



Kurdistan University of Medical Sciences

Curriculum Vitae (CV)

Kurdistan University of Medical Sciences Sanandaj IRAN

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Personal Details:

Name: Jamal

Surname: Amiri

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Address: department of radiotherapy, faculty of paramedical sciences, Kurdistan University of medical sciences, Blvd Pasdaran, Sanandaj.

Marital status: Married

Academic Qualifications:

M.S. Medical Radiation Engineering, Amirkabir University, Tehran, Iran

Positions and work experiences:

- Radiotherapy department director, Paramedical sciences, Kurdistan university of medical sciences
- Faculty member, Paramedical sciences, Kurdistan university of medical sciences
- physics Lab director, Paramedical sciences, Kurdistan university of medical sciences
- Secretary of scientific communities, Paramedical sciences, Kurdistan university of medical sciences
- The expert of research, Ilam university of medical sciences
- The expert of development center, Ilam university of medical sciences

Key Skills:

- Treatment and imaging of tumor cells
- Effect of radiation on cells
- Research on cancerous cells
- Specialized soft wares: MCNP, MATLAB, RT Planning
- Working with devices: Linac, Cobalt-60, CT Simulation, Quality Control Radiotherapy and Radiology Systems, Dosimetric systems

Teaching:

- Radiotherapy devices
- The physics of Radiation
- The physics of Radiation therapy
- CT- scan physics
- Medical physics
- Dosimeters
- Shielding

- Accelerators in medical
- Nuclear medical
- Molding in radiotherapy
- Quality Control radiotherapy and radiology systems
- RT Planning
- Bio physics
- Modern Physics
- Electromagnetism
- Basic physics in radiology
- Basic physics in radiotherapy
- Basic physics in laboratory sciences

Patents

- **Clean room with adjustable with applications in medical, research, domestic and industrial**

Papers

1. Jamil Abdolmohammadi, Fariborz Faeghi, Alireza Zali, Hamidreza Haghightakhah, **Jamal Amiri***. The Role of Single Voxel MR Spectroscopy, T2 Relaxation Time and Apparent Diffusion Coefficient in Determining the Cellularity of Brain Tumors by MATLAB Software, *Asian Pac J Cancer Prev*, 2018; 19: 253-7.
2. Elahimanesh F, Allaveisi F, Zahedi R, Abdolmohammadi J, Mahmoodi M, **Amiri J**, et al. Evaluation of Changes in Blood Factors, Liver Functional Tests, and Thyroid Tests in Radiation Workers in Hospitals in Kurdistan Province, Iran. *J Isfahan Med Sch* 2018; 35(453): 1532-9.
3. **Jamal Amiri**, Seyed Pezhman Shirmardi*, Rohollah Adeli, Mostafa Erfani, ElhamSaniei, 131I-Chlorotoxin dosimetry in liver using MCNP simulation code, *Journal of Paramedical Sciences (JPS)*, 2014 ;5(1): 58 -62.
4. **Jamal Amiri**, Seyed Pezhman Shirmardi*, Measuring natural radioactivity of bricks used in the constructions of Tehran, *Journal of Paramedical Sciences (JPS)*, 2014; 5(3): 12- 18.
5. Rouhollah Adeli, Seyed Pezhman Shirmardi*, **Jamal Amiri**, V.P. Singh, M.E. Medhat, Simulation and comparison of radiology X-ray spectra by MCNP and GEANT4 codes, 2015;6(4): 8-14.
6. **Amiri J**, Shamsaei M, Shirmardi S.P, Adeli R, amiri Sh, Designing Light Elements Analysis System with Neutron Activation Analysis(NAA) By Using MCNP Code, *Scientific Journal of Ilam University of Medical Sciences*, 2013; 21(5): 100 -108 7 (In Persian).
7. **Amiri J**, Shahin Amiri, Parvin Tork, Mohmad hasan Abbasi, Seyed Pezhman Shirmardi*, Evaluating the implementation of standards for safety and dosimetry at x-ray imaging centers in hospitals belonging to Ilam University of medical sciences, *Scientific Journal of Ilam University of Medical Sciences*, 2014; 22(2): 24 -31 (In Persian).
8. **Amiri J**, Shirmardi S*, Amiri S, Abbasi M, Abdolmohamadi J, Measurement of Outdoor Background Dose Rate in Ilam Province, *Scientific Journal of Ilam University of Medical Sciences*, 2015; 23(6): 196 -203 (In Persian).
9. **Jamal Amiri**, Siamak derakhshan, Shahin Amiri, investigate effect of neutron energy source for BNCT and digesting applications, *Scientific Journal of Nursing, Midwifery and Paramedical Faculty*, 2016.

Conferences:

1. **Jamal amiri1**, Title Design of light element analysis system in BNCT and every NCT, Iranian Journal of Medical Physics, 12th Iranian Congress of Medical Physics, July 2018, Tehran, Iran.

2. [Amiri jamal](#), designing breast elements analysis system with Neutron Activation Analysis (NAA) by using MCNP code, 1st International & 8th Annual Tehran Breast Cancer Congress, October 28 – 30, 2015, Tehran, Iran.
3. Elham saniee, Sayed Pezhman Shirmardi, [Jamal Amiri](#), Determination of inhomogeneity's in the path of proton beam and its effect on the Bragg peak, 11th Iranian conference of medical physic, November 6-7, 2014, Tehran, Iran (In Persian).
4. [Jamal Amiri](#), Investigation observation standards of security and dosimetry at x-ray imaging center hospitals Subsidiary Ilam University of medical sciences, 11th Iranian conference of medical physic, November 6-7, 2014, Tehran, Iran (In Persian).
5. [Jamal Amiri](#), Roshank soltani, Sayed Pezhman Shirmardi, Optimizing the parameters affecting the output spectrum of the X-ray tube by MCNP code, 11th Iranian conference of medical physic, November 6-7, 2014, Tehran, Iran (In Persian).
6. [Jamal Amiri](#), Neutron investigation as nuclear energy beating heart and different cases of its applications, Fifth National Conference of Physics PNU, October 7-8, 2011, Tabriz, Iran (In Persian).
7. [Amiri J](#), Light element of tissue analysis system by use of neutron activation analysis (NAA) and study simulation with MCNP code, 1st MEFOMP International Conference Medical Physics, November 2- 4, 2011, Shiraz, Iran.

Books:

1. **Application of MCNP code in nuclear computation (In Persian)**
2. **Radiations and shielding them (In Persian)**

Current Works in Progress:

- Modern treatment methods for thyroid, skin, lung and breast cancers.
- Effect of gadolinium with radiotherapy and iodine therapy on the thyroid cancer cell line in in vitro.
- Effect of nanoparticles on radiotherapy efficiency increasing.
- Various techniques in dosimetry

Current academic positions:

- Radiotherapy department director, Paramedical sciences, Kurdistan university of medical sciences
- University faculty member, Paramedical sciences, Kurdistan university of medical sciences

Research Interests:

- Invent new methods for diagnose cancerous cells
- Invent new methods of treatment and eliminate cancerous cells
- Design and construction of new equipment for cancer treatment

Experimental Skills

- Treatment planning in radiotherapy
- Design and construction of medical systems
- Quality control of radiotherapy devices
- Quality control of radiology devices
- Medical dosimetry

- Applications of radiopharmaceuticals in treatment and diagnosis
- animal and human researches

Interests:

Poetry, reed, documentaries on nature and wildlife, literature and philosophy of science

Language:

Fluent in Farsi, Kurdish, English, and familiar with Arabic