



**Personal Information:**

**Name :** Mohammad Taghi  
**Surname:** Bahreyni Toossi  
**Date Of Birth:** 22-03-1947  
**Place Of Birth:** Iran

**Present Appointment:**

Director Of Medical Physics Research Center, Faculty Of Medicine,  
Mashhad University Of Medical Sciences

**Tel:** +98(511)8828576

**Fax:** +98(511)8002320

**E-Mail:** [Bahreynimt@Mums.Ac.Ir](mailto:Bahreynimt@Mums.Ac.Ir)

**Educational Records:**

<u>Degree</u> <u>Date</u>	<u>Institution</u>	<u>Field</u>
<b>B.Sc</b> 1969	Mashhad University Iran	Physics
<b>M.Sc</b> Protection	The University Of Surrey England 1976	Radiation And Environmental
<b>Ph.D.</b> 1983	The University Of Leeds England	Medical Physics

**Most Important Posts Held**

- 1- Vice-President For Education & Research Bu-Ali Sina University, 1984-1985.
- 2- Head Of Medical Physics Department, Hamadan University Of Medical Sciences, 1986-1996.
- 3- Vice-President For Education, Hamadan University Of Medical Sciences, 1990-1996.
- 4- A Member Of Board Of Governors Of Hamadan Medical Sciences University, 1991-1999.
- 5- Member Of Iranian Board Of Medical Physics, 1991- Continued.

- 6- Secretary Of Iranian Board Of Medical Physics, 1998- Continued.
- 7- Chief Health Physicist, Hamadan University Of Medical Sciences, 1990-1996.
- 8- Head Of Medical Physics Department, Mashhad University Of Medical Sciences, 1996- 2008.
- 9- Health Physicist, Imam Reza Teaching General Hospital Mashhad University Of Medical Sciences, 2002- Continued.
- 10-Head Of Medical Physics Department, Mashhad University Of Medical Sciences, 2010 - 2012.
- 11- Chief Editor Of Iranian Journal Of Medical Physics 2004 - Continued.
- 12- Founder And Director Of Medical Physics Research Center, Mashhad University Of Medical Sciences, 2005-Continued

#### **Membership Of Scientific Societies/Boards:**

Member Of Iranian Association Of Physicists  
Member Of Iranian Association Of Medical Physicists  
Member Of American Association Of Physicist In Medicine  
Member Of Institute Of Physics And Engineering In Medicine (Ipem) (Britain)

#### **Referee For Journal Articles Submitted To:**

Iranian Journal Of Medical Basic Sciences  
The Journal Of Mashhad Faculty Of Medicine  
The Journal Of Golestan University Of Medical Sciences  
Iranian Journal Of Radiation Research

#### **Research Interests:**

Environmental Radiation Monitoring  
Medical Dosimetry & Radiation Protection  
Radiobiology

#### **Papers Presented At International Scientific Meetings:**

1. An Assessment Of Organ And Effective Dose Of Patient Who Undertake Ct Examination In Two Teaching Hospitals Of Mashhad & Isfahan- Iran. **M. T. Bahreyni Toossi**, Sh. Mohandes. 11<sup>th</sup> International Congress Of The International Radiation Protection Association. 23-28 May 2004, Madrid Spain.
2. Application Of Dose Area Product Meter To Measure Organ And Effective Dose In Diagnostic Radiology At Two Hospitals, Mashhad-Iran. **M. T. Bahreyni Toossi**, M. Nazery. 11<sup>th</sup> International Congress Of The International Radiation Protection Association. 23-28 May 2004, Madrid Spain.
3. An Assessment Of The Effects Of Different Dose Levels Of Gamma Rays On Hprt Gene Of T-Cells From Human Preperhal Blood. **M. T. Bahreyni Toossi**,

- M. Rezaee. 11<sup>th</sup> International Congress Of The International Radiation Protection Association. 23-28 May 2004, Madrid Spain.
4. Measurement Of Stereotactic Beam Data Of 9 Mv X-Rays Using Diode Detector. **M. T. Bahreyni Toossi**, A. R. Khosbin Khoshnazar. Icmp14, 14-17 Sept., 2005, Nuremberg, Germany.
  5. Evaluation Of Organ Dose By Thermoluminescent Dosimetry And Using Of Dap Meter And Ods-60 Software In Some Routine Radiography. **M. T. Bahreyni Toossi**, M. Mojiri, H. Zare. Icmp14, 14-17 Sept., 2005, Nuremberg, Germany.
  6. An Assessment Of The Dose Received By Cervical Spinal Cord In Treating The Upper Esophageal Tumors By Use Of A Soft Tissue (Equivalent) Phantom. **M. T. Bahreyni Toossi**, M. Seilanian Toossi, Gh. Safaeian. Icmp14, 14-17 Sept., 2005, Nuremberg, Germany.
  7. An Evaluation Of Organ Dose In Some Common X-Ray Examination By Tld And Rando Phantom. **M. T. Bahreyni Toossi**, M. Mojiri, H. Zare. Icmp14, 14-17 Sept., 2005, Nuremberg, Germany.
  8. Application Of Dap Meter And Ods-60 To Estimate Organ And Effective Dose In Diagnostic Radiology At Two Hospitals. **M. T. Bahreyni Toossi**, H. Zare, M. Nazery. Icmp14, 14-17 Sept., 2005, Nuremberg, Germany.
  9. Gachin Dwellings On A Hot Area But With Normal Background. **M. T. Bahreyni Toossi**, M. Hagh Parast. Irpa- 2006, 15-19 May, Paris.
  10. Annual Absorbed Dose Rate At The Surface Of 38 Hot And Mineral Springs In Iran. **M.T. Bahreyni Toossi**, M. H. Orougi, A. Sadeghzadeh, A. Aghamir, A. Jomehzadeh, H. Zare. Irpa- 2006, 15-19 May, Paris.
  11. Organ And Effective Doses Of Patients During Coronary Angiography And Percutaneous Transluminal Coronary Angioplasty At Two Hospitals Mashhad- Iran. **M. T. Bahreyni Toossi**, Sh. Bayani, H. Zare, S. Esmaili. Irpa- 2006, 15-19 May, Paris.
  12. Organ Doses Of The Cardiologists And Their Assistants During Interventional Cardiology Procedures At Two Teaching General Hospitals In Mashhad-Iran. **M.T. Bahreyni Toossi**, H. Zare, Sh. Bayani, S. Esmaili. Irpa- 2006, 15-19 May, Paris.
  13. Esd, Organ And Effective Doses Of Patients Who Undertake Head Ct Scan By Different Ct Scanners. **M.T. Bahreyni Toossi**, M. Khalilpour, S. Esmaili. Irpa- 2006, 15-19 May, Paris.
  14. Application Of An Optimum Filter For A Neptun 10 Pc Linac To Reduce Electron Contamination. **M.T. Bahreyni Toossi**, H. Saberi, A. Hashemian, R. Salek. Irpa- 2006, 15-19 May, Paris.

15. Comprehensive Assessment Of Parameters Affecting Staff And Patient Doses Emerging From Interventional Cardiology Procedures. **M. T. Bahreyni Toossi**, Sh. Bayani, H. Zare. Aocrp-2, 9-13 October, 2006, Beijing, China.
16. Adult Skin Dose Caused By Chest X-Ray Examinations In 15 Medical Radiography Departments In Mashhad-Iran. **M. T. Bahreyni Toossi**, S. Esmaili. Aocrp-2, 9-13 October, 2006, Beijing, China.
17. Preliminary Results Of A Comprehensive Survey Of Iranian Radiological Centers To Establish National Diagnostic Reference Levels. **M. T. Bahreyni Toossi**, M. Asadinezhad. Aocrp-2, 9-13 October, 2006, Beijing, China.
18. First Report Of Environmental Gamma Radiation Levels In Twenty Four Towns And Cities Of Khorasan Region-Iran. **M. T. Bahreyni Toossi**, M. R. Abdolrahimi. The Fourth Itrs International Symposium On Radiation Safety And Detection Technology, Isord-4, 19-20 July, 2007, Seoul, Korea.
19. Evaluation Of The Effectiveness Of The Lead Aprons And Thyroid Shields Worn By Cardiologists In Angiography Departments Of Two Main General Hospitals In Mashhad. **M. T. Bahreyni Toossi**, H. Zare, Sh. Bayani, S. Esmaili. The Fourth Itrs International Symposium On Radiation Safety And Detection Technology, Isord-4, 19-20 July, 2007, Seoul, Korea.
20. The First Attempt To Establish National Diagnostic Reference Levels Arising From Head And Body Ct Scans Examinations In Iran. **M. T. Bahreyni Toossi**, M. Asadinezhad. Irpa 2007, 24-28 Sept. 2007, Romania.
21. Daily And Long Term Variations Of Out Door Gamma Dose Rate In Khorasan Province, Iran. **M. T. Bahreyni Toossi**, Sh. Bayani. 8<sup>th</sup> International Symposium On Natural Radiation Environment (Nre-Viii), 7-12 Oct. 2007, Brazil.
22. Three Dimensional Computed Tomography Reconstruction Of Leaf Arrangement Of A Multileaf Collimator System. A. Hashmian, **M. T. Bahreyni Toossi**, Sh. Naseri. 16<sup>th</sup> International Conference Of Medical Physics, 14-16 April 2008, Dubai.
23. Design And Fabrication Of The Mechanical Part Of A Prototype Multileaf Collimator System. **M. T. Bahreyni Toossi**, A. Hashmian, Sh. Naseri. 16<sup>th</sup> International Conference Of Medical Physics, 14-16 April 2008, Dubai.
24. Entrance Surface Dose Measurement And Quality Control In 15 Hospitals In Mashhad-Iran. **M. T. Bahreyni Toossi**, S. Esmaili. 16<sup>th</sup> International Conference Of Medical Physics, 14-16 April 2008, Dubai.
25. National Diagnostic Reference Levels For Head And Body Ct Examinations In Iran. **M. T. Bahreyni Toossi**, M. Asadinejad. 16<sup>th</sup> International Conference Of Medical Physics, 14-16 April 2008, Dubai.

26. Monte Carlo Simulation For Neptun 10 Pc Medical Linear Accelerator And Calculations Of Output Factor For Electron Beam. **M. T. Bahreyni Toossi**, M. Momennezhad, M. Hashemi. 16<sup>th</sup> International Conference Of Medical Physics, 14-16 April 2008, Dubai.
27. First User Friendly Interface Developed For Prediction Of Diagnostic Radiology X-Ray Spectra Produced By Monte Carlo (Mcnp-4c) Simulation, In Iran. **M. T. Bahreyni Toossi**, H. Moradi Fard Anbeh, H. Zare. 12<sup>th</sup> International Congress Of The International Radiation Protection Association (Irpa-12), 19-24 Oct. 2008, Buenos Aires, Argentina.
28. Gonad, Bone Marrow And Effective Dose To The Population Of More Than 90 Towns And Cities Of Iran, Arising From Environmental Gamma Radiation. **M. T. Bahreyni Toossi**, Sh. Bayani, A. Abdollahimi, M. Yarahmadi, A. Aghamiri. 12<sup>th</sup> International Congress Of The International Radiation Protection Association (Irpa-12), 19-24 Oct. 2008, Buenos Aires, Argentina.
29. Monte Carlo Simulation For Nepton 10 Pc Medical Linear Accelerator And Calculation Of Electron Beam Parameters. **M. T. Bahreyni Toossi**, M. Momennezhad, M. Hashemi. 12<sup>th</sup> International Congress Of The International Radiation Protection Association (Irpa-12), 19-24 Oct. 2008, Buenos Aires, Argentina.
30. Entrance Surface Dose Measurement And Quality Control In 15 Hospitals In Mashhad-Iran. **M.T. Bahreyni Toossi**, S. Esmaili, 14<sup>th</sup> General Assembly Of The Polish Society Of Medical Physics Efomp Council And Officer's Meeting, 17-21 Septamber 2008, Krakow, Poland.
31. Evaluation Of Organ Dose By Thermoluminescent Dosimetry And Using Of Dap-Meter And Ods-60 Software In Some Routine Radiography. **M. T. Bahreyni Toossi**, M. Mojiri. 14<sup>th</sup> General Assembly Of The Polish Society Of Medical Physics Efomp Council And Officer's Meeting. 17-21 Septamber 2008, Krakow, Poland.
32. First Report Of Local Diagnostic Reference Levels For Some Common Conventional X-Ray Examination For Sabzevar Region Of Iran. **M. T. Bahreyni Toossi**, H. Zarghani. International Conference On Medical Physics. Radiation Protection & Radiology (Icmprpr-2k9). 11-13 Feb, 2009, Sms Medical College & Hospital, Jaipur, India.
33. Simind Monte Carlo Simulation Of A Single Photon Emission Ct. **M. T. Bahreyni Toossi**, J. Pirayesh Eslamian, M. Momennezhad, M. Lireng Berg. International Conference On Medical Physics, Radiation Protection & Radiology (Icmprpr-2k9), 11-13 Feb, 2009, Sms Medical College & Hospital, Jaipur, India.
34. An Assessment Of Spinal Cord Dose Following To Radiotherapy Of Nasopharyngeal Cancer, By Tld And Rando Phantom, **M. T. Bahreyni**

- Toossi**, E. Rajab Bolookat. International Conference On Medical Physics, Radiation Protection & Radiology (Icmprpr-2k9), 11-13 Feb, 2009, Sms Medical College & Hospital, Jaipur, India.
35. Radiation Exposure To Critical Organs In Orthopantomography. **M. T. Bahreyni Toossi**, F. Akbari, Sh. Bayani, A. Jafari, M. Malakzadeh. Wc2009, 7-12 Sep., 2009, Munich, Germany.
  36. Application Of Mri Normoxic Polymer Gel Dosimetry Radiotherapy. **M. T. Bahreyni Toossi**, M. H. Bahreyni Toossi, Gh. Safaeian, Sh. Bayani. Wc2009, 7-12 Sep., 2009, Munich, Germany.
  37. Design And Fabrication Of The Control Part Of A Prototype Multileaf Collimator System. **M. T. Bahreyni Toossi**, A. Hashemian, Sh. Nasser. Wc2009, 7-12 Sep., 2009, Munich, Germany.
  38. A New Method To Compute T-Wave Alternans. **M. T. Bahreyni Toossi**, A. Heydari, G. Tabatabaei Yazdi. Signal And Image Processing Applications (Icsipa), 2009 Ieee International Conference. 18-19 Nov., 2009.
  39. First Report Of Radiation Dose To Pediatric Arising From Diagnostic Chest And Abdomen Examination. Malekzadeh, **M. T. Bahreyni Toossi**, Sh. Bayani, M. T. Shakeri, F. Akbari. Wc2009, 7-12 Sep., 2009, Munich, Germany.
  40. Preliminary Results Of Radiation Induced Bystander Effects In Qu-Db Cell Line. **M. T. Bahreyni Toossi**, Sh. Soleymani Fard, A. Sazgarnia, M. Mahmoodi. 8<sup>th</sup> Lowrad International Conference On The Effects Of Low Doses And Very Low Doses Of Ionizing Radiation On Human Health And Biotoxes (Lowrad2009), 28-30 Sept., 2009, Rio De Janeiro, Brazil.
  41. High Dose Rate Brachytherapy Dose Distribution Measurements Using Ebt Radiochromic Film And A Color Scanner, **M.T. Bahreyni Toossi**, M. Ghorbani, A. A. Mowlavi, Sh. Bayani, A. Haghparast, A. S. Meigooni. Proceedings Of Great Wall 2010 International Congress On Medical Physics, The 15<sup>th</sup> National Annual Meeting Of Medical Physics And The 3<sup>rd</sup> Meeting Of China Eastern Radiation Physics Committee. 18-22 August, 2010. Nanjing- China.
  42. Quality Control Tests Of Mobile And Stationary Diagnostic Radiology Units In Khorasan Razavi Province. **M.T. Bahreyni Toossi**, M. Malekzadeh, Sh. Bayani. Proceedings Of Great Wall 2010 International Congress On Medical Physics, The 15<sup>th</sup> National Annual Meeting Of Medical Physics And The 3<sup>rd</sup> Meeting Of China Eastern Radiation Physics Committee. 18-22 August, 2010. Nanjing- China.
  43. First Report Of Drl Arising From Panoramic Examination In Iran. **M.T. Bahreyni Toossi**, F. Akbari. Sh. Bayani, Proceedings Of Great Wall 2010 International Congress On Medical Physics, The 15<sup>th</sup> National Annual

Meeting Of Medical Physics And The 3<sup>rd</sup> Meeting Of China Eastern Radiation Physics Committee. 18-22 August, 2010, Nanjing- China.

44. Monte Carlo Simulation Of Stepping Source (Channel 6) Of Gzp6 After Loading Intracavitary Brachytherapy Unit. **M. T. Bahreyni Toossi**, M. Abdolahi, M. Ghorbani. Proceedings Of Great Wall 2010 International Congress On Medical Physics, The 15<sup>th</sup> National Annual Meeting Of Medical Physics And The 3<sup>rd</sup> Meeting Of China Eastern Radiation Physics Committee. 18-22 August, 2010, Nanjing- China.
45. First Attempt To Suggest Local Diagnostic Reference Levels For Pediatric Radiological Examination Of Khorasan Razavi County- Iran. **M. T. Bahreyni Toossi**, M. Malekzadeh. Proceedings Of Great Wall 2010 International Congress On Medical Physics, The 15<sup>th</sup> National Annual Meeting Of Medical Physics And The 3<sup>rd</sup> Meeting Of China Eastern Radiation Physics Committee. 18-22 August, 2010, Nanjing- China.
46. Preliminary Results Of Assessing Organs Doses Of Patients Arising From Panoramic Examination In Khorasan Razavi Province- Iran. . **M.T. Bahreyni Toossi**, F. Akbari, Sh. Bayani. Proceedings Of Great Wall 2010 International Congress On Medical Physics, The 15<sup>th</sup> National Annual Meeting Of Medical Physics And The 3<sup>rd</sup> Meeting Of China Eastern Radiation Physics Committee, 18-22 August, 2010, Nanjing- China.
47. Diagnostic Reference Level In Neonatal Units. **M. T. Bahreyni Toossi**, M. Malekzadeh. International Symposium On Standards, Applications And Quality Assurance In Medical Radiation Dosimetry, 9-12 Nov., 2010. Vienna, Austria.
48. Estimation Of Entrance Surface Doses (Esds) For Common Medical X-Ray Diagnostic Examinations In Radiological Departments In Mashhad-Iran. **M. T. Bahreyni Toossi**, S. Esmaeili. International Symposium On Standards, Applications And Quality Assurance In Medical Radiation Dosimetry, 9-12 Nov., 2010. Vienna, Austria.
49. Patient Organ Doses From Ct Scan Examination In Eleven State Owned Hospital Of Khorasan Province Of Iran. **M. T. Bahreyni Toossi**, S. Esmaeili. Engineering And Physical Sciences In Medicine And Australian Biomedical Engineering Conference, 6-9 December 2010, Australia.
50. Local Diagnostic Reference Dose Levels Arising From Adult Ct Examinations In Khorasan Province Iran. **M. T. Bahreyni Toossi**, M. Bahrami. Engineering And Physical Sciences In Medicine And Australian Biomedical Engineering Conference, 6-9 December 2010, Australia.
51. Monte Carlo Simulation Of Stepping Source (Channel 6) Of Gzp6 Afterloading Intracavitary Brachytherapy Unit. **M. T. Bahreyni Toossi**, M. Abdollahi, M. Ghorbani. Engineering And Physical Sciences In Medicine And Australian Biomedical Engineering Conference, 6-9 December 2010, Australia, Poster.

52. Toward A Proposition Of A Diagnostic Reference Level For Mammographic Examination In The Greater Khorasan Province. **M. T. Bahreyni Toossi**, H. Zare, Sh. Bayani, M. Hashemi, F. Akbari. Engineering And Physical Sciences In Medicine And Australian Biomedical Engineering Conference, 6-9 December 2010, Australia.
53. Monte Carlo And Experimental Verification Of Dose Distribution Around A Hdr Brachytherapy Gzpb Source Number Two. **M. T. Bahreyni Toossi**, M. Ghorbani, A. A. Molawi, Sh. Bayani, A. Meigoni. Engineering And Physical Sciences In Medicine And Australian Biomedical Engineering Conference, 6-9 December 2010, Australia
54. The Effect Of Thyroid Shield On Radiation Dose In Cone Beam Computed Tomography Of Implant Radiography. F. Akbari, **M. T. Bahreyni Toossi**, H. Hoseini Zarch. Polish Society Of Medical Physics And Engineering, 2011, Poland.
55. The Effect Of Resolution Mode On Organ Dose In Maxillofacial Imaging With Cone Beam Computed Tomography. **M. T. Bahreyni Toossi**, F. Akbari, H. Hoseini Zarch. Polish Society Of Medical Physics And Engineering, 2011, Poland.
56. Correlation Between Dose Of Interventional Cardiologists With Dose Area Product. Polish Society Of Medical Physics And Engineering. M. Mehrpouyan, **M. T. Bahreyni Toossi**, R. Fardid, H. Nademi. 2011, Poland.
57. The Effect Of Fukushima Accident On The Environmental Gamma Radiation Levels In Mashhad-Iran. Polish Society Of Medical Physics And Engineering. M. Mehrpouyan, **M. T. Bahreynitoossi**, L. Sobhkhiz, G. Tabatabai. 2011, Poland.
58. A Mont Carlo Study On Tissue Dose Enlancement In Brachytherapy: A Comparison Between Gadolinium Gold Nanoparticles. **M. T. Bahreyni Toossi**, M. Ghorbani, M. Mehrpouyan, F. Akbari, L. Sobhkhiz Sabet, And A. Soleimani Meigooni, World Congress On Medical Physics A Biomedical Engineering, Beijing. China. May 26-31, 2012.
59. Low – Dose Irradiation The Radio Sensitivity Of Human Peripheral Blood Lymphocytes. **M. T. Bahreyni Toossi**, H. Azimian, A. Rezaei, H. Rafatpanah, T. Hamzehlloei, R. Fardid. World Congress On Medical Physics And Biomedical Engineering, Beijing. China. May 26-31, 2012.
60. Measurement Of Sensitive Organs' Dose In Treatment Of Nasopharyngeal Carcinoma By The Use Of A Rando Phantom And Tld. **M. T. Bahreyni Toossi**, World Congress On Medical Physics And Biomedical Engineering, Beijing. China. May 26-31, 2012.



- 61- First Report Of Ldrl Arising From Ct Examination Of Children In The Greater Khorasan Province Of Iran. **M. T. Bahreyni Toossi**, H. Abedi. International Radiation Protection Conference In Medicine; Iaea, Bonne, Germany, 3-7 Dec. 2012.
- 62- Preliminary Results Of An Attempt To Predict Over Apron Of Cardiologist From Cardiac Fluoroscopy Procedures Based On Dap Values. **M. T. Bahreyni Toossi**, M. Mehrpouyan , H. Nademi, R. Fardid. G. Tabatabaei. International Radiation Protection Conference In Medicine; Iaea, Bonne, Germany, 3-7 Dec. 2012
- 63- Patient Organ Dose From Ct Examinations In Elven State Owned Hospital Of Khorasan Province – Iran, **M. T Bahreyni Toossi**. Irpa13 Glasgow, 13-18 May 2012.
- 64- Excess Lethal Cancer For The Total Population Of Sabzevar City In Iran Arising From Five Common Conventional X-Ray Examination. **M. T Bahreyni Toossi**. Irpa13 Glasgow, 13-18 May 2012.
- 65- Evaluation Of Local Diagnostic Dose Reference Levels Arising From Peadiatric Ct Examination For Khorasan Province, **M. T. Bahreyni Toossi**. Irpa13 Glasgow, 13-18 May 2012.
- 66- Bcl-2/Bax Ratio Modified By Low Doses Of Gamma Radiation, **M. T. Bahreyni Toossi**. Irpa13 Glasgow, 13-18 May 2012.
- 67- Variation Of Gene Expression Level Arising From Occupational Exposures Of Medical Radiation Works. **M.T. Bahreyni Toossi**. Workshop On European Population Dose From Medical Exposure. 24-26 April 2012, Athens, Greece.
- 68- Interventional Cardiology A Major Source Of Exposure ; A New Approach For Simple Estimation Of Dose To Patients And Staffs. **M.T. Bahreyni Toossi** , M . Mehrpouyan , M. Khosroabadi , H . Nademi.34 National Conference Of Association Of Medical Physicists Of India . 13-16 November 2013 .(Participated As Invited Speaker) .
- 69- First Report Of Radiation Absorbed Dose Assessment Of Radiation Workers Arising From Various Imaging Modalities In Dental Faculty-Mashhad-Iran . **M.T. Bahreyni Toossi**, International Conference On Occupational Radiation Protection.
- 70- An Assessment Of Patient Dose From Cardiac X-Ray Procedures Based On Measured Dap Values , . **M.T. Bahreyni Toossi**, M. Khosroabadi, M.Mehrpouyan,International Conference On Radiation Protection In Medicine .30 May- 2 June 2014 Varna, Bulgaria.
- 71- An Assessment Of Dose Fractionation Effect On The Level Of Radiation Induced Bystander Effect In Normal Cell Line . **M.T. Bahreyni Toossi** , Sh.

- Solimanifard , R . Kamran Samani , Sh. Mohebbi. International Conference On Radiation Protection In Medicine .30 May- 2 June 2014 Varna, Bulgaria.
- 72- Bystander Cells Could Produce Bystander Factors And Induce Radiation Bystander Effect . **M.T. Bahreyni Toossi**, Sh. Solimanifard , S. Mohebbi, R.Samai. International Conference On Radiation Protection In Medicine .30 May- 2 June 2014 Varna, Bulgaria .
- 73- Radiation Dose Incurred To Patients And Endoscopist Arising From Ercp Procedures. **M. T. Bahreyni Toossi**, H. Zare, Sh. Bayani, M.Hashemi, F. Akbari, N. Mohamadian, Z. Eslami. International Conference on Radiation Protection in Medicine: Achieving Change in Practice, IAEA Headquarters, 11–15 December 2017, Vienna, Austria.
- 74- Assessment Of Radiation Dose To The Lens Of Eyes And Thyroid Of Patients Undergoing Head And Neck Computed Tomography At Five Hospitals In Mashhad-Iran. **M. T. Bahreyni Toossi**, H. Zare, Sh. Bayani, S. Zarif Ghasemian, M. Daneshdoost, M. Sedighpour, Z. Eslami, N. Mohamadian, A. Khani. International Conference on Radiation Protection in Medicine: Achieving Change in Practice, IAEA Headquarters, 11–15 December 2017, Vienna, Austria.
- 75- Effects of low doses of ionizing radiation, current status, known challenges, and future strategies. **M.T. Bahreyni Toossi**. International conference on Nuclear and Radiological Emergencies (ICONRADEM 2019), 9-11 February 2019, Jaipur, Rajasthan, India.
- 76- Assessment of Entrance Skin Dose of Four Groups of Children Arising from Angiography Procedures. **M.T. Bahreyni Toossi**, H. Zare, Z. Eslami, M. Mehrpouyan, B. Alizadeh, H. Birjandi, M. Sedighpour. International Symposium on Standards, Applications and Quality Assurance in Medical Radiation Dosimetry (IDOS 2019), 18–21 June 2019, Vienna, Austria.

#### **Papers Presented At National Scientific Meetings:**

- 1- Plutonium Content Of Organs Of Non-Occupationally Exposed Members Of General Public, Measured And Estimated Values. **M. T. Bahreyni Toossi**. First Iranian Congress Of Medical Physics, 18-21 May, 1991, Tabriz- Iran.
- 2- Studying The Relation Between The Air Kerma And The Effective Factors In The Production Of X-Rays In Diagnostic Radiology Machines And Evaluation Of The Doctors And Patients Dose In The Organ Angiographies. M. Hajizadeh Safar, **M. T. Bahreyni Toossi**, S. Nekooi, A. R. Sedghi. The 4<sup>th</sup> Iranian Medical Physics Conference. Tehran Uuniversity Of Medical Sciences. Spring 2000.
- 3- Measurement And Comparison Of Thyroid Dose From The Scatter Rays In The Imaging Of Thorax By Four Ct Scan Techniques. F. Abahashemi , **M.T.**

- Bahreyni Toossi**, A. A. Sharfi. The 5<sup>th</sup> Iranian Medical Physics Conference. Tarbiat Modares University, Spring 2002. Tehran- Iran.
- 4- Quality Control Of Diagnostic X-Rays In The Medical Centers Of Zanjan Medical University. F. Seghatchi, **M. T. Bahreyni Toossi** .The 5<sup>th</sup> Iranian Medical Physics Conference. Tarbiat Modares University. Spring 2002, Tehran- Iran.
  - 5- Evaluation Of The Thyroid Exposure In Dental Opg Radiographies. A. Kiani, **M. T. Bahreyni Toossi**, M. B. Tavakoli. The 5<sup>th</sup> Iranian Medical Physics Conference. Tarbiat Modares University. Spring 2002, Tehran- Iran.
  - 6- The Assessment Of Environmental Gamma Radiation Exposure In Cities And Hot And Natural Springs Of Mazandaran State. A. Agamid, **M. T. Bahreyni Toossi**. The 6<sup>th</sup> Iranian Medical Physics Conference. Mashhad University Of Medical Sciences. Spring 2004, Mashhad-Iran.
  - 7- Estimation Of The Annual Effective Dose And Sensitive Organ Doses From Outdoor And Indoor Environmental Gamma Radiation In Boshehr State. A. M. Tamjidi, **M.T. Bahreyni Toossi**. The 6<sup>th</sup> Iranian Medical Physics Conference. Mashhad University Of Medical Sciences. . Spring 2004, Mashhad-Iran.
  - 8- The Study Of Background Radiation In The Kerman State Cities And Comparison Of The Dose From Gamma Rays Inside The Buildings Using Tld And Rds-110 Dosimeter In Kerman City. A. Jomezadeh, **M.T. Bahreyni Toossi**, The 6<sup>th</sup> Iranian Medical Physics Conference. Mashhad University Of Medical Sciences, Spring 2004, Mashhad-Iran.
  - 9- Evaluation Of The Annual Equivalent Dose Of Sensitive Organs And Annual Effective Dose Of The Residents Of Kordestan State Cities From Environmental Gamma Radiation. M. Yar Ahmadi, **M. T. Bahreyni Toossi**. The 6<sup>th</sup> Iranian Medical Physics Conference. Mashhad University Of Medical Sciences. Spring 2005, Mashhad-Iran.
  - 10- Comparison Of The Dose Rate From Environmental Gamma Radiation At Indoor And Outdoor Environments In Kordestan State. M. Yar Ahmadi, M. T. **Bahreyni Toossi**. The 6<sup>th</sup> Iranian Medical Physics Conference. Mashhad University Of Medical Sciences, Spring 2005, Mashhad-Iran.
  - 11- An Assessment Of Organ Dose In Some Common Radiographies Using Thermoluminescent Dosimetry And Dap Meter With Ods-60 Software. M. Mojiri , **M. T. Bahreyni Toossi**. The 6<sup>th</sup> Iranian Medical Physics Conference. Mashhad University Of Medical Sciences. Spring 2005, Mashhad-Iran.
  - 12- Application Of Thermoluminescent Dosimeters In Organ Dose Evaluation Of Common Radiographies With Rando Phantom. M. Mojiri, **M.T. Bahreyni Toossi**. The 6<sup>th</sup> Iranian Medical Physics Conference. Mashhad University Of Medical Sciences. Spring 2005, Mashhad-Iran.

- 13- Evaluation Of The Cervical Dose After Radiotherapy Of Upper Esophagus Tumors In A Soft Tissue Equivalent Phantom. M. Moghadas Zadeh, **M. T. Bahreyni Toossi**, M. Silanian, G. Safayian Layen. The 6<sup>th</sup> Iranian Medical Physics Conference. Mashhad University Of Medical Sciences, Spring 2005, Mashhad-Iran.
- 14- The Study Of (Outdoor) Environmental Gamma Radiation Level In The Sistanbaloochestan And Hormozghan States Cities. M. Haghparast, **M. T. Bahreyni Toossi**. The 6<sup>th</sup> Iranian Medical Physics Conference. Mashhad University Of Medical Sciences, Winter 2005, Mashhad-Iran.
- 15- Design Construction And Setting Up Of Stereotactic Radiosurgery System For Neptun 10 Pc Linac Of Imam Reza Hospital. A.R. Khoshbin Khoshnazar, **M.T. Bahreyni Toossi**, A. R. Hashemiyan, M. H. Bahreyni Toossi, R. Salek. 7<sup>th</sup> Iranian Congress Of Medical Physics, 13-15 Feb. 2007, Ahvaz-Iran.
- 16- Influence Of Ultraviolet (Uv) Radiation On Lif: Mg, Cu, P Dosimeter During Natural Radiation Monitoring. A. Jomehzadeh, **M.T. Bahreyni Toossi**. 7<sup>th</sup> Iranian Congress Of Medical Physics, 13-15 Feb. 2007, Ahvaz-Iran.
- 17- Organ Dose, Effective Dose And Esd Dose Evaluation On Patients In Four Different Ct Scan Clinics In Mashhad, Using Two Software And Thermoluminescent Dosimetry Methods. M. Khalilpour, S. Esmaili, **M.T. Bahreyni Toossi**. 7<sup>th</sup> Iranian Congress Of Medical Physics, 13-15 Feb. 2007, Ahvaz-Iran.
- 18- Application Of Thermo Luminescence Dosimeter And Rando Phantom To Evaluate Patient Organ Dose In Some Routine Radiological Examination. **M.T. Bahreyni Toossi**, M. Mojiri. The 6<sup>th</sup> Congress Of The Iranian Radiographic Sciences Association, 25-26 April 2008, Shiraz-Iran.
- 19- An Assessment Of Inner Ear Dose Arising From Radiotherapy Of Nasopharynx Tumors By Rando Phantom And Tld. **M.T. Bahreyni Toossi**, E. Rajabbolokat. The 6<sup>th</sup> Congress Of The Iranian Radiographic Sciences Association, 25-26 April 2008, Shiraz-Iran.
- 20- Organ And Effective Dose Of Patients Arising From Some Common X-Ray Emanations By Pcxmc Software In Sabzevar County-Iran. **M.T. Bahreyni Toossi**, H. Zarghani. The 1<sup>st</sup> International Conference Of Mefomp, 2011, Shiraz-Iran.
- 21- Application Of Electronic Personal Dosimeters To Estimate Radiation Dose Of Interventional Cardiologists. R. Fardid, **M. T. Bahreyni Toossi**, M. Mehrpouyan. The 1<sup>st</sup> International Conference Of Mefomp, 2011, Shiraz-Iran.
- 22- An Assessment Of Radiation Dose Of Patients And Physicians Emerging From Diagnostic And Therapeutic Ercp Procedures. **M. T. Bahreyni Toossi**, H.R. Siam, H. Zare, Sh. Bayani, M. Hashemi. The 1<sup>st</sup> International Conference Of Mefomp. 2011, Shiraz-Iran.

- 23- Assessment Of Organ And Effective Doses In Pediatric Radiology Examinations. M. Malekzadeh, **M. T. Bahreyni Toossi**, Sh. Bayani. The 1<sup>st</sup> International Conference Of Mefomp, 2011, Shiraz-Iran.
- 24- Radiation Dose To The Lens Of Eye In Different Types Of Maxillofacial Imaging. F. Akbari, **M. T. Bahreyni Toossi**, H. Hoseini Zarch .The 1<sup>st</sup> International Conference Of Mefomp, 2011, Shiraz-Iran.
- 25- Early Apoptotic Response Of Ionizing Radiation. H. Azimin, **M. T. Bahreyni Toossi**, R. Fardid. The 1<sup>st</sup> International Conference Of Mefomp, 2011, Shiraz-Iran.
- 26- Effect Of Low- Dose Exposure Of Gamma Radiation On Apoptotic Genes Expression In Human Peripheral Blood Lymphocytes. H. Azimian, **M. T. Bahreyni Toossi**, R. Fardid. The 1<sup>st</sup> International Conference Of Mefomp, 2011, Shiraz-Iran.
- 27- Dosimetry Verification Of Small Fields Used In Stereotactic Radiosurgery By Monte Carlo Simulation. M. Momenzhad, S. Nasser, **M. T. Bahreyni Toossi**, H. Gholamhosseinian. The 1<sup>st</sup> International Conference Of Mefomp, 2011, Shiraz-Iran.
- 28- Parametric Implementation Of The Electron Flux Incident On A Target In The Linear Accelerator Using Geant4 Code. Sh. Nasser, M. Momenzhad, **M. T. Bahreyni Toossi**, A. Hashemian. The 1<sup>st</sup> International Conference Of Mefomp, .2011, Shiraz-Iran.
- 29- Introduction Of New Biological Indicator For The Identification Of Ionizing Radiation Exposure In Human . Azimian H, Bahreyni Toossi Mt, Khademi S, Rezaei A-R ,Editors.. 6th International Congress Of Laboratory & Clinic; Razi International Conference Center- Tehran- Iran) Oral.
- 30- Apoptotic Biomarkers For Radiosensitivity: Long Term Effects In Irradiated Human Peripheral Blood Lymphocytes .Azimian H, Bahreyni Toossi Mt, Khademi S, Rezaei Ar, Rafatpanah H, Hamzehloei T. 6th International Congress Of Laboratory & Clinic; 2014; Razi International Conference Center- Tehran -Iran (Poster).
- 31- Preliminary Result Of An Attempt To Predict Over Apron Occupational Exposure Of Cardiologists From Cardiac Fluoroscopy Procedures Based On Dose Area Product Values, Mt.Bahreyni , M. Mehrpouyan, M .Ghorbani, H.Nademi, R . Fardid,M.Khosroabadi. 31 St Iranian Congress Of Radiology May5-8,2015,Tehran,Iran.
- 32- The Effect Of Tooth And Dental Restoration Material On Electron Dose Distribution And Production Of Photon Contamination In Electron Beam.M.Ghorbani,Mt.Bahreyni,M.Mehrpouyan, F. Akbari, L.Sobhkhiz. 31 St Iranian Congress Of Radiology May5-8,2015,Tehran,Iran.

- 33- Preliminary Result Of An Attempt To Predict Over Apron Occupational Exposure Of Cardiologists From Cardiac Fluoroscopy Procedures Based On Dap ( Dose Area Product ) Values. Bahreyni Toosi Mt, Mohammad Mehrpouyan , Hossein Nademi&Reza Fardid. Australasian Physical & Engineering Sciences In Medicine

### *Journal Papers*

- 1- Regulation of XPA could play a role in inhibition of radiation-induced bystander effects in QU-DB cells at high doses. Mohammad Taghi Bahreyni Toossi<sup>1,2</sup>, Hosein Azimian<sup>1,2</sup>, Shokouhoman Soleymanifard<sup>1,2,3</sup>, Habibeh Vosoughi<sup>2</sup>, Elham Dolat<sup>2</sup>, Abdul Rahim Rezaei<sup>4</sup>, Sara Khademi. Journal of Cancer Research and Therapeutic. ۲۰۱۹.
- 2- Mohammadi S, Ebrahimi Loushab M, Bahreyni Toossi MT. Review of Geant4 Applications in Radiobiology. Iran J Med Phys 2019; 16: 255-263. 10.22038/ijmp.2018.31823.1375.
- 3- Bahreyni Toossi MT, Najafi Amiri M, Sankian M, Azimian H, Abdollahi S, Khademi S. INF/IL-4 increases after the low doses of gamma radiation in BALB/c spleen lymphocytes. Iran J Med Phys 2019; 16: 264-269. 10.22038/ijmp.2018.35092.1440.
- 4- Asadinezhad M, Bahreyni Toossi MT, Nouri M. Diagnostic Reference Levels for Computed Tomography Examinations in Iran: A Nationwide Radiation Dose Survey. Iran J Med Phys 2019; 16:19-26.10.22038/ijmp.2018.33100.1402
- 5- Assessment of the effects of radiation type and energy on the calibration of TLD-100. Mohammad Taghi Bahreyni Toossi; Hamid Gholamhosseinian; Atefeh Vejdani Noghreiyā. Iranian J Med Phys, Volume & Issue: Volume 15, Issue 3, July 2018, Page 146-150
- 6- Evaluation of Dose Calculation Accuracy of Isogray Treatment Planning System in Craniospinal Radiotherapy. Mohammad Taghi Bahreyni Toossi; sara momeni; Shokouhoman Soleymanifard; Hamid Gholamhosseinian. Iranian J Med Phys, Volume & Issue: Volume 15, Issue 4, October 2018, Page 231-236.
- 7- Assessment of Radiation Dose to the Lens of the Eye and Thyroid of Patients Undergoing Head and Neck Computed Tomography at Five Hospitals in Mashhad. Mohammad Taghi Bahreyni Toossi; Hoda Zare; Zahra Eslami; Shahram Bayani Roodi; Mohammad Daneshdoust; Zarif Saeed; Mahdi Sedighpour; Nastaran Mohammadian; Mohammad Hashemi; Khani Afsaneh. Iranian J Med Phys , Volume & Issue: Volume 15, Issue 4, October 2018, Page 226-230
- 8- Bax/bcl-2 expression ratio in prediction of respons to breast cancer radiotherapy. Hossein azimian , mahdieh dayyani, mohammad taghi bahreini , Mahmoud mahmoudi . basic med sci 2018; 21:325-332.

- 9- Local Diagnostic Reference Levels for Some Common Diagnostic X-Ray Examinations In Sabzevar County of Iran. Hassan Zarghani<sup>1</sup>, Mohammad Taghi Bahreyni Toossi. Iranian J Med Phys, Vol. 15, No. 1, January 2018
- 10- In vivo Exposure Effects of <sup>99m</sup>Tc-methoxyisobutylisonitrile on the FDXR and XPA Genes Expression in Human Peripheral Blood Lymphocytes. Mohammad Taghi Bahreyni-Toossi<sup>1</sup>, Habibeh Vosoughi<sup>1\*</sup>, Hosein Azimian<sup>1</sup>, Abdul Rahim Rezaei<sup>2</sup>, Mehdi Momennezhad<sup>3</sup>. Asia Ocean J Nucl Med Biol. 2018; 6(1): 32-40
- 11- Automatic detection of micronuclei by cell microscopic image processing. Mohammad Taghi Bahreyni Toossia, Hosein Azimiana, Omid Sarrafzadehb, □, Shokoufeh Mohebbic, Shokouhozaman Soleymanifarda. Mutat Res Fund Mol Mech Mutagen 806 (2017) 9–18.
- 12- Assessment of The Dose-Response Relationship of Radiation-Induced Bystander Effect in Two Cell Lines Exposed to High Doses of Ionizing Radiation (6 and 8 Gy). Mohammad Taghi Bahreyni Toossi, , Sara Khademi, , Hosein Azimian, Shokoufeh Mohebbi, , Shokouhozaman Soleymanifard, CELL JOURNAL(Yakhteh), Vol 19, No 3, Oct-Dec (Autumn) 2017.
- 13- Evaluation Of Electron Dose Calculations Accuracy Of A Treatment Planning System In Radiotherapy Of Breast Cancer With Photon- Electron Technique. Bahreyni. Mt, Soleymanifard. Sh, Farhood.B, Farkhari,A. Knaup.C. Journal Of Cancer Research And Therapeutics.2018.
- 14- Assessment of the accuracy of dose calculation in the build-up region of the tangential field of the breast for a radiotherapy treatment planning system. Bagher farhood, mohammad taghi bahreyni toossi , shokouhzaman solymanifard, tohid mortezazadeh . contemp oncol2017;21(3):232-239.
- 15- A comparison Of The Doses Received By Normal Cranial Tissues During Different Simple Model Conventional Radiotherapeutic Approaches To Pituitary Tumors. Mt Bahreyni Toossi, L.Sobhkhiz, Sh.Soleymanifard, L.Anvari, M.Bakhshizadeh. Aaaustralas Phys Eng Sci Med .(2016)39:517-524.
- 16- The Effect Of Glucose – Coated Gold Nanoparticles On Radiation Bystander Effect Induced In Mcf-7 And Qudb Cell Lines. Rostami. A, Bahreyni Toossi.Mt, Sazgarnia.A, Soleymanifard.Sh. Radiat Environ Biophys . September.2016.55.461-466.
- 17- Measurement Of Thyroid Dose By Tld Arising From Radiotherapy Of Breast Cancer Patients From Supraclavicular Field. Farhood. B, Bahreyni Toossi.Mt, Vosoughi.H, Khademi.S, Knaup.C. J Biomed Phys Eng 2016 :6(3).
- 18- A comparison Between Skin Dose Of Breast Cancer Patients At The Breast Region , Measured By Thermoluminescent Dosimeter In The Presence And Absence Of Bolus. Farhood.B, Bahreyni.Mt, Ghatei.N, Mohamadian.N,Mozaffari.A,Knaup.C. Journal Of Cancer Research And Therapeutics.2018

- 19- Dose Measurements Of Parotid Glands And Spinal Cord In Conventional Treatment Of Nasopharyngeal Carcinoma Using Rando Phantom And Thermoluminescent Dosimeters. Mt. Bahreyni Toossi, Er Bolookat , R.Salek, M. Layegh. Iranian Journal Of Medical Physics . Vol.12, No.2.2015, 78-84
- 20- Comparison Of Ebt And Ebt3 Radiochromic Film Usage In Parotid Cancer Radiotherapy. Bahreyni Toosi Mt, Khorshidi F, Ghorbani M, Mohamadian N, Davenport D. 2015. J Biomed Phys Eng.
- 21- Skin Dosimetry In Radiotherapy Of Breast Cancer: A Comparison Between Ebt And Ebt3 Radiochromic Films. Bahreyni Toosi Mt, Mohamadian N, Ghorbani M, Khorshidi F, Knaup C. 2015. J Biomed Phys Eng.
- 22- Preliminary Result Of An Attempt To Predict Over Apron Occupational Exposure Of Cardiologists From Cardiac Fluoroscopy Procedures Based On Dap (Dose Area Product) Values. Mohammad Taghi Bahreyni Toosi, Mohammad Mehrpouyan, Hossein Nademi, Reza Fardid. Australasian Physical & Engineering Sciences In Medicine , March 2015, Volume 38, Issue 1, Pp 83-91 Isi
- 23- Evaluation Of The Effect Of Tooth And Dental Restoration Material On Electron Dose Distribution And Production Of Photon Contamination In Electron Beam Radiotherapy. Mt. Bahreyni Toossi , M. Ghorbani . F. Akbari, M. Mehrpouyan, L. Sobhkhize. Australas Phys Eng Sci Med. 2015 Nov 18. Isi:0/88
- 24- Assessment Of Skin Dose Modification Caused By Application Of Immobilizing Cast In Head And Neck Radiotherapy. Soleymanifard Sh, Bahreyni Toosi Mt , Khosroabadi M , Vejdani A , Shahidsales S , Varshoe F. Australas Phys Eng Sci Med (2014) 37(3):535-540. Isi=0/88
- 25- Quality Control Status Of Radiology Centers Of Hospitals Associated With Mashhad University Of Medical Sciences. Hamid Gholamhosseinian-Najjar; Mohammad-Taghi Bahreyni-Toosi; Mohammad-Hossein Zare; Hamid-Reza Sadeghi; Hamid-Reza Sadoughi . Iranian Journal Of Medical Physics. Vol. 10, No. 4, Autumn 2013 & Vol. 11, No. 1, Winter 2014, 182-187. Scopus
- 26- Local Reference Dose Evaluation In Conventional Radiography Examinations In Iran. M. Shirin Shandiz, M.T. Bahreyni Toosi, S. Farsi, K. Yaghoobi. Journal Of Applied Clinical Medical Physics, Volume 15, Number 2, 2014. Pubmed
- 27- Mrc And Qu-Db Bystander Cells Can Produce Bystander Factors And Induce Radiation Bystander Effect . J Med Phys. 2014 Jul;39(3):192-6. Doi: 10.4103/0971-6203.139011. Pubmed
- 29- Monte Carlo Simulation Of A 6 Mv X-Ray Beam For Open And Wedge Radiation Fields, Using Gate Code . Mohammad-Taghi Bahreyni-Toosi, Shahrokh Nasser, Mahdi Momennezhad, Fatemeh Hasanabadi, Hamid



- Gholamhosseinian, Journal Of Medical Signals And Sensor, Vol 4, No 4 (2014)Pubmed
- 30-Mont Carlo Simulation Of Electron Modes Of A Siemens Primus Linac. Mt. Bahreyni Toossi, M.Ghorbani,F. Akbari, L. Sobhkhiz,M. Mehrpouyan. Journal Of Radiotherapy In Practice(2013)12,352-359.
- 31-Comparison Between Photofluorography And Standard Fluoroscopic Voiding Cystourethrography In Evaluating Vesicoureteral Reflux In Children With Urinary Tract Infection. Malakeh Malekzadeh, Mohammad Taghi Bahreyni Toossi, Seyed Ali Alamdaran, Mitra Naseri, Ali Beheshtian , Nephro-Urology Monthly. 5(4):933,2013 Pubmed
- 32-Evaluation Of Maximum Patient Skin Dose Arising From Interventional Cardiology Using Thermoluminescence Dosimeter In Mashhad, Iran . Mohammad Taghi Bahreyni Toossi\*, Seyedeh Farideh Baradaran , Arash Gholoobi , Hosein Nademi, Iranian Journal Of Medical Physics ,Vol. 10, No. 2, Summer 2013, 87-94.Scopus
- 33- A Mont Carlo Study On Electron And Neutron Contamination Caused By The Presence Of Hip Prosthesis In Photon Mode Of A 15 Mv Siemens Primus Linac .M. T. Bahreyni Toossi, M. Behmadi, M .Ghorbani, H. Gjolamhoseinian. J Appl Clin Med Phys. 2013 Sep 6;14(5):52-67. Doi: 10.1120/Jacmp.V14i5.4253. Pubmed
- 34-Evaluation Of Occupational Radiation Exposure Of Cardiologists In Interventional Radiography In Mashhad Cathlab .R. Fardid , M. T. Bahreyni Toossi ,M. Mehrpouyan , M. Ghorbani .Int . J . Low Radiation , Vol . 9, No .2, 2013 Isi
- 35- An Effective Hair Removal Algorithm For Dermoscopy Images. M. T. Bahreyni Toossi , H.R . Poor Reza, H. Zare, M.H. Sigari, P. Layegh, A .Azimi. Skin Research And Technology, 19(3):230-5, 2013. Pubmed
- 36-The Role Of Target And Bystander Cells In Dose-Response Relationship Of Radiation-Induced Bystander Effects In Two Cell Lines. Sh. Soleymanifard, M . T. Bahreyni Toossi, A. Sazgarnia, Sh. Mohebbi, Iranian Journal Of Basic Medical Sciences, 2013; 16(2) Isi
- 37- A Monte Carlo Study On Dose Distribution Validation Of Gzp6 60 Co Stepping Source. M.T.Bahreyni Toossi, M. Abdollahi, M. Ghorbani. Reports Of Practical Oncology And Radiotherapy, I 8, (2013) 112-116.Embase
- 38- Assessment Of Patient Dose From Ct Examinations In Khorasan, Iran. M. T . Bahreyni Toossi , M . Bahrami, Iranian Journal Of Medical Physics, Vol .9 , No .4 , 2012,233-238. Scopus
- 39- Radiation Exposure To Critical Organs In Panoramic Dental Examination. M. T . Bahreyni Toossi, F. Akbari , Sh .Bayani Radiation Protection Dosimetry, 2012:50(12) :809-813. Isi=0/91

- 40- Towards Propostion Of A Diagnostic Reference Level For Mammographic Examination In The Greater Khorasan Province , Iran ,M .T . Bahreyni Toossi , H. Zare , Sh .Bayani , M .Hashemi , F. Akbari. Radiation Protection Dosimetry, Vol. 152, Issue 4 , December 2012. Isi=0/91
- 41- Diagnostic Reference Level Arising From Dental Panoramic Radiography , M. T . Bahreyni Toossi, F. Akbari, Iranian Journal Of Medical Physics , Vol .9 , No. 3 , Summer 2012.Scopus
- 42- Radiation Dose To Newborns In Neonatal Intensiv Care Units. M.T. Bahreyni Toossi , M . Malekzadeh. Iranian Journal Of Radiology, 2012: 9 (3): 145-149. Isi=0/6
- 43- Mont Carlo Study Of The Effect Of Collimator Thickness On Tc -99m Source Response In Single Photon Emission Computed Tomography. J. Pirayesh Islamian, M .T. Bahreyni Toossi, M. Momennezhad, S. R. Zakavi, R. Sadeghi . Michael Ljunberg, World Journal Of Nuclear Medicine, Vol .11, Issue 2, May 2012.Pubmed
- 44- An Effective Hair Removal Algorithm For Dermoscopy Images, Mohammad Taghi Bahreyni Toossi, Hamid Reza Pourreza, Hoda Zare, Mohamad-Hoseyn Sigari5 And Pouran Layegh, Skin Research And Technology , 2012; 0: 1–6. Isi=1/3
- 45- Expression Of Apoptotic Genes Can Distinguish Radiation Workers From Normal Population .M. T. Bahrreyni Toossi, R.Fardid, A. Rezaee . A. Sadr Nabavi, H. Rafatpanah, M. Babolian, International Journal Of Lowradiation, Vol. 8, No. 5/6 2012. Isi
- 46- Simulation Of Quality Control Jaszczak Phantom Whit Simind Monte Carlo And Adding The Phantom As An Accessory To The Program, Jalil Pirayesh Islamian , M. T. Bahreyni Toossi, Mehdi Momennezhad, Shahrokh Naseri, Michael Ljungberg, Iranian Journal Of Medical Physics , Vol 9, 2012 , Accepted: July 10 ,2012.Scopus
- 47- A Retrospective Analysis Of Rectal And Bladder Dose For Gynecological Brachytherapy Treatments With Gzp6 Hdr Afterloading System. M. T. Bahreyni Toossi, M. Ghorbani, Y. Makhdoumi, Mojtaba Taheri, F. Homae Shandiz, S. Zahed Anaraki, A. Soleimani Meigooni. Reports Of Practical Oncology And Radiotherap, 2012, 352-357.
- 48- Comparing The Level Of Bystander Effect In A Couple Of Tumor And Normal Cell Lines. Sh. Soleymanifard, M. T Bahreyni Toossi, Journal Of Medical Physics, Vol. 37, No. 2, 102-6. 2012.Pubmed
- 49- Radiation Dose To Infants In Neonatal Intensive Care Units, M.T.Bahreyni Toossi , M . Malekzadeh, Iranian Journal Of Radiology,2012.Isi
- 50- Application Of A Color Scanner For 60co High Dose Rate Brachytherapy Dosimetry With Ebt Radiochromic Film. M. Ghorbani, M. T. Bahreyni

- Toossi, A. A. Mowlavi, Sh. Bayani Roodi, A. Soleimani Meigooni. Radiology And Oncology. Radiol Oncol 2012, 46(4), 363-369. Isi
- 51- Dosimetric Characterizations Of Gz6 60co High Dose Rate Brachytherapy Sources: Application Of Superimposition Method, M. T. Bahreyni Toossi, M. Ghorbani, A. A. Mowlavi, A. Soleimani Meigooni. Radiology And Oncology. Vol.46, No.2, June 2012. Isi
- 52- Monte Carlo Simulation For Neptun 10pc Medical Linear Accelerator And Calculation Of Output Factor For Electron Beam , M. T . Bahreyni Toossi , M .Momennezhad , M. Hashemi , Report Of Practical Oncology & Radiotherapy, March 2012. Embase
- 53- Monte Carlo Dose Calculation Of Gz6 60co Stepping Source Based On The Matrix Shift Technique. M. T. Bahreyni Toossi, M. Abdollahi, M. Ghorbani. Reports Of Practical Oncology And Radiotherapy, Vol.16, No.1, 2012. Embase
- 54- A Monte Carlo Study On Tissue Dose Enhancement In Brachytherapy : A Comparison Between Gadolinium And Gold Nanoparticles , M. T. Bahreyni Toossi , M . Ghorbani , M.Mehrpouyan , F. Akbari , L. Sobhkhiz , A. Soleimani Meigooni , Australas Phys Eng Sci Med , 2012, 35(2) 85-177
- 55- Excess Cancer Risk Assessment From Some Common X-Ray Examination In Sabzevar County- Iran, M. T. Bahreyni Toossi, A. Zarghani. Iranian Journal Of Medical Physics, Vol .8, No.3, Serial Number 32, Autumn 2011. Scopus
- 56- Image Optimization In Single Photon Emission Computed Tomography By Hardware Modifications With Monte Carlo Simulation, M .T. Bahreyni Toossi, J. Pirayesh Islamian, M. Momennezhad, S. R. Zakavi, R. Sadeghi. Lejonberg M. Iranian Journal Of Medical Physics, Vol 7, No.2, Serial Number 27, Summer 2010. Scopus
- 57- An Evaluation Of The Dose Distribution Accuracy In HDR Brachytherapy Of Esophagus Cancer With MRI Thermoxic Polymer Gel Dosimetry. Bahreyni Toossi M.T, Gh. Safayian, M. H. Bahreyni Toossi, Sh. Bayani. Iranian Journal Of Medical Physics, 26(7), 2010 Pp 1-14. Scopus
- 58- An Assessment Of Spinal Cord Dose Following Radiotherapy Of Nasopharyngeal Cancer By TLD And RANDO Phantom, M. T. Bahreyni Toossi, E. Rajab Bolokat , R. Salek, Sh. Bayani, H. Gholamhoseinian, M. Layegh, H. Saeidi. Iranian Journal Of Medical Physics, Vol.6, No.3&4, Autumn&Winter 2010. Scopus
- 59- Demonstration Of Radiation Induced Bystander Effect In A Human Lung Cancer Cell Line. International Journal Of Low Radiation, M. T. Bahreyni Toossi, S. Soleymani, M. Mahmoudi, A. Sazegarnia, International Journal Of Low Radiation. Vol. 7, No.4, 2010 Pp 298-305. Isi

- 60- Air Kerma Strength Characterization Of A Gz6 Cobalt-60 Brachytherapy Source. M. T. Bahreyni Toossi, M. Ghorbani, A. A. Mowlavi, M. Taheri, M. Layegh, Y. Makhdoumi , A. Soleimani Meigooni, . Reports Of Practical Oncology And Radiotherapy Vol .15, No. 6 , 2010 Pp 190-194.Embase
- 61- A Monte Carlo Simulation And Dosimetric Verification Of Physical Wedges Used In Radiation Therapy. Iran Journal Of Radiation Research, M. Momennezhad, M.T. Bahreyni Toossi, R. Sadeghi, H. Gholamhoseinian, Sh. Nasser. 2010; 7(4): 223-227.Isi
- 62- Simind Monte Carlo Simulation Of A Single Photon Emission Ct. Indian Journal Of Medical Physics. M. T. Bahreyni Toossi, J. Pirayesh Islamian, M. Momennezhad, M. Ljungberg, S. H. Naseri . 2010 Jan-Mar; 35(1): 42–47.Scopus
- 63- Application Of Mri Normoxic Polymer Gel Dosimetry For The Evaluation Of Radiation Dose Distribution In External Beam Radiotherapy, M. T. Bahreyni Toossi, M.H. Bahreyni Toossi, Gh. Safaeian, A.Hashemian , Sh. Bayani, Ifmbe Proceeding 25/I ,Pp72-75,2009.
- 64- Design And Fabrication Of The Control Part Of A Prototype Multileaf Collimator System, M. T. Bahreyni Toossi , A.Hashemian , Sh .Nasser, , Ifmbe Proceeding 25/I ,Pp155-157,2009.
- 65- Radiation Exposure To Critical Organs In Orthopantomography, M.T. Bahreyni Toossi, F. Akbari, Sh. Bayani, A. Jafari , M. Malakzadeh. Ifmbe Proceeding 25/I, Pp89-92, 2009.
- 66- First Report Of Radiation Dose To Pediatric Patients Arising From Diagnostic Chest And Abdomen Examination, M. Malekzadeh, M. T. Bahreyni Toossi , Sh. Bayani Rodi , M.T. Shakeri , F. Akbari. Ifmbe Proceeding 25/I, Pp93-95, 2009.
- 67- Monte Carlo Simulation Of Linear Accelerator And Electron Beams Used In Radiotherapy. M. T. Bahreyni Toossi, M. Momen Nezhad, M. Hashemi. Indian Journal Of Medical Physics, Vol .6, No. 2, Serial Number 23, Summer 2009.Scopus
- 68- Gonad, Bone Marrow And Effective Dose To The Population Of More Than 90 Towns And Cities Of Iran, Arising From Environmental Gamma Radiation. M.T. Bahreyni Toossi , Sh. Bayani, M. Yarahmadi, A. Aghamir, A. Jomehzadeh, M. Hagh Parast , A. Tamjjidi . Iranian Journal Of Radiation Research, Ijrr. Vol. 7, No .1, P: 41-47, 2009.Isi
- 69- Radiation Bystander Effects Mechanism, Sh. Soleymanifard, M. T. Bahreyni Toossi. Iranian Jounal Of Medical Physics, Vol.6, No.2, Serial Number 23, Summer2009.Scopus
- 70- Review Article: An Overview On The Patient Dose From Diagnostic Radiology In The United States Of America Over The Past 50 Years.

- Abdulahi M. Bahreyni Toossi M. T. Iranian Journal Of Medical Physics, Vol 6, No 1, Spring 2009.Scopus
- 71- Review Article: Mechanism Of The Creation Of Radiation Neighbourhood Effect. Sh. Soleymanfard. M.T. Bahreyni Toossi. Iranian Journal Of Medical Physics, Vol 6, No 2, Summer 2009.Scopus
- 72- Review Paper: Population Exposure From The Medical X-Rays In Germany In The Years 1996 To 2005. M. Abdullahi, M. T. Bahreyni Toossi. Iranian Journal Of Medical Physics, Vol 6, No 4, (25), Winter 2009.Scopus
- 73- Cervical Spine Dose Measurement In The Nasopharynx Cancer Radiotherapy With Rando Phantom. Bahreyni Toossi M.T. E. Rajab Blookat.,R. Salek , Sh. Bayani, H. Gholamhoseynian, M. Layegh , M. Saedi. Iranian Journal Of Medical Physics, Vol 6, No 3, (24), Winter 2009.Scopus
- 74- Doses To Patients In Some Routine Diagnostic X-Ray Examinations In Iran: Proposed The First Iranian Diagnostic Rreference Levels. M. Asadinezhad, M. T. Bahreyni Toossi. Radiation Protection Dosimetry. 132(4) Pp. 409-414, Dec 2008.Isi
- 75- Evaluation Of The Effectiveness Of The Lead Aprons And Thyroid Shields Worn By Cardiologists In Angiography Departments Of Two Main General Hospitals In Mashhad. M. T. Bahreyni Toossi, H. Zare, Sh. Bayani , S. Esmaili . Iranian Journal Of Nuclear Sciences And Technology, Supplement 5, June 2008.
- 76- First Report Of Environmental Gamma Radiation Levels In Twenty Four Towns And Cities Of Khorasan Region-Iran. M.T. Bahreyni Toossi, Sh. Bayani, M.R.Abdolrahimi A.Sazgarnia .Journal Of Nuclear Sciences And Technology, Supplement 5, P. 602–605 , June 2008.
- 77- Organ And Effective Doses Of Patients Arising From Coronary Angiography And Percutaneous Transluminal Coronary Angioplasty At Two Hospitals In Mashhad-Iran. M. T. Bahreyni Toossi, H. Zare, Sh. Bayani, S. Esmaili. Radiat Prot Dosimetry (2008) 128 (3): 363-366.Isi
- 78- The First Stereotatic Linear-Based Radiosurgery In Iran. A. R. Khoshbin Khoshnazar, M.T. Bahreyni Toossi, A. R. Hashemian, R. Salek. Journal Of Isfahan Medical School. Vol. 25, No. 86, 2007.
- 79- Local Diagnostic Reference Levels For Some Common Diagnostic X-Ray Examinations In Tehran County Of Iran. M. T. Bahreyni Toossi, M. Asadinezhad. Radiation Protection Dosimetry. 2007; 124(2):137-44. Epub 2007 May 10.Isi
- 80- Design And Construction Of The Mechanical Part Of An Experimental Multileaf Collimator System.M. T. Bahreyni Toossi, A.R Hashemian, Sh. Naseri, H. Rafati Hemayati. Iranian Journal Of Medical Physics, Vol 4, No 2, Winter And Fall 2007.Scopus

- 81- The Effect Of Magnetic Fields On The Reduction Of Electron Contamination Of The Photon Beams Produced By Nepton Accelerators. H. Saberi, M. T. Bahreyni Toossi. Iranian Journal Of Medical Physics, Vol 3, No 13. Winter 2006.Scopus
- 82- Determiration Of Entrance Skin Dose Arising From Conventional X-Ray Examinations In 15 Radiological Centers By Thermoluminescent Dosimeters. M.T. Bahreyni Toossi , S. Esmayili. Iranian Journal Of Medical Physics, Vol 3, No 12, Fall 2006.Scopus
- 83- Assessment Of The Absorbed Dose Of The Flight Crew In Inside Flights. M. Hajizadeh Safar. M.T Bahreyni Toossi. Iranian Journal Of Basic Medical Sciences, Vol 9, No 3, (31), Fall 2006.Isi
- 84- Monte Carlo Simulation Of X-Ray Spectra Produced By Diagnostic X-Ray Machine By Mcnp-4c And Investigation Of Different Variable Effects. M. T. Bahreyni Toossi, H. Moradi, H. Zare. Iranian Journal Of Medical Physics, Volume 3, N0 11, Summer 2006, 415-419.Scopus
- 85- An Evaluation Of The Organ Dose Received By Cardiologists Arising From Angiography And Angioplasty Examinations In Two Educational Hospitals In Mashhad. H. Zare, M.T. Bahreyni Toossi, Sh. Bayani, S. Esmaili. Iranian Journal Of Medical Physics, Volume 3, N0 11, Summer 2006.Scopus
- 86- Application Of Dose-Area Product Compared With Three Other Dosimetric Quantities Used To Estimate Patient Effective Dose In Diagnostic Radiology. M.T. Bahreyni Toossi, M. Nazery, H. Zare. Iranian Journal Of Radiation Research. Vol. 4, No. 1. Summer 2006.Isi
- 87- Survey Of Chest X-Ray Examination In Iran And Suggestion Of National Diagnostic Reference Level. M.T. Bahreyni Toossi, A. Asadinezhad. Iranian Journal Of Medical Physics. Vol. 2, No. 9, Winter 2006.Scopus
- 88- Development Of Head Docking Device For Linac-Based Radiosurgery With A Neptun 10 Pc Linac. A. R. Khoshbin Khoshnazar, M. T. Bahreyni Toossi, A. R. Hashemian, R. Salek. Physics Medica. Volume Xxii, No. 1, January-March 2006.
- 89- Treatment Planning Stereotactic Radiosurgery: Arc Length, Interval Between Arcs And Weighting In Multiple Isocenters Treatment. M. T. Bahreyni Toossi, A. Khoshbeen-Khoshnazar, A. Hashemian, R. Salek, M.H. Bahreyni Toossi. Iranian Journal Of Medical Physics, Vol. 1, No. 4 2006.Scopus
- 90- The Effect Of Pitch Factor On The Quality Of Chest Ct Scans Performed By Conventional And Spiral Ct Machines. M. T. Bahreyni Toossi, S. Shahriaran, F. Abahashemi. Iranian Journal Of Medical Physics, Vol. 1, No. 4 . 2006.Scopus

- 91- Quality Assurance Program For Prototype Stereotactic System Developed For Neptun 10 Pc Linac. A. R. Khoshbin Khoshnazar, M. T. Bahreyni Toossi, A. R. Hashemian, M. H. Bahreyni Toossi, R. Salek. Iranian Journal Of Radiation Research. 2005; 3(2): 73-78.Isi
- 92- Evaluation Of Annual Effective Dose And Equivalent Dose Of Sensitive Organs Of General Population In Kurdistan Province, Arising From Environmental Gamma Radiation. M. T. Bahreyni Toossi, M. Yarahmadi. Scientific Journal Of Kurdistan University Of Medical Sciences. Vol. 10, No. 1, Spring 2005.
- 93- An Assessment Of The Dose Received By The Cervical Spinal Cord In Treating The Upper Esophageal Tumors By Use Of A Soft Tissue (Equivalent) Phantom. M. T. Bahreyni Toossi, M. Seylanian Toossi, G. Safayean Laien. M. Moghaddaszadeh Bazaz. Iranian Journal Of Medical Physics, Vol. 1, NO .6, Spring 2005.Scopus
- 94- Comparison Of Environmental Gamma Radiation Of Kerman Province And Indoor Gamma Dose Rate In Kerman City Using Thermoluminescent Dosimeter (Tld) And Rds-110. M.T. Bahreyni Toossi, A. Jomehzadeh. Quarterly Journal Of Hormozgan University Of Medical Sciences. Vol. 9, No. 3. Autumn 2005. 173-180.
- 95- Organ And Effective Dose Arising From Conventional Diagnostic X-Ray Examinations By Monte Carlo Simulation (Mcnp-4c Code). M.T. Bahreyni Toossi, H. Zare. Iranian Journal Of Radiation Research Vol. 3, No. 1, June 2005.Isi
- 96- An Evaluation Of Chest X-Rays Radiographies In Iran And Proposition Of A National Reference Dose For It.M. T. Bahreyni Toossi, M. Asadinejad. Iranian Journal Of Medical Physics, Vol 2, No 9, Winter 2005, Pages 22-11.Scopus
- 97- The Effect Of Different Filters And A Full Bag Of Helium On Reduction Of Electron Contamination Of The Photon Beams Of Neptune10 Pc Linc .M. T. Bahreyni Toossi, H. Saberi, M. Momennejad. Iranian Journal Of Medical Physics, Vol 2, No 8, Fall 2005, Pages 9-20.Scopus
- 98- Monte Carlo Simulation Of The Photon Beams Produced By A Linear Accelerator. M. T. Bahreyni Toossi, M. Momennejad, H. Saberi, H. Miri, R. Salek , M. H. Bahreyni Toossi. Iranian Journal Of Medical Physics, Vol 2, No 7, Summer 2005.Scopus
- 99- Design And Construction Of A Head Fixation Equipment For Stereotaxic By Bed Mounting Technique. A. Koshbin Koshnazar, M. T. Bahreyni Toossi, A. R. Hashemian, M. H. Bahreni Toossi, R. Salek Iranian Journal Of Medical Physicscs, Vol 2, No 7, Summer 2005.Scopus
- 100- Development Of Prototype Stereotactic Collimation Assembly For Neptun 10 Pc Linac. M. T. Bahreyni Toossi, A. R. Khoshbin Khoshnazar.

- Iranian Journal Of Radiation Research. Vol. 2, No. 3, December. 2004. 135-140.Isi
- 101- Measurement Of Stereotactic Beam Data Of 9 Mv X-Rays Using Diode Detector. M. T. Bahreyni Toossi, A. R. Khoshbin Khoshnazar. Iranian Journal Of Radiation Research, Vol. 2, No. 2, September 2004, 79-84. Isi
- 102- Measurement And Comparison Of Thyroid Dose Due To Scattered Radiation In Different Methods Of Thorax Ct Scan. M. T. Bahreyni Toossi, A. K. Sharafi, F. Abahashemi. Iranian Journal Of Basic Medical Sciences, Vol. 6, No. 1, 2003.Isi
- 103- Production Of  $^{75}\text{se}$  For Nuclear Medicine Applications By  $^{75}\text{as}$  (P,N) Reaction. M. T. Bahreyni Toossi, H. Afarideh, P. Rowshanfarzad. Iranian Journal Of Basic Medical Sciences, Vol. 5, No. 4, 2002.Isi
- 104- An Assessment Of The Effects Of Different Dose Levels Of Gamma Rays On Hprt Gene Of T-Cells From Human Peripheral Blood. M. T. Bahreyni Toossi, T. Hamzehluee, M. Rezaee. Iranian Journal Of Basic Medical Sciences, Vol. 5, No. 3, 2002.Isi
- 105- Absorbed Dose In Thyroid And Eyes Lenses Ct Scans Of Head And Neck. M. T. Bahreyni Toossi, M. T. Tavakoli, Gh, Mansoorzadeh. Medical Journal Of Mashhad University Of Medical Sciences, Spring 2002; 45(75):9-18.
- 106- An Evaluation Of Rectal Dose Arising From Different Techniques Applied Of Cancers Of Cervix, Prostate And Bladder. M. T. Bahreyni Toossi, M. R. Ghavam Nasiri, Sh. Soleymanifard. Medical Journal Of Mashhad University Of Medical Sciences, Fall 2001; 44(73):22-30.
- 107- An Evaluation Of Organ And Effective Dose Arising From Diagnostic Chest X-Ray Procedure In Ghaem Hospital- Mashhad. M. Hadjzadeh-Saffar, M. T. Bahreyni Toossi, N. Gharea Ghajee. Medical Journal Of Mashhad University Of Medical Sciences, Vol. 45, No. 70, P: 9-13, 2001.
- 108- An Assessment Of Effective Dose Arising From Conventional Radiographies In Mashhad Ghaem Hospital. M. T. Bahreyni Toossi, M. Hadjzadeh-Saffar, N. Ghareh Aghaji. Medical Journal Of Mashhad University Of Medical Sciences, Vol. 43, No. 69, 2000.
- 109- An Investigation Of Chromosomal Aberrations Incidence In Radiographers Of Mashhad Radiological Centers. M. T. Bahreyni Toossi, M. Hasan Zadeh, M. Elhami. Medical Journal Of Mashhad University Of Medical Sciences, Vol. 43, No. 68 , 2000 Pp 15-17.
- 110- Estimation Of Environmental Gamma Background Radiation Levels In Azarbayjan- Iran. M. T. Bahreyni Toossi, A. Sadeghzadeh. Iranian Journal Of Medical Sciences, Vol. 3, No. 1, 2000.Isi



- 111- Evaluation Of The Absorbed Doses In Thyroid, Bone Marrow, Lung And The Effective Dose In Chest X-Ray Radiography. M. T. Bahreyni Toossi, M. Hadjzadeh-Saffar. Medical Journal Of Mashhad University Of Medical Sciences, Vol. 42, No. 66, 1999.
- 112- An Investigation Of Environmental  $\alpha$ -Radiation Rate In Mashhad And Rural Area. M.T. Bahreyni Toossi, M. H. Orouji. Iranian Journal Of Basic Medical Sciences. Vol. 2, No. 3. Autumn 1999. 117-173.Isi
- 113- Output Beam Dosimetry Of Two Radiology Devices In Mashhad Ghaem Hospital And Analyzing The Variations Based On Different Factors. M. T. Bahreyni Toossi, M. Hajizadeh Safar. Mashad University Of Medical Sciences, No 65, Vol 4, Fall 1999.

#### List of Thesis Supervised:

- ❖ **Dose distribution assessment in organ at risk for different breast cancer radiotherapy techniques in iran using mont carlo code.** Phd Thesis .2019( marziyeh behmadi)
- ❖ **In Vestigating The Effect Of Combination Of Low Dose Radiation (Total Body And High Local Radiation On The Induction Of Immune System Response And Control Of Tumor Growth ..** MSC Thesis .2019(Afsaneh Kasiri).
- ❖ An Assessment Of Occupational Exposure Of Cardiologist Arising From CA Procedures Of Children And Entrance Skin Dose Of These Patients By Application Of DAP Values .MSC Thesis .2019( Zahra Eslami)
- ❖ Comparison Between Geant 4 Predicted Surviving Fraction And Experimentally Surviving Rraction Determined By MTT Assay . Phd Thesis .2018. (Sara Mohammadi)
- ❖ In Vitro Study Of Radiasensitivity In Breast Cancer Patients . PhD Thesis .2018. (Hosein Azimian)
- ❖ Assessment of neutron contamination originating from the presence of wedge and block in radiotherapy with medical linac . Msc Thesis. 2016. (**Benyamin Khajehtash**)
- ❖ Assessment of radiation dose to the tumor bed, lymphatic nodes and organs at risk in radiotherapy of breast cancer By use of Rando phantom and TLD (Comparison of photon beam therapy and electron beam therapy). Msc Thesis. 2016. (**Ashraf Farkhari**).
- ❖ Evaluation of adaptive response induced by low-dose ionizing radiation by measuring IFN- $\gamma$ , TGF- $\beta$ , IL-4 genes expression in spleen lymphocytes of Balb/c Mice. Msc Thesis. 2016. (**Sepideh Abdolahi**).
- ❖ Effects of low-doses ionizing radiation on IFN- $\gamma$ , TGF- $\beta$ , IL-4 genes expression in spleen lymphocytes of Balb/c Mice. Msc Thesis. 2016. (**Maryam najafi**).
- ❖ An assessment of skin dose arising from head and neck radiotherapy with 6 Mv photon beam a medical Linac by means of radiochromic film and Monte carlo simulation. Msc Thesis. 2015 (**Farideh Khorshidi**).
- ❖ tumor and critical organ s dose arising from different radiotherapy techniques applied to parotid gland :a comparison between calculated and measured dose. . Msc Thesis. 2015 (**Atefeh Vejdani**).

- ❖ Dosimetric Evaluation Of Treatment Fields Using Of An Electronic Portal Imaging Device(Epid) , Phd Thesis. 2015 (**Hamid Gholamhosseinian**).
- ❖ Quality Control Of The Tigrt Radiotherapy Treatment Planning System For Complex Fields:Dose Calculation. Msc Thesis. 2015 (**Bagher Farhood**)
- ❖ in- vivo exposure effects of 99m tc- mibi on the fdxr and xpa genes expression in human peripheral blood lymphocytes . Msc Thesis. 2015 (**Habibeh Vosoughi**).
- ❖ A comparison between radiochromic film dosimetry and Monte carlo simulation in assessment of skin dose in breast radiotherapy with 6 Mv photon beam of medical linac. Msc Thesis. 2015. (**Nastaran Mohamadian**).
- ❖ An Attempt The Establish Local Diagnostic Refernce Levels Arising Digital Radiography In Khorasan Razavi Province . Msc Thesis. 2014. (**Leyla Dehnavi**)
- ❖ An Assessment Of Dose – Response Relationship Of Radiation Induced Bystander Effect Of Tumoral And Normal Lung Cell Lines Exposed To High Doses Of Ionizing Radiation . March2014, Msc Thesis ( **Sara Khademi**).
- ❖ Evaluation Of Radiation Absorbed Dose In Conventional Dental Imagings And Cone Beam Computer Tomography (Cbct). Febrary 2014 , Mph Thesis ( **Azam Ahmadian**)
- ❖ An Assessment Of Maximum Patient Skin Dose Arising From Cardiac Angiography Procedures Based On Measured Dap Values. Aguest 2013, Msc Thesis (**Mohsen Khosroabadi**)
- ❖ Estimation Of The Sensitive Organs Doses In Patient And Staff Head Arising From Cardiac Angiography Procedures Based On Measured Dap Values(**Fatemeh Kavousi**)
- ❖ An Estimation Of Second Order Bystander Effects Of Normal And Tumoral Lung Cell Lines. January 2013, Msc Thesis.( **Shokoufeh Mohebbi**)
- ❖ Evaluation Of Maximum Patient Skin Dose Arising From Interventional Cardiology Using Thermoluminescence Dosimeter In Imam Reza And Javad-Al Aemmeh Hospitals, Mashad. February 2013, Msc Thesis .( **Farideh Baradaran Hosseini**)
- ❖ Early Detection Of Melanoma In Dermoscopy Of Skin Lesion Images By Computer Vision Based System. February 2013, Ph.D Thesis ( **Hoda Zare**)
- ❖ An Assessment Of Dose Fractionation On The Level Of Bystander Effect Induced By Radiation. December2012, Msc Thesis ( **Roghayeh Kamran Samani**).
- ❖ Comparison Pituitary Tumors Sensitive Organ Dose , Provided By Tps And Direct Measurement Arising From Different Radiotherapy Techniques. November 2012 , Msc Thesis ( **Leila Sobh Khiz Sabet**)
- ❖ Evaluation Of Dose Distribution In Breast, Internal Mammary Lymph Nodes , Heart And Lungs In Radiotherapy Of Breast Cancer By Use The Rando Phantom And Tld (Comparison Of Different Techniques. September 2012, Msc Thesis. (**Zahra Aghagolizade Boghmech**)
- ❖ Assessment Of Gene Expression Changes Of P53 , Infg, Tgf-B ,Xpa,Gos2, Pf4 In Peripheral Blood Lymphocytes Of Medical Radiation Worker, October2012, Ph.D Thesis ( **Reza Fardid**)
- ❖ Comparision Of Absorbed Dose Of Sensitive Organs Of Maxillofacial Region , Inpanoramic, Waters , Caldwell, Tmj And Cbct Techniques, Spring2012 ,Dds. Thesis(**Mona Pourazad**)

- ❖ A Mont Carlo Study On Electron And Neutron Contamination In The Presence Of Hip Prosthesis In Photon Mode Of A 15 Mv Siemens Primus Linac, August 2012 , M.Sc. Thesis(**Marziyeh Behmadi**)
- ❖ An Evaluation Of Occupational Doses To Cardiologist Arising From Cardiac Angiography Procedures Based On Utilization Of Dap (Dose Area Product), March 2012, M.Sc. Thesis, (**Mohammad Mehrpouyan**).
- ❖ Evaluation Of Local Diagnostic Dose Reference Levels Arising :From Pediatric Ct Examination For Khorasan Province 2012 Jan , M.Sc. Thesis,(**Hormoz Abedi**)
- ❖ Effect Of Time The Modified Bax & Bcl-2 Genes Expression In Human Peripheral Blood Lymphocytes, Low Doses Of Ionizing Radiation, September 2011, (**Hosein Azimian**).
- ❖ Evaluation Of Dosimetric Parametrs Of The Gzp6 High Dose Rate Intracavitary, Brachytherapy Unit By Monte Carlo Simulation, Treatment Planning System And Radiochromic Film And Thermoluminescence Dosimetry, 2011. Ph.D. Thesis.(**Mehdi Ghorbani**)
- ❖ Mont Carlo Simulation Of Stepping Source (Channel 6) Of Gzp6 Afterloading Interacavitary Brachytherapy Unit. July 2010. M.Sc. Thesis( **Maliheh Abdollahi**)
- ❖ In Vitro Study Of Radiation Induced Bystander Effect In A Couple Of Tumoral And Normal Cell Lines. 2010. Ph.D. Thesis.
  - (**Shokhozzaman Solymanifard**)
- ❖ Determination Of The Diagnostic Reference Dose Levels For Panoramic Imaging In The Greater Khorasan Province. 2010. M.Sc. Thesis. (**F.Akbari**)
- ❖ Mont Carlo Simulation Of Single Photon Emission Computed Tomography Imaging System And Assessment Of Parameters Affecting Image Quality. April 2010, Ph.D. Thesis, (**Jalil Pirayesh Islamian**)
- ❖ Evaluation Of Reference Dose Levels For Adults Arising From Adult Ct Examinations In Southern Northern And Razavi Khorasan Province, 2011. M.Sc. Thesis. (**Mohamad Bahrami**).
- ❖ Microvolt T Wave Alternans Analysis Desion Using Ecgsignals For Sudden Cardiac Death Prevention. October 2009. M.Sc. Thesis. (**Golsa Tabatabaei Yazdi**.)
- ❖ Fabrication, Calibration And Implementation Of Mri Normoxic Ploymergel Dosimetry In Radiotherapy For Evaluation Of Dose Distributions, 2009. Ph.D.Thesis (**Ghorban Safaeian Lain**).
- ❖ Suggesting A Local Reference Dose Levels And Effective Dose Assessment For Common Padiatric Diagnostic X-Ray Examination In Khorasan Razavi Province.July 2009. M.Sc. Thesis( **Malakeh Malekzadeh**).
- ❖ Determination Of Local Reference Dose Due To Common Radiographies In Sabzevar City. 2008. M.Sc. Thesis.(**Hasan Zarghani**)
- ❖ Measurement Of The Dose For Sensitive Organs In The Treatment Of Nazopharynx Cancer With Rando Phantom And Thermoluminescent Dosimeter.2008. M.Sc. Thesis (**Eftekhari Rajab Boloukat**).
- ❖ Design And Construction Of Mechanical Parts Of An Experimental Multileaf Collimator System. 2008. Ph.D. Thesis.(**Shahrokh Naseri**)

- ❖ Mont Carlo Simulation For Neptun 10pc Medical Linear Accelerator And Calculations Of Electron Beam Parameters. Sep. 2007. M.Sc. Thesis (**Seyed Mohammad Hashemi**).
- ❖ National Survey Of Doses From Routine Diagnostic X-Ray Examination In Iran, Mar 2007. Ph.D. Thesis (**Mohsen Asadinezhad**)
- ❖ Mont Carlo Simulation Of X-Ray Spectra Of Diagnostic X-Ray Machine By Mcnp 4c And Designing The Required Software For User Friendly Operation.Sep 2006. M.Sc. Thesis (**Habiballah Moradi Fardanbeh**).
- ❖ Investigation Of Dosimetric Parameters Of Radiation Fields Utilized In Conventional And Srs Techniques. July 2006. , Ph.D. Thesis (**Mehdi Momennezhad**).
- ❖ 39- Measurment Of Esd Of Patients Who Undertake Conventional Diagnostic Examinations And Quality Control Of Relevant Machines In 15 Radiological Departments In Mashhad, 2006, M.Sc. Thesis (**Sasan Esmaili**).
- ❖ An Investigation Of Outdoor Environmental Gamma Radiation Level In Towns Of Sistan – Baluchestan And Hormozgan Provinces. April 2006, M.Sc. Thesis (**Mohammad Haghparast**).
- ❖ Optimization Of The Techniques Used For Electron Decontamination Of The High Energy Photons Used In Radiotherapy. 2005. Ph.D. Thesis.(**Hasan Saberi**)
- ❖ Design, Construction And Set Up Of The Linac –Based Stereotactic Radiosurgery For Neptun 10pc Linac Of Imam Reza Hospital, January 2005,. Ph.D. Thesis (**Alireza Khoshbin Khoshnazar**)
- ❖ Study Of The Absorbed Dose In Cervical Spine Dose Following To Radiotherapy Of The Upper Esophagus Tumors In The Soft Tissue Equivalent Phantom. 2004. M.Sc. Thesis (**Mehdi Moghadaszadeh**)
- ❖ Measurement And Comparison Of Thyroid Dose In Chest X-Ray Between Spiral Ct Scan And Conventional Ct Scan Systems Using Thermoluminescent Dosimetry. 2004(**Firoozeh Abahashemi**)
- ❖ An Assessment Of Absorbed Organ Dose Arising From Conventional Diagnostic X-Ray Examinations By Monte Carlo Simulation (Mcnp-4c Code). 2003. M.Sc. Thesis (**Hoda Zare**)
- ❖ 46- Evaluation Of Dose From Environmental Gamma Radiation In Mazandaran State Cities Using Rds-110 Survey Meter. 2003. M.Sc. Thesis (**Ahmad Aghamiri**)
- ❖ Study Of Outdoor And Indoor Background Radiation In Kerman State Cities And Comparison Of Gamma Radiation Dose Rate In Indoor Environment Using Thermoluminescent Dosimetry (Tld) And Rds-110 Dosimeter In The Kerman City. 2003. M.Sc. Thesis (**Ali Jomezadeh**)
- ❖ Evaluation Of Organ Dose In Some Common Radiographies Using Thermoluminescent Dosimetry And Rando Panthom With Dap System. 2003. M.Sc. Thesis (**Maryam Mojiri**)
- ❖ Quality Control Of Diagnostic X-Ray Machines In Medical Centers Of Zanjan University. 2002. M.Sc. Thesis (**Faranak Saghatchi**)
- ❖ Comparison Of Radiotherapy Techniques Of Cervix, Prostate And Urinary Bladder According To The Rectum Dose (Using Planning Data And Radiation Dosimetry Physics).2000. M.Sc. Thesis (**Shokohozzaman Solymanifard**).
- ❖ Assessment Of Background Radiation At Outdoor And Indoor Environments Of Kordestan State Cities. 1999. M.Sc. Thesis (**Mohammad Hosein Orouji**)

- ❖ The Effect Of Different Gamma Dose Rays On Hprt Gene Of T Cells Of Peripheral Human Blood. 2000. M.Sc. Thesis (**Mohammad Rezaei**)
- ❖ Assessment Of Thyroid And Eye Lens Dose With Thermoluminescent Dosimetry (Tld) In The Head And Neck Ct Scan Imaging. 1999. M.Sc. Thesis (**Gholamreza Mansourzadeh**)
- ❖ The Study Of Background Radiation And The Factors It Is Dependent On In The Azerbaijan Region. 1999.(**Ahmad Sadeghzadeh**)
- ❖ The Study Of Concentration Of Cu, Fe, Zn And Mg In The Blood Serum Of Radiation Workers In Mashhad Medical Centers. 1999. M.Sc. Thesis ( **Nahid Amini**)
- ❖ The Evaluation Of Organ Dose And Effective Dose From Common Radiographies In Mashhad Ghaem Hospital. 1998.(**Nahid Ghareaghaji**)
- ❖ Preparation Of Piezoelectric Crystal For Medical Applications. 1998. M.Sc. Thesis (**Mohammad Sadegh Sadeghi**)
- ❖ An Assessment Of Chromosomal Aberration In Radiological Technologists Of Mashhad Hospitals.1376. 1997. M.Sc.Thesis (**Mehrdad Elhami**)
- ❖ Study Of The Physical Factors Effectiveness On The Quality Of Radiographic Images. 1993. M.Sc. Thesis (**Fereydoon Sabet**).
- ❖ An Assessment Of Indoor & Outdoor Back Ground Radiation In Twons Of Kurdistan County- Iran, Feb-1992. M.Sc. (**Mehran – Yarahmadi**)

#### **Books**

##### **- Radiation Protection In Hospitals.**

R.F.Mould

##### **Translated By:**

Dr. M.T.Bahreyni Toossi, Ph.D.

M.Sabet, M.Sc

Mashhad University Of Medical Sciences.

**2002**

##### **- Computed Tomography**

Dr. M.T.Bahreyni Toossi, Ph.D.

M.Rezai, M.Sc

Mashhad University Of Medical Sciences.

**2005**

##### **- Medical Physics For Medical & Dental Students**

Dr. J. Abolhasani, Ph.D.

Dr. M.T.Bahreyni Toossi, Ph.D.

Dr. S. Sarkar, Ph.D.

Dr. A. Sharafi, Ph.D.

Dr. M. A. Oghabian, Ph.D.

**2006**

**&**

**2011**

#### **Courses Taught:**

Physics For Nurses  
Physics For Allied Health Professionals  
Radiation Physics For Technologists  
Physics Of Diagnostic Radiology For Technicians Radiographers  
Radiobiology And Radiation Protection For Technicians Radiographers  
Radiobiology For Technologists  
Medical Physics For Students Of Medicine And Dentistry  
Physics Of Diagnostic Radiology For M.Sc. Students Of Medical Physics  
Radiobiology For M.Sc. Students Of Medical Physics  
Environmental Monitoring And Radioactive Waste Disposal For M.Sc. Students Of  
Medical Physics  
Radiation Protection For Ph.D. Students Of Medical Physics  
Radiobiology For Ph.D. Students Of Medical Physics