

Maryam Khorramizadeh

Mkhorami76@yahoo.com



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Research Interest

- Treatment planning optimization
- Intensity Modulated Radiation Therapy
- 3-D dosimetry
- High precision radiotherapy (including SABR AND VMAT)
- Experimental radiobiology, biological modelling of tumor and normal tissue dose responses

Education

- **Ph.D., Medical Physics, Ahvaz Jundishapour University of Medical Sciences, Ahvaz, Iran (2010-2016)**
 - The top student, GPA: 4 (4)
 - Thesis Title: “Evaluation of IMRT hypofractionation effectiveness for eradication of renal cell carcinomas in vitro.”, the received grade: 4 (4)
- **M.S., Medical Physics, Isfahan University of Medical Sciences, Isfahan, Iran (2008-2010)**
 - ❖ The top student, GPA: 4 (4)
 - ❖ Thesis Title: “Monte Carlo and Dosimetric Evaluation of the Eye Shields Used in Electron Beam Treatment”, the received grade: 4 (4)
- **B.S., Medical Radiologic Technology, Shiraz University of Medical Sciences, Shiraz, Iran (2002-2004)**
 - ❖ The top student, GPA: 3.89 (4)
- **Associates Degree, Medical Radiologic Technology, Isfahan University of Medical Sciences, Isfahan, Iran (2000-2002)**
 - ❖ The top student, GPA: 4 (4)

Publications

- Peer-reviewed journal articles

- ❖ Mobarakeh ZIP, Nickbakht M, Sabbagh S, **Khorramizadeh M**, Amiri M. Relationship between Hearing Loss Risk Factors and Hearing Screening Results in Newborns: A Retrospective Cross-Sectional Study. *OBM Genetics*.2023; 07:184
- ❖ Behzadifard M, Aboutaleb N, Dolatshahi M, **Khorramizadeh M**, Mirshekari Jahangiri H, Kord Z, Nazarinia D. Neuroprotective Effects of Conditioned Medium of Mesenchymal Stem Cells (MSC-CM) as a Therapy for Ischemic Stroke Recovery: A Systematic Review. *Neurochem Res*. 2023 May;48(5):1280-1292. doi: 10.1007/s11064-022-03848-x.
- ❖ Mazaheri M, **Khorramizadeh M**, Rezai-Rad M, Mard-Soltani M. Using social prescribing by Iranian medical students: a step towards community-orientation and social determinants of health by revising the health internship curriculum. *BMC Med Educ*. 2022 Sep 5;22(1):661. doi: 10.1186/s12909-022-03718-8.
- ❖ Sabbagh S, Amiri M, **Khorramizadeh M**, Iranpoumobarake Z, Nickbakht M. Neonatal Hearing Screening: Prevalence of Unilateral and Bilateral Hearing Loss and Associated Risk Factors. *Cureus*. 2021 Jun 26;13(6):e15947. doi: 10.7759/cureus.15947.
- ❖ **Khorramizadeh M**, Saberi A, Tahmasebi-Birgani M, Shokrani P, Amouhedari A. Impact of Prolonged Fraction Delivery Time Modelling Stereotactic Body Radiation Therapy with High Dose Hypofractionation on the Killing of Cultured ACHN Renal Cell Carcinoma Cell Line. *J Biomed Phys Eng*. 2017 Sep 1;7(3):205-216.
- ❖ **Khorramizadeh M**, Saberi A, Tahmasebi-Birgani M, Shokrani P, Amouhedari A. Effect of Temporal Pattern of Radiation in Intensity Modulated Radiotherapy on Cell Cycle Progression and Apoptosis of ACHN Renal Cell Carcinoma Cell Line. *Pak J Biol Sci*. 2016;19(8-9):315-322. doi: 10.3923/pjbs.2016.315.322.
- ❖ **Khorramizadeh M**, Saberi S. A. H., Shokrani, P., Tahmasebi-Birgani, M. J., Hejazi, S. H., Amouhedari, A. R. Evaluating the Effectiveness of Small Fractionation Radiotherapy Regimens on the ACHN Renal Cell Carcinoma Cell Line. *Journal of Isfahan Medical School*, 2015; 33(328): 400-409.
- ❖ Shokrani, P., Baradaran-Ghahfarokhi, **M.**, **Khorramizadeh M**. A Suitably Designed Lip Applicator for Radiation Therapy of Lips Carcinoma. *Journal of Isfahan Medical School*, 2014; 32(297): 1310-1318.
- ❖ Shokrani P, Baradaran-Ghahfarokhi M, **Khorramizadeh M**. A novel approach in electron beam radiation therapy of lips carcinoma: a Monte Carlo study. *Med Phys*. 2013 Apr;40(4):041720. doi: 10.1118/1.4795756. PMID: 23556890.

- **Submitted or In-revision Peer-reviewed journal articles**

- ❖ **Maryam Khorramizadeh**, Nilofar Banazadeh, Manouchehr Ghasemi, Aziz Kassani , Zahra Arab-bafrani and Zaynab Kord*. Comparison of the cytotoxicity in vitro of temozolomide and Oridonin combined with X-irradiation on U87MG Glioma cancer cell line
- ❖ **Maryam Khorramizadeh**, Mina Cheshmberah, Marzieh Anaam, Aziz Kassani , Behnaz.Deihim and Zaynab Kord*. The radiosensitivity effect of Urtica dioica leaf aqueous extract on the killing of cultured U87MG glioma cell line.

- ❖ **Maryam Khorramizadeh**, Mohammadreza Khademi, Mona Taheri, Manouchehr Ghasemi and Zaynab Kord. Clinicopathological Features Single Hormone Receptor-Positive Breast Cancer: A single institution survey from 2015 to

Honor and Awards

- **The second prize**, the 14th Iranian Conference on Health Professions Education, was awarded for Innovative activity (developmental) and educational research in the Curriculum planning domain (2021)
- **Top Educator of the Year Award**, Dezful University of Medical Science, Dezful, Iran (2018)
- **Ranked 1st** among all Ph.D. students in Medical Physics at Ahvaz Jundishapour University of Medical Sciences (2010-2016)
- **Ranked 1st** among all M.S. students in Medical Physics at Isfahan University of Medical Sciences (2008-2010)
- **Ranked 1st** among all B.S. students in Medical Radiologic Technology at Shiraz University of Medical Sciences (2002-2004)

Patent

- **The special applicator for increasing the dose in the radiotherapy method of lip carcinoma**, (2013)

Teaching Service

- **Lecturer: Dezful University of Medical Sciences, Dezful, Iran (2017-present)**
Lecturer for the following courses:
 - ✓ Medical Physics for Medical, Nurse anesthetist, surgical technologist, and medical laboratory technologist students
 - ✓ Biophysics for Health Students

- **Students Mentored**

- ❖ **The supervision medical students' thesis entitled:**

- ✓ The radiosensitivity effect evaluation of Urtica dioica leaf extract on U87MG glioma cancer cells (2019)
 - ✓ The Radio-sensitivity Effect comparison of Oridonin to temozolomide on U87MG Glioma cancer cell line(2019)
 - ✓ A comparative study of the efficacy and toxicity induced by palliative radiotherapy in patients with head and neck cancer: a systematic review study(2020)
 - ✓ Evaluation of clinicopathological characteristics of the hormone receptors breast cancer in women referred to Imam Hassan Mojtaba Radiotherapy Center in Dezful(2021)

Certifications

- The Certification of Clinically Qualified Medical Physicist from Ahvaz Jundishapour University of Medical Sciences (2014-2016)
- The Certification of advanced training course on medical center radiation protection (2016)

Skills and Expertise

- **Technical skills**

- ❖ SPSS
 - ❖ Microsoft Office
 - ❖ End not
 - ❖ EGSnrc, BEAMnrc, DOSEXYZnrc simulation

- **Clinical Skills**

- ❖ Absolute and relative dosimetry
 - ❖ Environmental radiation monitoring (geiger muller counter and Ion chamber)
 - ❖ 3D Treatment Planning
 - ❖ Radiobiological calculations in routine radiotherapy

- **Laboratory skills**

- ❖ Cell culture
 - ❖ Apoptotic assay
 - ❖ cell cycle distribution assay
 - ❖ MTT assay

- **Teaching skills**

- ❖ Flipped classroom
 - ❖ role play
 - ❖ Small Group Instruction

- **Language skills**
 - ❖ fluent in both English and Farsi
- **Other skills**
 - ❖ problem-solving
 - ❖ Adaptability
 - ❖ teamwork

Employment History

- **Academic Appointments**
 - ❖ Assistant Professor, Department of Medical Physics, Dezful University of Medical Science, Dezful, Iran (2017-present)
- **clinical Employment**
 - ❖ Radiation Physicist, Imam Hassan radiotherapy center, Dezful, Iran (2016-2017)
 - ❖ Health Physicist, Imam Hassan radiotherapy center, Dezful, Iran (2016-2017)
 - ❖ Physics Assistant, Imam Hassan radiotherapy center, Dezful, Iran (2014-2016)
 - ❖ Radiologic Technologist, Ganjavian Hospital, CT Scan Ward, Dezful, Iran (2005-2008)
- **Professional Society Membership**
 - ❖ General Member, Iranian Organization of Medical Physicists (IOMP) (2017-present)

Administrative Service

- **Institutional Service**
 - ❖ The manager of the Educational Development Office(EDO), Medical School, Dezful University of Medical Science, Dezful, Iran (2017-2019)
 - ❖ The manager of the Medical Accreditation Committee, Medical School, Dezful University of Medical Science, Dezful, Iran (2018-2020)

- ❖ The manager of the health Physics, Dezful University of Medical Science, Dezful, Iran (2023-up to now)