

# Personal Resume

## Personal Information

**First and Last Name:** Rasool Azmoonfar

**Employment Status :** Formal

**Educational Department:** Department of Radiology, School of Allied Medical Sciences, Hamadan University of Medical Sciences, Hamadan, Iran

**Academic Rank:** Assistant Professor

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## Educational Information

**Specialized or Professional Doctorate:** Ph.D. in Medical Physics, Isfahan University of Medical Sciences, Isfahan, Iran

**Thesis or Dissertation Title:** Investigating the radioprotective effect of curcumin-loaded chitosan nanoparticles in Mitigating Radiation-Induced Liver Injury in a rat model

**Year of Graduation:** 2022 – 2025

**Master's Degree:** M.Sc. in Radiobiology and Radiation Protection, Shiraz University of Medical Sciences, Shiraz, Iran

**Thesis Title:** Investigation of the bystander effect of microwave radiation from a mobile phone simulator on the rate of apoptosis and catalase enzyme activity in the Jurkat cell line.

**Year of Graduation:** 2010 – 2013

**Bachelor's Degree :** B.Sc. in Radiologic Technology, Iran University of Medical Sciences, Tehran, Iran

**Year of Graduation:** 2005 – 2009

## Executive Records

### *Faculty Member*

- Hamadan University of Medical Sciences, School of Allied Medical Sciences, Hamadan, Iran, 2019 – Present
- Kermanshah University of Medical Sciences, School of Paramedical Sciences — Kermanshah, Iran, 2016 – 2019

### *Clinical Instructor – Radiology and Nuclear Medicine*

- Imam Reza Hospital, affiliated with Kermanshah University of Medical Sciences, Kermanshah, Iran, 2013 – 2016

### *Medical Imaging Technologist*

- Imam Reza Hospital, affiliated with Kermanshah University of Medical Sciences — Kermanshah, Iran, 2013 – 2014

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

- Collaborative Researcher, Radiation Research Centre, Shiraz University of Medical Sciences, Paramedical School (2009–2012)
- Executive Committee Member, 1st MEFOMP International Conference of Medical Physics (2011, Shiraz, Iran)
- Research Committee Member, Shiraz University of Medical Sciences, Paramedical School (2009–2012)
- Executive Committee Member, 1st National Congress of Radiation Sciences Students (2010, Shiraz, Iran)

## Educational Records

- Core Medical Imaging & Physics Instruction
- Radiobiology, Radiation Physics, and Medical Physics
- Principles of Diagnostic Radiology
- Contrast Media in Diagnostic Radiology
- Basics of Ultrasound Imaging.
- Medical Image Assessment
- General Physics Clinical Competency & Patient Care
- Patient Care in Medical Imaging
- Ionizing Radiation.
- Head and Neck Radiology

## Research Background

### Published Books:

- Contrast Media in Medical Imaging: MRI, CT Scan, and Radiology (in Persian)
- Advanced Basics of Nuclear Medicine Imaging (in Persian)

### Published Articles:

#### 2025

1. *Dosimetric comparison of acute skin complications following conventional and hypofractionated radiotherapy in breast cancer patients, **International Journal of Radiation Research***
2. *Histopathological Evaluation of Radioprotective Effects: Selenium Nanoparticles Protect Lung Tissue from Radiation Damage, **Advanced Biomedical Research***
3. *Radioprotection and enhanced efficacy by curcumin-loaded chitosan nanoparticles in mitigating radiation-induced liver injury. **Biochemical and Biophysical Research Communications.***

#### 2024

1. *Comparison prediction models of bladder toxicity based on radiomic features of CT and MRI in patients with prostate cancer undergoing radiotherapy. **Journal of Medical Imaging and Radiation Sciences.***
2. *Radiation-induced testicular damage in mice: Protective effects of apigenin revealed by histopathological evaluation. **Current Radiopharmaceuticals.***
3. *Feasibility of FLASH radiation therapy using X-ray sources based on simulation method. **Avicenna Journal of Care and Health in Operating Room.***
4. *Bismuth selenide nanoparticles enhance radiation sensitivity in colon cancer cells in vitro. **Biochemistry and Biophysics Reports.***
5. *Psychometric properties of the COVID-19 safety measures questionnaire in employees of the radiation therapy center. **Journal of Education and Health Promotion.***

6. *Protective effects of alpha-lipoic acid, resveratrol, and apigenin against oxidative damage, histopathological changes, and mortality induced by lung irradiation in rats. **Current Radiopharmaceuticals.***
7. *Occupational radiation exposure of surgical teams: A mini-review on radiation protection in the operating room. **Avicenna Journal of Care and Health in Operating Room.***
8. *Evaluation of risk management status in selected departments of educational hospitals of Hamadan University of Medical Sciences. **International Journal of Risk & Safety in Medicine.***
9. *Radioprotective effect of selenium nanoparticles: A mini review. **IET nanobiotechnology***

## 2023

1. *Increased radiosensitivity of melanoma cells through cold plasma pretreatment mediated by ICG. **Journal of Radiation Research.***
2. *Radioprotective effect of *Malva sylvestris L.* against radiation-induced liver, kidney, and intestine damage in rats: A histopathological study. **Biochemistry and Biophysics Reports.***
3. *Critical parameters to translate gold nanoparticles as radiosensitizing agents into the clinic. **Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology.***

## 2022

1. *Simultaneous effect of gamma and Wi-Fi radiation on  $\gamma$ -H2AX expression in peripheral blood of rats: A radioprotection note. **Biochemistry and Biophysics Reports.***

## 2020

1. *Evaluation of radiation protection principles observance in dental radiography centers (West Iran): A cross-sectional study. **Radiation Protection Dosimetry.***
2. *Transfer of radio-adaptation via serum: A preliminary report. **Iranian Journal of Medical Physics.***
3. *Mitigation of radiation-induced pneumonitis and lung fibrosis using alpha-lipoic acid and resveratrol. **Anti-Inflammatory & Anti-Allergy Agents in Medicinal Chemistry.***
4. *Celecoxib, a selective COX-2 inhibitor, mitigates fibrosis but not pneumonitis following lung irradiation: A histopathological study. **Current Drug Therapy.***

## 2019

1. *Adsorption of radioactive materials by green microalgae *Dunaliella salina* from aqueous solution. **Iranian Journal of Medical Physics.***

## 2018

1. *Contrast agents and observing patient safety programs in radiology departments in Kermanshah Province hospitals (West Iran). **Acta Informatica Medica.***

2. *Effect of panoramic radiography on the diagnosis of lesions in dentistry and its impact on cumulative radiation dose. **Iranian Journal of Medical Physics.***
3. *Evaluation of the observance of radiation protection principles in dentistry centers in Kermanshah Province. **Iranian Journal of Medical Physics.***
4. *Activation of radioadaptive response via injected serum of irradiated rats with low doses of ionizing radiation. **Iranian Journal of Medical Physics.***
5. *Metformin protects against radiation-induced pneumonitis and fibrosis and attenuates dual oxidase gene expression. **Advanced Pharmaceutical Bulletin.***

## **2016**

1. *Physicians' knowledge about radiation dose in radiological investigations in Iran. **Journal of Biomedical Physics & Engineering.***

## **2015**

1. *Induction of apoptosis by 900 MHz radiofrequency radiation emitted from a GSM mobile phone simulator in bystander Jurkat cells. **International Journal of Radiation Research.***

## **Research Projects:**

## **Participation in Conferences and Meetings**

### **2025**

- *Radioprotective Effect of Selenium Nanoparticles Against Radiation-Induced Lung and Heart Damages: A Histopathological Study, **13th Iranian Congress of Medical Physics, Tehran, Iran***

### **2018**

- *Activation of Radioadaptive Response via Injected Serum of Irradiated Rats with Low Doses of Ionizing Radiation, **12th Iranian Congress of Medical Physics, Tehran, Iran***
- *Evaluation of Radiation Protection Principles in Dental Centers of Kermanshah Province (West Iran), **12th Iranian Congress of Medical Physics, Tehran, Iran***
- *Frequency of Lesions in Panoramic Radiography in Patients Referred to Imaging Centers in Kermanshah Province, **12th Iranian Congress of Medical Physics, Tehran, Iran***

### **2015**

- *Doctors' Knowledge About Radiation Dose in Radiological Investigations in Iran, 1st National Congress of Paramedical Students, Mazandaran, Iran*

**2014**

- *Green Microalga *Dunaliella salina* as a Novel Agent for Absorption of Radionuclides from the Environment After a Nuclear Accident, 11th Iranian Medical Physics Conference, Tehran, Iran*

**2012**

- *Strategies for Removing Radioactive Contaminants Released into the Environment After a Nuclear Accident, European Medical Physics and Engineering Conference, Sofia, Bulgaria*
- *Non-Ionizing Radiation Syndrome in the Post-Chernobyl Era, 2nd National Conference on Non-Ionizing Radiation Safety, Shiraz, Iran*
- *Data Mining Approach to Patient Relationship Management (PRM) in Fars Province Hospitals, 2nd Medical Students' Research Congress, Tehran Network, Tehran, Iran*

**2010**

- *Are Radiographic Quality Control Devices Susceptible to Interference from GSM Mobile Phones?, 1st National Congress of Radiation Sciences Students, Shiraz, Iran*