



Curriculum Vitae

Update on 19/Nov/2018

Name: Ali Asghar

Surname: Parach

Date and place of Birth: 21/September/1981

Marital status:Married

Affiliation:

Assistant of Medical Physics, Department of Medical Physics, ShahidSadoughi
University of medical sciences, Yazd, Iran

Tel: +983516240691

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University Education:

PhD: Medical Physics, Department of Medical Physics, Faculty of Medical Sciences, Tarbiat Modares University, Tehran, Iran (2012)

MSc: Medical Physics, Department of Medical Physics, Faculty of Medical Sciences, Iran University of Medical Sciences, Tehran, Iran (2003-2006)

BSc: Nuclear Physics, Department of Physics, Faculty of Basic Sciences, Guilan University, Rasht, Iran (1999-2003)

Master Thesis:

- ✓ Evaluation of cytogenetic damages produced by gamma emitted from ^{60}Co with and without Iudr on multicellular glioma spheroids by Comet assay

PhD Thesis:

- ✓ Development of dose point kernel for calculation of internal dose from ^{177}Lu in heterogeneous phantom (NCAT) using nonstationary convolution method in comparison with MonteCarlo (GATE)

Awards:

- ✓ The prize for the best poster in the 1st research festival of Radiological Sciences Students, Shiraz, Iran (2010).
- ✓ The Candidate for the best presenter in International congress of nuclear medicine & 14th Iranian Annual Congress of Nuclear Medicine, Mashhad, Iran (2010).

Teaching Experiences:

A: nuclear medicine and dosimetry:

- ✓ Principles of internal dosimetry in nuclear medicine for PhD and MSc of medical physics students, TarbiatModaresUniversity
- ✓ Medical Physics, MSc Students, ShahidSadoughi University.

B: Radiation Physics, Fundamental Physics, Physics of Diagnostic Radiology, Physics of CT, Physics of MRI

- ✓ Radiology students, ShahidSadoughi University.

C: Biophysics, Fundamental physics

- ✓ Laboratory and public health students, ShahidSadoughi University.
- ✓ Physiology, MSc Students, ShahidSadoughi University.

D: Medical Physics

- ✓ Pharmacology students, ShahidSadoughi University.

E: Nuclear Physics:

- ✓ Preparation for medical physics for MSc exam, AnvareDanesh scientific & educational institute, Tehran. 2008
- ✓ Medical Physics, MSc students, ShahidSadoughi University.

F: Basic Physics:

- ✓ Preparation for occupational health for MSc exam, scientific institute of SinaTeb, 2006, Tehran, Iran

Professional Membership:

- ✓ Member of Iranian Association of radiologic sciences
- ✓ Member of Iranian Association of Medical Physics

Research field of Interest:

- ✓ Patient specific dosimetry in Nuclear Medicine
- ✓ Quantitative imaging for internal dosimetry
- ✓ Use of Monte Carlo techniques for dosimetry and imaging in Nuclear Medicine and Radiation Therapy
- ✓ Constructing a variety of digital human phantoms for dosimetry and imaging purposes in Nuclear Medicine
- ✓ Evaluation of radiation induced effects on living cells
- ✓ Assessment of cytogenetic effect of radiation in Medical imaging staff and patients
- ✓ Eye modeling with Zemax or other softwares
- ✓ MATLAB programming.

Ongoing research:

- ✓ Development of patient specific dosimetry in nuclear medicine
- ✓ Monte Carlo dosimetry calculations of radionuclide used in nuclear medicine for humans in variety of ages and genders
- ✓ Digital phantom preparation for nuclear medicine dosimetry applications
- ✓ Quantitative SPECT in brain imaging
- ✓ Quantitative SPECT for cancer detection in metastatic stage
- ✓ Assessment the effect of Intra Ocular Lens decantation on patient vision by human eye model

Computer Skills

- ✓ Operating System: Windows, Linux, DOS
- ✓ Programming: MATLAB, C++, Visual Basic

Software:

- ✓ MCNP , GATE, SimSet, Zemax
- ✓ Virtual Machines
- ✓ Amide, MATLAB (Image Processing, Programming, Data and Curve Fitting Tools, Gui, ...), XMedcon, ROOT Analysis
- ✓ ENDNOTE, Statistical analysis softwares (SPSS, Excel)
- ✓ M.S. Office, Origin, XLSTAT, LABFIT, TableCurve2D&3D

Workshops:

- ✓ QC in Medical Imaging, IAMP, 2005, Shahid Beheshti University, Tehran, Iran
- ✓ Dosimetry workshop, Iranian organization of atomic energy, 2005, agriculture and nuclear medicine research center, Karaj, Iran
- ✓ CT and PET principles and applications, GE Co. & Iran University of Medical Sciences, Tehran, Iran
- ✓ MCNP workshop, Damghan university, 2010, Damghan, Iran
- ✓ Workshop on proposal writing and preparation, 2009, Iran University of Medical Sciences, Tehran, Iran

Presentation at Meetings:

I: International

1. **AA. Parach**, M. Barouni, M. Vanaei. (2005) *Crisis management for reducing the effects of nuclear disaster on human health*, 2nd Int. congress on health medications and crisis management in disaster
2. Neshasteh-Riz A., **Parach A.A.**, Khoei S. (2008) *Evaluation of Iudrradiosensitization in multicellular glioma spheroids using comet assay*. 18th ICMP. 111. Dubai
3. **Ali AsgharParach**, HosseinRajabi, Mohammad Ali Askari, Mohammad Ali Tajik-Mansoury. (2010) *Assessment of MIRD data for internal dosimetry using the GATE Monte Carlo code*. International congress of nuclear medicine & 14th Iranian Annual Congress of Nuclear Medicine, Mashhad, Iran.
4. **Ali AsgharParach**, HosseinRajabi, Mohammad Ali Tajik-Mansoury and HadiTaleshiAhangari. (2010) *Comparison of GATE and MCNP Monte Carlo codes for internal dosimetry*. International congress of nuclear medicine & 14th Iranian Annual Congress of Nuclear Medicine, Mashhad, Iran.
5. Mohammad Ali Tajik-Mansoury, HosseinRajabi, Ali Reza Emami-Ardakani, **Ali AsgharParach**, (2010) *Assessment of the effect of wavelet transform in precision of motion detection for renal dynamic scintigraphy: simulation study*. International congress of nuclear medicine & 14th Iranian Annual Congress of Nuclear Medicine, Mashhad, Iran.

6. Abdolazade M., Moshayedi A, Yousefnia H, Kasesaz Y, **Parach A**, Shayeste M (2011) *Calculation of absorbed Doses in human Body Produced by PET Machine Using MCNP Code*, The 1st MEFOMP International Conference of Medical Physics, Shiraz, Iran
7. **Parach AA**, Rajabi H, Asgari A, Salehi Zahabi S, (2011) *Validation of the GATE Monte Carlo Code for Internal radiation Dosimetry by Using the MCNP Data*, The 1st MEFOMP International Conference of Medical Physics, Shiraz, Iran
8. Asgari A, **Parach AA**, Iranpoor M, (2011); *CT Dose Index in abdominal-Pelvic MultiSlice CT with automatic exposure Control*; The 1st MEFOMP International Conference of Medical Physics, Shiraz, Iran
9. Asgari A, **Parach AA**; (2011), *Introduce the radioembolisation, an effective and novel Therapy for Treatment of hepatocellular Carcinoma*, The 1st MEFOMP International Conference of Medical Physics, Shiraz, Iran
10. **Ali Asghar Parach**, Hossein Rajabi, Mohammad Ali Askari, (2011), *Paired organ internal dosimetry; should be treated jointly or separately?* 3rd International Congress of Nuclear Medicine & 15th Iranian Annual Congress of Nuclear Medicine, Tehran, Iran
11. **Ali Asghar Parach**, Hossein Rajabi, Azam Asgari (May 2013) *Patient Specific Dosimetry by Dose Point Kernel of Radionuclides Used in Nuclear Medicine with GATE*, 5th International and 17th Iranian Congress of Nuclear Medicine, Shiraz, Iran
12. Maryam Fallahpoor, Mohammad Reza Abdi, Mehrshad Abbaasi, Faraz Kalantari, **Ali Asghar Parach** (May 2013) *Internal Dosimetry in Nuclear Medicine Using Gate and XCAT Phantom: a Simulation Study*. 5th International and 17th Iranian Congress of Nuclear Medicine, Shiraz, Iran
13. **Ali Asghar Parach**, Hossein Rajabi, Azam Asgari (May 2013) *Calculation of ¹⁷⁷Lu Dose Point Kernels in Different Media with GATE*. 5th International and 17th Iranian Congress of Nuclear Medicine, Shiraz, Iran
14. Sedigheh Taghizadeh, **Ali Asghar Parach** (Nov 2017) *Estimation of Ovarian Absorbed Dose in Bone Scan of ^{99m}Tc-Methylene Diphosphonate by Patient Specific Dosimetry*

- Method using GATE Monte Carlo Code. 21th annual and 6th International Congress of Nuclear Medicine and Molecular Imaging, Mashad, Iran*
15. Sedigheh Taghizadeh, **Ali Asghar Parach** (Nov 2017) *The Estimation of Ovaries Absorbed Dose Induced by 99m Tc –MDP Radiopharmaceutical in Patients Undergoing Bone Scan using MIRDose Software and Planar/SPECT Hybrid Method. 21th annual and 6th International Congress of Nuclear Medicine and Molecular Imaging, Mashad, Iran*
 16. Gholamiyan Khah Faeze, Mostafapour Samaneh, **Parach Ali Asghar** (Nov 2017) *A Review of Multimodality Imaging in Nuclear Medicine ; Technology and Clinical Applications. 21th annual and 6th International Congress of Nuclear Medicine and Molecular Imaging, Mashad, Iran*
 17. Ruhollah Ghahramani-Asl, Mehdi Momennezhad, Shahrokh Nasserri, Seyed Rasoul Zakavi, **Ali Asghar Parach**, (Nov 2017) *Estimation of Patient-Specific Internal Organs Absorbed Dose for 99mTc-Hynic-Tyr3-Octreotide Imaging: a 3D Monte Carlo Method. 21th annual and 6th International Congress of Nuclear Medicine and Molecular Imaging, Mashad, Iran*

II: Local:

1. Neshasteh-Riz A., **Parach A.A.**, Khoei S. (2008) *Evaluation of Iudrradiosensitization in multicellular glioma spheroids by comet assay. Radiation protection in Nuclear Medicine, 2007, ShahidBeheshti University, Tehran-Iran*
2. **Ali AsgharParach**, HosseinRajabi, AzamAsgari, (2010) *Evaluation of paired organs effect on tissue absorbed fractions in realistic human phantom with GATE Monte Carlo code. 1st research festival of Radiological Sciences Students, Shiraz, Iran.*
3. Sharafi AA, Asgari A, **Parach AA**. (2010)*Evaluation of Absorbed dose for Thyroids, Parathyroids and Eye lenses in Patients under head and neck CT scan by Thermoluminescent Dosimetry (TLD), 1st research festival of Radiological Sciences Students, Shiraz, Iran.*
4. Sharafi AA, Asgari A, **Parach AA**. (2010)*Evaluation of Absorbed dose for Thyroids, Heart and Lungs in Patients under Coronary Angiography with Thermoluminescent Dosimetry (TLD), 1st research festival of Radiological Sciences Students, Shiraz, Iran.*
5. AzamAsgari, **Ali AsgharParach**, (2010) *The Basic Principle of Flowcytometry systems for measuring the Cell sizes; 8th Iranian Congressof Radiologic Sciences; Tehran;Iran*

6. AzamAsgari, KeykhosroKeshavarzi, **Ali AsgharParach**, (January 2013) *Liou-Brennan's schematic eye: is optically and physically more similar to the biological eye?*The19th Iranian Conference on Optics and Photonics andThe 5th Iranian Conference on Photonics Engineering and Technology, Zahedan, Iran.
7. AzamAsgari, KeykhosroKeshavarzi, **Ali AsgharParach** , *Aspheric IOLs and their applications on the corneal positive spherical aberrations*,(2012) 8th Iranian congress of eastern medical university students, Birjand, Iran.
8. AzamAsgari, **Ali AsgharParach**, KeykhosroKeshavarzi, *Simulation of the IOL Decentration Effect on Optical Quality of the Eye Using the Mathematical real eye* (2014) XXIV Annual congress of the Iranian Society of Ophthalmology, Tehran, Iran
9. AzamAsgari, **Ali AsgharParach**, KeykhosroKeshavarzi, *Impact of Intraocular Lens Tilt on the Visual Quality Using the Optical Eye Modeling with Zemax real eye* (2014) XXIV Annual congress of the Iranian Society of Ophthalmology, Tehran, Iran
10. Naghmeh Firoozi, Parham Geramifar, **Ali Asghar Parach**,(July 2018) *The effect of incorporating the quantitative analysis besides visual assessments of ¹⁸F-FDG brain PET images for the localization of epileptogenic zones*, 12th Iranian Congress of medical Physics, Shahid beheshti university of Medical Sciences, Tehran, Iran
11. Naghmeh Firoozi, Parham Geramifar, **Ali Asghar Parach**,(July 2018) *The effect of incorporating the quantitative analysis besides visual assessments of ¹⁸F-FDG brain PET images for the localization of epileptogenic zones*, 12th Iranian Congress of medical Physics, Shahid beheshti university of Medical Sciences, Tehran, Iran

Publications:

I: Full Papers:

1. Neshasteh-Riz A, **Parach A.A**, Khoei . S. *Evaluation of IudRradio-sensitization inMulticellular Glioma spheroids by Comet assay.* [Razi Journal of Medical Sciences](#).(in Persian)2007, 14(56) p:197-207 **ISC, CINAHL**
2. **A A. Parach**; H. Rajabi;A *comparison between GATE4 results and MCNP4B published data for internal radiation dosimetry*; [Nuklearmedizin](#).(2011),50(3):122-33 **ISI**
3. **Ali Asghar Parach** , HosseinRajabi , Mohammad Ali Askari, *Assessment of MIRD data for internal dosimetry using the GATE Monte Carlo code.*[Radiat Environ Biophys](#) (2011), 50(3):441–450 **ISI**
4. **Ali-Asghar Parach**, HosseinRajabi and Mohammad-Ali Askari. *Paired organs-Should they be treated jointly or separately in internal dosimetry?* [Med. Phys.](#) (2011),38 (10), 5509-21 **ISI**
5. Azam Asgari, Keykhosro keshavarzi, **Ali Asghar Parach**, *The effect of IOL(Tecnis Z9000) Decentration on the optical quality of the eye using the eye modelling,* [Bina Journal of Ophthalmology](#).(in Persian), 2014;19(3)242-248
6. Azam Asgari, Keykhosro Keshavarzi, **Ali Asghar Parach**,*Application of IntraOcularLenses in cataract surgery and the factors influencing visual acuity after surgery,* [The Journal of Shahid Sadoughi university of Medical Sciences](#).(in Persian)2013; 21(4):533-46 **ISC, CINAHL**
7. Hamid Javadi, Ali Mahmoud Pashazadeh, Mehdi Mogharrabi, Isa NeshandarAsli, FarajTabei, **Ali AsgharParach**, Majid Assadi, *Radiation exposure from diagnostic nuclear medicine examinations in Golestan province,* [Iran J Nucl Med](#) 2013;21(2):65-69
8. Azam Asgari, **Ali Asghar Parach**, Keykhosro Keshavarzi, *Evaluation of the Impact of Intraocular Lens Tecnis Z9000 Misalignment on the Visual Quality Using the Optical Eye Modeling,* [Iranian Journal of Ophthalmology](#) 2013;25(4):3-11 **ISI**
9. Barkhordari-firouzabadi. A, Boozarjomehri F., Ghahari. M, **Parach. A.**, Zare-sakhoydi, M, Lotfi. MJ, *Measuring Radon Concentration in the Lead and Zinc Mines in Yazd,* 2013, [The Journal of Toloo-e- Behdasht](#) (in Persian), 2016; 14(6):94-102 **ISC**
10. Ruhollah Ghahraman Asl · Shahrokh Nasser · **Ali Asghar Parach** · Seyed Rasoul Zakavi · Mehdi Momennezhad,· *Monte Carlo and experimental internal radionuclide dosimetry in RANDO head phantom,* [Australas Phys Eng Sci Med](#),2015;38(3):465-72 **ISI**

11. A Asgari, **AA Parach**, AA Sharafi, B Nazarpour, S Parvizi. *Thyroid, Parathyroid and Eye Dose Evaluation in Head and Neck CT Examinations, Phantom and Clinical Study*, [West Indian Medical Journal](#), 2016; 65(3):538-42 **ISI**

12. John Buscombe, A Hussein Sundawa Kartamihardja, Stepanus Massora, Marc C Mabray, Marcel Brus-Ramer, Spencer C Behr, Miguel H Pampaloni, SharmilaMajumdar, William P Dillon, Jason F Talbott, Francis Hasford, Bronwin Van Wyk, ThulaniMabhengu, Mboyo Di TambaVangu, Augustine Kwame Kyere, John Humphrey Amuasi, DarisTheerakulpisut, ChanisaChotipanich, Jorge D Oldan, A Stewart Hawkins, Bennett B Chin, Achmad Hussein SundawaKartamihardja, Mehdi Momennezhad, ShahrokhNasseri, SeyedRasoulZakavi, **Ali AsgharParach**, Mahdi Ghorbani, RuhollahGhahramanAsl, CuneytTamam, MugeTamam, Mehmet Mulazimoglu, SandipBasu, Abhishek Mahajan, Supreeta Arya, AmolSudke, Amit Kumar Dey, SuchinDhamanskar, Varsha Kulkarni, RohitRanade, ShwetalPawar, Sonia Mahajan, ShefaliKalra, Madhavi Chawla, Pankaj Dougall, *Selective internal radiation therapy in metastatic carcinoma of the colon: A story of nonintegrated care*; [World Journal of Nuclear Medicine](#), 2016;15(2):79 **PubMed**

13. Mehdi Momennezhad, Shahrokh Nasseri, Seyed Rasoul Zakavi, **Ali AsgharParach**, Mahdi Ghorbani, and Ruhollah GhahramanAsl. *A 3D Monte Carlo Method for Estimation of Patient-specific Internal Organs Absorbed Dose for 99mTc-hynic-Tyr3-octreotide Imaging*, [World J Nucl Med](#). 2016; 15(2): 114–123. **PubMed**

14. Ruhollah GhahramanAsl, **Ali AsgharParach**, Shahrokh Nasseri, Mehdi Momennezhad, Seyed Rasoul Zakavi, Mohammad Mehrpouyan. *Estimation of Photon and Electron Specific Absorbed Fractions for Selected Organs of a Human Voxelizedphantom Using GATE Monte Carlo Package*; [Journal of Biomedicine](#), 2016;1(2):e6011

15. M Bagheri, SK Razavi-Ratki, R Nafisi-Moghadam, MA Jelodari, **AA Parach**, *The Estimation of 99mTc DMSA Absorbed Dose in Renal Scintigraphy of Pediatric Patients Using MIRDose Software and Planar/SPECT Hybrid Method*; [Journal of Shahid Sadoughi University of Medical Sciences](#),(in persian) 2016 ;24(8): 649-58 **ISC, CINAHL**

16. M Fallahpoor, M Abbasi, , **A Parach**, F Kalantari. *The importance of BMI in dosimetry of 153Sm-EDTMP bone pain palliation therapy: A Monte Carlo study*; [Applied Radiation and Isotopes](#), 2017; 124: 1-6 **ISI**

17. M Fallahpoor, M Abbasi, F Kalantari, **AA Parach**, A Sen, *Practical Nuclear Medicine and Utility of Phantoms for Internal Dosimetry: XCAT Compared with Zubal*, [Radiat Prot Dosimetry](#), 2017; 174(2):191-97 **ISI**
18. M Abbasi, M Fallahpoor, **AA Parach**, F Kalantari. *Internal Dosimetry for Radioembolization Therapy with Yttrium-90 microspheres*; [Journal of Applied Clinical Medical Physics](#), 2017; 18(2): 176-180 **ISI**
19. Mahmoud Bagheri1, **Ali Asghar Parach**, Seid Kazem Razavi-Ratki, Reza Nafisi-Moghadam and Mohammad Ali Jelodari. *Patient-Specific Dosimetry for Pediatric Imaging of ^{99m}Tc -Dimercaptosuccinic Acid with GATE Monte Carlo Code*; [Radiation Protection Dosimetry](#), 2017; 1-10 **ISI**
20. Maryam Fallahpoor, Mehrshad Abbasi,**Ali Asghar Parach**, Ahmad Bitarafan Rajabi, Faraz Kalantari, *Image-based versus atlas-based patient-specific S-value assessment for Samarium-153 EDTMP cancer palliative care: A short study*; [Iran J Nucl Med](#) 2018;26(2):76-81 **ISI**
21. Sedigheh Taghizadeh, **Ali Asghar Parach**, Seid Kazem Razavi-Ratki , Mahmoud Bagheri, *The estimation of body organs absorbed dose induced by ^{99m}Tc –MDP radiopharmaceutical in the patients undergoing bone scan by specific dosimetry and planar/SPECT hybrid method*; [Journal of Shahid Sadoughi University of Medical Sciences](#),(in persian) 2018 ;26(6): 463-72 **ISC, CINAHL**

II: Abstract

- 1- Maryam Fallahpoor, Mehrshad Abbasi, Anando Sen, **Ali Ashgar Parach**, Faraz Kalantari, *Internal Dosimetry in Nuclear Medicine Using GATE and XCAT Phantom: A Simulation Study*, 2015, [*Med. Phys.*](#), 42, 3451
- 2- Maryam Fallahpoor, Mehrshad Abbasi, Anando Sen, **Ali Ashgar Parach**, Faraz Kalantari, *Utility of Quantitative 3D SPECT/CT Imaging in Patient Specific Internal Dosimetry of 153-Samarium with GATE Monte Carlo Package*, 2015, [*Med. Phys.*](#), 42(6), 3203-3203
- 3- Asgari A, **Parach AA**, *Issues For Reducing The Incidence Of Cancer in Children Induced By CT*, [*Iranian Journal of Radiology*](#), 2013, 10(Suppl1), S64
- 4- **Parach AA**, Rajabi H, Asgari A, *Validation of the GATE Monte Carlo Code for Internal Radiation Dosimetry by Using the MCNP Data*, [*J Biomed PhysEng*](#), 2011; 1(Suppl 1), S168
- 5- Asgari A, **Parach AA**, Iranpoor M, *CT dose index in abdominal-pelvic MultiSlice CT with automatic exposure control*, [*J Biomed PhysEng*](#), 2011; 1(Suppl 1), P69
- 6- Asgari A, **Parach AA**, *Introduce the Radioembolisation, an Effective and Novel Therapy for Treatment of Hepatocellular Carcinoma*, [*J Biomed PhysEng*](#), 2011; 1(Suppl 1), P60
- 7- **Ali Asghar Parach**, Hossein Rajabi, Mohammad Ali Askari, Mohammad Ali Tajik-Mansoury. *Assessment of MIRD data for internal dosimetry using the GATE Monte Carlo code*, [*Iran J Nucl Med*](#) 2010; 18:(suppl 1); P82
- 8- **Ali Asghar Parach**, Hossein Rajabi, Mohammad Ali Tajik-Mansoury, Hadi Taleshi Ahangari, *Comparison of GATE and MCNP Monte Carlo codes for internal dosimetry*. [*Iran J Nucl Med*](#) 2010; 18:(Suppl 1); P108
- 9- Mohammad Ali Tajik Mansoury, Hossein Rajabi, Ali Reza Emami-Ardakani, **Ali Asghar Parach**, *Assessment the effect of wavelet transform in precision of motion detection for renal dynamic scintigraphy: simulation study*; [*Iran J Nucl Med*](#) 2010; 18:(suppl 1); P109
- 10- SM Abdolazade M., Moshayedi A, Yousefnia H, Kasesaz Y, **Parach A**, *Calculation of absorbed Doses in human Body Produced by PET Machine Using MCNP Code*. 2011; [*J Biomed PhysEng*](#) 1 (Suppl1): P48
- 11- A. Asgari, **AA Parach**. *Introduce the Radioembolisation, an Effective and Novel Therapy for Treatment of Hepatocellular Carcinoma*, 2011; [*J Biomed PhysEng*](#) 1 (Suppl1): P60

- 12- M Fallahpoor, M Abbasi, **A Parach**, F Kalantari, *Image-Based Versus Atlas-Based Internal Dosimetry*, *Medical Physics*, 43 (6), 3846-3847 **ISI**

Thesis Advisor:

MSc:

- 1- Evaluation of the effect of IntraOcular Lenses(IOLs) Misalignment for correction of spherical aberrations by using of real optical-mathematical eye modeling, 2013, **MSc Thesis**, **AzamAsgari**, Department of Medical Physics,*Tehran University of Medical Sciences*, Tehran, Iran
- 2- Internal Dosimetry of Samarium (EDTMP) in Metastatic Breast Cancer Patients with Simulation, 2014, **MSc Thesis**, **Maryam Fallahpour**, Department of Physics, *Isfahan University*, Isfahan, Iran
- 3- Evaluation of radon concentration in the lead and zinc mines in Yazd, 2013, **MSc Thesis**, **Mahdi Ghahari**, Department of Occupational Health, *Shahid Sadoughi University of Medical Sciences*, Yazd, Iran
- 4- Evaluation of the head and neck organs S-factors in Zubal phantom for ^{131}I , ^{90}Y , ^{188}Re , ^{186}Re , ^{177}Lu and ^{67}Cu Radionuclides and comparison with MIRD data, 2014, **MSc Thesis**, **Amine Rajabi**, Department of Medical Physics, *Tarbiat Modares University*, Tehran, Iran

PhD:

- 1- Optimization of 3D Patient-Specific Internal Dosimetry in Radionuclide Therapy, 2014, **PhD Thesis**, **Ruhollah Ghahraman Asl**, Department of Medical Physics, *Mashad University of Medical Sciences*, Mashhad, Iran

Thesis Supervisor:

- 1- Patient-specific dosimetry for pediatric diagnostic imaging of ^{99m}Tc -Dimercaptosuccinic Acid with GATE Monte Carlo simulation code, 2016, **MSc Thesis, Mahmoud Bagheri**, Department of Medical Physics, *Shahid Sadoughi University of Medical Sciences*, Yazd, Iran
- 2- Estimation of ovarian absorbed dose in bone scan with injection of ^{99m}Tc -MDP (Methylene diphosphonate) radiopharmaceutical by specific dosimetry method using GATE Monte Carlo code and compared with MIRDose software, 2017, **MSc Thesis, Sedigheh Taghizadeh**, Department of Medical Physics, *Shahid Sadoughi University of Medical Sciences*, Yazd, Iran
- 3- The efficacy of voxel based analysis of ^{18}F -FDG Brain PET scans for evaluation of epilepsy disorders, 2018; **MSc Thesis, Naghmeh Firoozi**, Department of Medical Physics, *Shahid Sadoughi University of Medical Sciences*, Yazd, Iran
- 4- Evaluation of absorbed dose for Rotation of the lower extremity in stereo radiography and comparison with CT Scan by In Vivo and In Vitro method; 2018; **MSc Thesis, Mahdieh Ghadimi**, Department of Medical Physics, *Shahid Sadoughi University of Medical Sciences*, Yazd, Iran
- 5- Quantification of ^{99m}Tc -MDP SPECT bone scans in the spine of Patients with osseous metastases and normal patients by measurement of Standard Uptake Value and Activity Concentration using MRI; 2018; **MSc Thesis, Samaneh Mostafapour**, Department of Medical Physics, *Shahid Sadoughi University of Medical Sciences*, Yazd, Iran
- 6- Comparison of two attenuation correction methods (Chang, MRI-based) in quantification of Brain SPECT for detecting anosmia in Brain Trauma patients by Standard Uptake Value and Activity Concentration; 2018; **MSc Thesis, Faeze Gholamiyan-khah**, Department of Medical Physics, *Shahid Sadoughi University of Medical Sciences*, Yazd, Iran

Invited Lectures, Seminars and Workshops:

- ✓ Microwave safety and side effects, 2004, lecture at dept. of medical physics, Iran university of medical sciences, Tehran, Iran
- ✓ The principles and application of ¹³¹I for treatment of hyperthyroidism and Thyroid Cancers, Applied Physics in Nuclear Medicine,(Sep/2011) Department of Nuclear Medicine, Shariati Hospital, Tehran,Iran
- ✓ The workshop on Radiation protection in nuclear medicine and CT, (2013) for radiation workers and Physicians, ShahidSadoughi university of Medical Sciences, Yazd, Iran
- ✓ Training sessions on Radiation Biology and Protection(2013-2014)for radiation workers, ShahidSadoughi university of Medical Sciences, Yazd, Iran
- ✓ Radionuclide Therapy: Fixed Activity and Patient-Specific Planning, 21th annual and 6th International Congress of Nuclear Medicine and Molecular Imaging,Mashad, Iran

Books:

- ✓ MRI at a glance, **AA. Parach**, A. Asgari, 2009, NoureDaneshpublication,Tehran,Iran