ACADEMIC TEACHING AND RESEARCH CURRICULUM VITAE

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Educational Background

- Ph.D. in Medical Physics, Iran University of Medical Sciences, Tehran, Iran (Admitted in 2010; initially admitted to Tehran University of Medical Sciences).
- M.Sc. in Medical Physics, Department of Medical Physics and Engineering, Isfahan University of Medical Sciences, Iran (Admitted in 2001).
- B.Sc. in Nuclear Physics, Bu-Ali Sina University, Hamedan, Iran (Admitted in 1997).

Thesis and Dissertation

Ph.D. Dissertation

Calibration and Validation of an Electronic Portal Imaging Device (EPID) Dosimetry System for Simultaneous Measurement of Absorbed Dose in Radiotherapy Fields.

M.Sc. Thesis

Evaluation of Gadolinium Hematoporphyrin as a Specific Magnetic Resonance Contrast Agent for the Detection of MCF-7 Breast Cancer Cells.

Academic and Administrative Positions

1. Head of the Department of Medical Physics, Hamadan University of Medical Sciences, since 2023.
2. Lecturer in the General Medicine Program, Department of Medical Physics.

3. Member of the Departmental Internal Evaluation and Accreditation Committee.
4. Member of the Faculty Course Syllabus Review Working Group.
5. Member of the Editorial Board of a scientific journal.
6. Member of the Molecular and Cellular Research Center, Hamadan University of Medical Sciences, 2009–2011.

Scientific and Professional Activities

1. Member of the Scientific Committee, 12th and 13th Iranian Congresses of Medical Physics.
2. Member of the Scientific Committee, 8thClinical Oncology Congress.
3. Member of the Editorial Board of a scientific journal.
4. Member of the Molecular and Cellular Research Center, Hamadan University of Medical Sciences, 2009–2011.
5. Peer Reviewer:

- *Radiotherapy and Oncology*
- *Clinical and Translational Oncology*
- *Cancer Treatment and Research Communications*
- *Frontiers in Biomedical Technologies (FBT)* – Tehran University of Medical Sciences, Iran.
- *Journal of Medical Signals and Sensors (JMSS)* – Isfahan University of Medical Sciences, Iran.

Skills:

- Radiotherapy
- Dosimetry
- Treatment planning
- Radiotherapy treatment verification
- Medical image processing
- Cell lines culture and their preservations

Research field of Interest:

- Radiotherapy

- Radiation protection in ionizing and non-ionizing fields
- Application of Artificial Intelligence in radiotherapy and medical image processing
- Medical Dosimetry

Teaching Experience

- Department of Medical Physics, Hamadan University of Medical Sciences (2008–2011).
- Department of Medical Physics, Hamadan University of Medical Sciences (2016–Present).

COURSES TAUGHT

1. Residency and Clinical Education

- Radiation Therapy Physics
- Physical basics of sonography
- Physical basics of magnetic resonance imaging

2. Graduate-Level Courses (M.Sc.)

- Ultrasound physics in medical application
- Nuclear medicine physics
- Atomic and Nuclear Physics

3. Medical and Pharmaceutical Physics

- Medical Physics for Medical and dental Students
- Pharmaceutical Physics
- Physics for International Pharmacy Students

4. Undergraduate-Level Courses (B.Sc.)

Acoustic Analysis for Speech-Language Pathology Students

Physics of Sound for Audiology Students

Radiation Health Physics

Biophysics for Anesthesia Students

Biophysics for International Medical Students

Applied Physics for Medical Laboratory Sciences

Physics for Physiotherapy Students

Radiation Dosimetry for Radiologic Technology Students

Specialized Physics I, II

Physics for Biological Sciences

Publications:

1. Nazari V, Ghaderi V, Tapak L. The Key Role of Objective Experience in Enhancing the Knowledge of Ionizing Radiation for Pre-interns and Residents. *Health Physics*. 2025.

2. Nazari V, Pashaki AS, Hasanzadeh E. The Reliable Predictors of Severe Weight Loss During the Radiotherapy of Head and Neck Cancer. *Cancer Treatment and Research Communications*. 2021.

3. Siadat H, Belbasi S, Alikhasi M, Nazari V, Beyabanaki E. Effect of Implant Connection Type and Depth on the Seating Accuracy of Hand-Tightened Abutments. *Journal of Prosthodontics*. 2019.

4. Mahdavi SR, Nikoofar AR, Ameri A, Nazari V. Dosimetric Verification of Pre-treatment Intensity Modulated Radiation Therapy in the Commissioning Process. *International Journal of Radiation Research*. 2018.

5. Nazari V, Mahdavi SR, Mostaar A, Nedaei H, Mosleh-Shirazi MA. Camera-Based EPID Dosimetric Verification of Radiation Treatments. *Iranian Journal of Medical Physics*. 2018.

6. Vahideh Nazari, Mahdavi SR, Mostaar A, Nedaei H, et al. Multi-parametric Improvements in the CCD Camera-Based EPID for Portal Dosimetry. *Journal of Medical Signals & Sensors*. 2017.

7. Shahbazi GD, Tavakoli MB, Roufeh M, Nazari V. Assessment of New Gadolinium Compounds as Contrast Agents for Detection of MCF-7 Breast Cancer Cell Line in MRI. *Feyz Medical Sciences Journal*. 2006.

8. Shahbazi GD, Tavakoli MB, Nazari V. Gadolinium-Hematoporphyrin: New Potential MRI Contrast Agent for Detection of Breast Cancer Cell Line (MCF-7). *Journal of Research in Medical Sciences*. 2005.