(1), 77-88. WOS/Pubmed (IF=3.822, Q1) [Link]

59. **Sheikhtaheri Abbas,** Zarkesh MR, Moradi R, Kermani F. Prediction of neonatal deaths in NICUs: Development and validation of machine learning models. BMC Medical Informatics and Decision Making 2021 WOS/Pubmed (IF: 3.5; Q1) [Link].

60. Golpira R, Azadmanjir Z, Zarei J, Hashemi N, Meidani Z, Vahedi A, Bakhshandeh H, Fakharian E, **Sheikhtaheri Abbas.** Evaluation of the Implementation of International Classification of Diseases, 11th Revision: Rationale and Study Protocol. Informatics in Medicine Unlock; 2021 **(Q1)** [Link].

61. Sadeghi M, Langarizadeh M, As'habi A, Rahmati P, Santana-Porben S, **Abbas Sheikhtaheri.** Mobile apps for weight management in children and adolescents; an updated systematic review. Patient Education and Counseling 2021;104(9):2181-2188 WOS/Pubmed (IF: 3.467; Q1) [Link].

62. Zarei J, Dastoorpoor M, Jamshidnezhad A, Cheraghi M, **Sheikhtaheri Abbas.** Regional COVID-19 registry in Khuzestan, Iran: A study protocol and lessons learned from a pilot implementation. Informatics in Medicine Unblock. 2021;23: 100520. Pubmed. (Q1) [link]

63. Moulaei K, Malek M, **Sheikhtaheri Abbas**. A smart wearable device for monitoring and self-management of diabetic foot: A proof of concept study. International Journal of Medical Informatics; 2021 (146):104343. WOS/Pubmed (IF: 4.9, Q1). [link]

64. **Shekhtaheri Abbas**, Khorami F, Mohammadzadeh H. The essential data elements for electronic cardiovascular medical record systems in Iran. Frontiers in Health Informatics; 2021 (100): 58. [link]

65. Nilashi M, Ahmadi H, **Sheikhtaheri Abbas**, et al. Remote tracking of Parkinson's Disease progression using ensembles of Deep Belief Network and Self-Organizing Map. Expert Systems with Applications; 2020 (159): 113562. WOS (IF: 8.665, Q1). [link]

66. Aliabadi A, **Sheikhtaheri Abbas**, Ansari H. EHR-based disease surveillance systems: a systematic literature review on challenges and solutions. Journal of American Medical Informatics Association. 2020 (12):1977-1986. WOS/Pubmed (IF: 7.942, Q1). [link]

67. Kermani F, **Sheikhtaheri Abbas**, Zarkesh M, Tahmasebian S. Neonatal mortality risk factors in Neonatal Intensive Care Units (NICUs): A systematic review. Journal of Pediatric and Neonatal Individualized Medicine 2020; 9(2): 1-15. WOS/Pubmed. [Link]

68. Kermani F, Orooji A, **Sheikhtaheri Abbas**. Teleoncology for children with cancer: A scoping review on applications and outcomes. International Journal of Medical Informatics; 2020 (139): 104118. WOS/Pubmed (IF: 4.73, Q1). [link]

69. Hamedan F, Orooji A, Sanadgol H, **Sheikhtaheri Abbas**. Clinical decision support system to predict chronic kidney disease: a fuzzy expert system approach. International Journal of Medical Informatics; 2020 (138): 104134. WOS/Pubmed (IF: 4.73, Q1). [link]

70. Khorrami F, Shahi M, DavariDolatabadi N, Alishan Karami N, HasaniAzad M, Jafariyan F, **Sheikhtaheri Abbas.** Implementation of regional COVID-19 registry in Hormozgan (RCovidRH), Iran: Rationale and study protocol. Medical Journal of the Islamic Republic of Iran; 2020;34.96. Pubmed [Link]

71. **Sheikhtaheri Abbas**, Nahvijou A, Mashoof E. Information needs of women with breast cancer: a review of the literature. Frontiers in Health Informatics; 2020; 9(1): e30. [link]

72. Hashemi N, MalekzadehS, Hashemi N, **Sheikhtaheri Abbas**. Nurses' Viewpoints on barriers and facilitators to use hospital information system. Stud Health Technol Inform, 2020; 271:161-167. WOS/Pubmed. [Link]

73. **Sheikhtaheri Abbas**, Malekzadeh S, Hashemi N, Hashemi N. Effects of using hospital information systems on nurses' individual performance: A study on influential factors. Stud Health Technol Inform 2020; 271:145-152. WOS/Pubmed. [Link]

74. Sabbaghi H, Ahmadieh H, Daftarian N, Suri F, Saviz P, Khorrami F, Madani S, **Sheikhtaheri Abbas,** et al. The first inherited retinal disease registry in Iran: research protocol and results of a pilot study. Archives of Iranian Medicine; 2020;23(7):445-454. WOS/Pubmed (IF: 3.138, Q1) [Link]

75. Hasani N, Hosseini F, **Sheikhtaheri Abbas**. Effects of implementation of picture archiving and communication system on radiologist reporting time and utilization of radiology service: A case study in Iran. Journal of Digital Imaging; 2020 (33):595–601. WOS/Pubmed (IF: 4.903; Q1) [Link]

76. NaseriBooriAbadi T**, Sheikhtaheri Abbas**. Information privacy and pervasive health: frameworks at a glance. Journal of Biomedical Physics and Engineering. 2020 10(5):553-558. Pubmed. [link]

77. Moulaei K, Malek M, **Sheikhtaheri Abbas**. Monitoring of external predisposing factors for Diabetic Foot: A literature review and physicians' perspectives. Medical Journal of the Islamic Republic of Iran. 2019;33.159. Pubmed. [Link]

78. **Sheikhtaheri Abbas**, Orooji A, Pazouki A, Beitollahi M. A clinical decision support system for predicting the early complications of One Anastomosis Gastric Bypass Surgery. Obesity Surgery; 2019; 29(7): 2276–2286. WOS/Pubmed (IF: 3.479, Q1). [link]

79. Hashemi N, **Sheikhtaheri Abbas**, Hashemi Ns, Rawassizadeh R. Electronic medical records for mental disorders: what data elements should these systems contain? Stud Health Technol Inform, 2019, 260:25-32. ISI/Pubmed. [Link]

80. **Sheikhtaheri Abbas**, Hashemi N, Hashemi Ns. Performance of hospitals in protecting the confidentiality and information security of patients in health information departments. Stud Health Technol Inform, 2019, 260:202-209. ISI/Pubmed. [Link]

81. Malekzadeh S, Hashemi N, **Sheikhtaheri Abbas**, Hashemi N. Barriers for implementation and use of health information systems from the physicians' perspectives. Stud Health Technol Inform 251, 2018, 289-292. ISI/Pubmed. [link]

82. **Sheikhtaheri Abbas,** Nahvijou A, Sedighi Z, Hadji M, Golmahi M, Roshandel G, Beiki O, Ravankhah Z, Zendehdel K. Development of a tool for comprehensive evaluation of population-based cancer registries. International Journal of Medical Informatics. 2018, 117, 26-32. WOS/Pubmed (IF: 4.73, Q1) [link]

83. Khorrami F, Ahmadi M, **Sheikhtaheri Abbas**. Standardization of health terminology systems and the role of responsible organizations Iranian Journal of Public Health, 2018, 47(10): 1613-1614 WOS/Pubmed (IF: 1.479) [link]

84. Ahmadi H, Shahmoradi L, Sadoughi F, Bashiri A, Nilashi M, **Sheikhtaheri Abbas**, Samad S, Ibrahim O. A narrative literature review on the impact of organizational context perspective on innovative health technology adoption. Journal of Soft Computing and Decision Support Systems. 2018, 5(4): 1-12. [link]

85. **Sheikhtaheri Abbas**, Nahvijou A, Mashoof E .Evaluation of the information needs of breast cancer patients in the internet. Basic & Clinical Cancer Research, 2018, 201, 3-10. [link]

86. **Sheikhtaheri Abbas**, Hashemi N, Hashemi NA .Benefits of using mobile technologies in education from the viewpoints of medical and nursing students. Stud Health Technol Inform, 2018, 251, 289-292. ISI/Pubmed. [link]

87. Khorrami F, Ahmadi M, **Sheikhtaheri Abbas**. Evaluation of SNOMED CT content coverage: a systematic literature review. Stud Health Technol Inform, 2018, 248.212-219. ISI/Pubmed. [link]

88. **Sheikhtaheri Abbas**, Kermani F**.** Telemedicine in diagnosis, treatment and management of diseases in children Stud Health Technol Inform, 2018, 248.148-155. ISI/Pubmed. [link]

89. Langarizadeh M, Orooji A, **Sheikhtaheri Abbas**. Effectiveness of anonymization methods in preserving patients' privacy: A systematic literature review. Stud Health Technol Inform, 2018, 248. 80-87. ISI/Pubmed. [link]

90. **Sheikhtaheri Abbas**, saravani- S aval. Nurses' attitude for using Barcode Medication Administration System in a developing country. Stud Health Technol Inform, 2018, 248. 220-225. ISI/Pubmed. [link]

91. **Sheikhtaheri Abbas**, Kermani F. Use of Mobile Apps among medical and nursing students in Iran. Stud Health Technol Inform. 2018, 248. 33-39. ISI/Pubmed. [link]

92. **Sheikhtaheri Abbas**, Saravani-Aval S, Farzi J, Bagheri S, Kayvanloo F, Bayat M. A feasibility study on the implementation of teleconsultation in tuberculosis patients in Zabol City of Iran. Stud Health Technol Inform. 2018, 247. 501-505. ISI/Pubmed. [link]

93. Erfannia L, Sadoughi F, **Sheikhtaheri Abbas**. The advantages of implementing cloud computing in the health industry of Iran: a qualitative study. IJCSNS International Journal of Computer Science and Network Security. 2018, 18 (1). 198-206. ISI. [link]

94. **Sheiktaheri Abbas**, Aliabadi A, Saravani Aval S. The Quality of health records used in the processing of Lawsuit Cases, a Study in Zabol, Iran. International Journal of Ayurvedic Medicine. 2018, 9(2): 79-82. ISI. [link]

95. **Sheikhtaheri Abbas**, Sadeqi M, Hashemi M. Physicians' perspectives on causes of health care errors and preventive strategies: A study in a developing country. Iranian Journal of Public Health 2018; 47(5): 720-728 ISI/ Pubmed (IF: 1.479) [link]

96. Naseri T, Sadoughi F, **Sheikhtaheri Abbas**. Improving cancer literacy for the deaf using deaf-tailored educational interventions: a review of the literature. Journal of Cancer Education, 2018. ISI (IF: 2.037, Q2) [link]

97. Kimiafar K, **Sheikhtaheri Abbas**, Sarbaz M, Hoseini M. Assessing the educational needs of health information management staff of the Mashhad University of Medical Sciences. Iran Stud Health Technol Inform. 2017, 104-109. ISI/ Pubmed. [link]

98. Ahmadi M, Mehrabi N, **Sheikhtaheri Abbas**, Sadegh M. Acceptability of picture archiving and communication system (PACS) among hospital healthcare personnel based on a unified theory of acceptance and use of technology. Electronic Physician. 2017. 9(9): 5325. Pubmed. [link]

99. Paydar K, Niakan S, Akbarian M, **Sheikhtaheri Abbas**. A clinical decision support system for prediction of pregnancy outcome in pregnant women with systemic lupus erythematosus. International Journal of Medical Informatics. 2017, 97, 239-46. ISI/ Pubmed (IF:4.73, Q1). [link]

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106. Falahati Marvast F, Arabalibeik H, Alipour F, **Sheikhtaheri Abbas**, Nouri L, Soozande M, Yarmahmoodi M. Evaluation of RGP contact lens fitting in keratoconus patients using hierarchical fuzzy model and genetic algorithms. Stud Health Technol Inform 2016, 220, 124-129. ISI/ Pubmed. [link]

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1. Eslami Jahromi M, **Sheikhtaheri Abbas**, Tahmasbi F, Ahmadi M, Rangraz Jeddi F. Evaluation of PhD Curriculum in Health Information Management: A Need for Revision. Modern Medical Information Sciences 2023; 8 (4) :362-373 .[link]

2. Alavi Amlashi S R, Kazemnejad Leyli E, Sheikhtaheri A. Physicians' and pharmacists' viewpoint on ambulatory electronic prescription system. Journal of Health Administration 2022; 25 (3) :108-124 [Link]

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4. **Sheikhtaheri Abbas**, S Khanahmadi, H Sourtiji. A mobile-based sensory diet application to educate parents of children with attention deficit/hyperactivity disorder. Journal of Health Administration 2022; 24 (4), 11-22 [Link]

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6. **Sheikhtaheri Abbas**, Salmani H, Nahvijou A. Requirements of self-management applications for patients with colorectal cancer Journal of health administration 2021; 24 (1), 84-97 [Link]

7. **Sheikhtaheri Abbas**, Rafati Fard Y, Eghbali A. Mobile-based self-care educational needs assessment for parents of children with acute Lymphoblastic Leukemia. Journal of Modern Medical Information Sciences. 2020; 6(3):16-24. [link]

8. Mohammadi M, **Sheikhtaheri Abbas,** Kermani F. Comparison of patient-centric algorithms for health information security in health social networks and cloud environments. Journal of Modern Medical Information Sciences. 2020; 5(2):68- 79. [Link]

9. **Sheikhtaheri Abbas**, Nouruzi E, Sadoughi F. Developing a mobile based self care application for patients with breast cancer undergoing chemotherapy. Journal of Health Administration, 2019; 22(4):35-49. [Link]

10. Ahmadi H, Mahdian Z, **Sheikhtaheri Abbas**. The effect of sending short text messages as reminders on medication adherence in patients with chronic hyperlipidemia. Journal of Health Administration, 2019; 22(4):12-21. [Link]

11. **Sheikhtaheri Abbas**, Hasani N, Hosseini F. Users' satisfaction with imaging services before and after the implementation of picture archiving and communication system. J Health Administration, 2019; 2(3): 28-39. [link]

12. Ahmadi H, Mahbubeh R, **Sheikhtaheri Abbas.** Developing an information management dashboard for oncology wards. J Health Administration, 2019; 22(2): 67-85.[link]

13. **Sheikhtaheri Abbas,** Zarkesh M, Kermani F. Telemedicine application in diagnosing and managing heart diseases in neonates and children: A systematized review**.** Journal of Modern Medical Information Sciences. 2019; 5 (1):21-32. [link]

14. Ghazisaeedi M, **Sheikhtaheri Abbas**, Behniafard N, Aghaei Meybodi F, Khara R, Kargar Bideh M. A Proposed model to identify factors affecting Asthma using Data Mining. Scientific Journal of Ilam University of Medical Sciences 2019; 27(1): 203-212. [Link]

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33. **Sheikhtaheri Abbas.** Application of computers in coding health information. Iranian Journal of Health Information Management Association. 2008; 6(2): 25-34. [link]

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Research projects and grants

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2. **Sheikhtaheri Abbas**. Deimazar G. Developing an intelligent screening system for Age-Related Macular Degeneration. Granted by Iran University of Medical Sciences. Current.

3. **Sheikhtaheri Abbas**. Bitaraf Ehsan. Design, and evaluation of intelligent and automated system for mapping clinical laboratory data to LOINC codes. Granted by Iran University of Medical Sciences. Current.

4. **Sheikhtaheri Abbas**. Application and results of machine learning for patient safety data available on social networks A scoping review. Granted by Iran University of Medical Sciences. Completed.

5. **Sheikhtaheri Abbas**, Bitaraf E. Design, implementation and evaluation of data collection platform for patients suspected of Covid-19 registered in private clinics under the auspices of Iran University of Medical Science. Granted by Iran University of Medical Sciences. Completed.

6. **Sheikhtaheri Abbas**, Kermai F. A systematic review on Case Base Reasoning (CBR) application in healthcare. Granted by Iran University of Medical Sciences. Completed.

7. **Sheikhtaheri Abbas**, Deimazer. A scoping review on application and results of fog and edge computing in telemedicine. Granted by Iran University of Medical Sciences. Current.

8. **Sheikhtaheri Abbas.** Development of nurses' acceptance model for patient safety reporting systems using Unified Theory of Acceptance and Use of Technology (UTAUT). Granted by Iran University of Medical Sciences. Completed.

9. **Sheikhtaheri Abbas**, Orooji A. Artificial intelligence applications in tele medicine: A scoping review. Granted by Iran University of Medical Sciences. Completed.

10. **Sheikhtaheri Abbas**, Paydar S. Developing and evaluating a web-based system for tele-consultation and tele-prescription of traditional medicine. Granted by Iran University of Medical Sciences. Completed.

11. **Sheikhtaheri Abbas**, Paydar S. Predicting pregnancy outcomes in women with systematic lupus erythematosus before pregnancy using machine-learning algorithms. Granted by Iran University of Medical Sciences. Completed.

12. **Sheikhtaheri Abbas**, Deimazer. Application of machine-learning algorithms for analyzing patient safety data. Granted by Iran Ministry of Health, 2019. Completed.

13. **Sheikhtaheri Abbas,** Golpira R, Zarei J, Hashemi N, Meidani Z, Azad Z. Pilot implementation of ICD-11 in Iranian hospitals, Granted by Iran Ministry of Health, 2019. Completed.

14. **Sheikhtaheri Abbas,** Kabir A, Bitaraf E, Tehran A. Implementation of online COVID-19 surveillance system in Iran University of Medical Sciences. Granted by Iran University of Medical Sciences. Completed.

15. **Sheikhtaheri Abbas**, Saber Mahani. Application and outcomes of using Internet of Things for patients with dementia and Alzheimer: A systematic review. Granted by Iran University of Medical Sciences. Completed.

16. **Sheikhtaheri Abbas**, Zendehdel K, Nahvijou A, et al. Developing e-learning program for cancer registry. Granted by Iran ministry of health. 2018, Completed.

17. **Sheikhtaheri Abbas,** Lazem M. Barriers and facilitators of implementing disease registry programs: A systematic review. Granted by Iran University of Medical Sciences, Completed.

18. **Sheikhtaheri Abbas,** Lazem M. Identifying and prioritizing barriers and facilitators of implementing disease registry programs. Granted by Iran University of Medical Sciences, Completed.

19. **Langarizadeh M, Sadeghi M, Sheikhtaheri Abbas.** Mobile phone applications and children obesity: A systematic review. Granted by Iran University of Medical Sciences, Completed.

20. **Sheikhtaheri Abbas,** Kermani F. A systematized review on telemedicine applications in the diagnosis and care management of congenital heart disease in neonates and children. Granted by Iran University of Medical Sciences, 2018. Completed.

21. **Sheikhtaheri Abbas, Molaie K.** Developing a smart wearable device for monitoring and self-care of the diabetic foot. Granted by Iran University of Medical Sciences, 2018. Completed.

22. **Sheikhtaheri Abbas,** Saravani S. Determining the influential factors of nurses' intention to use of barcoded medication administration technology. Granted by Iran University of Medical Sciences, 2018. Completed.

23. **Sheikhtaheri Abbas,** Dehnad A, Salmani H, Seifi Z. A survey on students view about using learning management system in Iran University of medical sciences. Granted by Iran University of Medical Sciences, 2018. Completed.

24. **Sheikhtaheri Abbas,** Nahvijou A, Mashoof E. Providing a Portal Model for Women with Breast Cancer in Iran. Granted by Cancer Research Center, Tehran University of Medical Sciences, 2018. Completed

25. Sadoughi F, NaseriBooriAbadi T, **Sheikhtaheri Abbas**. Developing a framework for protecting health information privacy. Granted by Iran University of Medical Sciences, 2017. Completed.

26. Ahmadi M, Mehrabi N, **Sheikhtaheri Abbas**, Sadeghi M. Acceptance of picture archiving and communication system (PACS) among hospital healthcare personnel based on a unified theory of acceptance and use of technology. Granted by Iran University of Medical Sciences, 2017. Completed.

27. **Sheikhtaheri Abbas**. Application of mobile phone among nursing and medical students and their perspective about barriers and facilitators. Granted by Tehran University of Medical Sciences, 2017. Completed.

28. **Sheikhtaheri Abbas**. Qazizade Z**.** An Evaluation of the statistical information system of universities of medical sciences in Iran. Granted by Iran University of Medical Sciences, 2016. Completed.

29. **Sheikhtaheri Abbas**, Zendehdel K, Nahvijou A, et al. Developing a national model and guidelines for population based cancer registry. Granted by Cancer Research Center, Tehran University of Medical Sciences, 2014. Completed.

30. Zendehdel K, **Sheikhtaheri Abbas**, Nahvijou A, et al. Comprehensive evaluation of population based cancer registry in Iran. Granted by World Health Organization (Iran Office), 2013. Completed.

31. Sadoughi F, Davari N, **Sheikhtaheri Abbas**, Shahi M, A model for organizational position of health information management and technology for Iran. Granted by Iran University of Medical Sciences, 2013. Completed.

32. Sadoughi F, Ahmadi M, **Sheikhtaheri Abbas**. A model for patient safety information system for Iranian hospitals. Granted by Tehran University of Medical Sciences, 2013. Completed.

33. Sadoughi F, **Sheikhtaheri Abbas**. Kimiafar, A. Knowledge of physicians in Tehran about legal aspects of health information. Granted by Tehran University of Medical Sciences, 2013. Completed.

34. **Sheikhtaheri Abbas**, Farzandipour M. Quality of informed consent process in in-patients undergoing surgery in teaching hospitals in Kashan. Granted by Kashan University of Medical Sciences, 2007. Completed.

35. Farzandipour M, **Sheikhtaheri Abbas**. Accuracy of clinical coding and evaluation of related factors in teaching hospitals in Kashan. Granted by Kashan University of Medical Sciences, 2007. Completed.

Presentation in conferences (International and national)

1. Sabermahani F, Manafimourkani A, Bitaraf E, Seifi N, Chinichian Mahdi, Ghaemi A, Farhadi L, **Sheikhtaheri Abbas.** An easy-to-use platform for reporting COVID-19 patients by private offices and

clinics without IT support: A pilot study. Accepted as Poster presentation at dHealth 2022, Vienna, Austria.

2. Taheri Moghadam S, Hooman N, **Sheikhtaheri Abbas**. Patient safety classifications for Health Information Technology (HIT) and medical devices: A review on available systems. Accepted as Oral presentation at dHealth 2022, Vienna, Austria.

3. **Sheikhtaheri Abbas**, Taheri Moghadam S, Challenges and facilitators of using smartphones in educational activities: medical and nursing students' perspective. Accepted as Poster presentation at dHealth 2022, Vienna, Austria.

4. Sabermahani F, Almasi-Dooghaee M, **Sheikhtaheri Abbas**. Alzheimer's disease and mild cognitive impairment serious games: a systematic analysis in smartphone application markets. Accepted as Oral presentation at dHealth 2022, Vienna, Austria.

5. Jafarian H, Mohammadi M, Javaheri A, Sukarieh M, Yoosefi Nejad M, **Sheikhtaheri Abbas**, Hosseinzadeh M, Momeni-Ortner E, Rawassizadeh R. West Asian and North African Social Media Reactions towards COVID-19: A Cross-language Analysis of Twitter Data. dHealth 2021, Vienna, Austria.

6. Sabbaghi H, Madani S,Daftarian N, Suri F, **Abbas Sheikhtaheri**, Saviz P, Khorrami F, Ahmadieh H. A Proposed novel ontology for Inherited Retinal Dystrophies. AMIA 2019 Annual Symposium. Accepted for poster presentation.

7. Ahmadi H, Sadoughi F, Gholamhosseini L, Azadi T, **Sheikhtaheri Abbas**, Nilashi MH, Dehnad A. Organizational factors affecting the adoption of a technological innovation: a study of the hospital information system (HIS). International Conference on Web Research. 2019, Tehran, Iran.

8. **Sheikhtaheri Abbas**, Safdari R, Ehtesham H. Drawing a screenshot from medical informatics research in chronic disease registries: a content analysis on the major medical informatics conferences. 2nd International Congress of Disease Registries. 2018, Tehran, Iran

9. Safari A, **Sheikhtaheri Abbas**, Hasani Z. Smartphone applications for Iranian users with hypertension. Mobile health conference, 2018, Shiraz, Iran.

10. **Sheikhtaheri A**, Kermani F. Ethical Issues in nursing informatics. 2017, 1st National Medical Informatics Congress, Mashhad, Iran.

11. Khedri K, Ghazi M, **Sheikhtaheri Abbas**, Javadi Z. Relationship between social economic status in burn patients, 2017, 1st National Medical Informatics Congress, Mashhad, Iran.

12. Valizadeh R, **Sheikhtaheri Abbas**, Ghazisaeedi M, Samadbeik M, Promote community health level through the use of the national health portal. 2017, 3rd international and 8th national congress on health education and promotion, Isfahan, Iran.

13. Zendehdel K, Nahvijou A, **Sheikhtaheri Abbas .** et al. Initiative for semi-automated population-based cancer registry in Iran. 2016, Global cancer, Lyon, France.

14. **Sheikhtaheri Abbas**, Sarbaz M, Kimiafar K, Ghayour M, Rahmani S. Awareness, attitude and readiness of clinical staff towards telemedicine: A study in Mashhad, Iran. 2016, Health—exploring complexity: an interdisciplinary systems approach HEC2016. Germany.

15. Kimiafar K, Sobhani Rad D, Sarbaz M, **Sheikhtaheri Abbas.** Designing an assessment form for speech language pathology: toward standards for speech therapy documentation. 2016, Health—exploring complexity: an interdisciplinary systems approach HEC2016. Germany.

16. Sarbaz M, Kimiafar K, **Sheikhtaheri Abbas.** Comparing the quality of documenting discharge summaries in paper-based and electronic systems. 2016, Health—exploring complexity: an interdisciplinary systems approach HEC2016. Germany.

17. Sarbaz M, Kimiafar K, **Sheikhtaheri Abbas**, Taherzadeh Z, Eslami S. Nurses' information seeking behavior for clinical practice: a case study in a developing country.2016, Nursing informatics congress 13[th.] Geneva, Switzerland.

18. Falahati Marvast F, Arabalibeik H, Alipour F, **Sheikhtaheri Abbas**, Nouri L, Soozande M, Yarmahmoodi M. Evaluation of RGP contact lens fitting in keratoconus patients using hierarchical fuzzy model and genetic algorithms. 2016, Medicine Meets Virtual Reality 22: NextMed/MMVR22, USA.

19. Langraizadeh M, Moghbeli F, **Sheikhtaheri Abbas**. Ethics in telemedicine: A review of literature. 5th conference of promotion of health Information management. 2016,Tabriz, Iran.

20. Langraizadeh M, Moghbeli F, **Sheikhtaheri Abbas**. Application of telemedicine in Parkinson rehabilitation: A review of literature. 5th conference of promotion of health Information management. 2016,Tabriz, Iran.

21. Valizadeh R, **Sheikhtaheri Abbas**, Ghazisaeedi M, Samadbeik M, Developing requirements of a national health portal based on the developed countries' experience. 5th conference of promotion of health Information management. 2016, Tabriz, Iran.

22. Safari A, Ghazisaidi M, **Sheikhtaheri Abbas**, Dalvand, H. A mobile health application for drug reminder for cerebral palsy children with seizure. International congress of pediatrics neurology and nursing, 2015, Bandar Abbas, Iran.

23. Safari A, **Sheikhtaheri Abbas,** Hasani Z. Mobile phone application in breast cancer: review of literature. Shiraz International mobile heath seminar, 2015, Shiraz, Iran.

24. Hasani Z, **Sheikhtaheri Abbas.** Safari A, Mobile phone application in Iran: review of available applications in Iranian Android market. Shiraz International mobile heath seminar, 2015, Shiraz, Iran.

25. Shahmoradi L, **Sheikhtaheri Abbas**, Ghazisaidi M, Habibi M, Salari. Ethical and legal aspects of teleradiology practice. 6th Iranian Imaging Informatics Congress, 2015, Tehran, Iran.

26. **Sheikhtaheri Abbas**, Kermani F. Application of mobile health in educating pregnant women: A review of literature. 6th congress of e-learning, 2015, Tehran, Iran.

27. **Sheikhtaheri Abbas.** Application of mobile education among nursing students: preliminary results of a study. 6th congress of e-learning, 2015, Tehran, Iran.

28. **Sheikhtaheri Abbas**, Zendehdel K, Nahvijou A, Sedighi Z, Hadji M. Developing standards tool and evaluation of population based cancer registry In Iran. 2014, World cancer Congress, Melbourne, Australia

29. Sarbaz M, Kimiafar K, **Sheikhtaheri Abbas**, Eslami S. Information media in treatment of cancer according to evidence based medicine model. Conference on Cancer Control. 2013, Tehran, Iran.

30. **Sheikhtaheri Abbas**, Zendedel K, Nahvijou A. Evaluation of Iranian cancer registry programs. Conference on Cancer Control. 2013, Tehran, Iran.

31. Kimiafar K, Sarbaz M, **Sheikhtaheri Abbas**. Students' perspectives on using online surveys in developing lesson plans and their participation. Conference on students' participation in education. 2013, Mashhad, Iran.

32. Farzandipour M, Sadeqi Jabali M, **Sheikhtaheri Abbas**. Quality of information provided to patients who refused treatment. Challenges and Opportunities of Charter of Patient Rights. 2011, Yasuj, Iran.

33. **Sheikhtaheri Abbas**. Application of expert systems in clinical decisions. Health Management Congress, 2008, Tehran, Iran.

34. Ruzbahani F, **Sheikhtaheri Abbas**. Five steps for implementing EHR. International Seminar of telemedicine and e-Health, 2006. Tehran, Iran.

Industrial collaborations

1. Updating and developing disease classification system for cardiovascular diseases, based on ICD10. In collaboration with a heart hospital, Tehran, Iran.

2. Pilot implementation of ICD11 in Iranian hospitals, Iran Ministry of Health and WHO, 2019. Completed.

3. Consultation and cooperation with a software company for developing disease registry software. Completed.

4. Developing a mobile-based EHR for homecare visits, Iranian Health Network Company, a start-up company in Tehran, Iran, 2018.

5. **Sheikhtaheri Abbas**, Zendehdel K, Nahvijou A, et al. Developing e-learning program for cancer registry. Granted by Iran ministry of health. 2018.

6. **Sheikhtaheri Abbas**, Zendehdel K, Nahvijou A, et al. Developing a national model and guidelines for population based cancer registry. Granted by Cancer Research Center, Tehran University of Medical Sciences, 2014. Completed.

7. Zendehdel K, **Sheikhtaheri Abbas**, Nahvijou A, et al. Comprehensive evaluation of population based cancer registry in Iran. Granted by World Health Organization (Iran Office), 2013. Completed

8. Development of a population-based cancer registry, Iranian Oil Industry, 2013-2014.

Student supervision

I have been supervisor or co-supervisor of more than 40 PhD and Master students in the field of health information technology, health information management and medical informatics. The main focus of my students' projects has been on mobile health, data mining/machine learning, clinical decision support systems and disease registry programs.

Professional experiences

- Developing a mobile-based EHR for homecare visits, Iranian Health Network Company, a start-up company in Tehran, Iran, 2018.
- Scientific consultant of national population-based cancer registry, Iran Ministry of Health, 2014-2016.
- Scientific consultant of population-based cancer registry, Iranian Oil Industry, 2013-2014.
- Researcher, Cancer Research Center, Tehran University of Medical Sciences, 2012-2013.
- Consultant of Tehran cancer registry, Consultant for clinical coding consultant and development of electronic pathology systems. Cancer Research Center, Tehran University of Medical Sciences, 2003-2007.
- Clinical coder and auditor, Cancer Research Center, Tehran University of Medical Sciences, 2003-2007.
- Cancer registrar, Cancer Research Center, Tehran University of Medical Sciences, 2003-2007.
- Health information technician, Akhtar Hospital, 2002-2003.
- Health information technician, Tajrish Hospital, 2001-2002.

Executive experiences

- Manager of the secretariat of disease registry and health outcome programs, Iran University of Medical Sciences, 2016-Now
- Director of coordinating office of research centers, Iran University of Medical Sciences, 2018-Now

Disease registry executive experiences

- Manager of the secretariat of disease registry and health outcome programs, Iran University of Medical Sciences, 2016-Now
- Member of steering committee, ALS registry, Iran University of Medical Sciences, 2022-Now.
- Member of steering committee, Hemolotic Uremic Syndrom (HUS) registry, Iran University of Medical Sciences, 2022-Now.
- Member of steering committee, Regional Covid-19 registry, Hormozgan University of Medical Sciences, 2020-Now.

- Member of steering committee, Regional Covid-19 registry, Ahvaz University of Medical Sciences, 2020-Now.
- Member of steering committee, suicide and attempted suicide registry, Iran University of Medical Sciences, 2019-Now.
- Member of steering committee, fall in elderly registry, Iran University of Medical Sciences, 2019-Now.
- Member of steering committee, national eye tumor registry, Iran University of Medical Sciences, 2019-Now.
- Member of steering committee, hospital-based musculoskeletal tumor registry, Iran University of Medical Sciences, 2019-Now.
- Member of steering committee, regional autism spectrum disorder registry, Iran University of Medical Sciences, 2018-Now.
- Member of steering committee, regional Alzheimer registry, Iran University of Medical Sciences, 2018-Now.
- Consultant, national retinal dystrophy registry, Shahid Beheshti University of Medical Sciences, 2018-Now.
- Member of steering committee, national population-based cancer registry, Iran Ministry of Health, 2014-2016.
- Scientific consultant of national population-based cancer registry, Iran Ministry of Health, 2014-2016.
- Scientific consultant of population-based cancer registry, Iranian Oil Industry, 2013-2014.

Committee members
- National ICD11 pilot implementation committee, Iran Ministry of Health, Completed
- Research committee, School of Health management and Information Sciences, Iran University of Medical Sciences, 2016-Now.
- Member of the e-learning committee, Iran University of Medical Sciences, 2017-Now.
- Curriculum development committee, Iran University of Medical Sciences, 2017-2018.
- Scientific committee member of different national conferences in health information management, and health information technology

Workshop teaching
- Disease and health outcome registry, Iran University of Medical Sciences, Iran, 2021.
- Disease and health outcome registry, Isfahan University of Medical Sciences, Iran, 2021.
- Disease and health outcome registry, Iranshaher University of Medical Sciences, Iran, 2021.
- Disease and health outcome registry, Iran University of Medical Sciences, Iran, 2020.
- Disease and health outcome registry, Abadan University of Medical Sciences, Iran, 2019.

- Disease and health outcome registry, Iran University of Medical Sciences, Tehran, Iran, 2019.

- Disease and health outcome registry, Hormozgan University of Medical Sciences, Iran, 2018.

- Health information management and systems for hospital managers, different cities in Iran (Tehran, Kermanshah, Kerman, Tabriz, Sari), Iran ministry of health, 2017-2018.

- Disease and health outcome registry, Kashan University of Medical Sciences, Iran, 2018.

- Cancer Coding based on ICDO-3, Cancer Research Center, Tehran University of Medical Sciences, Tehran, Iran, 2018.

- Data Mining, Iran University of Medical Sciences, Tehran, Iran, 2018.

- Writing research proposals, Iran University of Medical Sciences, Tehran, Iran, 2018.

- Disease and health outcome registry, Mashahad University of Medical Sciences, Iran, 2018.

- Writing research proposals, Iran University of Medical Sciences, Tehran, Iran, 2017.

- Disease and health outcome registry, Iran ministry of health, Tehran, Iran, 2016.

- Cancer registry, Iran ministry of health, Tehran, Iran, 2016.

- Cancer registry, Iran ministry of health with collaboration of WHO, Tehran, Iran, 2015.

- Application of IT in nursing documentation, Iran University of Medical Sciences, Tehran, Iran, 2015.

- Cancer registry, Iran ministry of health, Tehran, Iran, 2014.

- Writing research proposals, Iran University of Medical Sciences, Tehran, Iran, 2013.

Workshop and course participation and certification

- Machine learning with Python, 2022.

- Machine learning with Python and R, 2021.

- Ethical Leadership, University of St. Scolastica, 2019.

- Leading Effective Project Teams, University of St. Scolastica, 2019.

- Machine learning and data mining, Iran University of Medical Sciences, Tehran, Iran, 2018.

- Clustering, Iran University of Medical Sciences, Tehran, Iran, 2018.

- Frequent mining and sequence mining, Iran University of Medical Sciences, Tehran, Iran, 2018.

- Systematic Review, Iran University of Medical Sciences, Tehran, Iran, 2018.

- Principles of Project Management, University of St. Scolastica, 2018.

- M-health evaluation, Iran ministry of health, Tehran, Iran, 2018.

- Adult learning, Iran ministry of health, Tehran, Iran, 2018.

- Knowledge management, Iran University of Medical Sciences, Tehran, Iran, 2018.

- Smart PLS, Iran University of Medical Sciences, Tehran, Iran, 2018.

- Master Certificate in Healthcare Data Analytics, Johns Hopkins University, 2017.

- Master Certificate in Population Health, Johns Hopkins University, 2017.

- Clinical Data Analytics and the Learning Health System, Johns Hopkins University, 2017.

- Population Health Data Analytics, Johns Hopkins University, 2017.

- Population Health Policy, Johns Hopkins University, 2017.

- Population Health Interventions, Johns Hopkins University, 2017.

- Understanding Healthcare Data Analytics, Johns Hopkins University, 2017.

- Population Health and the Application of Health IT, Johns Hopkins University, 2017.

- Understanding Healthcare Data Analytic, Johns Hopkins University, 2017.

- Innovation and IT Management, Indian Institute of Management Bangalore, 2015.

- Implementation and Evaluation of Educational Technology, Massachusetts Institute of Technology, 2015.

- eHealth - Opportunities and Challenges, Karolinska Institutet, 2015.

- Process Mining: Data science in Action, EINDHOVEN University of technology, 2015.

- Medicine in the Digital Age, Rice University, 2015.

- Economic and Business research method and business plan, Tehran University of Medical Sciences, Tehran, Iran, 2015.

- Qualitative research, Iran University of Medical Sciences, Tehran, Iran, 2015.

- Phenomenology, Iran University of Medical Sciences, Tehran, Iran, 2015.

- Grounded theory, Iran University of Medical Sciences, Tehran, Iran, 2015.

- AMOS, Kowsar Medical Institute, Tehran, Iran, 2015.

- MAXQDA, Iran University of Medical Sciences, Tehran, Iran, 2014.

- Technology commercialization, Iranian Association of Technology Management, Tehran, Iran, 2014.

- Arc GIS, Tehran, Iran, 2013.

- Short term course of medical education, Tehran University of Medical Sciences, Tehran, Iran, 2013.

- Systematic review, Tehran University of Medical Sciences, Tehran, Iran, 2012.

Awards

1. The best teacher in the field of research on education, 2019, Awarded by Iran University of Medical sciences.

2. Kimiafar K, Sarbaz M, **Sheikhtaheri Abbas**, et al. Application of online survey in evaluation and effectiveness of medical education: Case study on lesson plan improvement. Selected as the best innovative process in Motahari Festival (A national festival for selecting best innovative processes in medical education). Mashhad University of Medical Science, 2017.

3. Kimiafar K, Sarbaz M, **Sheikhtaheri Abbas**. Application of online survey in evaluation of students' perspectives on lesson plans to improve the education plans. Selected as one of the 10 best innovative

electronic processes, 8th conferences of e-learning in medical education, Iran University of Medical Science, 2016.

4. Selected as the best innovative process in Motahari Festival (A national festival for selecting best innovative processes in medical education). Mashhad University of Medical Science, 2017.

5. The best PhD student in the country, 2012. Awarded by the President of I.R of Iran.

6. The best published book in the field of health information technology, 2012. Awarded by the Isfahan University of Medical Sciences, Iran.

7. The best student researcher, 2010, Awarded by Iran University of Medical Sciences, Iran.

8. The second ranked student in the national entrance exam for PhD. 2008. Ministry of Health and Medical Education.

9. The best MSc student, 2007. Awarded by Shahid Beheshti University of Medical Sciences, Iran.

10. The first ranked student in the national entrance exam for MSc. 2004. Ministry of Health and Medical Education.

Skills

- Disease registry
- Data mining/ machine learning
- Clementine (Data Miner)
- SmartPLS
- Weka
- Data analytics
- Systematic review
- Prom (Prom lite), process mining software
- AMOS
- DHIS2 (open source software for health data management)
- Diseases classification systems (ICD-11, ICD-10, ICD-O. etc.)