



Biography

Dr. Ali Tarighatnia, assistant professor in Medical Physics, received his Ph.D. from the University of Tehran, Iran, in 2020. Currently, he works as an Assistant Professor at the medical & paramedical school, Ardabil University of Medical Sciences (ArUMS), Iran. His research mainly focuses on cellular and molecular imaging, theranostic agents, image processing, and vascular & non-vascular interventional radiology. He is the author of over 20 scientific papers.

Curriculum Vitae

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Personal

- Date of birth: 1 Sep 1979
- Place of birth: Piranshahr, Iran
- Sex: Male
- Nationality: Iranian
- Statues: Married

Education

2016 - 2020

Tehran University of Medical Sciences, Tehran, Iran (Ph.D. in Medical Physics)

2012-2015

Tabriz University of Medical Sciences, Tabriz, Iran (M.Sc. in Medical Physics)

1996 - 2000

Shiraz University of Medical Sciences, Shiraz, Iran (B.Sc. in Radiology)

Publications

1. Impact of Colposcopy-Guided Treatment of Recurrent Genital Warts on Patient's Quality of Life; Anahita Nazempour, Negar Yahyazade, Reza Mohammadian, Mohammad Asghari, Laaya Firozan, Ali Tarighatnia, Hasan shahrokhi ; [International Journal of Scientific Research](#), 2015.
2. Comparison of the patient radiation exposure during coronary angiography and angioplasty procedures using trans-radial and trans-femoral access. [Tarighatnia A](#), Alian AHM, Ghojzadeh M, Farajollahi AR. [Journal of Cardiovascular and Thoracic Research](#), 2016;8:77.
3. Beam projections and Radiation Exposure in Radial and Femoral Approach during Coronary Angiography, [Tarighatnia, Ali](#), Mohammad Alian, Amir Hossien, Leili Pourafkari, Ghojzadeh Morteza , Farajollahi, Alireza; [The Anatolian journal of cardiology](#), 2017
4. Vertebrobasilar Artery Stroke as the Herald Sign of Systemic Lupus Erythematosus, R Mohammadian, [A Tarighatnia](#), M Naghibi, E Koleini, ND Nader; [Journal of Stroke and Cerebrovascular Diseases](#), 2018
5. Operator radiation exposure during transradial coronary angiography : Effect of single vs. double catheters. [Tarighatnia A](#), Pourafkari L, Mohammadalian AH, Ghojzadeh M, Nader ND, Farajollahi AR; [Herz](#), 2017.
6. An Analysis of Operating Physician and Patient Radiation Exposure During Radial Coronary Angioplasties, [Ali Tarighatnia](#), Asghar Mesbahi, Amirhossein Mohammad Alian, Nader D. Nader; [RPD](#), 2018.
7. Radiation exposure levels according to vascular access sites during PCI, [A Tarighatnia](#), AR Farajollahi, AH Mohammadalian, M Ghojzadeh; [Herz](#), 2019
8. Impact of Pelvic and Rad-Board Lead Shields on Operator and Patient Radiation Dose in Trans-Radial Coronary Procedures, Aida Khaleghifard, , Amirhossein Mohammad Alian, Leili Pourafkari, Ghojzadeh.Morteza , [Ali Tarighatnia](#), Farajollahi, Alireza; [RPD](#), 2019.
9. Mucin-16 targeted mesoporous nano-system for evaluation of cervical cancer via dual-modal computed tomography and ultrasonography, Ali Tarighatnia, Mohammad Hossein Abdkarimi, Nader D Nader, Tayebeh Mehdipour, Mohammad Reza Fouladi, Ayuob Aghanejad, Hossein Ghadiri; [New Journal of Chemistry](#), 2021
10. Evaluating the radioprotective effect of Cimetidine, IMOD, and hybrid radioprotectors agents: An in-vitro study, Siroos Rahgoshai, Parinaz Mehnati, Mahmoud Reza Aghamiri, Meysam Haghighi Borujeini, Amin Banaei, Ali Tarighatnia, Nader D Nader, Mohammad Kiapour, Razzagh Abedi-Firouzjah, [Applied Radiation and Isotopes](#), 2021
11. Trade-off between breast mean glandular dose and image quality in digital and conventional mammogram systems: A multicenter study, J Rezapour, A Mostear, [A Tarighatnia](#), F Falahati, SM Hosseini, G Johal, ND Nader, L Dastranj, R Abedi-Firouzjah, [RADIOPROTECTION](#), 2021

12. Tips and Tricks in Molecular Imaging: a practical approach, [Ali Tarighatnia](#), Gurkaran Johal, Ayuob Aghanejad, Hossein Ghadiri, Nader D Nader; *Frontiers in Biomedical Technologies*, 2021
13. Engineering and quantification of bismuth nanoparticles as targeted contrast agent for computed tomography imaging in cellular and animal models, [Ali Tarighatnia](#), Mohammad Reza Fouladi, Mohammad Reza Tohidkia, Gurkaran Johal, Nader D Nader, Ayuob Aghanejad, Hossein Ghadiri; *Journal of Drug Delivery Science and Technology*, 2021
14. Recent Advances and Trends in Nanoparticles based Photothermal and Photodynamic Therapy; Jamileh Kadkhoda, [Ali Tarighatnia](#), Jaleh Barar, Ayuob Aghanejad, Soodabeh Davaran; *Photodiagnosis and Photodynamic Therapy*, 2022
15. Photothermal therapy-mediated autophagy in breast cancer treatment: Progress and trends; Jamileh Kadkhoda, [Ali Tarighatnia](#), Mohammad Reza Tohidkia, Nader D Nader, Ayuob Aghanejad; *Life Sciences*, 2022
16. A review on targeting tumor microenvironment: The main paradigm shift in the mAb-based immunotherapy of solid tumors; Ayuob Aghanejad, Samad Farashi Bonab, Maryam Sepehri, Fatemeh Sadat Haghighi, [Ali Tarighatnia](#), Christopher Kreiter, Nader D Nader, Mohammad Reza Tohidkia; *International Journal of Biological Macromolecules*; 2022
17. Recent trends of Contrast Agents in Ultrasound Imaging: a review on Classifications and Applications; [Ali Tarighatnia](#), Mohammad Reza Fouladi, Nader D Nader, Ayuob Aghanejad and Hossein Ghadiri; *Materials Advances*; 2022
18. Targeting mitochondria in cancer therapy: Insight into photodynamic and photothermal therapies; Jamileh Kadkhoda, [Ali Tarighatnia](#), Nader D Nader, Ayuob Aghanejad; *Life Sciences*; 2022
19. Multifunctional magnetic nanoparticles for MRI-guided co-delivery of erlotinib and L-asparaginase to ovarian cancer; Seraj Mohaghegh, [Ali Tarighatnia](#), Yadollah Omid, Jaleh Barar, Ayuob Aghanejad, Khosro Adibkia; *Journal of Microencapsulation*; 2022
20. A meta-analysis review of the effect of Zn-doped synthetic polymer materials on bone regeneration; Shide Jiang, Yusong Zhang, Fahad Alsaikhan, Abduladheem Turki Jalil, Mehdi Khanbabayi Gol, [Ali Tarighatnia](#); *Journal of Drug Delivery Science and Technology*; 2022
21. Ultrasmall iron oxide nanoparticles and gadolinium-based contrast agents in magnetic resonance imaging: a systematic review and meta-analysis; Azadeh Amraee, Samideh Khoei, Seied Rabi Mahdavi, Mohammad Reza Tohidkia, [Ali Tarighatnia](#), Lili Darvish, Saeed Hosseini Teshnizi, Ayuob Aghanejad; *Clinical and Translational Imaging*; 2022

22. Recent Trends in Diagnostic Biomarkers of tumor microenvironment; Paniz Siminzar, Mohammad Reza Tohidkia, Elisabeth Eppard, Nasim Vahidfar, [Ali Tarighatnia](#), Ayuob Aghanejad; *Molecular Imaging and Biology*; 2022
23. Reduction of Radiation Risk to Cardiologists and Patients during Coronary Angiography: Effect of Exposure Angulation and Composite Shields; Reza Malekzadeh, [Ali Tarighatnia](#), Parinaz Mehnati, Nader D Nader; *Frontiers in Biomedical Technologies*;2023
24. Carotid artery stenting prior to coronary artery bypass grafting in patients with carotid stenosis: Clinical outcomes; Reza Mohammadian, [Ali Tarighatnia](#), Ehsan Sharifipour, Eskandar Nourizadeh, Rezayat Parvizi, Camille T Applegate, Nader D Nader; *Interventional Neuroradiology*,2023
25. Radiation Exposure Aspects during Trans-Radial Angiography and Angioplasty; [Ali Tarighatnia](#), Golshan Mahmoudi, Nader D Nader; *Frontiers in Biomedical Technologies*;2023
26. Folic acid-conjugated Fe-Au-based nanoparticles for dual detection of breast cancer cells by magnetic resonance imaging and computed tomography; Nasim Jamshidi, [Ali Tarighatnia](#), Mona Fazel Ghaziyani, Fakhrossadat Sajadian, Nader D Nader; *Frontiers in Biomedical Technologies*;2023
27. Spinal Re-irradiation mediated myelopathy: A Systematic Review and Meta-Analysis; Azadeh Amraee, Mohammad Reza Tohidkia, Lili Darvish, [Ali Tarighatnia](#), Nasrin Robotmili, Atena Rahimi, Narges Rezaei, Farzaneh Ansari, Saeed Hosseini Teshnizi, Ayuob Aghanejad; *Clinical Oncology*;2023

Presentations

- 1) **A. Tarighatnia**, M.H. Abdkarimi, Evaluation of skull radiography and brain CT Scan requested ...; 7th congress Iranian radiology technologist Tehran-Iran 2012
- 2) **A. Tarighatnia**, A.H.M.Alian, A.R.Farajollahi, M.Ghojazadeh; A Operator and patient radiation dose difference in Coronary angiography and PCI between Tran radial and Tran femoral access; Trans- Radial Course, Isfahan, Iran;2015
- 3) **A. Tarighatnia**, A.H.M.Alian, A.R.Farajollahi, M.Ghojazadeh; Radiation dose of operator and patient by using single catheter and double catheter in Trans-radial coronary Angiography; 32nd Iranian Congress of Radiology; 2016
- 4) **A. Tarighatnia**, A.H.M.Alian, A.R.Farajollahi, M.Ghojazadeh; Comparison of Operator Radiation Dose from Coronary Procedures in Radial Approach using Pelvic & Radial Shields with Femoral Approach using Pelvic Shield; 5th Aim Radial, Budapest, HU; 2016

- 5) **A. Tarighatnia**, M.H. Abdkarimi, A.Mesbahi; The role of radiologic technologist In the interventional Radiology procedures; 15th Iranian congress of Radiographic Sciences; 2017
- 6) **A. Tarighatnia**, A.H.M.Alian, A.R.Farajollahi, M.Ghojazadeh; Operator Radiation Exposure in Trans-Radial from coronary angiography procedures; Effect of Pelvic and Radial Lead Shields; 15th Iranian congress of Radiographic Sciences; 2017

Posters

- 1) **A. Tarighatnia**, M.H. Abdkarimi, A.H.M. Alian; Effect of premedication on adverse reaction from contrast media; 5th congress Iranian radiology technologist Shiraz-Iran; 2010
- 2) **A. Tarighatnia**, A.H.M.Alian, A.R.Farajollahi, M.Ghojazadeh; Patient Radiation Exposure in trans-radial and trans-femoral Coronary Angiography and Angioplasty; 4th advanced International Master class, aim Radial, Liverpool, UK; 2015
- 3) **A. Tarighatnia**, A.H.M.Alian, A.R.Farajollahi, M.Ghojazadeh; Our Experience in PCI through Trans-radial Vascular Access Site; 4th advanced International Master class, aim Radial, Liverpool, UK; 2015
- 4) **A. Tarighatnia**, A.H.M.Alian, A.R.Farajollahi, M.Ghojazadeh; Efficacy, clinical safety and patient radiation between radial and femoral access during coronary procedures: the randomized study; 4th Iranian Cardiovascular Joint Congress, Tehran, Iran; 2016
- 5) Ida Khalegifard, **A. Tarighatnia**, A.H.M.Alian, A.R.Farajollahi, M.Ghojazadeh The impact of both radial& pelvis lead shield on operator Radiation Exposure during Trans-Radial coronary Angiography; 14th IRPA,Cape Town, South Africa; 2016
- 6) **A. Tarighatnia**, Ida Khalegifard, A.H.M.Alian, A.R.Farajollahi, M.Ghojazadeh; The effect of single catheter on patient and operator radiation dose during trans-radial coronary angiography; 14th IRPA,Cape Town, South Africa; 2016
- 7) Ida Khalegifard, **A. Tarighatnia**, A.H.M.Alian, A.R.Farajollahi, M.Ghojazadeh; Comparison of Operator Radiation Dose in Radial Approach Using RADBOARD & Pelvic Lead Shields with Femoral Approach in Coronary Procedures; 5th Aim Radial, Budapest, HU; 2016
- 8) Ida Khalegifard, **A. Tarighatnia**, A.H.M.Alian, A.R.Farajollahi, M.Ghojazadeh; Effect of Pelvic and Radial Lead Shields on Operator Radiation Exposure in Trans-Radial coronary procedures; 5th Aim Radial, Budapest, HU; 2016
- 9) **A. Tarighatnia**, T.Sadaghatian, S.H.Rasta; An investigation of couch effect on the attenuation of megavoltage radiotherapy and variation of absorbed dose in the build-up region; 15th Iranian congress of Radiographic Sciences; 2017

Executive responsibilities

- 1) Assistant Editor of the Frontiers in Biomedical Technologies
- 2) Director of health physics, Tabriz, (2014-up to 2020)

- 3) Membership of Iranian Radiology Technologist Association
- 4) Membership of Iranian Medical Physics Association
- 5) Reviewer of more than 10 scientific papers from the prestigious scientific journals

Awards and appreciation

Habits

Sports (Swimming, Mountain climbing, and mini-football)