

Tabriz University of Medical Sciences (TUOMS) School of Medicine

Curriculum Vitae

Personal Data:

First name: Babak

Last name: Mahmoudian

Nationality: Iranian

Date of birth: 19.09.1970

Place of birth: Macoo

Marital status: Married

Specialty: Nuclear Medicine, FEBNM

Academic rank: Assistant Professor

Department/Research Center: Radiology, Division of Nuclear Medicine

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h-index (Scopus): 8

ORCID ID: 0000-0002-2272-2747

Scopus ID: 6508236800

Researcher ID: F-5850-2018

Google Scholar Profile:

https://scholar.google.com/citations?user=fWpecrwAAAAJ&hl=en

Fields of interest

Nuclear Cardiology, Nuclear Oncology

Skills: (language, software...)

Languages: Persian, English, Turkish (Azarish and Turkey).

Software: word, excel, powerpoint, e.soft,

Educational Background:

Date	Degree	Institution	Country
May 2019 – September 2019	Fellowship in PET/CT	Tehran University of Medical	IRAN
		Sciences	
Oct 2006	Fellowship in European Board in	European Association of	TURKEY
	Nuclear Medicine (FEBNM)	Nuclear Medicine	
Sept 2004 – Sept 2005	Iranian Board of Nuclear Medicine	Tehran University of Medical	IRAN
		Sciences	
October 1999 - December	Diploma of Specialist of Nuclear	University of Hacettepe,	TURKEY
2003	Medicine	Ankara	
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Sep 1988-Sept 1995	Doctorate of Medicine	Tabriz University of Medical	IRAN
		Sciences	
Sep 1984 – Sep 1988	Diploma of Experimental Sciences	Shahid Mostafa	IRAN
		Khomeini(Mehr), Tabriz	

Sabbaticals:

Start and End Date (month/year)	Details
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Thesis

Degree	Title
Specialist of Nuclear medicine	Detection of Silent Myocardial Ischemia with Tc-99m MIBI Gated SPECT in
	Hemodialysis Patients. Supervisor: Prof . Meltem Caglar.
	mcaglar@hacettepe.edu.tr
Doctorate of Medicine	Last Statistical Study of Humerus Fractures in Patients Hospitalized in
	Orthopedic Ward of Imam Hospital Over the Five Years (No: A/63 - 1 -
	June 20, 1995). Supervisor: Prof. Habib Mesbah.

Educational experience

Teaching

Date (month/year)	Course Name, Venue (Institution, Address)
Each month from June 2012	Essentials of Imaging in Nuclear Medicine, Students of medicine
	Faculty of Medicine, Tabriz University of Medical Sciences, Department of
	Radiology
Each month from June 2012	Essentials of Nuclear endocrinology, Students of medicine
	Faculty of Medicine, Tabriz University of Medical Sciences, Department of
	Radiology
Each month from June 2012	Essentials of Nuclear cardiology, Students of medicine
	Faculty of Medicine, Tabriz University of Medical Sciences, Department of
	Radiology
Each year from June 2012	Essentials of Nuclear cardiology, Residents of cardiology
	Faculty of Medicine, Tabriz University of Medical Sciences, Department of
	Radiology
Each year from June 2012	Essentials of Nuclear endocrinology, Fellowships of endocrinology
	Faculty of Medicine, Tabriz University of Medical Sciences, Department of
	Radiology

Workshop(s)

Date (month/year)	Course Name, Venue (Institution, Address)		
May 2014	Workshop of Brain PET/SPECT analysis. First Iranian Conference on Human		
	Brain Mapping held by Shahid Beheshti University of Medical sciences,		
	Tehran, IRAN		

Lecture(s)

Date (month/year)	Details
August 2003	Detection of silent Myocardial Ischemia with 99mTc-MIBI SPET in
	Hemodialysis Patients: Relation with Cardiovascular Risk Factors. Annual
	congress of EANM, Amsterdam, Nederland
June 2005	Role of Tc-99m MIBI gated SPECT for the detection of silent myocardial
	ischemia in hemodialysis patients: Which patients are at risk?, 52nd annual
	meeting of society of nuclear medicine. Toronto, Canada
July 2010	Utilization of brain perfusion SPECT in post-traumatic anosmia. Babak
	Mahmoudian, CME of Rhinology, Tabriz, IRAN
November 2010	Effects of Enhanced External Counterpulsation on Myocardial Perfusion in
	Patients Unsuitable for Invasive Interventions. International Congress of
	Nuclear Medicine and National Congress of Iranian Society of Nuclear
	Medicine, Mashad, Iran
September 2011	Indications of PET/CT in Oncology. Babak Mahmoudian, 2nd International
	Scientific Congress of Azarbaijan Physnicians, Tabriz, IRAN
November 2012	Role of PET in prognosis and response to treatment in glial tumors. Babak
	Mahmoudian 3rd International Scientific Congress of Azarbaijan Physicians,
	Tabriz, Iran
November 2013	Imaging in Acute Stroke; Role of Brain Perfusion SPECT in Acute CVA. 6th
	National and first International Iranian Stroke Congress, Tabriz, IRAN
December 2013	Role of Captopril renal scan in diagnosis of renovascular hypertension. CME
	in renovascular hypertension held by Tabriz University of Medical Sciences,
	Tabriz, IRAN
February 2014	Role of Scintimammography in characterization of breast masses. CME in
	Imaging in Breast Cancer held by Tabriz University of Medical Sciences,
	Tabriz, IRAN
November 2014	Somatostatin Imaging in Lung Masses; Incremental Value of Co-registration
	of SPECT on Non-contrast Enhanced CT. 18 th Iranian Annual and 6 th

	International Congress of Nuclear Medicine, Tehran, Iran
December 2014	Essential of Imaging in Nuclear Medicine. CME in Familiarity with Medical
	Imaging Modalities held by Tabriz University of Medical Sciences, Tabriz,
	IRAN
October 2015	New advances in brain SPECT. International seminar: Advances in Neurology,
	Psychiatry and Radiology, held by Tabriz University of Medical Sciences,
	Tabriz, IRAN
19 February 2017	Role of Nuclear Medicine in Thyroid nodules. CME in Thyroid Nodules held
	by Endocrine Glands Research Center of Tabriz University of Medical
	Sciences, Tabriz, IRAN
25 February 2017	Clinical applications of static renal scan and radionuclide voiding
	cystourterography. CME in imaging and nuclear medicine applications in
	urology. East Azarbaijan branch of Urology Association, Kaya Hotel, Tabriz,
	IRAN
November 2018	Diagnostic Accuracy of offline lung perfusion SPECT/CT in Pulmonary
	Embolism, 22th Iranian Annual Congress of Nuclear Medicine, Yazd, Iran
2nd May 2019	Application of PET/CT in gastric cancer, CME in new advances in gastric
	cancer, Tabriz Valiasr (International) hospital, Tabriz, IRAN
9 th October 2019	SPECT and PET in Parkinson's disease, 4th Prof. Alavi International Meeting,
	Tabriz University of Medical Sciences, Tabriz, IRAN
3 rd November 2019	PET/CT in cancer of cardia, CME in New advances in diagnosis and treatment
	of cancer of cardia, Kaya hotel, Tabriz, IRAN

Research Activities:

Research areas, Interests

Nuclear Cardiology, Nuclear Oncology

Books:

N	Title	authors	Publisher	Authorship/ Translation/

Selected articles:

N	Title	Authors	Journal	Year	Indexed in (Scopus, Medline, WOS,)
1	Soft Tissue Uptake of Bone Radiopharmaceuticals	Tuncel M, Erbaş B,	Seminars in Nuclear	2003 Oct;	ISI, Scopus,
		Mahmoudian B	Medicine	33(4):334-7	PubMed, Embase
2	Selected intra-arterial injection of Tc-99m MDP	Mahmoudian B, Ozgen Kiratli	Rev Esp Med Nucl	2004 Jul-Aug;	ISI, Scopus,
		P, Tuncel M, Bozkurt F.		23(4):284-5	PubMed, Embase
3	Value of Tc- 99m methoxyisobutylisonitrile gated	Meltem Caglar, Babak	Nucl Med Commun	2006 Jan;	ISI, Scopus,
	SPECT for the detection of silent myocardial	Mahmoudian, Kudret Aytemir,		27(1):61-9	PubMed, Embase
	ischemia in hemodialysis patients: clinical variables	Serkan Kahraman, Mustafa			
	associated with abnormal test results	Arici, Giray Kabakci and Erdem			
		Karabulut			
4	Behcet Disease With an Intrapulmonary Shunt	Murat Tuncel; Pinar Ozgen	Clinical Nuclear	2006 March;	ISI, Scopus,
		Kiratli; Babak Mahmoudian	Medicine	31(3):181-182	PubMed, Embase
5	A comparative study of lung masses with Tc-99m	Oskoei SD, Mahmoudian B .	Pak J Biol Sci	2007 Jan 15;	Scopus, PubMed
	Sestamibi and pathology results			10(2):225-9.	
6	McCune-Albright syndrome associated with	Pelin Ozcan-Kara, Babak	European Journal of	2007	ISI, Scopus,
	acromegaly and bipolar affective disorder	Mahmoudian, Belkis Erbas,	Internal Medicine	18; 600–602	PubMed, Embase

		Tomris Erbas			
7	Single Tc99m Sestamibi injection, double	Fallahi B, Beiki D,	Int J Cardiovasc	2008 Dec;	ISI, Scopus,
	acquisition gated SPECT after stress and during	Gholamrezanezhad A,	Imaging	24(8):825-35.	PubMed, Embase
	low-dose dobutamine infusion: a new suggested	Mahmoudian B, Ansari Gilani		Epub 2008 Jun 18.	
	protocol for evaluation of myocardial perfusion	K, Eftekhari M, Fard-Esfahani			
		A, Mohseni Z, Saghari M.			
8	Evaluation of Serumal Levels of AST, ALT, Total	Bahram Amouoghli Tabrizi,	International Journal	2012;	Google Scholar
	Bilirubin, Glucose, Urea and Creatinin in Mice after	Meisam Naeimi Kararoudi and	of Animal and	4(1): 68-70	
	Administration of Tc-99m MIB	Babak Mahmoudian.	Veterinary Advances		
9	Therapeutic effects of Enhanced External Counter	Fariba Eslamian, Naser	Int J Med Sci Public	2013;	Index Copernicus
	Pulsation (EECP) on clinical symptoms,	Aslanabadi, Babak	Health.	2(2): 187-195	
	echocardiographic measurements, perfusion scan	Mahmoudian, Seyyed Kazem			
	parameters and exercise tolerance test in coronary	Shakouri.			
	artery disease patients with refractory angina.				
10	Comparison of different cleaning procedures of	Parnia F, Hafezeqoran A,	Implant Dent	2013 Dec;	ISI, Scopus, PubMed
	implant drills using Tc-99m	Mahmoudian B, Saati E,		22(6):627-30	
		Moslehifard E, Koodaryan R,			
		Mahboub F.			
11	Scintigraphic evaluation of abomasal emptying rate	Fartashvand M, Assadnassab	Iranian Journal of	2014;	ISI, Web of Science
	in neonatal suckling lambs.	Gh, Mahmoudian B , Mohseni	Veterinary Research	15(2): 172-175	
		M, Afsharfarnia S			
12	Intrathoracic Splenosis; A rare false positive cause	Babak Mahmoudian, Reza	Clinical Nuclear	2015 Feb;	ISI, Scopus,
	of somatostatin imaging in characterization of	Javadrashid, Ashraf Fakhrjoo.	medicine	40(2): 138-140	PubMed, Embase
	solitary pulmonary nodule	Interesting Image			
13	Advances in Pinhole and Multi-Pinhole Collimators	Jalil Pirayesh Islamian,	World J Nucl Med	2015 Jan-	PubMed
	for Single Photon Emission Computed Tomography	AhmadReza Azazrm , Babak		Apr;14(1):3-9	
	Imaging	Mahmoudian, Esmail			
		Gharapapagh			
14	Advances in SPECT for Optimizing the Liver Tumors	Roshan HR, Azarm A,	World J Nucl Med	2015 May-Aug;	PubMed
	Radioembolization Using Yttrium-90 Microspheres	Mahmoudian B, Islamian JP		14(2):75-80	
15	Development of Scintillators in Nuclear Medicine	Khoshakhlagh M, Islamian JP,	World J Nucl Med	2015 Sep-Dec;	PubMed
		Abedi SM, Mahmoudian B		14(3):156-9	
16	The Effect of Parallel-hole Collimator Material on	Azarm A, Islamian JP,	World J Nucl Med	2015 Sep-Dec;	PubMed
	Image and Functional Parameters in SPECT	Mahmoudian B, Gharepapagh		14(3):160-4	
	Imaging: A SIMIND Monte Carlo Study				
17	A Study on Determination of an Optimized	Khoshakhlagh M, Islamian JP,	World J Nucl Med	2016 Jan-Apr;	PubMed
	Detector for Single Photon Emission Computed	Abedi M, Mahmoudian B,		15(1):12-7	
	Tomography	Mardanshahi AR			
18	Collimator and energy window optimization for 90Y	Roshan HR, Mahmoudian B,	Appl Radiat Isot	2016 Feb;	ISI, Scopus,
	bremsstrahlung SPECT imaging: A SIMIND Monte	Gharepapagh E, Azarm A,		108:124-8	PubMed, Embase
	Carlo study	Islamian JP			
19	RET Gene Analysis in Patients with Medullary	Kheiroddin P, Rasihashemi SZ,	Clin Lab	2016;	ISI, Scopus,
	Thyroid Carcinoma	Estiar MA, Mahmudian B,		62(5):871-6	PubMed, Embase
		Halimi M, Mousavi F, Nemati			
		M, Sakhinia E			
20	Bone and Lung Metastasis of Papillary Thyroid	Aghamohammadzadeh N,	Int.J.Curr.Res.Aca.Rev	2016;	Chemical Abstract -
	Carcinoma in 64-Year Old Man	Najafipour F, Mahmoudian B ,		4(10): 166-172	CAS
		Pourlak T and Najafipour M			
21	A Monte Carlo study for optimizing the detector of	Khoshakhlagh M, Pirayesh	Nucl Med Rev Cent	2017;	PubMed
		L		<u> </u>	<u> </u>

	SPECT imaging using a XCAT human phantom	Islamian J, Abedi SM,	East Eur	20(1):10-14	
		Mahmoudian B, Shayesteh			
		Azar M			
22	Cadmium Telluride Semiconductor Detector for	Abbaspour S, Mahmoudian B,	World J Nucl Med	2017 Apr-Jun;	PubMed
	Improved Spatial and Energy Resolution	Islamian JP		16(2):101-107	
	Radioisotopic Imaging	islaman si		10(2).101 107	
	nadioisotopic illiagilig				
23	A study on differentiation of extra-cardiac activity	Parvaneh Darkhor, Babak	Iran J Nucl Med	2018;	SCOPUS, Web of
	by Slit Slat collimation in Single Photon Emission	Mahmoudian, Esmaeil		26(1):22-29	Science (ESCI),
	Computed Tomography	Gharepapagh, Seyed Rasoul			EMBASE, EBSCO,
		Zakavi, Jalil Pirayesh Islamian			ISC, Index
					Copernicus, IMEMR,
					SID,Google Scholar,
					IranMedex, Magiran
24	A study on drug delivery tracing with radiolabeled	Mahdiyeh Shamsi, Jafar Majidi	Nuclear Medicine	2018;	ISI (ESCI), Scopus,
	mesoporous hydroxyapatite nanoparticles	Zolbanin, Babak Mahmoudian,	Review	21(1): 32–36	PubMed, Embase,
	conjugated with 2DG/DOX for breast tumor cells	Naime Majidi Zolbanin, Leili			DOAJ
		Aghebati Maleki, Mohammad			
		Asghari Jafarabadi, Jalil			
		Pirayesh Islamian			
25	A Monte Carlo study on the performance	Samira Abbaspour, Kaveh	Applied Radiation	2018;	ISI, Scopus,
	evaluation of a parallel hole collimator for a	Tanha, Babak Mahmoudian,	and Isotopes	139: 53–60	PubMed, Embase
	HiReSPECT: A dedicated small-animal SPECT	Majid Assadi, Jalil Pirayesh			
		Islamian			
26	Value of early rest myocardial perfusion imaging	Mohammadreza Taban	The international	2019 Jan;	ISI, Scopus,
	with SPECT in patients with chest pain and non-	Sadeghi, Babak Mahmoudian ,	journal of	35 (5): 965-971	PubMed, Embase
	diagnostic ECG in emergency department	Samad Ghaffari, Payman	cardiovascular		J
		Moharamzadeh, Alireza Ala,	imaging		
		Leili Pourafkari, Shahla			
		Gureishi, Neda Roshanravan,			
		Somayeh Abolhasani,			
		Mahboub Pouraghaei			
27	Evaluation of the Incidence of Chronic	Farid Rashidi, Rezayat Parvizi,	Lung	2020 Feb;	ISI, Scopus,
	Thromboembolic Pulmonary Hypertension 1 Year	Eisa Bilejani, Babak		198(1):59-64	PubMed, Embase
	After First Episode of Acute Pulmonary Embolism:	Mahmoodian, Fatemeh			
	A Cohort Study	Rahimi, Ata Koohi			
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Research projects:

N	Title	Details		
1	A Study on optimizing the collimator of single photon emission computed tomography.	Supervisor of Ahmadreza Azarm for degree of master of		
		sciences in medical physic, Mars 2015		
2	A study on determination of an optimized detector for single photon emission computed	Consultant of Mohammad Khoshakhlag for degree of master		
	tomography.	of sciences in medical physic. Mars 2015		
3	A study on optimizing of the medium energy collimator for quantitative imaging with 90Y in	Consultant of Hoda Rezaei Roshan for degree of master of		
	SPECT imaging	sciences in medical physic. November 2015		
4	A Study on the targeted uptaking of Tc-99m Radiolabeled 2DG/DOX conjugated	Consultant of Mahdieh Shamsi for degree of master of		
	nanoparticles in breast tumor cells for SPECT imaging	sciences in medical physic. January 2017		
5	Evaluation the sensitivity and spatial resolution of image using semiconductor CdTe detector	Consultant of Samira Abbaspour for degree of master of		
	in single photon emission computed tomography imaging	sciences in medical physic. January 2017		
6	Evaluating of a suitable hole angle in slit slat collimator to differentiate lower heart activity	Consultant of Parvaneh Darkhor for degree of master of		

	from sub-diaphragmatic organs in single photon emission computed tomography	sciences in medical physic. November 2017
7	Evaluation of diagnostic value of fused Tc-99m TRODAT-1 SPECT on MRI in differentiation of	Supervisor for doctorate thesis for MD degree, held by Zahra
	parkinsonism	Babaei Aghdam, Student of Medicine, 1397/05/07
8	The diagnostic accuracy of TC99m-EDDA/HYNIC-TOC scintigraphy in differential diagnosis of	Supervisor of Dr Roya Mashayekhi, MD, for degree of
	undifferentiated pulmonary nodule	specialist of Radiology 1398/03/07
9	Improvement of basal ganglia detectability in NCAT Phantom Brain SPECT by wavelet	Consultant of Marziyeh Saeidi Kia for degree of master of
	Transformation in Image	sciences in medical physic 1398/03/12
10	Evaluation of diagnostic accuracy of Sest-amibi Scan for preoperative localization of affected	Supervisor of Dr Mitra Tootoonchian, MD, for degree of
	parathyroid gland in patients with primary hyperparathyroidism	specialist of Internal Medicine 1398/07/09
11	Prevalence of Cardiac Amyloidosis in Patients with Aortic Valve stenosis by strain	Supervisor of Dr Samira Jafari Sis, MD, for degree of specialist
	echocardiography	of cardiology 1398/08/08
12	Diagnostic Accuracy of Offline Lung Perfusion SPECT/CT in Diagnosis of Pulmonary Embolism	Supervisor for doctorate thesis for MD degree, held by Hesam
		Arianpour, Student of Medicine, 1398/09/23
13	Evaluation on the effect of Wolfmet collimator on the detectability of SPECT imaging system	Consultant of Maryam Daremi for degree of master of
		sciences in medical physic. 1399/02/07
14	Evaluation the diagnostic value of Tc-99m MIBI SPECT in differentiation of brain masses	Supervisor for doctorate thesis for MD degree, held by Shahin
		Talaei, Student of Medicine, 1399/02/15
15	Determination of the first site of spine involvement in vertebral column metastases with	Consultant of Dr Ali Sadin, MD, for degree of specialist of
	MRI	Radiology. 1399/02/15
16	Diagnostic value of low dose dobutamine gated SPECT in detection of myocardial viability	Supervisor for doctorate thesis for MD degree, held by Safa
	and short-term prognosis following CABG in heart failure patients	Mohammad Ghasem Nejad, Student of Medicine, 1399/05/22

Positions held: (past-current)

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Start and End Date	Job Title, Responsibilities and achievements	
1 October 2007 till now	Founder and technical responsible of Tabriz Gamma Scan, Nuclear Medicine Center,	
	Tabriz, IRAN	
4 June 2016 till now	Technical Responsibility of Division of Nuclear Medicine of Imam Reza Hospital of Medical	
	Faculty of Tabriz University of Medical Sciences	

Association Memberships (past and current)

Start and End Date	Job Title, Responsibilities and achievements
October 1995 is continued	Member of Iranian Medical Council
Oct 2000 is continued	Member of European Association of Nuclear Medicine
Oct 2000 till Oct 2006	Member of Turkish Society of Nuclear Medicine
October 2004 is continued	Member of Iranian Society of Nuclear Medicine
May 2017 is continued	Member of "Radiation Sciences Research Team" of Tabriz University of Medical Sciences

Awards and Recognitions

Start and End Date	Details
May 2013 – Dec 2013	First rank of national research publication in prosthetic dentistry, during 13th annual dental
	symposium in the memory of martyr Ahmad Hedayat held in Tehran at 8 May 2014 titled: Comparison of different cleaning procedures of implant drills using Tc-99m Pertechnetate.
	Parnia F, Hafezeqoran A, Mahmoudian B , Saati E, Moslehifard E, Koodaryan R, Mahboub F.
	Implant Dent. 2013 Dec;22(6):627-30