In the Name of God

Curriculum Vitae (CV)

Mikaeil Molazadeh

Personal Information:

Mikaeil Molazadeh, Ph.D. of Medical Physic
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Educational Background:

Degree	Field	Institution	Received Date
B.Sc	Solid state physics	Urmia University	2005
M.Sc	Medical Physics	Tehran Medical Sciences University	2009
Ph.D.	Medical Physics	Tehran Medical Sciences University	2017

Master Thesis: Treatment planning systems verification of ^{60}Co machine and Gamma Knife unit using RadioChromic film and MC simulation in head phantom.

Ph.D. Dissertation: Introduce a new method for three-dimensional dosimetry in IMRT with RadioChromic film and comparison with the results of Monte Carlo simulation and Full Scatter Convolution computational algorithm in the head heterogeneous environment.

Administrative Positions:

Job Title	Place of Work	Date	Name of Institution
Radiotherapy Physicist	Department of Physics	2009- 2013	Radiotherapy Center of Urmia Omid Hospital
University Tuition Teacher	Faculty of Paramedical	2010- 2013	Urmia University of Medical Sciences
University Tuition Teacher	Faculty of Health	2011-2013	Urmia University of Medical Sciences
Radiotherapy Physicist	Department of Physics	2014- 2016	Radiotherapy Center of Urmia Imam Khomeini Hospital
Chief Medical Physicist of Radiotherapy	Department of Physics	2016- 2022	Radiotherapy Center of Ardabil Imam Khomeini Hospital
Assistant Professor of Medical Physics	Department of Radiology	2021- 2022	Ardabil University of Medical Sciences
Medical Physicist of Radiotherapy	Department of Physics	2022- upward	Radiotherapy Center of Tabriz Shahid Madani Hospital
Assistant Professor of Medical Physics	Department of Medical Physics	2022- upward	Tabriz University of Medical Sciences

Publications: (Journal papers)

1- Collapsed Cone Superposition Algorithm Validation for Chest Wall Tangential Fields using Virtual Wedge Filters

Journal of Medical Signals & Sensors

2023-07-12 | journal-article

DOI: 10.4103/jmss.jmss_7_22

2- Assessment of the knowledge level of radiographers and CT technologists regarding computed tomography parameters in Iran

Radiation Medicine and Protection

2023-01-13 | journal-article

DOI: 10.1016/j.radmp.2023.01.002

3- Measuring the leakage dose of TiGRT Dynamic MLC with EDGE diode dosimeter and EBT3 radiochromic film and comparing the results with BEAMnrc code calculations

Iranian Journal of Radiation Safety and Measurement

2022-07-31 | journal-article

4- The alleviating effect of herniarin against ionizing radiation-induced genotoxicity and cytotoxicity in human peripheral blood lymphocytes

Current Radiopharmaceuticals

2021-10-21 | journal-article

PMID: 34636317

DOI: 10.2174/1874471014666211012104808

5- Three-dimensional IMRT QA of Monte Carlo and full scatter convolution algorithms based on 3D film dosimetry

Radiation Physics and Chemistry

2021-04-28 | journal-article

PMID: 32334505

DOI: 10.1016/j.radphyschem.2021.109528

6- Synthesis of new thioureas derivatives and evaluation of their efficacy as proliferation inhibitors in MCF-7 breast cancer cells by using 99mTc-MIBI radiotracer.

Medicinal chemistry (Shariqah (United Arab Emirates))

2020-04-25 | journal-article

PMID: 32334505

DOI: 10.2174/1573406416666200425224921

7- Evaluation of Three-dimensional Treatment Planning System (TPS) performance in dose calculation of virtual wedged fields using film dosimetry.

Iranian Journal of Medical Physics

2018-12 | Conference-paper

DOI: 10.22038/ijmp.2018.12792

8- Dosimetric characteristics of LinaTech DMLC H multi leaf collimator: Monte Carlo simulation and experimental study.

Journal of Applied Clinical Medical Physics

2017 | journal-article

DOI: 10.1002/acm2.12055

EID: 2-s2.0-85014729902

Part of ISSN: 15269914

9- Investigating the Use of Personal Information Management Strategies by Faculty Members of three Medical Sciences Universities in Iran.

MIER Journal of Educational Studies, Trends and Practices

2017-01 | journal-article

https://doi.org/10.52634/mier/2017/v7/i1/1450

10- Validation of a prototype optical computed tomography system.

Journal of Medical Signals and Sensors

2015 | journal-article

DOI: 10.4103/2228-7477.157621

EID: 2-s2.0-85020469434

Part of ISSN: 22287477

11- Influence of the intravenous contrast media on treatment planning dose calculations of lower esophageal and rectal cancers.

Journal of Cancer Research and Therapeutics

2014 | journal-article

DOI: 10.4103/0973-1482.131465

EID: 2-s2.0-84899704102

Part of ISSN: 19984138 09731482

12- Evaluation the effect of photon beam energies on organ at risk doses in three-dimensional conformal radiation therapy.

Research Journal of Applied Sciences, Engineering and Technology

2013 | journal-article

DOI: 10.19026/rjaset.6.3833

EID: 2-s2.0-84880678395

Part of ISSN: 20407467 20407459

13- Evaluation of the RtDosePlan Treatment Planning System using Radiochromic Film and Monte Carlo Simulation.

Iranian Journal of Medical Physics

2010-06 | journal-article

DOI: 10.22038/ijmp.2010.7264

Congresses and Seminars:

1- The 6th conference of ionizing, and non-ionizing radiation measurement, and safety, 2021, Oral Presentation.

2- The 12th Iranian Congress of Medical Physics, 2018, Oral Presentation.

3- The 11th Iranian Congress of Medical Physics, 2014, Poster Presentation.

4- The 1st MEFOMP International Congress of Medical Physics, 2011, Poster Presentation.

5- The 9th Iranian Congress of Medical Physics, 2010, Oral Presentation.

6- The 16td Iranian Congress on Biomedical Engineering, 2009, Oral Presentation.

Membership to Scientific Associations:

Iranian Association of Medical Physicists (IAMP), 2013 upward. (Membership No: MOL359M)

Courses Taught:

General Physics, Medical Physics and Electricity, Dedicated Physics, Exclusive Theoretical Physics.

Professional Experiences:

1- Commissioning of Siemens Magnetron HPD Single/Multi Energy Accelerator (PRIMUS Model).

2- Commissioning of Elekta Magnetron Single Energy Accelerator (COMPACT Model).

3- Commissioning of CorePLAN, MIRS, ISOgray and RtDosePlan Treatment Planning Systems

4- Mastery and work with the tools and equipment in the field of dosimetry and radiation (QA/QC):

   a. Theratron/Picker ^{60}Co/ONCOR/PRIMUS/Elekta/ARTISTE/Tomotherapy Radixact (X7) machines.
   b. GZP6 HDL Afterloading Intracavitary Treatment Unit.
   c. DailyQA3/Profiler2/PTW/Quick Check/Detector 1500 (Check Devices).
   d. Farmer/Roos/Markus/Edge/Diode/Exradin A1SL/Exradin A101 (Field Detectors).
   e. 1D/3D scanning systems (Water phantom of Sun Nuclear/PTW/Behyarr sanaat Corporations).
   f. CYRPA HIT/LAP Laser Systems
   g. MP3 PTW water phantom System
   h. PTW MEPHYSTO Navigator scanning software
   i. MOSAIQ/LANTIS Oncology Information System Interface
   j. ARTISTE Siemens/Elekta Synergy EPID System
   k. PTW OCATIUS 4D/VeriSoft

Research Interests:

- Radiation Therapy Physics
- Radiation Treatment Planning
- Radiation Dosimetry
- Plan Optimization
- Monte Carlo Simulation (BEAMnrc)
- IMRT/3DCRT/Tomotherapy
- IMRT/Tomotherapy QA
- Film Dosimetry