Shiraz University of Medical sciences- school of Medicine

Curriculum vitae

Mahdi Haghighatafshar, MD

Academy Rank: Associate Professor

School: Medicine

Department: Nuclear Medicine

Hospital/Ward: Namazi, Nuclear medicine

Research Center: Research Institute for Nuclear Medicine, Shiraz University of Medical Sciences, Shiraz, Iran.

Address: Nuclear Medicine Department, Namazi Teaching Hospital, Zand Square, Shiraz, Iran.

Tel: +98-71-36125320

09128492763

Fax: +98-71-36473966

Email: afsharm@sums.ac.ir

haghighatafshar@gmail.com

Education:

2008-2011: Resident in Nuclear Medicine, Tehran University of Medical sciences (TUMS), Tehran, Iran.

1999-2006: Medical student, UMSU, Urmia, Iran.

Positions:

2012 till now:

- Chair of nuclear medicine and mulecolar imaging research center 2013 till present.
- Chair of nuclear medicine ward 2012 till 2017 and 2019 till 2020.
- Vice-chancellor of Namazi Teaching Hospital Center, Shiraz, Iran 2012 till 2014.
- Assistant professor of nuclear medicine 2012 till present.
- General Secretary of 5th International Congress of Nuclear Medicine of Iran.

2007 – 2008:

- ✓ Special Deputy of President of University of Medical Science of Urumia, Urumia, Iran.

Publications & Presentations:

Publications:

1. Fallahi B, **Haghighatafshar M**, Farhoudi F, et. al. Comparative evaluation of the diagnostic accuracy of 99mTc-sestamibi gated SPECT using five different sets of image acquisitions at stress and rest phases for the diagnosis of coronary artery disease. Am J Nucl Med Mol Imaging. 2014, 4(1):10-16.
2. **Haghighatafshar M**, et. al. McCune-Albright Syndrome: Report of a Case. Iran J Nucl Med. 2010, 18(1):57-61.
3. Eftekhari M, Fard-Esfahani A, **Haghighatafshar M**, et. al. Bone Scan with Incidental Visualization of the Entire Colon. Iran J Nucl Med. 2010, 18(2):56-59.
4. **Haghighatafshar M**, et. al. Design of a Novel Shield of Nuclear Medicine with New Alloy. Physical Science International Journal. 2015, 7(1):28-32.
5. **Haghighatafshar M**, et. al. Hiatal hernia uptake of iodine-131 mimicking mediastinal metastasis of papillary thyroid carcinoma. Indian journal of nuclear medicine: IJNM: the official journal of the Society of Nuclear Medicine. India,2015, 30(4):347.

6. **Haghighatafshar M**, Farhoudi F, Incidentally Visualization of the Thymus on Whole-Body Iodine Scintigraphy: Report of 2 Cases and Review of the Latest Insights. Medicine. 2015, 94(26).
7. **Haghighatafshar M**, Gheisari F, Ghaedian T, Importance of Heparin Provocation and SPECT/CT in Detecting Obscure Gastrointestinal Bleeding on 99mTc-RBC Scintigraphy: A Case Report. Medicine.2015, 94(34):e1325.
8. **Haghighatafshar M**, Farhoudi F. Is Brown Adipose Tissue Visualization Reliable on 99mTc-Methoxyisobutylisonitrile Diagnostic SPECT Scintigraphy? Medicine.2016, 95(2):e2498.
9. Ghaedian T, Mortazavi S, **Haghighatafshar M**. Multiple Myeloma and Abdominal Aortic Aneurysm on Myocardial Perfusion Raw Images. Clinical nuclear medicine. 2015, 40(11):e526-e7.
10. Alavi M, Gheisari F, **Haghighatafshar M**, et. al. Evaluating effect of a new sterilegauze containing Bentonite and Halloysite minerals on blood coagulation and wound healing in male rats. ISMJ. 2014, 17(3): 290-297.
11. Piruzan E, **Haghighatafshar M**, Faghihi R, Entezarmahdi SM. Calculation of Blood Dose in Patients Treated With 131I Using MIRD, Imaging, and Blood Sampling Methods. Medicine. 2016, 95(11): e3154.
12. **Haghighatafshar M,** Banani A, Gheisari F, Alikhani M. Impact of sweating on equivalent dose of patients treated with 131Iiodine. Indian journal of nuclear medicine: IJNM: Indian J Nucl Med. 2016, 31(3):172.
13. Zehtabian M, Dehghan N, Danaei Ghazanfarkhani M, **Haghighatafshar M**, Sina S. Measurement of the Dose to the Family Members Taking Care of Thyroid Cancer Patients Undergoing I-131 Therapy in Nuclear Medicine Using TLD-100. Radiation protection dosimetry. 2016.
14. **Haghighatafshar M**, Entezarmahdi SM. Nekooee A. The effect of time interval between 99mTc-sestamibi injection and image acquisition on quantitative data of gated SPECT myocardial perfusion imaging at stress and rest phases. Research journal of medical sciences. 2016, 10(6): 683-687.
15. Fallahi B, Beiki D, Salehi Y, Emami-Ardekani A, Fard-Esfahani A, Aghahosseini F, **Haghighatafshar M**, Eftekhari M. Reverse perfusion pattern in myocardial perfusion imaging using technetium-99m-sestamibi in patients with intermediate risk for coronary artery disease in relation to the time of acquisition and intensity

of visceral uptake as artifactual causes. Nuclear medicine communications. 2017, 38(1):15-20.

16. Zeinali-Rafsanjani B, Mosleh-Shirazi M.A, **Haghighatafshar M**, et. al. Assessment of the dose distribution of Minibeam radiotherapy for lung tumors in an anthropomorphic phantom: A feasibility study. Tecnology and health Care. 2017, 25(4):683-692.
17. **Haghighatafshar M**, et.al. Impact of the amount of liquid intake on the dose rate of patients treated with radioiodine. Indian J Nucl Med. 2018, 33(1):10.
18. **Haghighatafshar M,** Ghaedian M, Etemadi Z, Entezarmahdi SM, Ghaedian T. Pilocarpine effect on dose rate of salivary gland in differentiated thyroid carcinoma patients treated with radioiodine. Nuclear medicine communications. 2018, 39(5):430-4.
19. **Haghighatafshar M**, et.al. Role of Hepatobiliary Scintigraphy in the Diagnosis of Gallbladder Agenesis; A Case Report and Brief Review of Literature. Middle East Journal of Digestive Diseases.2018, 10(2):109-113.
20. **Haghighatafshar M,** Nowshad R, Etemadi Z, Ghaedian T. The effect of chewing-gum on dose rate of salivary gland in differentiated thyroid carcinoma patients treated with radioiodine. Q J Nucl Med Mol Imaging 2018 Apr 26. DOI: 10.23736/S1824-4785.18.03078-9.
21. Ghaedian T, **Haghighatafshar M**. Hepatobiliary excretion of 99mTc-EC. A potential mistake in the interpretation of 99mTc-EC renal scintigraphy. Iran J Nucl Med. 2018, 26(2):121-123.
22. Mohseni M, Faghihi R, **Haghighatafshar M**, et.al. Effects of the attenuation correction and reconstruction method parameters on conventional cardiac dynamic SPECT. Medicine. 2018, 97:39(e12239).
23. **Haghighatafshar M**, et.al. The effect of pomegranate juice, lemon juice and secanjabin in reducing infra-cardiac activity of 99mTc-MIBI during myocardial perfusion imaging in comparison with fatty food. Iran J Nucl Med. 2019, 27(2):113-117.
24. **Haghighatafshar M**, et.al. An applicable count rate saturation correction approach on gamma camera for I-131 labeled radiopharmaceuticals. Results in Physics 2019, 12: 1901–1904.

25. **Haghighatatfshar M,** et.al. Toward applying a device to reduce motion artifact during imaging: a randomized controlled trial. EXPERT REVIEW OF MEDICAL DEVICES 2022, 19: 189-194.
26. Shahbazi M, Poordast T, Masoudi N, **Haghighatafshar M.** The potential role of radiolabeled red blood cell scintigraphy in diagnosis of endometriosis. Iran J Nucl Med. 2022, 30: 26-32.
27. **Haghighatatfshar M**, et.al. Prognostic value of MPI SPECT in Iranian patients using total perfusion deficits: Comparison with semi-quantitative assessment. Iran J Nucl Med. 2022,30(2): 103-108.
28. Ghaedian T, **Haghighatafshar M**, et.al. Improving prognostic value of transient ischemic dilation ratio after correction based on the left ventricular mass changes. Iran J Nucl Med. 2023, 31(1): 54-60.
29. Entezarmahdi M, Faghihi R, Yazdi M, Shahamiri M, Geramifar P, **Haghighatafshar M**. QCard‐NM: Developing a semiautomatic segmentation method for quantitative analysis of the right ventricle in non‐gated myocardial perfusion SPECT imaging. EJNMMI Physics (2023) 10:21.
30. Abdinejad M, Jafari F, **Haghighatafshar M**. Soft tissue uptake due to myoma on [99mTc]Tc-MDP bone scintigraphy: Report of a case. Iran J Nucl Med. 2023, 31(2): 185-188.
31. Farhoudi M, Zohalinezhad M, Zarshenas M, Masoudi N, Fallahzadeh E, **Haghighatafshar M**. Possible protective effect of Zataria multiflora Boiss. on salivary glands in patients with differentiated thyroid carcinoma treated with radioiodine: A randomized, double-blind, placebo-controlled clinical trial. Iran J Nucl Med. Accepted.
32. **Haghighatafshar M**. Dangle-Shaped Gallbladder Extended to the Pelvic Cavity in a 99mTc-MDP SPECT/CT Bone Scan. Iran J Nucl Med. Accepted.

Presentations:

1. Fallahi B, Beiki D, **Haghighatafshar M**, et. al. Comparative evaluation of the diagnostic accuracy of Tc-99m-sestamibi gated SPECT using five different sets of image acquisitions at stress and rest phases for the diagnosis of coronary artery disease. Ann. Con. European Ass. Nucl Med. 2012, Milan, Italy.

2. **Haghighatafshar M**. Application of nuclear medicine in pulmonary diseases. Invited Speaker, 17th CME of Radiology. 2013, Shiraz, Iran.
3. Zeinali B, **Haghighatafshar M**, Saeedimoghadan M. Assessment of radiation science studies in 4 succesive years, 14th IRPA, 9-13 May 2016, cape town, South Africa.
4. Faghihi R, **Haghighatafshar M**, Entezarmahdi SM. Calculation of blood dose in patients treatedwith I-131, 19th Iranian congress of nuclear medicine, 16-18 September 2015, Hamedan, Iran.
5. Zehtabian M, Dehghan N, Danaei M, Sina S, **Haghighatafshar M**. Measurement of the dose to the people accompanying thyroid cacer patient undergoing I-131 therapy in nuclear medicine using TLD-100, 19th Iranian congress of nuclear medicine, 16-18 September 2015, Hamedan, Iran.
6. Zeinali B, Saeedimoghadam M, **Haghighatafshar M**. Evaluation of important physical parameters in microbeam radiotherapy of lung tumors, 14th IRPA, 9-13 May 2016, cape town, South Africa.

Posters:

1. **Haghighatafshar M**, Entezarmahdi SM, Mortazavi S, Khajerahimi F. How the change in time interval between 99mTc-sestamibi injection and image acquisition may effect on quantitative data of gated SPECT myocardial perfusion imaging at stress phases.European Journal of Nuclear Medicine and Molecular Imaging. 2015: Springer 233 Spring St,New York, NY 10013 USA.
2. Entezarmahdi SM, kamali-asl A, **Haghighatafshar M**, Gheisari F, Hemmatpour M, Khajerahimi F. Assessing the effect of the amount of injected 99mTC-MIBI on the calculated cardiac volume in the myocardial Gated-SPECT, A clinical survey.European Journal of Nuclear Medicine and Molecular Imaging. 2015: Springer 233 Spring St, New York, NY 10013 USA.
3. **Haghighatafshar M**, Gheisari F, Entezarmahdi SM, Atefi M, Okhovat M, Rezae P. Assessing a new lead free radiation shield for using at nuclear medicine wards, 18th Iranian congress of nuclear medicine (ICNM2014), 12-14 November, 2014, Tehran, Iran.

4. Sina S, Mehdizadeh S, **Haghighatafshar M**, Moradi H, Shobeiry S, Entezarmahdi SM. Equivalent dose to staffs in different procedures of nuclear medicine, the 58th annual meeting of the health physics society, 7-11 July 2013, Madison,WI.
5. Zahraei-Moghaddam SM, Shekoohi-Shooli F, **Haghighatafshar M.** The Effect of Binaural Beat Embedded Music on Anxiety- Tedium and Subsequent Motion Artifact: A Randomized Controlled Trial, 60th Annual Meeting & Exhibition of the American Association of Physicists in Medicine (AAPM), Nashville, America, July 29 - August 2, 2018.

Inventions:

1. Design a novel shield special for Nuclear Medicine using a new mixture. (No.78921).
2. Create smart dispensing system for radioiodine. (No. 96220).
3. Smart stress/anxiety relieving system based on brainwaves controlling and virtual reality utilization during stressful medical system. (No.99530).
4. Auxiliary tools for converting static heart phantom into dynamic heart phantom. (No.87571).

Achievements:

- Ranked 1st at 25th basic science General Exam at UMSU.
- Ranked 2nd at 34th Pre-Intern Exam at UMSU.
- Ranked 3rd among all the students entered at 1999 at UMSU.

*CV last edited on: Nov**, 2023***