Curriculum Vitae

Personal Data:

First name: Parinaz



Last name: Mehnati Nationality: Iranian Date of birth: 1971/09/06 Place of birth: Iran Marital status: Married Specialty: Medical Physics Academic rank: Professor Department/Research Center: Medical physics Position hold: Head of Department, Radiobiology laboratory director Address (Office): Tabriz University of Medical Sciences, School of Medicine (TUOMS), Tabriz, Iran *Telephone (Office): 04133364660* Fax (Office): 04133364660 Cell Phone: 09143134485 E-mail: parinazmehnati@yahoo.com h-index (Scopus): 11

ORCID ID: 0000-0003-4398-6984 Scopus ID: https://www.scopus.com/authid/detail.uri?authorId=6506940137 Researcher ID: L-6966-2017 **ORCID:** https://orcid.org/0000-0003-4398-6984

Radiation Protection in imaging, Designing of novel radiation shields, Radiobiology

Skills: (language, software...)

Language: English, Persian, Turkey, Japanese

Educational Background:

Date	Degree	Institution	Country
2000	PhD	Medical Biophysics department, Kyushu University	Japan
1997	MS	Medical Biophysics department, Kyushu University	Japan
1995	BSc	Tabriz University of Medical sciences	Iran

Sabbaticals:

Start and End Date (month/year)	Details

Thesis

Degree	Title
PhD	Cell proliferation delay after High and Low LET ionizing radiation including X-rays and Heavy-ions.
MS	Investigation on the relation between LET and Interphase cell death in exposed cells to Heavy-ions

Educational experience Teaching

Date (month/year)	Course Name, Venue (Institution, Address)
Sept. 2002 – present	Medical Physics for students of Medicine
Sept. 2010-present	Radiobiology for students of MSc in Medical Physics
Sept. 2010-present	Radiation protection for students of MSc in Medical Physics
Sept. 2002 – present	
	General Physics (Laboratory experiments) for students of BSc
	in Radiology Technology, Laboratory sciences, Nutrition
	sciences, general health, etc.

Workshop(s)		
Date (month/year)	Course Name, Venue (Institution, Address)	
2023	Conference on new medical sciences and technologies	
November 2023	One day Novel Medical Radiation Protection conference	
August 2023	One day Novel Medical Radiation Protection conference	
August 2023	One day Novel Medical Radiography conference	
October 2023	Training course for university professors across the country titled "Accompanying the Wise 2"	
June 2023	AFOMP school virtual webinar on "Invivo imaging and Dosimetry for patient QA"	
June 2023	Internationalization workshop	
May / 2023	Conference on productivity and consumption optimization in the health system	
2019/April	Radiobiology and Radio-protection	
20192019/April	Radioprotection in woman, Pregnant, paediatric	
20192019/April	Radiation protection in diagnostic radiology	
2017/October	Radiobiology and Radio-protection	
2017/October	Radioprotection in woman, Pregnant, paediatric	
2017/October	Radiation protection in diagnostic radiology	

Lecture(s)	
Date (month/year)	Details
2024 May 7-10	39th Iranian Congress of Radiology
2023 November 8-9	Parinaz Mehnati, Hamed Zamani, Majid Alizade, Mohammad Hossein Zare The 6 th international TPCF preclinical imaging symposium
	A regional effective dose, risk of exposure-induced death, and annual per capita dose in diagnosis radiology procedures
2023 https://www.icrjournal.ir/article_179488.html	<u>Parinaz Mehnati</u> ¹ <u>Raziyeh Mohammadi</u> ² 38 Iranian Congress of Radiology Determining of the Amount of the Radiation Damage Risk Reduction Using Nanoparticles
2023 https://www.icrjournal.ir/article_179490.html	Composite <u>Parinaz Mehnati ¹ Mahdi Mansoori Kia</u> ² 38 Iranian Congress of Radiology Prevention of Radiation Damages Using Bismuth- epoxy Composite
2021 https://civilica.com/doc/1274832	Parinaz Mehnati 1, Abbasali Nazeri2, Reza Malekzadeh3, Soheila Refahi. 2nd International Conference on Nanotechnology & Nanoscience Evaluation of composite shields against electromagnetic radiation in medical imaging
November and December 2018 Doi: <u>10.22038/IJMP.2018.13030</u>	Faride Biglari; Parinaz Mehnati; Ali Jomehzadeh, 12th. Iranian Congress of Medical Physics, Interpretation of In-air Output Ratio of Wedged Fields in Different Measurement Conditions
November and December 2018 Doi: <u>10.22038/IJMP.2018.12845</u>	Mohammad Yousefi Sooteh; Parinaz Mehnati; Reza Malekzadeh, 12th. Iranian Congress of Medical Physics,

	Usefulness of nanoparticles to making shield
	and protection of sensitive organs in chest CT
	scan test
November and December 2018	Reza Malekzadeh; Parinaz Mehnati; ta Allah
Doi: <u>10.22038/IJMP.2018.12809</u>	Nadiri; Yaser Bagheri; Hadi Sabri; Reza
	Meynagi Zadeh Zargar; Mahak Osuli, 12th.
	Iranian Congress of Medical Physics,
	Prediction of solar ultraviolet intensity by using
	Fuzzy Logic in the north-west of Iran
<i>November and December 2018</i> <i>Doi: <u>10.22038/IJMP.2018.12079</u></i>	Parinaz Mehnati; Samad Ghasemi; Mohammad Reza Ardalan; Fariba Mahmood
	Poor,
	Organ dose in kidney imaging with contrast
	media
2018/5/1-3	P. Mehnati , Farzaneh Asaldoust, Saleh Ashrafi,
May	Davood Alizadeh.
	Radio Worker Beta Ray Detection via Bremsstrahlung X- Ray Measurement, 16 th congress of IRSA.
2018	Mehnati P, Maryam Ghorbanipoor, Asghar
DOI: 10.22038/IJMP.2018.12945	Mesbahi, Behnam Nasiri Motlagh, Mohammad
	Mohammadzadeh
	A study on the esophageal cancer radiotherapy
	effects on the patient's lung health.
2018	Parinaz Mehnati, Bahman Alipour, Roya Salehi
DOI:10.22038/IJMP.2018.13082	Change of Hemoglobin Concentration with
	nano particles can predict breast cancer using
	near infrared source?
DOI.10.22038/IJMP.2018.13033	P. Mehnati, Vahid Doostmohammadi, Ali
	jomehzadeh
	Rn – 222 Concentration and Gamma Dose
	Rate Measurements in the Vicinity of Hot
	Springs in Kerman Province,
	Southeastern,Iran
	1

2018/5/1-3	P. Mehnati , Fariede Biglarie, Ali Jome zade.
May	
,	An investigation of collimator scatter factor with variations of ionization chambers
	thickness and type of build-up caps in the
	wedged fields for 6 MV photon beams, 16 th
	congress of IRSA.
2018/7/19-20	P. Mehnati, Mohammad Yusefi Sute, Reza
July	Malek zadeh.
	Usefulness of Nano Particles to making Shield
	and Protection of Sensitive Organs in chest CT scan tests. 12 th Iranian congress of Medical
	Physics
2018/7/19-20	P. Mehnati, Mohammad Yusefi Sute, Reza
July	Malek zadeh, Ali Tarigat Nia, Yagub
	Breast Radiation Protection in coronary
	Angiography. 12 th Iranian congress of Medical <i>Physics</i>
-20	P. Mehnati, Reza Malek zadeh, Hadi Sabri,
	Reza Meinagi Zargar, Mahak ousuli.
	Ground Based Measurements of sola UV index in Tabriz. 12 th Iranian congress of Medical
	Physics.
2018/7/19-20	P. Mehnati, Reza Malek zadeh, Ata allah
July	Naderi, Mohammad Yusefi, Hadi Sabri, Reza
	Meinagi Zargar, Mahak Ousuli.
	Prediction of solar ultraviolet intensity by
	using fuzzy logic in the north- west of Iran. 12 th
2018/5/1-3	Iranian congress of Medical Physics P. Mehnati , Mohammad Yusefi Sute, Reza
May	Malek zadeh.
	Investigation on the Micro and NANO Particles shields for Radiation Protection. 16 th
	congress of IRSA, Tehran
2018/5/1-3	P. Mehnati, Mohammad Yusefi Sute, Reza
Мау	Malek zadeh, Samad Gasemi. Evaluation of the
	Bismuth Radiation Protection Efficacy for clinical imaging . 16 th congress of IRSA, Tehran.
2018	Reza Malek zadeh., P. Mehnati , Hadi Sabri,
	Reza Meynagi Zadeh Zargar
	Estimated ultraviolet exposure levels for a
	sufficient vitamin D status in northwestern
	Iran.
	DOI: 10.22038/IJMP.2018.12804
<u> </u>	

2018	Reza Malek zadeh., P. Mehnati, Ata Allah
	Nadiri, Yaser Bagheri, Hadi Sabri, Reza
	Meynagi Zadeh Zargar, Mahak Osuli
	An artificial neural network to predict solar UV
	radiation in Tabriz
	DOI: 10.22038/LIMP.2018.12803
	DOI: 10.22030/131/11.2010.12003
2018/5/1-3	P. Mehnati , Mohammad Yusefi Sute, Reza
May	Malek zadeh, Samad Gasemi.
	Chest CT Radio – Protection by Bismuth
	Shield. 16 th congress of IRSA., Tehran.
September 2017	Reducing Breast cancer induction risk
	from chest CT scanning exams. Parinaz
	Mehnati, Reza Malekzadeh*.
	International Tehran Breast Cancer
	Congress., Tehran, Iran
(22-24 February2017)	P. Mehnati, Mehran Arash, Mostafa
	Ghavami.
	Breast cancer risk decline in women CT scan using Bismuth Polyurethane shield, the 12 th
2017/5/9-11	International Breast cancer Congress. P. Mehnati , S Gasemi.
Мау	Study of patient dose during intravenous
	urography in Tabriz: Estimated by Monte
	Carlo simulation method . 14 th congress of
	IRSA, 13-16 May, 2015
2017/5/9-11	Treatment efficiency after exposure of CHO
Мау	<i>cells to 6 Gy at different post irradiations time with measuring of apoptotic cells.</i> 14 th <i>congress of IRSA.</i>
2017/5/9-11	Parinaz Mehnati, Salehi.
Мау	The S and G2-M phase variation after
	exposure to 2 Gy Y-ray at different time
	post radiation. 14 th congress of IRSA
2017/5/9-11	Parinaz Mehnati, Vida Sargazi,
Мау	Investigation of breast dose in thoracic CTscan by axial and spiral scanning modes in Single and multi-detector CT scan. 14 th congress of

	IRSA.
2017/5/9-11	Parinaz Mehnati, Mehran Arash, Mostafa
Мау	Ghavami, Mohammad Sadegh Zakerhamid,
muy	Radiation dose of breast decreased by using
	bismuth silicone shield in chest CT scan. 14^{th}
	congress of IRSAتهران
2016/5/18-20 May	P. Mehnati, Farhood Fahima.
Muy	معرفی راهکاری برای تشخیص زود هنگام بیماری
	های پستان"
	پنجمین کنفرانس سلامت زنان ایران، سرطان در زنان ،
	(مرکز رفاهی ولایت، شیراز ـ
2016/5/18-19	P. Mehnati.
May	Reduction of breast cancer risk using
	bismuth-silicone shield- 5 th International
	conference of women health
13-16 May, 2015	Mehnati P, Maede Jafari.
	Radiologic diagnostic assays in woman
	breast cancer: a comparison on the
	sensitivity and specify of optical
	mammography and MRI.
	12 th congress of IRSA,
13-16 May, 2015	Mehnati P, Maede Jafari, Radiologic
	diagnostic assays in woman breast cancer: a
	comparison on the sensitivity and specify of mammography and ultrasound, 12 th congress of
	IRSA.
13-16 May, 2015	Mehnati P.
	Radiation protection in new modalities in
	<i>imaging.</i> 12 th congress of IRSA
13-16 May, 2015	Mehnati P, Maede Jafari.
	Imaging properties of near infra read photons
	<i>in normal and cancer cells</i> , 12 th congress of
	IRSA
(20,21 May 2015)	P. Mehnati, leili Danaei.
	Evaluation of chest CT in women with age
	segregation and stochastic effects on the breast.
	4 th Iranian International conference on Women's
	health, Shiraz – Iran

13-16 May- 2014	Mehnati P, Reza Dadgar.
	Investigation of breast dose in chest CT
	12th congress of the Iranian Radiographic
	sciences association,
	sciences association,
13-16 May- 2014	P. Mehnati, Rana Farshbaf, Habiballah
	Dadgar.
	18F- FDGPET IN
	MEDULLOBLASTOMA.
	12th congress of the Iranian Radiographic
	sciences association
15-16 Nov. 1393	P. Mehnati, v. sargazi.
	Study of lung and breast doses in single
	and multi-slices CT
	Eleventh Iranian conference of Medical physics
15-16 Nov. 1393	P. Mehnati, v. sargazi.
	Investigation breast reduction dose in
	multi slice CT with Bismuth shield,
	Eleventh Iranian conference of Medical
	physics
15-16 Nov. 1393	Mehnati P, Maede Jafari.
	Diagnosis of skin, brain, breast tissues
	with tissues photonic characteristic
	Eleventh Iranian conference of Medical physics
15-16 Nov. 1393	Mehnati P, Maede Jafari.
	Digital mammography artifacts
15 16 1 1202	Eleventh Iranian conference of Medical physics
15-16 Nov. 1393	Mehnati P, Maede Jafari.
	Using optical mammography for early
	dignisis of breast cancer
28 20 August Tabriz 2012	<i>Eleventh Iranian conference of Medical physics</i> <i>Mehnati P.</i>
28-30 August Tabriz -2013	
	Medical application of magnetic nanoparticles in cancer diagnosis and treatment, The 2 st
	Asian conference on applied electromagnetic
15-18 May 2012.	and wave optics (ASEPE), Mehnati.
10 10 may 2012.	
	The Relation between female body

	characteristics and diagnostic mammography.
	28 th Iranian congress of Radiology- Tehran
(2012/12/12-14,December)	Mehnati P, Baradaran B,
	Effect of radiotherapy on the breast
	cancer cell proteins- 5 th Tehran Breast
	cancer conference.
(2012/12/12-14,December)	Mehnati P, Baradaran B, Fakhrjou A,
	Montazari V.
	Isolation of Breast cancer cell from
	breast cancer specimen.
	5 th Tehran Breast cancer conference
19-21 June -2012	Fazel M, Mehnati P , Baradaran B,
	Pirayesh J,
	Study of apoptosis death in the breast
	cancer cells after radiation treatment.
	4 th congress of the Iranian society of
460 1 2012	Gynaecological oncology-
4-6 December 2012	Mehnati P,
	A Review on the medical application of electromagnetic in the breast cancer study. The I st Asian conference on applied electromagnetic and wave optics (ASEPE)-
4-6 December 2012	Sayfar F, Foroutan rad S, Sayyar rezvan
	P, faramarzi M, Mehnati P ,
	Comparison of sensitivity and specificity of Ultrasound versus electromagnetism in diagnosis of liver and kidney injuries in abdominal trauma. The 1 st Asian conference on applied electromagnetic and wave optics (ASEPE)-
(2012/12/12-14,December)	P. Mehnati , Mona Fazel, Behzad Baradaran.
	Study of radiotherapy effect on the breast
	cancer cells proteins
22.24.5.1.2011	5 th Tehran Breast cancer conference
22-24 Feb 2011)	Parinaz Mehnati
	Investigation of patients' rights in the radiology centers in medical Law: Patient's rights. The 3 rd international congress
(17-19 May, 2011)	Parinaz Mehnati, Tohid Mortazazadeh
	Investigation on the radiation health in

	radiology centers in Tabriz
26-28 Oct, 2011	P.Mehnati.
20-28 001, 2011	
(2-4 NOV, 2011)	Study of attention to patient safety during radiology, 1 st national Conference of health, patient safetyP .Mehnati, J. Pirayesh Islamian.
(2 11(0), 2011)	
(2.4.NOV. 2011)	Study of attention to radiation protection during the past two years in radiology centers in Tabriz. 1 st MEFOMP International Conference of Medical Physics
(2-4 NOV, 2011)	P.Mehnati.
	A Comparison study of digital and film screen mammography imaging from the viewpoint of patient's rights. 1 st MEFOMP International Conference of Medical Physics
(2-4 NOV, 2011)	Agaee F, Baradaran B, Pirayesh J, P.
	Mehnati.
	Deoxy-D-Glucose and Ionizing radiation responses of T47D and SKBR3 Breast cancer cells. 1 st MEFOMP International Conference of Medical Physics
(2-4 NOV, 2011)	P .Mehnati, J. Pirayesh Islamian
	Doxorubicin and Ionizing radiation responses of T47D and SKBR3 Breast cancer cells. 1 st MEFOMP International Conference of Medical Physics
2011	P.Mehnati.
	<i>The role of academic advisor in preparing</i> <i>medical students for e-learning. Conference of</i> <i>E-learning</i>
16-19 May 2011	P .Mehnati, T Mortazazadeh,
	<i>Investigation on the radiation health in</i> <i>radiology centers in Tabriz-</i> The first <i>international & 4th national congress on Health</i>
	education & Promotion
(2-4 NOV, 2011 Shiraz, Iran)	Mehnati P,
	A study on the application benefits of CR system in Mammography. 1st MEFOMP International Conference of Medical Physics
1-3 September 2010	Parinaz Mehnati, Asgar Mesbahi
	Evaluation of patient dose in cardio angiography procedures in angiography department of Shahid Madani hospital (International Conference in Radiation Protection in Medicine

May 2010	Parinaz Mehnati, Parisa Mehnati		
-	Compare of 3 circumferential		
	dosimeters measurement.		
	9th Iranian congress of Medical Physics,		
	Tehran, Iran		
23-25 sep. 2009	P.Mehnati.		
	Review on the medical equipments and new findings for breast cancer diagnosis, International Congress of Nuclear Medicine& Molecular Imaging		
5-9 Nov, 2009	Parinaz Mehnati, Hale Hoda, Hamed		
	Alizadeh.		
	Investigation of the breast parenchyma patterns of mammograms in the radiology. 8 th International congress on obstetrics and gynecology		
Jun 2009	P.Mehnati.		
	Incidence of polyploidy in CHO cells		
	exposed to Gamma-rays.		
	The 8 th Iranian congress of Medical		
	Physics university of Medical sciences,		
	Tehran, Iran		
November 24-26 2007	P.Mehnati.		
	Gamma radiation induced		
	endoreplication in the exposed CHO cell		
	line.		
	The 1 st International congress on health		
	Genomics & Biotechnology- Tehran, Iran.		
13-15 Feb. 2007	P. Mehnati.		
	An Investigation into the effects of		
	Gamma Rays on the cell cycle phases of		
	Chinese hamster ovary cell line . The 7 th		
	Iranian congress of Medical Physics		
	Ahvaz university of Medical sciences,		
	Ahvaz, Iran		

29-31Oct 2006	P.Mehnati, H. Sasaki
	An Evaluation on the fraction of Non-hit
	cell and death after exposure to high LET
	accelerated.
	(Rafsanjan, Iran)
16-18 Nov.2005	P .Mehnati, Biotechnology: Technology
	of animal cell culture.
	12 th congress of Biomedical engineering,
	Tabriz, Iran
May 11-13 2004	P .Mehnati, Sasaki Hiroshi.
	Expression of poly (ADP-ribose)
	polymerase and P53 in cultured
	mammalian cells exposed to accelerated
	heavy-ions (Fe or Ar Ions).
	The 6 th Iranian congress of Medical
	Physics, Mashhad, Iran.
17-22 August 2003	P. Mehnati, H. Sasaki - Effect of exposure to accelerated heavy-ions on the cell proliferation kinetics 12 th International congress of radiation research- Brisbane, Australia

Research Activities: Research areas, Interests

Designing of novel radiation shields, Radiobiology, Radiation Protection

E	ooks:			
N	Title	authors	Publisher	Authorship/ Translation/
١	Radiation Protection,	Parinaz Mehnat	Tabriz University of Medical Sciences, 2004	Translation

٢	Introduction to Radiation protection	S. Ahmadi- F. Yazadansetad- J. Pirayesh – P. Mehnati	Pezhvake Alborz, Tabriz,2016	Translation
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Published Articles

N	Title	authors	Journal	Year	Indexed in (Scopus, Medline, WOS,)
	Title	Authors	Addres	Year	
57	Removal of Fexofenadine	Omid Abouee	10.18502/jehsd.v9i2.15	2024	
	and Montelukast Drugs	Mehrizi, Seid	845		
	from Aquatic	Kamal Ghadiri,			
	Environment	Fatemeh Anvari,			
	Using a Rhodotron	Parinaz Mehnati			
	Accelerator				
56	Reduction of Radiation Risk to Cardiologists and Patients during Coronary Angiography: Effect of Exposure Angulation and Composite Shields	Reza Malekzadeh, Ali Tarighatnia, Parinaz Mehnati, Nader D Nader	https://scholar.google.com/cit ations?view_op=view_citation &hl=en&user=kjZL8y4AAAJ& sortby=pubdate&citation_for_ view=kjZL8y4AAAAJ:NhqRSupF _I8C	2024	
55	Prevention of Radiation Damages Using Bismuth- epoxy Composite	Parinaz Mehnati, Mahdi Mansoori Kia	https://scholar.google.com/cit ations?view_op=view_citation &hl=en&user=kjZL8y4AAAAJ& sortby=pubdate&citation_for_ view=kjZL8y4AAAAJ:P5F9QuxV 20EC	2023	
54	Trade-off between breast dose and image quality using composite bismuth shields in computed tomography: A phantom study	P. Mehnati Reza Malekzadeh Hussein Ali Hussein Noor H. Obaid Saadat Ebrahimiyan Mohammad Yousefi Sooteh Soheila Refahi	https://www.sciencedirect.co m/journal/journal-of-medical- imaging-and-radiation- sciences/ Journal of Medical Imaging and Radiation Sciences 54 (2023) 145–152 Journal of Medical Imaging and Radiation Sciences Doi.org/10.1016/j.jmir.2022.1 2.005	2023	
53	The Effectiveness of Silicone- Based Non-Lead Nanoparticles for Radiation Protection of Patients in Diagnostic Radiology by Monte Carlo Simulation	<u>P. Mehnati</u> <u>Seyfollah Asadpour</u> <u>Reza Malekzadeh</u> <u>Soheila Refahi</u> <u>Ahmad Shanei</u>	https://jims.mui.ac.ir/ 39th year/number 946/first week of Bahman Journal of Isfahan Medical School DOI:10.22122/jims.v39i649.1457 4	2023	
52	Shielding performance of multi- metal nanoparticle composites for diagnostic radiology: an MCNPX and Geant4 study	<u>P. Mehnati</u> R. Malekzadeh Nikan Asadpour Saeed Rajabpour Soheila Refahi Ahmad Shanei	https://www.springer.com/jou rnal/12194 Radiological Physics and Technology volume 16, pages57–68 (2023) <u>Radiological Physics and</u> <u>Technology</u> Doi.org/10.1007/s12194-	2023	

			022-00690-2	
- 54		D. Malanat		2022
51	Evaluation of silicon and 10% bismuth shield with variable	<u>P. Mehnati</u> S. Abolhadi	https://www.radioprotectio	2023
	thickness compared with	A.A. Parach	n.org/ Radioprotection 2023, 58(1),	
	constant thickness on the dose	A. Mehdipour	55–60	
	reduction and image quality	A.R. Sayadi	Radioprotection	
	during chest CT examination		Doi.org/10.1051/radiopro/2	
			022032	
50	Reduction of Radiation Risk	<u>P. Mehnati</u> R. Malekzadeh	<u>https://fbt.tums.ac.ir/</u> Vol. 11, No. 2 (Spring 2024) XX-XX	2022
50	to Cardiologists and Patients during Coronary	•	Frontiers in Biomedical	
	Angiography: Effect of	Nader D. Nader	Technologies	
	Exposure Angulation and			
	Composite Shields			
	Measurement of 226Ra,	P. Mehnati1,	https://ijrr.com/	2022
	232Th, 40K and 137Cs	A. Jomehzadeh,	Int. J. Radiat. Res., January	
49	concentrations in sediment	<i>V</i> .	2022; 20(1): 223-228 International Journal of	
	samples and determination of	Doostmohammadi	Radiation Research	
	annual effective dose due to		DOI: 10.52547/ijrr.20.1.34	
	these radionuclides in vicinity of hot springs in Kerman			
	Province			
	Determination of Rn- 222	P. Mehnati1,	https://ijrr.com/	2022
	concentration and annual	<i>V</i> .	Int. J. Radiat. Res., January 2022; 20(1): 211-216	
48	effective dose of inhalation in	Doostmohammadi,	International Journal of	
	the vicinity of hot springs in Kerman province,	A. Jomehzadeh*	Radiation Research DOI: 10.52547/ijrr.20.1.32	
	southeastern Iran		DOI: 10.52547/911.20.1.52	
	Image Quality and Pulmonary	Sepideh	Website: <u>www.jmssjournal.net</u>	2022
	Nodule Detectability at	Iranmakani,	J Med Sign Sens 2022; 12:64-8.	
4-	Low-dose Computed	Amir Reza Jahanshahi,	Journal of Medical Signals &	
47	Tomography (low kVp and mAs): A phantom study	Parinaz Mehnati,	Sensors DOI:	
	ma 10). 11 preunom suuy	Tohid	10.4103/jmss.JMSS_65_20	
		Mortezazadeh,		
	Fuele stars the set	Davood Khezerloo	Applied Dadiation and Instance	2021
46	Evaluating the radio protective effect of Cimetidine,	Siroos Rahgoshai , Parinaz Mehnati ,	Applied Radiation and Isotopes Volume 174,	2021
40	<i>IMOD, and hybrid radio</i>	Mahmoud Reza	August 2021, 109760	
	protectors agents: An in-vitro	Aghamiri , Meysam	https://doi.org/10.1016/j.apradiso .2021.109760	
	study	Haghighi Borujeini		
		, Amin Banaei , Ali Tariahatnia Nadar		
		Tarighatnia , Nader D. Nader ,		
		D. Nauer, Mohammad		
		Kiapour , Razzagh		
			1	· · ·

Abedi-FirouzjahAbedi-Firouzjah45Assessment of solar ultraviolet radiation in Tabriz city, IranP. Mehnati , H. Sabriz, R. Meynaghizadeh Zargar , Y. Rasulzadeh, D. Małmoudi, R. MałekzadehInternational Journal of Radiation Research, Int. J. Radiat. Res., April 2021; 19(2): 437-441 DOI: 10.18869/acadpub.ijrr.19.2.437202144Polyurethane compositions of Bismuth used for breast shields during chest CTP. Mehnatil , M. Arash1, M.S. Zakerhamidi, M. GhavamiInternational Journal of Radiation Research, Int. J. Radiat Res 2021, 19(2): 451-456 DOI: 10.52547/ijrr.19.2.25202044Application of personal non- lead nano-composite shields for radiation protection in diagnostic radiology: a systematic review and meta- analysis,Parinaz Mehnati, Reza Malekzadeh, Mohammad Yousefi Sooteh.Nanomedicine Journal, 7.170-182. DOI: 10.22038/NMJ.2020.07.000 12020	Polyurethane composition Bismuth used for breast
45 radiation in Tabriz city, Iran Sabri2, R. Meynaghizadeh Zargar, Y. Rasulzadeh, D. Mahmoudi, R. Malekzadeh Radiation Research, Int. J. Radiat. Res., April 2021; 19(2): 437-441 DOI: 10.18869/acadpub.ijrr.19.2.437 44 Polyurethane compositions of Bismuth used for breast shields during chest CT P. Mehnatil, M. Arash1, M.S. Zakerhamidi, M. Ghavami International Journal of Radiation Research, Int J Radiat Res 2021, 19(2): 451-456 2020 44 Application of personal non- lead nano-composite shields for radiation protection in diagnostic radiology: a systematic review and meta- metaria: Parinaz Mehnati, Reza Malekzadeh, Mohammad Yousefi Sooteh. Nanomedicine Journal, 7, 170-182. DOI: 10.22038/NMJ.2020.07.000 1 2020	Polyurethane composition Bismuth used for breast
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38	Existence of Breast	Tirtash M, Ghavami	7,217-224.	
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	protection of superficial	Mehnati, Reza	DOI: 10.1007/s12194-019-	
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	light intensity to determine	Bahman Alipour-	213.DOI:	
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55	vessel contrast by gold	- ,		
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	Influence of the size of nano-	Malekzadeh R,	Radiol Phys Technol, 12(3):325-	2019
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	Tomography Examination			
	Assessment of the efficiency of	Parinaz Parinaz	The Egyptian Journal of Radiology	2018
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	of nano Bi2O3 for radiology	Mohammad Yousefi	10.22038/nmj.2018.05.00006	2010
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	Abnormal Breast Using Hemoglobin Concentrations	Mohammad Sadegh Zakerhamidi,		
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	Spectroscopy	Zakerhamidi, Parisa		
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	Evaluation Of Gamma	Fazel M, Mehnati P ,	Indian J Cancer, 53, 25-28	2016
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	Medicine Students at Current	Shirin Babri.	191-197	
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	Gamma-Radiation Induced	Mehnati P.	American-Eurasian Journal of Toxicological Sciences, 6 (1): 25-	2014
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	Comparison between Film -	Mehnati P, Alizadeh	Academic Journal of Cancer Research	. 2014
	Screen and Digital	Riabi A.	7 (2): 162-167.DOI:	
16	Mammography for Woman		10.5829/idosi.ajcr.2014.7.2.83313	
	Breast Cancer Screening:			
	Mean Glandular Dose.			
	Evaluation of Mean	Alizadeh Riabi H,	, Radiat Prot Dosimet; 142(2-4): 222-227,	2010
	Glandular Dose in A Full-	Mehnati P, Mesbahi	<i>doi:10.1093/rpd/ncq218</i>	
15	Field Digital Mammography	<i>A</i> .		
	Unit In Tabriz, Iran.			
	Evaluation of Patient	Mesbahi A,	Iranian Journal of Medical Physics	2009
	Radiation Dose during	Aslanabadi N,	6(1): 53-59.	
	Angiography and Angioplasty	Mehnati P,	0(1). 00 07.	
14	in Angiography Department	Keshtkar A.		
	Of Shahid Madani Hospital-			
	Tabriz.Iran			
	Comparison of Radiation	Mesbahi A, Mehnati	Radiat Prot Dosimet,	2008
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	Two Interventional	Aslanabadi N.		
13	Cardiology Units: A Phantom			
	Study.			
	The Effect 0f Bladder Volume	Keshtkar A, Mesbahi	Int J Biomed Eng and Technol;	2008
	Changes On the Measured	A, Mehnati P.	1 (3).287-292.	
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	Fraction Of Survivor Cells		5(2):104-12.	
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	Operator Experience on the	Aslanabadi N,	132(3): 319-323	
	Patient Radiation Exposure in	Mehnati P		
10	Coronary Angiography			
	Examinations			
	Surface fluids effects on the	A. Keshtkar, A.	Medical Engineering & Physics,	2008
	bladder tissue	Mesbahi, P.	30(6):693-699.	
	Characterisation using	Mehnati		
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Ĺ	spectroscopy.			
	Dosimetric Properties Of A	Mesbahi A, Mehnati	Radiat J Med Imaging Radiat	2007
	Flattening Filter-Free 6-MV	P , Keshtkar A,	<i>Oncol,</i>	
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	Photon Beam A Monte Carlo	Farajollahi AR.		
8	Study Interphase Death Of Chinese Hamster Ovary Cells Exposed To Accelerated Heavy Ions	Mehnati P.	Iran J Med Phys; 4(1):14-15.	2007
6	A Comparative Monte Carlo Study on 6MV Photon Beam Characteristics of Varian 21EX and Elekta SL-25 Linacs	Mesbahi A, Mehnati P , Keshtkar A,	Iran J Radiat Res; 5(1):23-30.	2007
5	'Track detection on the cells exposed to high LET heavy- ions by CR-39 plastic and terminal deoxynucleotidyl Transferase (TdT),	P. Mehnati , A. Keshtkar, A. Mesbahi, H. Sasaki,	Iran. J. Radiat. Res; 4(3): 137-141.	2006
4	Exploration of `Over kill effect ` of high-LET Ar- and Fe-ions by evaluating the fraction of non-hit cell and Interphase death	Mehnati P. , Morimoto Sh., Yatagai F. and Sasaki H ,	Journal of Radiation Research, 46(3): 343-350	2005
3	Expression of (Poly ADP- Ribose) polymerase and P53 in cultured mammalian cells exposed to accelerated heavy- ions (Iron or Argon).	Mehnati P, Sasaki H.	Archives of Iranian Medicine, 6(2): 121-126.	2003
2	Judgement on Hit or Non-hit of CHO Cells exposed to accelerated heavy ions using division delay as indicator	Mehnati P. , Yatagai F. and Sasaki H,	Fukuka Acta Medica, 3: 46-58. 2000	2001
1	Dependence of induction of interphase death of Chinese hamster ovary cells exposed to heavy-ions on linear energy transfer	Saski H., Mehnati P . Yatagai F	Radiation Research. 148: 449-454 1997	1997

Selected articles:

Research projects:

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N	Title	Details
29	Correlation of Xerostomia with deltaradiomics features, clinical 2024/PhD student project	
	variables and dosimetric in Intensity Modulated Radiation Therapy	

	(IMRT) of head and neck cancer	
۲۸	Evaluation of the absorbed dose of thyroid gland during	2023/MD student project
	panoramic acquisition using composite thyriod shields on an	
	anthropometric phantom.	
27	Evaluation of the absorbed dose of thyroid gland during CBCT	2023/MD student project
	acquisition using composite thyriod shields on an anthropometric	
	phantom.	
26	Investigating the absorbed does of the thursid gland during	2022/MS student project
26	Investigating the absorbed dose of the thyroid gland during panoramic imaging using composite thyroid protectors on an	2023/MS student project
	anthropometric phantom.	
25	Determining of the amount of the radiation damage risk reduction	2023/MS student project
	using nanoparticles compositesof Tungsten and Tin	
24	Evaluation of composite radiation sheilds via different type of	2023/MS student project
	matrix and metal in computedtomography	
	Management of Do 206 Th 200 K 40 Co 407 and Dr 200	2022/MS student project
23	Measurement of Ra-226, Th-232, K-40, Cs-137 and Rn-222 concentrations and estimating of peopleannual effective dose in	2022/MS student project
	the vicinity of hot springs in Kerman province.	
22	The efficiency of Rodrutron accelerator in removing Fexofenadine	2022/MS student project
	and Montelukast drugs fromaqueous environment	
21	Evaluation of new Nano- Composite Bismuth Shields in head and	2020/MS student project
	neck computed tomography in two experimental and Monto Carlo	
	methods	
20	Construct of nano particle composite shields for radiation	2019/MS student project
20	protection of sensitive superficial organ in computed tomography	2019/WS student project
	imaging	
19	Measurement of Ra – 226, Cs- 137, Th- 232, K- 40 and Rn – 222	2018/MS student project
	concentrations and estimating of people annual effective dose	
18	rate in the vicinity of hot springs in Kerman province Beta ray detection via Bremsstrahlung X- ray measurement	2017/MS student project
17	An investigation of collimator scatter factor (Sc) with variation of	2017/MS student project
	ionization chambers, thickness and type of buildup caps in the wedged fields for 6 MV photon beams.	
16	Designing and making of silicone Nano bismuth shields for chest	2017/MS student project
10	CT scan	
15	Comparison of breast dose in coronary angiography and	2016/MS student project
	angioplasty with and without using bismuth – silicon and bismuth	
		•

	– Polyurethane composites	
14	Determination of vascular contrast of hemoglobin within gold	2015/MS student project
	nano particles and quantum dots using near infra read	
13	Investigation of breast Dose in chest CT by axial and spiral	2014/MS student project
	scanning mode using single and multi-detector CT scan with	
	bismuth shield	
12	Determination of pulmonary complications following esophageal	2014/MS student project
	and breast cancer radiotherapy using radiobiological models and	
	comparison with clinical data	
11	Designing and construction of the breast shields using different	2014/MS student project
	compositions of bismuth in Angio – chest CT	
10	Designing and construction of the breast shields using different	2014/MS student project
	compositions of bismuth in -chest CT	
9	checking Quality Executive protocols of radiology in imaging of	2013/MS student project
	kidneys with contrast material(autography) and Suggest	
	appropriate solution to increase the quality protocols	
8	Title of proposal: Imaging of breast vessel phantom for optimizing	2012/MS student project
	tissue differentiation by a pigment measurement in Near Infra-red	
	wavelengths	
7	Designing fabrication of abreast phantom for near- infrared source	2011/MS student project
	imaging	
6	Induction of cancer risk in the abdomen adult CT	2011/MS student project
5	Comparison of physical and biological dosimeteries of staffs in	2010/MS student project
	angiography department of Shahid Madani hospital of Tabriz	
4	Investigation of breast dose value in chest CT: using phantom	2010/MS student project
	Study of radiotherapy effect in Apoptosis induction on the breast	2008/MS student project
3	cancer cell line	
2	Enhancing the officiency of radiotherapy for breast cancer calls	2008/MS student project
2	Enhancing the efficiency of radiotherapy for breast cancer cells (SKBR3, T47D) by a combined therapy method with chemotherapy	2008/MS student project
	(2DG/DOX)	
1	Comparison of breast dose between general and digital	2007/MS student project
1	mammographic units	2007 Wis student project

Positions held: (past- current)

Start and End Date	Job Title, Responsibilities and achievements
2002/06/26 - present	Research Vice Chancellor of Medical physics department
2009/02/26 - present	Student head adviser in school of Medicine
2013/07/26 - present	Director of Radiobiology Laboratory
2022/9/1- present	Head of Medical Physics Department

Association Memberships (past and current)

Start and End Date	Job Title, Responsibilities and achievements
2002/07/01 - present	Member of Deputy of research and technology in school of Medicine
2009/02/26 - present	Member of student head adviser committee in school of Medicine
2014/04/26 - present	Member of the Examiners Board of Basic Sciences in the School of Medicine
2019/02/23- present	Head of Medical Radiation Sciences Research Team, Tabriz University of Medical Sciences, Tabriz, Iran

Awards and Recognitions

Start and End Date	Details
16 th research and technology festival/2017	Selected as a Top technology of Tabriz University of Medical Sciences
The 12 th Iranian Congress of Medical Physics /2018	Selected as a top paper in Iranian Medical Physics