Curriculum Vitae

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BRIEF RESUME

Member of University Faculty (Associate Professor) (Iran):

- Head of Radiotherapy Physics Unit and Joint Radiation Protection Officer
- Head and Founding Member of the Ionizing and Non-ionizing Radiation Protection Research Center
- Deputy of Postgraduate Studies and former Head of the Radiology and Radiobiology Department
- Founding Member of Medical Imaging Research Center
- Coordinator for PTW Freiburg Reference Hospital (Namazi Hospital)
- Former Head of the University's Research Consultation Center (7.5 years)
- Former Member of Namazi Hospital Radiation Protection Committee (5 years)

Member of Awards & Honours Committee:

- *Asia-Oceania Federation of Organizations for Medical Physics (AFOMP)*

National level responsibilities:

- President of the *Iranian Association of Medical Physics*
- Member of the *National Examination and Assessment Board for Medical Physics, Radiation Protection, Radiobiology and Radiological Sciences*
- Member of the *National Examination and Assessment Board for Radio-oncology*
- Member of the *Board of the National Radiotherapy Physics Committee*
- Advisor to the *National Radiotherapy Steering Committee*

Education, professional qualification, certification and experience:

- BSc, MSc and PhD in Medical Physics (UK)
- IPEM Higher Training Scheme in RT Physics (UK)
- Chartered Scientist by the Science Council (UK)
- Registered Clinical Scientist (Medical Physicist) by the HCPC (UK)
- 31 years post-MSc experience of clinical/research/teaching work in medical physics (incl. 11 years at the Royal Marsden Hospital and Institute of Cancer Research, University of London, UK)

Research publications and editorial work:

- SCOPUS H-index: 22 (with self-citations), 21 (without self-citations)
- 124 papers in peer-reviewed journals
- 187 conference presentations
- Citations in >50 English-language textbooks and >1600 peer-reviewed articles
- Member of Editorial Board: 3 journals
- Guest Associate Editor: Medical Physics (USA)
- Various conferences: Scientific Secretary, Session Chairman, Member of Scientific Committee, Invited Speaker

CURRENT EMPLOYMENT **Shiraz University of Medical Sciences, Iran** **2006 – present**

Member of Faculty

- Associate Professor
- Head & Joint Radiation Protection Officer of the Radiotherapy Physics Unit
- Head and Founding Member of the Ionizing and Non-ionizing Radiation Protection Research Center
- Deputy of Postgraduate Studies and former Head of Radiology and Radiobiology Department
- President of the Iranian Association of Medical Physics
- Member of *AFOMP* Awards & Honours Committee
- Member of the National Examination and Assessment Board for Medical Physics, Radiation Protection, Radiobiology and Radiological Sciences
- Member of the National Examination and Assessment Board for Clinical Oncology
- Member of the Board of the National Radiotherapy Physics Committee
- Advisor to the National Radiotherapy Steering Committee
- Founding Member of Medical Imaging Research Center
- Coordinator for PTW Freiburg Reference Hospital (Namazi Hospital)
- Former Head of the University's Research Consultation Center (7.5 years)
- Former Member of Namazi Hospital Radiation Protection Committee (5 years)

Main roles:

- Teaching, training, research and development
- Supervision of the patients' dose calculation and treatment planning service
- Supervision of the quality control and maintenance programmes of the equipment
- Specification, selection, acceptance and commissioning of new equipment
- Also, part-time member of the *Radiology & Radiobiology* and the *Medical Physics and Engineering* Departments

PREVIOUS EMPLOYMENTS **Royal Marsden Hospital and Institute of Cancer Research, UK** **2000 – 2006**

Clinical/Research Physicist: Senior (2000 – 2003), Principal (2003 – 2006)

- Performed clinically relevant research and development (predominantly in pediatric and CNS RT physics), teaching and training as well as contributing to the routine clinical programme.

- Work carried out to improve pediatric and CNS RT:
  - Commissioned the Pinnacle planning system for stereotactic conformal RT (including the commissioning of small-field beam models, export and modification of shielding blocks, CT-MRI fusion and DRR export to portal imaging systems).
  - Commissioned a HEK computerized block cutter.
  - Involved in the design, fabrication and clinical implementation of a new pediatric stereotactic frame and commissioning of a commercial one.
  - Carrying out an audit of the set-up reproducibility of children undergoing stereotactic conformal RT.
  - Evaluated and set up a practical method for routine craniospinal axis irradiation using forward-planned IMRT.
  - Involved in the commissioning of multislice helical CT and MRI scanners for radiotherapy applications.
  - Leading physicist on the evaluation and purchase of a wide-bore CT scanner and CT simulation package.

- Research:
  - Comparison of conventional and forward- and inverse-planned IMRT methods for craniospinal axis RT.
  - Planning study of conformal and IMRT techniques for posterior cranial fossa boosts including different treatment objectives.
  - Optimization of the number of stereotactic RT beams as a function of PTV shape and size.
  - Characterizing the properties of a prototype commercial MMLC.
  - Study assessing the efficacy of using DRRs as reference images for treatment verification in routine practice.
  - Study of observer reproducibility in interactive CT-MRI fusion techniques and its comparison with automated algorithms.
  - Planning study of cardiac dose in patients undergoing RT for esophageal cancer.
  - Investigation of Monte-Carlo generated electron dose distributions for clinical applications
  - Investigation of RT techniques for localized intracranial germinomas (including whole-ventricular RT)

- Main areas of responsibility: physics aspects of pediatric and CNS RT, the RT CT scanner, and Health & Safety

Brighton & Sussex University Hospitals, UK **1997 - 2000**

Senior Clinical RT Physicist

- On a three-weekly *Duty Physicist* rotation with responsibility to deal with all RT physics queries.
- Checked treatment plans and charts, participated in the routine and developmental aspects of dosimetry, machine QA and brachytherapy programs, performed interdepartmental dosimetry audits, wrote *ISO9002* documentation, and audited the quality system.
- Involved in implementation of 3D treatment planning and commissioning of a cobalt unit, a superficial/orthovoltage machine, the *Osiris* contouring device and various dosimetry instruments.
- Commissioned beam data and shielding blocks on the *Helax-TMS* planning system, implemented a CT-based method for craniospinal axis treatments, wrote software to perform independent checks of treatment parameters, and computerized dose calculations for checking treatment plans.
- Involved in teaching and training for therapy radiographers

Royal Marsden Hospital, UK **1994 - 1997**

Clinical RT Physicist (50% time)

- Carried out complex treatment planning, machine QA, TBI, dosimetry and patient contour measurement.
- Involved in the commissioning of a new wedge and beam data collection and processing for the *Target II* treatment planning system.
- Developed an automated system for processing TLD calibration readings and wrote *ISO9001* documents.

King's College Hospital, University of London, UK **1989**

Fixed-Term Project Physicist

- Involved in the commissioning of a gamma camera for SPECT.

TEACHING AND TRAINING

Miscellaneous courses **2006 - present**

- Lecturer on the *AFOMP Summer School* (Topic: Advances in Brachytherapy) (August 2021)
- Moderator on the *AFOMP Monthly Webinar* (Topic: Proton Therapy) (January 2021)
- Lecturer on the *Scientific Writing Courses for the University's PhD Students*, Shiraz University of Medical Sciences, Iran (2020, 2021)
- Lecturer on the *Biomedical Engineering Summer School*, Shiraz, Iran (2019)
- Lecturer on the *Faculty Training Fellowship in Research*, Shiraz University of Medical Sciences (annually, 2011-present)
- Organizer and Lecturer on the *Workshop on Article Submission to Scientific Journals*, Shiraz University of Medical Sciences (annually, 2019-present)
- Organizer and Lecturer on the *Workshop on How to Write an Original Article*, Shiraz University of Medical Sciences (annually, 2017-present)
- Organizer and Lecturer on the *Workshop on How to give an effective oral presentation*, Shiraz University of Medical Sciences (annually, 2015-present)
- Organizer and Lecturer on the *Workshop on How to give an effective poster presentation*, Shiraz University of Medical Sciences (annually, 2015-present)
- Lecturer on the Clinical Radiotherapy Physics training workshops *(Photon & Electron Dosimetry, Linac Commissioning & QA, Treatment Planning)* organized by the Iranian Association of Medical Physics (2014, 2015, 2017, 2019)
- Organizer and lecturer on *Radiation Measurement Instruments Workshop*, 5th International and 17th Iranian Congress of Nuclear Medicine, Shiraz, Iran (2013)
- Organizer and Lecturer on the *Workshop on Monte Carlo simulation and the MCNP package*, Shiraz University of Medical Sciences (2011, 2012, 2016, 2017, 2018)
- Organizer and Lecturer on the *International workshop on advances in radiotherapy physics and technology*, Shiraz University of Medical Sciences (2011)
- Lecturer on *IMRT* on the *Workshop on Prostate Radiotherapy*, Cancer Society of Iran, Iran (2010)
- Lecturer on a refresher course on *nuclear medicine and radiotherapy technologies*, Shiraz University of Medical Sciences, Iran (2010)
- Lecturer on a course on *radiation protection in radiotherapy*, Shiraz University of Medical Sciences, Iran (2009)
- Lecturer on various radiotherapy topics on the *Namazi Hospital Medical Physicists and Radiotherapy Technologists Continuing Medical Education program* (2008-present)
- Lecturer on various topics on the *theoretical and practical course in radiotherapy*, Tehran University of Medical Sciences, Iran (2008, 2010)
- Lecturer on *medical image registration* on the *Continuing Medical Education* program, 24th Iranian International Congress of Radiology, Shiraz, Iran (2008)
- Lecturer on the *physics of modern radiotherapy* on the *radiation oncology physics* course, Matlab Group Company, Tehran, Iran (2008)

Shiraz University of Medical Sciences, Iran **2006 - present**

- Lecturer and physics mentor in *Radiotherapy Physics* on the *Radiation Oncology Resident Training* programme
- Lecturer on *Advanced Radiotherapy Physics, Advanced Treatment Planning and Dose Calculation*, *Special Topics in Radiation Detection & Dosimetry, Dose-Response Models, Analytical and Monte Carlo Modelling,* and *Theory of Image Formation* on the Medical Physics PhD programme
- Lecturer on *Radiotherapy Physics (1 & 2)* and *Radiation Detection and Dosimetry* on the *MSc degree in Medical Physics*
- Lecturer on *Radiation Dosimetry*, *Clinical Radiobiology*, *Radiobiological Modelling* and *Codes and Models in Radiobiology,* as part of the *Radiobiology MSc* degree
- Organizer and presenter of workshops on *Radiotherapy Treatment Planning* and *Monte Carlo simulation*.
- Organizer and presenter of research-oriented workshops at the Research Consultation Center, e.g., *Scientific writing (3 levels)*, *Peer Review of Scientific Papers, Effective Oral and Poster Presentation Skills*, *Submission of manuscripts to journals,* and *Critical Appraisal*.

- Lecturer on *Scientific Writing* on the Master of Public Health degree programme
- Former lecturer on *Radiation Dosimetry and Protection in Practice, Radiation Shielding Design, Radiation Physics, Medical Image Quality,* and *radiobiological modelling,* as part of the *Radiobiology and Radiation Protection MSc* degree
- Former lecturer on the *Physics of Radiology* on the *Radiology Resident Training* programme
- Former lecturer on the annual *Radiation Protection* course for radiology specialists
- Former lecturer on *Radiotherapy Physics* on the *Radiology B.Sc*. degree
- Former lecturer on *Medical Physics* for medical, dentistry and pharmacy students

Shiraz University, Iran **2006 - present**

- Lecturer on the *Use of Imaging in Modern Radiotherapy, Advanced Radiotherapy Techniques* and *Advanced Dosimetry* as part of the *Medical Radiation PhD* degree
- Former Lecturer on *Planning and Calculation of Dose* as part of the *Medical Radiation MSc* degree
- Former Lecturer on *Radiation Detection and Dosimetry* as part of the *Medical Radiation MSc* degree
- Member of the PhD entrance and comprehensive examination and thesis review committees

Kingston University, UK **2001 - 2005**

- Lecturer on the *physics of treatment planning* as part of the *Therapeutic Radiography B.Sc.* degree

Institute of Cancer Research and Royal Marsden Hospital, UK **2001 – 2005**

- Lecturer and practical tutor, annual *course on radiotherapy physics*
- Lecturer and practical tutor, annual *IMRT in clinical practice* course
- Lecturer and practical tutor, *stereotactic radiosurgery* course
- Lecturer and practical tutor, *use of CT in treatment planning* course
- Practical tutor, *IPEM physicist training* programmes (both *Basi*c and *Higher*)
- Practical tutor, *RMH dosimetrist, radiation oncologist, and therapy radiographer induction training* programmes
- Practical tutor, *RMH therapy radiographer physics rotation* programme
- Direct involvement in teaching and training of visitors

STUDENT THESIS SUPERVISION (Completed Projects)

Shiraz University of Medical Sciences, Iran **2001 - present**

- *Medical Physics* or *Radiobiology & Radiation Protection MSc* project supervisor: 25
- Joint *Medical Physics* or *Radiobiology & Radiation Protection MSc* project advisor: 16
- *Radiation Oncology Residency* project advisor: 1
- *Research placement supervisor* for an overseas medical student: 1

Shiraz University, Iran

- *Medical Radiation PhD* project supervisor: 2
- *Medical Radiation MSc* project supervisor or advisor: 22

Shiraz University of Technology, Iran

- *Applied Mathematics MSc project* advisor: 2

Tehran University of Medical Sciences, Iran

- *Medical Physics PhD project* supervisor: 1

Iran University of Medical Sciences, Iran

- *Medical Physics PhD project* advisor: 1

Isfahan University of Medical Sciences, Iran

- *Medical Physics MSc project* supervisor: 1

Shahid Beheshti University of Medical Sciences, Iran

- *Radiobiology MSc project* advisor: 1

Ahvaz Jondishapour University of Medical Sciences, Iran

- *Medical Physics PhD project* advisor: 1
- *Medical Physics MSc project* advisor: 1

Rafsanjan University of Medical Sciences, Iran

- *Dentistry* project supervisor: 1

Institute of Cancer Research and Royal Marsden Hospital, UK

- *PhD* supervisor (Jointly with Tehran University of Medical Sciences): 1
- Joint *MD research project* supervisor: 3

PROFESSIONAL TRAINING AND CERTIFICATION

- *IPEM Higher Training Scheme in RT Physics* **1994 – 1999**
  - approved by an IPEM panel through written portfolios and oral examinations, leading to *Corporate Membership (MIPEM)* (equivalent to *ABR* certification).
- *IPEM Continuing Professional Development Programme* **2000 – present**
- *Registered Clinical Scientist (Medical Physicist)* by the UK *Health & Care Professions Council* **1999 – present**
- *Chartered Scientist (CSci)* by the UK *Science Council* **2005 – present**
- Faculty Training Fellowship in Medical Education **2009 (1 month)**

EDUCATION

PhD in Medical Physics **1992 - 1997**

Institute of Cancer Research, University of London, UK

Supervisors: Prof. W. Swindell, Prof. S. Webb

- *Taught module:* Included relevant physics, mathematics and statistics, introduction to cancer, and specialist electives on radiotherapy physics, medical imaging physics and Monte Carlo simulation
- *Thesis:* Design, construction and evaluation of a combined portal imaging device and cone-beam megavoltage CT scanner for verification of RT treatments.
  - Work included *EGS4* Monte Carlo simulations, total design and implementation of an optical Monte Carlo model, hardware and software design, synchronization of the detector to an accelerator, and evaluation of the system for different types of treatment verification.
  - Examiners: Prof. Marcel van Herk and Dr. Ian Cullum

MSc in Medical Physics **1990 - 1991**

University of Surrey, UK

- Broad range of medical physics courses.
- Thesis on ultrasonic tissue characterization in liver disease.

BSc (Honours) in Physics with Medical Applications **1986 - 1990**

King's College, University of London, UK

- Pure and applied physics courses.
- Thesis on optimization of imaging parameters in brain SPECT.

PUBLICATIONS

- 124 papers in peer-reviewed journals
- 187 conference talks and posters
- Sets of lecture notes on *Radiotherapy Physics* (Introductory, Intermediate, Advanced)

CITATIONS

- Papers cited in >50 English-language textbooks and >1600 peer-reviewed articles
- SCOPUS H-index: 22 (with self-citations), 21 (without self-citations)

MEMBERSHIP

- Corporate (Full) Member of the *Institute of Physics and Engineering in Medicine (IPEM, UK)*
- Full Member of the *Iranian Association of Medical Physics*
- Corresponding Member of the *American Association of Physicists in Medicine (AAPM)*
- Affiliate Member of the *European Society for Radiotherapy and Oncology (ESTRO)*
- Member of the *Iranian Radiographic Sciences Association*

PATENTS (joint)

- Disinfection of medical waste using solar energy
- High-density concrete containing datolite for radiation shielding
- High-density concrete containing colemanite and galena for radiation shielding
- 4D MRI lung phantom

AWARDS

- Full scholarship, Summer School on Medical Radiation Detectors, Oxford University, UK, 1993
- IPEM prize for "best poster on a medical physics topic", Roentgen Centenary Congress, UK, 1995
- "Best radiotherapy poster", World Radiography Day Conference, London, UK, 2005
- "Member of Faculty with a large number of citations in reference textbooks", Shiraz University of Medical Sciences award, 2008
- "Member of Faculty with a high *h-index*", Shiraz University of Medical Sciences award, 2008 & 2015
- IAEA travel award, 2009
- "High-ranking faculty member in the Medical School" (based on educational quality evaluation), Shiraz University of Medical Sciences, 2011 & 2012
- Waived registration fee award, Joint AAPM/COMP Meeting, Vancouver, Canada, 2011
- "Largest number of international conference presentations by a Member of Faculty", Shiraz University of Medical Sciences award, 2012
- IOMP travel award, 2013
- "Largest number of international conference oral presentations by a Member of Faculty", Shiraz University of Medical Sciences award, 2013
- "Exemplary Faculty Member of the Medical School in 2013", Shiraz University of Medical Sciences
- Senior author of the "best clinical dosimetry oral presentation", Siemens Radiotherapy Users Meeting, Mashhad, Iran, 2014
- Project supervisor for the "best oral presentation award" winner, Iranian Conference on Medical Physics, Tehran, 2014
- Research-based promotion, Shiraz University of Medical Sciences award, 2015
- "Elite researcher in Iranian medical sciences community (H-index > 15 without self-citation)", Ministry of Heath, 2018
- "Elite researcher in the Fars Province", Governor of Fars, Iran, 2019
- "Best oral presentation (radiotherapy)", 21st Asia-Oceania Federation of Organizations for Medical Physics (AFOMP) Congress, 2021

EDITORIAL WORK

- Member of Editorial Board
  - *International Journal of Radiation Research*
  - *Middle East Journal of Cancer*
  - *Iranian Journal of Medical Physics*
- Guest Associate Editor
  - *Medical Physics* (American Association of Physicists in Medicine)
- Former English Language Editor
  - *Iranian Journal of Medical Physics*
- Manuscript Reviewer
  - *Expert Systems with Applications (International)*
  - *Medical Physics (USA)*
  - *Radiotherapy & Oncology (European Soc. Rad. Oncol.)*
  - *European Journal of Medical Physics*
  - *British Journal of Radiology*
  - *Physics in Medicine and Biology (UK)*
  - *Clinical Oncology (UK)*
  - *Frontiers in Oncology (Switzerland)*
  - *Physical & Engineering Sciences in Medicine (Australia)*
  - *Cancer Management and Research (New Zealand)*
  - *Journal of Cancer Research and Therapeutics (India)*
  - *African Journal of Biotechnology*
  - *International Journal of Radiation Research*
  - *Middle East Journal of Cancer*
  - *Iranian Red Crescent Medical Journal*
  - *Iranian Journal of Medical Sciences*
  - *Iranian Journal of Medical Physics*
  - *Iranian Journal of Immunology*
  - *Journal of Biomedical Physics & Engineering (Iran)*
  - *Journal of Research in Medical Sciences (Iran)*
  - *Scientific Medical Journal (Iran), …*
- Conferences
  - *Scientific Secretary*
  - *Member of Scientific Committee* & *International Organizing Committee*
  - *Session Chairman*
  - *Member of Discussion Panel*
  - *Invited Speaker*

EXPERIENCE AND SKILLS SUMMARY

- 31 years post-MSc experience of working on clinical/research/teaching aspects of medical physics
- Experience of teaching at B.Sc., M.Sc., Ph.D., M.D., professional development and medical specialist courses and supervision of students, projects and work placements at all levels.
- Areas of research:
  - *Radiotherapy:* Treatment verification and IGRT, brachytherapy, clinical radiobiology, stereotactic RT, paediatric RT, IMRT, Monte Carlo simulation, dosimetry, radiation protection
  - *Imaging:* Detector development and optimization, multi-modality image registration, analytical and Monte Carlo model development, electronic portal imaging, cone-beam CT, PET-CT, SPECT
- Clinical experience in conventional and conformal RT including:
  - equipment commissioning and calibration
  - QA of treatment machines, simulators, CT scanners, planning systems and dosimetry equipment
  - dosimetry of MV and kV x-rays, electrons and γ-rays, and TLD and diode dosimetry
  - inter-departmental dosimetry audits
  - stereotactic RT and radiosurgery
  - 3D/IMRT/brachytherapy/tomotherapy treatment planning *(Pinnacle, Oncentra EXB, Oncentra Brachy, Helax TMS, Eclipse, CadPlan, XKnife, Target, Panther, SagiPlan, Precision)*
  - beam data acquisition and analysis
  - treatment verification (EPIDs, megavoltage CT, IMRT verification)
  - TBI, brachytherapy (LDR, HDR, Iridium wire), radionuclide therapy
- Research grants for capital equipment (UK) and medical research (Iran).
- Programming in *C, Visual Basic, FORTRAN, MATLAB* and *Pinnacle script language*
- Computing experience with *DOS, Windows, UNIX* and *VMS* on *PCs, SUNs, IBM RS6000s* and *VAXes*.

PAPERS IN PEER-REVIEWED JOURNALS

1. Zarrini-Monfared Z, Karbasi S, Zamani A, Mosleh-Shirazi MA. "Full modulation transfer functions of thick parallel-and focused-element scintillator arrays obtained by a Monte Carlo optical transport model." ***Medical Physics***. (2023) Feb 13.
2. Kanani A, Owrangi A, Yazdi M, Fatemi-Ardekani A, Mosleh-Shirazi MA. "Development of a multi-purpose quality control phantom for MRI-based treatment planning in high-dose-rate brachytherapy of cervical cancer." ***J. of Contemporary Brachytherapy***;**15**(1). (2023)
3. Rashidfar R, Karbasi S, Mahdavi M, Mosleh-Shirazi MA. "Dosimetric characteristics of the LIAC intraoperative radiotherapy beams: Assessment of sensitivity to measurement errors at the commissioning phase." ***Radiation Physics and Chemistry;*** **205**:110737. (2023)
4. Kanani A, Yazdi M, Owrangi AM, Karbasi S, Mosleh-Shirazi MA. "Metal artifact reduction in cervix brachytherapy with titanium applicators using dual-energy CT through virtual monoenergetic images and an iterative algorithm: A phantom study." ***Brachytherapy***.21(6):933-42.(2022)
5. Ketabi A, Karbasi S, Faghihi R, Mosleh-Shirazi MA. "A phantom-based experimental and Monte Carlo study of the suitability of in-vivo diodes and TLD for entrance in-vivo dosimetry in small-to-medium sized 6 MV photon fields," ***Radiation Physics and Chemistry*** **201**, 110411, https://doi.org/10.1016/j.radphyschem.2022.110411 (2022)
6. Mosleh-Shirazi M.A., Sheikholeslami A., Fathipour E., Mohammadianpanah M., Ansari M., Karbasi S., Hamedi S.H., Khanjani N., Sasani M.R., Jafari P., Fardid R. "Equivalent uniform dose and normal tissue complication probability of acute esophagitis in head-and-neck radiotherapy: Sensitivity to dose calculation accuracy," ***Int. J. Radiat. Res 20***(2): 447-454, https://doi.org/10.52547/ijrr.20.2.28 (2022)
7. Farahani, S., Mosleh-Shirazi, M.A., Riyahi Alam, N., Rabi Mahdavi, S., Raeisi, F. "Global and spatial dosimetric characteristics of N-vinylpyrrolidone-based polymer gel dosimeters as a function of medium-term post-preparation and post-irradiation time," ***Radiation Physics and Chemistry*** **198**, https://doi.org/110280 10.1016/j.radphyschem.2022.110280 (2022)
8. Abbasi, S., Tavakoli, M., Boveiri, H.R., Mosleh-Shirazi, MA., Khayami, R., Khorasani, H., Javidan, R., Mehdizadeh, A. "Medical image registration using unsupervised deep neural network: A scoping literature review," ***Biomed Signal Processing and Control*** **73**:103444, https://doi.org/10.1016/j.bspc.2021.103444 (2022)
9. Mosleh-Shirazi, M.A., Rashidfar, R., Karbasi, S., Pashnehsaz, M., Mahdavi, M. "Independent validation of a dedicated commissioning software and investigation of the direction dependence of the field symmetry for the LIAC intraoperative electron radiotherapy accelerator," ***Radiation Physics and Chemistry*** **186**, 109529, https://doi.org/10.1016/j.radphyschem.2021.109529 (2021)
10. Mosleh-Shirazi MA, Nasiri-Feshani Z, Ghafarian P, Alavi M, Haddadi G, Ketabi A. "Tumor volume-adapted SUV_N as an alternative to SUV_{peak} for quantification of small lesions in PET/CT imaging: a proof-of-concept study." ***Jpn J Radiol.*** **39**(8):811-823. https://doi.org/10.1007/s11604-021-01112-w (2021)
11. Mosleh-Shirazi, M.A., Amiri, M., Haghighi, R.R., Mahdavi, M., Zarei, F. "Independent evaluation and comparison of digital radiography image quality in nine major imaging centers affiliated to Shiraz University of Medical Sciences," ***Int J of Radiation Research*** **19(**2), pp. 269–279, https://doi.org/10.18869/acadpub.ijrr.19.2.269 (2021)
12. Fardid, R., Rezaei, H., Mirzadeh, F., Mosleh-Shirazi, M.A., Saeedimoghadam, M., Sina, S., Delavarifar, S., Salajegheh, A. "Evaluation of Correlation between DAP (Dose-Area Product) Values and Cardiologist Dose during Coronary Angiography Using Monte Carlo Simulation," ***Iran. J. of Medical Physics*** **18**(5), pp. 306–313, https://doi.org/10.22038/IJMP.2020.46707.1742 (2021)
13. Zare A, Fardid R, Tamadon GHH, Mosleh-Shirazi MA. "miR-155, miR-21, and let-7a Expressions in MCF-10A and MCF-7 Cell Lines after Low to High Dose Irradiation," ***Cell J.*** **23**(5):532-537. https://doi.org/10.22074/cellj.2021.7411. (2021)
14. Bahmani T, Sharifzadeh S, Tamaddon G, Farzadfard E, Zare F, Fadaie M, Alizadeh M, Hadi M, Ranjbaran R, Mosleh-Shirazi MA, Behzad-Behbahani A. "Mitochondrial targeted peptide (KLAKLAK)2, and its synergistic radiotherapy effects on apoptosis of radio resistant human monocytic leukemia cell line," ***J Biomed Phys Eng*****.** **11**(2):229-238. https://doi.org/10.31661/jbpe.v0i0.905 (2021)
15. Taeb, S., Mosleh-Shirazi, M.A., Ghaderi, A., Mortazavi, S.M.J., Razmkhah, M. "Radiation-induced bystander effects of adipose-derived mesenchymal stem cells," ***Cell J.*** **23**(6), pp. 612–618, https://doi.org/10.22074/cellj.2021.7522 (2021)
16. S Taeb, MA Mosleh-Shirazi, A Ghaderi, SMJ Mortazavi, M Razmkhah. "Effects of gamma radiation on adipose-derived mesenchymal stem cells of human breast tissue." ***Int. J. of Radiation Research 19*** (1): 175-182, https://doi.org/10.18869/acadpub.ijrr.19.1.175 (2021)
17. Kanani A., Owrangi AM, Mosleh-Shirazi MA. "Comprehensive methodology for commissioning modern 3D-image-based treatment planning systems for high dose rate gynaecological brachytherapy: A review." ***Physica Medica*** **77**:21–29, https://doi.org/10.1016/j.ejmp.2020.07.031 (2020)
18. Khademi B, Safari S, Mosleh-Shirazi MA, Mokhtari M, Chenari N, Razmkhah M. Therapeutic effect of adipose-derived mesenchymal stem cells (ASCs) on radiationinduced skin damage in rats. ***Stem Cell Investig***; **7:**12. https://doi.org/10.21037/sci-2019-045 (2020)
19. Kadivar F, Haddadi G, Mosleh-Shirazi MA, Khajeh F, Tavasoli A. "Protection effect of cerium oxide nanoparticles against radiation-induced acute lung injuries in rats." ***Rep Pract Oncol Radiother.*** **25**(2):206-211. https://doi.org/10.1016/j.rpor.2019.12.023 (2020)
20. Mortazavi SMJ, Aminiazad F, Parsaei H, Mosleh-Shirazi MA. "An artificial neural network-based model for predicting annual dose in healthcare workers occupationally exposed to different levels of ionizing radiation." ***Radiat Prot Dosimetry.*** Feb 26:ncaa018. https://doi.org/10.1093/rpd/ncaa018 (2020)
21. Daneshvar F, Salehi F, Karimi M, Vais RD, Mosleh-Shirazi MA, Sattarahmady N. "Combined X-ray radiotherapy and laser

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CONFERENCE TALKS AND POSTERS:

1. M.A. Mosleh-Shirazi, "Modelling the Transport of Scintillation Photons for Optimization of Imaging Systems in Radiotherapy Guidance." *22nd Asia-Oceania Congress of Medical Physics (AOCMP)*, Taipe, Taiwan (2022) (invited)
2. M.A. Mosleh-Shirazi, A. Kanani, A.M. Owrangi, M. Yazdi, "Design, Construction and Assessment of a Comprehensive Quality Assurance Phantom for MRI-Based Treatment Planning in High Dose Rate Cervix Brachytherapy." *22nd Asia-Oceania Congress of Medical Physics (AOCMP)*, Taipe, Taiwan (2022)
3. Mosleh-Shirazi MA, Farahani S, Riyahi Alam N, Raeisi F, Mahdavi SR, "Influence of Post-synthesis and Post-irradiation Times on Dosimetric Properties of a VIPET-type Gel Dosimeter," *21st Asia-Oceania Congress of Medical Physics (AOCMP)*, Dhaka, Bangladesh (2021)
4. Ebrahimi M, Mahdavi M, Lotfi M, Mosleh-Shirazi MA, "Hounsfield Unit Calibration for Radiotherapy Treatment Planning Using an In-house Phantom and a Stoichiometric Algorithm: Improved Accuracy Compared to the Conventional approach," *21st Asia-Oceania Congress of Medical Physics (AOCMP)*, Dhaka, Bangladesh (2021)
5. Z Ahmadi Ganjeh and M A Mosleh-Shirazi, "Variations in relative biological effectiveness of protons estimated using two computational models," *International Conference on Biomathematics*, Damghan, Iran (2021)
6. A Sheikholeslami, E Fathipour, M Ansari, M Mohammadianpanah, S Karbasi, S H Hamedi, N Khanjani, M R Sasani, P Jafari, R Fardid, M A Mosleh-Shirazi, "Influence of dose calculation accuracy on model predictions of radiotherapy-induced Esophagitis," *International Conference on Biomathematics*, Damghan, Iran (2021)
7. M A Mosleh-Shirazi, R Rashidfar, S Karbasi, M Pashnehsaz, M Mahdavi, "The LIAC 12 MeV intraoperative electron radiotherapy unit: Bi-directional assessment of field symmetry and independent evaluation of the SWL-LIAC simulation software," *Annual Meeting of the American Association of Physicists in Medicine*, USA (Virtual), Med. Phys. 48(6): SU-IePD-TRACK 6-03 (interactive e-poster discussion) (2021)
8. MA Mosleh-Shirazi, "Medical Physics in Iran," *Association of Iranian Medical Physicists (North America) webinar* (2020) (invited)
9. MA Mosleh-Shirazi, "IGRT: Targeting cancer with safety," *IMRT Indications, Uncertainties and Concerns Seminar*, Mashhad, Iran (2019) (invited)
10. MA Mosleh-Shirazi, "Imaging-based accuracy requirements and uncertainties in radiotherapy," *First IMRT Seminar*, Erfan Niayesh Hospital, Tehran, Iran (2019) (invited)
11. MA Mosleh-Shirazi, "Role of QA in Radiotherapy," *IAEA IMRT Workshop*, Tehran, Iran (2019) (invited)
12. MA Mosleh-Shirazi, "Radiobiological Modelling of the Probability of Normal Tissue Damage in Radiotherapy," *Third Int. Clinical Oncology Congress*, Tehran, Iran (2018) (invited)
13. MA Mosleh-Shirazi, "Feasibility of Ion Therapy in Iran," *First Seminar on the Status & Emerging Role of Particle Therapy in Oncology*, Tehran, Iran (2018) (invited)
14. MA Mosleh-Shirazi, "Recent advances in radiotherapy of female-specific cancers." *7th Int. Conference on Women's Health*, Shiraz, Iran (2018) (invited)
15. MA Mosleh-Shirazi, E Fathipour, M Ansari; M Mohammadianpanah, MR Sasani, P Jafari, SH Hamedi, MR Sasani, H Nasrollahi, A Mosalaei, S Omidvari, N Ahmadloo, A Amraee. "Acute esophagitis and swallowing dysfunction in head-and-neck radiotherapy: Evaluation of dose-response and NTCP model parameters," *World Congress on Medical Physics and Biomedical Engineering*, Prague, Czech Republic, 1055 (2018)
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31. M.A. Mosleh-Shirazi, "The use of linear accelerators in modern radiation therapy of cancer," *Third Iranian Particle Accelerator Conference*, Esfahan, Iran (2017) (invited)
32. M.A. Mosleh-Shirazi, F. Arianfard, S. Karbasi, S. Mousavi. "Quantification of skin dose and beam attenuation for the iBEAM couch and Compact accelerator," *36th Annual ESTRO Conference,* Vienna, Austria, ***Radiother. Oncol.*** (Suppl 1) (2017)
33. M.A. Mosleh-Shirazi. "Image guidance in modern radiotherapy: Some new aspects," *The Second National Conference on Optimisation in Radiotherapy*, Mashhad, Iran (2017) (invited)
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