

Personal Resume

Personal Information

First and Last Name: Karim Ghazikhanlou Sani

Employment Status: Formal

Educational Department: Radiology

Academic Rank : Associate professor

Contact Number: 08138381039(224)

Address: Hamedan, Mahdiah St., Shahid Fahmideh Blvd., Ibn Sina University of Medical Sciences, Faculty of Paramedical Sciences, Department of Radiology

Address: Email: ghazi1356@gmail.com **Academic E-mail:** ghazi@umsha.ac.ir



Educational Information

Specialized or Professional Doctorate: PhD in Medical Physics from Tarbiat Modares University

Thesis or Dissertation Title: Studying the effect of non-uniformity and anisotropy of tissue electrical conductivity on the distribution of electric and thermal fields in irreversible electroporation using MR images and finite element method

Year of Graduation: 2015

Master's Degree: Medical Physics from Mashhad University of Medical Sciences

Thesis or Dissertation Title: Design, construction and investigation of dosimetric properties of the grid used in megavoltage therapy grid

Year of Graduation : 2005

Bachelor's Degree: Radiology from Tabriz University of Medical Sciences

Year of Graduation: 2002

Executive Records:

Radiology Technician, Loghman Hospital, Tehran 1998-1999 Loghman Hakim Hospital - Tehran

Technician and Physicist, Nuclear Medicine Center, Imam Reza Hospital (AS) 1999-2003 Imam Reza Hospital (AS) - Mashhad

Physicist, Radiotherapy Department, Ghaem Hospital (AS) Mashhad 1999-2004 Ghaem Hospital (AS) - Mashhad

Faculty Member, Hamadan University of Medical Sciences 1996-2007 Ghaem Hospital (AS) - Mashhad

Responsible for General Health Physics, Hamadan Province 1999-2009 Atomic Energy Organization and Hamadan University of Medical Sciences

Head of Health Technology Growth Center, Hamadan University of Medical Sciences 1991-2003 Hamadan University of Medical Sciences

Director of Radiology Department, Hamadan University of Medical Sciences 1998-2005 Hamadan University of Medical Sciences

Membership in local, provincial, national, and international associations and societies:

Educational Records:

Teaching Records:

Teaching experience:

Teaching more than 400 theoretical and practical courses over 18 years at the Faculty of Paramedicine, Hamadan University of Medical Sciences (especially courses related to the field of radiology technology), including the following courses:

1 MRI techniques

2 Radiology hospital internship 1, 2, 3

3 Radiology hospital internship

4 Contrast radiography

5 Darkroom principles

- 6 Diagnostic radiology physics
- 7 Radiography techniques 1, 2, and 3
- 8 Radiobiology
- 9 Image recording and display in medicine
- 10 Radiation physics
- 11 Head and neck radiology
- 12 CT scan techniques
- 13 Biophysics
- 14 Specialized radiology methods
- 15 Principles of radiology paraclinical for occupational therapy students
- 16 Principles of repair and maintenance of medical imaging devices
- 17 Principles of ultrasound imaging for nursing students
- 18 Quality control and quality assurance Radiology Devices
- 19 Image Recording and Display in Medicine
- 20 Advanced Nursing Monitoring (Part on Introduction to Radiology Systems)

Theses:

Research Background

Research Interests:

Published Books:

- 1 Chesney Radiographic Imaging, Hamadan University of Medical Sciences, 2008
- 2 Radiographic Imaging and Exposure, Royan Pajouh Publications, 2014
- 3 Contrast Materials Used in Diagnostic Imaging, Royan Pajouh Publications, 2015

Published articles:

- 1 Image Findings and Radiation Dose in Lung CT Scan of Patients With COVID-19 in Hamadan
Farsi Avicenna journal of Care and Health in Operating Room 2024 scholar
- 2 Lifetime Attributable Risk of Breast Cancer Incidence in Brain CT Scans
English Middle East Journal of Cancer 2024 ISI
- 3 Image Quality and Absorbed Dose in Pulmonary CT Angiography: Comparison between Craniocaudal and Caudocranial
English Journal of Isfahan Medical School 2023 Scopus
- 4 Reduction of radiation dose received by surgeons and patients during percutaneous nephrolithotomy: a new shielding method
English Urology journal 2021 Scopus
- 5 Lead-free transparent shields for diagnostic X-rays: Monte Carlo simulation and measurements
English Radiological Physics and Technology 2020 ISI
- 6 The measurement of thyroid absorbed dose by gafchromic™ EBT2 film and changes in thyroid hormone levels following radiotherapy in patients with breast cancer
English Journal of Medical Signals & Sensors 2020 Scopus
- 7 Effect of Extremely Low Frequency Electromagnetic Fields on Expression of T-bet and GATA-3 Genes and Serum Interferon- γ and Interleukin-4
English Journal of Interferon & Cytokine Research 2019 ISI
- 8 Evaluating the effect of the vacuum bag on the dose distribution in radiation therapy
English Journal of Cancer Research and Therapeutics 2018 ISI
- 9 Evaluation of the electromagnetic field intensity in operating rooms and estimation of occupational exposures of personnel
English Interventional Medicine and Applied Science 2018 ISI
- 10 Comparison of Two Cone-Beam Computed Tomography Systems Regarding Linear Measurement Accuracy for Implant Sites in the Mandible: An In-Vitro Study
Persian Avicenna Journal of Clinical Medicine 2018 Scholar
- 11 Evaluation of noise pollution level in the operating rooms of hospitals: A study in Iran
English Interventional Medicine and Applied Science 2017 ISI

- 12 Evaluation of soft tissue sarcoma tumors electrical conductivity anisotropy using diffusion tensor imaging for numerical modeling on electroporation
English Journal of Biomedical Physics & Engineering 2016 pubmed
- 13 Evaluation of noise pollution level in the operating rooms of hospitals: A study in Iran
English Interventional Medicine and Applied Science 2016 ISI
- 14 Evaluation of patient's right charter observance in view point of personnel and patients in Radiology Wards of Hamadan's educational hospitals in 2015
Farsi Pajouhan Scientific Journal 2016 scholar
- 15 Optimizing the Parameters of Soft Tissue Sarcoma Tumors in Irreversible Electroporation Treatment Method
English Journal of Isfahan Medical School 2015 Scopus
- 16 Evaluation of Extremely Low Frequency Electromagnetic Field Intensity in Power Station and Substations of Hamadan City and Calculating its Occupational Received Dose by Personnel English Journal of applied sciences 2014 ISI
- 17 The effect of viewing conditions on reader performance in radiographic images English Journal of paramedical sciences 2013 --
- 18 Evaluation of Soft Tissue Sarcoma Tumors Electrical Conductivity Anisotropy Using Diffusion Tensor Imaging for Numerical Modeling on Electroporation English Journal of biomedical physics and engineering 2014 pubmed
- 19 Evaluation of dosimetric characteristics of Megavoltage Grid therapy English Iranian Journal of Radiation Research- - 2012 ISI
- 20 Iranian doctor's knowledge about received dose by patients in diagnostic radiology English Iranian Journal of Radiation Research- - 2009 ISI
- 21 A Comparison of the Efficacy, Adverse Effects, and Patient Compliance of the Sena-Graph®Syrup and Castor Oil Regimens for Bowel Preparation English Iranian Journal of Pharmaceutical Research 2010 ISI
- 22 Radiation protection principles observance in Iranian dental Schools English Journal of research in medical sciences 2010 ISI1
- 23 The effect of lead aprons on reducing the dose received by workers in Nuclear Medicine Departments Journal of Babol University of Medical Sciences, Iran 30-34 -- 46 1387
- 24 Design and construction of the grid used in the megavoltage therapy grid Journal of Tabriz University of Medical Sciences, Iran 185-191 1387
- 25 Use of half-blocks in adjusting the absorbed dose due to divergence, at the edge of adjacent fields in breast radiotherapy Journal of Tehran University of Medical Sciences, Iran --- 11 64 1385
- 26 Study of the degree of compliance with the principles of radiation protection in dental schools across the country Journal of Tehran University of Dental Sciences, Iran 125-131 22 1388
- 27 Study of the safety of using intravascular contrast agents in radiology departments in 4 western provinces of the country (Kurdistan, Kermanshah, Hamadan, Lorestan) / Project managers: Journal of Zahedan University of Medical Sciences, Iran - - -- -- 1389
- 28 Study of the possibility of preparing a new radiopharmaceutical for the detection of tissues Cooxygen Journal of Shahid Beheshti University of Medical Sciences, Iran 106-98 2 34 1389
- 29 Investigation of radiation dose to operating room personnel in hospitals under the auspices of Hamadan University of Medical Sciences Journal of Zanjan University of Medical Sciences, Iran -- -- -- 1390
- 30 Investigation of the distribution of electric and thermal fields in the treatment of soft tissue sarcoma tumors by irreversible electroporation
Journal of Isfahan University of Medical Sciences, Iran -- -- -- 1394

Research Projects:

- 1 Quality control of the lighting level of radiological image review areas in hospital centers under the coverage of Hamadan University of Medical Sciences (supervisor) Hamadan University of Medical Sciences 2009 2010**
- 2 Investigation of the safety lighting status of darkrooms of radiology centers in hospitals in Hamadan city (supervisor) Hamadan University of Medical Sciences 2009 2010**
- 3 Efficacy, side effects and acceptability of Crataegus herbal drops compared to propranolol tablets (supervisor) Iran Daruk Pharmaceutical Company 2009 2010**
- 4 Investigation of the level of information of physicians about the dose received by patients in diagnostic radiology (supervisor) Hamadan University of Medical Sciences 2006 2011**
- 5 Investigation of the safety level of using intravascular contrast agents in radiology departments located in 4 western provinces of the country (Hamedan, Kermanshah, Kurdistan, Lorestan) (supervisor) Hamadan University of Medical Sciences 2008 2010**

- 6 Study on the compliance of radiation protection principles in dental schools across the country (Conductor) Hamadan University of Medical Sciences 2009 2009
- 7 Comparison of efficacy, side effects and patient satisfaction in two intestinal preparation regimens using castor oil and Senagraph syrup (Conductor) Iran Daruk Pharmaceutical Company 2007 2007
- 8 Study on the effects of using mammography intensifying film and plates to show small fractures (Conductor) Hamadan University of Medical Sciences 2009 2009
- 9 Study on the frequency of radiographic stereotypes and analysis of the reasons for stereotype failure in radiology centers of hospitals under the umbrella of Hamadan University of Medical Sciences (Conductor) Hamadan University of Medical Sciences 2008 2008
- 10 Study on the sex ratio of children in male radiation workers working in radiology centers in Iran (Co-Conductor) Hamadan University of Medical Sciences 2009 2010
- 11 Design, manufacture and study of the sensitivity characteristics of the grid used in Megavoltage Therapy Grid (Thesis) Mashhad University of Medical Sciences 2004 2004
- 12 Investigating the Achievement of Educational Goals of Theoretical Courses in Radiology Technology Students of Hamadan University of Medical Sciences in the Academic Year 2007-2008 (Co-author) Hamadan University of Medical Sciences 2007 2007
- 13 Investigating the Sensitivity Properties of Radiographic Films When Using Different Processing Solutions (Supervisor) Hamadan University of Medical Sciences 2009 2009
- 14 Investigating the Sensitivity Properties of Radiographic Films Used in Dentistry (Supervisor) Hamadan University of Medical Sciences 2009 2009
- 15 Investigating the Radiation Dose Received by Operating Room Personnel from Radiological Examinations During Surgery (Supervisor) Hamadan University of Medical Sciences 2009 2009
- 16 Investigating the Algorithm for Reducing Metal Artifacts in CT Scan Images (Advisor) Hamadan University of Medical Sciences 1388 1388
- 17 Study of the resolution of details and contrast in conventional and digital panoramic images (Advisor) Hamadan University of Medical Sciences 1388 1388
- 18 Study of the level of illumination in administrative and educational environments at the level of universities in Hamadan city (Conductor) Islamic Azad University, Hamadan Branch 1388 1388
- 19 Study of the intensity of magnetic fields in voltage booster stations at the level of Hamadan province (Conductor) Islamic Azad University, Hamadan Branch 1389 1391
- 20 Study of the intensity of electromagnetic fields around the systems in the operating rooms of hospitals under the coverage of Hamadan University of Medical Sciences (Conductor) Hamadan University of Medical Sciences 1389 1390
21. Comparison of efficacy, side effects and patient satisfaction in two intestinal preparation regimens using castor oil and Senagraph syrup 1388 Karim Ghazi Khanloo Sani - Mahmoud Reza Jafari Research project on industry relations
- 22 Efficacy, side effects and acceptability of herbal drops Crataegus compared to propranolol tablets 2010 Karim Ghazi Khanloo Sani – Dr. Gharekhani Industry Relations Research Project

Participation in conventions and conferences:

- 1 2009 International congress of medical physics and engineering, Munich, Germany Evaluation of safety observance in using of Intravenous Contrast media In Iran
- 2 2009 International congress of medical physics and engineering, Germany, Munich, Evaluation of dosimetric characteristics of a grid block fabricated for Mega-voltage grid therapy purposes.
- 3 2009 International congress of medical physics and engineering Germany Munich Iranian doctor's knowledge about received dose by patients in diagnostic radiology
- 4 1389 Iranian Congress of radiology Iran Tehran Evaluation of the degree of educational goals fulfillment in theoretical courses in viewpoint of technology of radiology students
- 5 1389 Iranian Dental Congress Tehran Investigation of sensitivity characteristics of films used in dentistry
- 6 1389 Iranian Dental Congress Tehran Investigation of the level of compliance with safety principles in dental schools across the country
- 7 1388 Iranian Hekmat Sinui Festival Hamadan Efficacy, side effects and patient acceptability in two intestinal preparation regimens
- 8 1388 Iranian Congress of radiology Iran Tehran Iranian physicians dose estimation about radiation dose received by patients
- 9 1389 Safety and health congress in Iranian health centers Hamadan Principles of hygienic disposal of hospital waste

- 10 1388 Iranian Dental Students' Conference Yazd Investigation of the characteristics of Kodak dental radiography film when used Different processing solutions**
- 11 1389 Congress on Safety and Health in Iranian Health Centers Hamadan Investigating the level of compliance with safety principles in contrast agent injection in western provinces of Iran**
- 12 1389 9th Iranian Medical Physics Congress Tehran Evaluation of radiographic repeat rate data and film reject analysis of radiology departments in several hospitals of Hamadan University of Medical Sciences**
- 13 9th Iranian Medical Physics Congress Tehran Evaluation of radiation protection principles observance in Iranian dental schools**
- 14 9th Iranian Medical Physics Congress Tehran Evaluation of dosimetric properties of megavoltage grid therapy**