**Nafiseh Ghavami**

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**Address: Advanced Diagnostic and Interventional Radiology Research Center (ADIR), Imam Khomeini Hospital, Tehran University of Medical Sciences, Tehran, Iran**

***Education***

Bachelor of Science in Radiology, Iran University of Medical Science, 2000-2004

Bachelor of Science in Medical Engineering, Payam Noor University, 2011-2015

Master of Science in Electrical Engineering, Electronic Digital Systems, Iran University of Science & Technology, 2015-2017

Thesis Topic: Pain Recognition using Textural Features

***Professional experiences***

* Full time cooperation with Advanced Diagnostic & Interventional Radiology Research Center, from 2005
* Full time cooperation with Iranian journal of Radiology, from 2010
* Part time cooperation with Ale Ahmad Radiology clinic, Jun 2008 to Jun 2009
* Part time cooperation with Arman Novin Andish scientist company, 2005-2006
* Setting up Iranian Radiology for technologist website, 2004-2008
* Journalistic activities with several medical journals 2010-2006

***Research and Scientific Activity***

* MRI workshop, Iranian Thechnologist NGO , 70 hours, summer of 2004
* CT scan, Iranian Thechnologist NGO , 60 hours, 2004
* Basic Research Methods in Medical Sciences, Iran university of medical science, 25 hours , 2005
* Searching of electric sources, Tehran university of Medical Sciences, 1 day,2005
* Contrast Media application in Medical Imaging, Siemens company, 2005
* Neuroradiology imaging, Schering company,2005
* MRI corse, Tehran university of Medical Sciences , 14 hours , 2006
* CT scan, Tehran university of Medical Sciences , 10 hours, 2006
* Bone Densitometery, Tehran university of Medical Sciences , 10 hours, 2006
* Protection & Radiobiology, Anvar institute , 70 hours , 2008
* Radiology congress,2004 -2013
* First seminar of new medical equipment and technology, Tehran university of medical science, Aug 2012
* Seminar of PACS, Tehran university of medical science, Aug 2012
* Third symposium of electronic hospital and telemedicine, Tehran university of medical science, Aug 2012
* FMRI & Data Analysis course , Neuro Imaging and Analysis Group, 17-19 Feb
* Elementary DWI course, Neuro Imaging and Analysis Group,2015
* Systematic Review, neuroscience research center, Emam Khomeini hospital, Aug 2015
* Meta analyses, neuroscience research center, Emam Khomeini hospital, Aug 2015
* advance DWI course, Neuro Imaging and Analysis Group, 17-19 May 2016
* Mosfet Dosimetry, Sept 2016
* Diffusion Tensor Imaging: Elementary Level, Tehran, 17-19 February 2016
* Diffusion Tensor Imaging: advanced Level, Tehran, 17-19 May 2016
* search in Pubmed, Tehran university of medical science, 2016
* Systematic Review, Tehran university of medical science 2016
* Meta analysis, Tehran university of medical science 2016
* health and safety at work, , Iran University of Science & Technology, summer 2017
* Neuroscience and cognitive sciences, elementary course,6 month, 2020
* Introduction to Python Programming Language,July 2021 in 10 session
* Neuroscience and cognitive sciences, Complementary course,6 month, 2020
* Practical workshop of 3D analysis and modeling of medical images using Mimics software ,2023
* Practical workshop of Machine learning in medicine, 2023

***Research Publication***

* Hossein Ghanaati , Diana Zarei , Mahbod Issaiy , **Nafiseh Ghavami**  , Madjid Shakiba , Jayran Zebardast , Hedayat Abbastabar , Amir Hossein Jalali , Kavous Firouznia

**"Efficacy and Safety of Preoperative Embolization in Glomus Jugulare Tumors: A Systematic Review and Meta-Analysis of Clinical Outcomes and Complications**

Cardiovasc Intervent Radiol. 2024 Apr;47(4):416-431

* Hossein Ghanaati,Amir Hossein Jalali,Madjid Shakiba,Diana Zarei,**Nafiseh Ghavami**, and **Kavous Firouznia**

**Long-Term Clinical and Imaging Findings in Patients with Lower Extremity Varicose Veins Treated with Endovenous Laser Treatment: A Follow-Up Study of up to 12 Years," International** Journal of Vascular Medicine, February 2024

* Seyyed Mohammad Ghodsi, Alireza Khoshnevisan, Mahdi Arjipour, Hossein Ghanaati, Kavous Firouznia,\* Amir Hossein Jalali, Madjid Shakiba, and **Nafiseh Ghavami**

**Diagnostic efficacy of perfusion magnetic resonance imaging in supratentorial glioma grading**

Iran J Radiol. 2018 April; 15(2):e13696.

* Ghanaati, H., Sanaati, M., Shakiba, M., Bakhshandeh, H., **Ghavami, N**., Aro, S., Jalali, A.H., Firouznia, K

**Pregnancy and its Outcomes in Patients After Uterine Fibroid Embolization: A Systematic Review and Meta-Analysis**

CardioVascular and Interventional Radiology2020

* Ghanaati H, Firouznia K, Rezaei M, Shakiba M, **Ghavami N**.

**Management of Osteoid Osteoma Using Radiofrequency Ablation**

Iranian Journal Of Radiology Volume: 17 Issue: 1 Published: JAN 2020

* Ghazaleh Amjad 1 , Mehdi Zeinali Zadeh 2 , Farid Azmoudeh-Ardalan 3 , Amir Hossein Jalali 4 , Madjid Shakiba 4 , **Nafiseh Ghavami** 4 , Zeynab Oghabian 5 , Mohammad Ali Oghabian 5 , Saba Firouznia , Behrouz Rafiei , Parto Sabet Rasekh , Farzad Tahmasebi Arashloo , Kavous Firouznia

**Evaluation of multimodal MR imaging for differentiating infiltrative versus reactive edema in brain gliomas**

British Journal of Neurosurgery 2020 Dec 2;1-9.

* Hassan Hashemi, Hossein Ghanaati, Somayeh Behzadi, Mohammad Hossein Harirchian, Ghazaleh Amjad, Madjid Shakiba, **Nafiseh Ghavami**, Hamed Naghibi and Kavous Firouznia

**Comparison of Gadovist and Magnevist in Brain Magnetic Resonance Imaging of Multiple Sclerosis Patients with an Acute Attack**

Iran Red Crescent Med J. 2021 February; 23(2):e192

* Hossein Ghanaati, MD, Mahsa Alborzi Avanaki, MD, **Nafiseh Ghavami, MS**,

Hedayat Abbastabar, PhD, Madjid Shakiba, MD, Sina Firouznia, Amir Hossein Jalali, MD, PhD, and Kavous Firouznia,

**Pregnancy Rate and Outcomes Following Uterine Artery Embolization for Uterine Arteriovenous Malformations: A Systematic Review and Meta-Analysis**

Journal of Vascular and Interventional Radiology

Volume 34, Issue 7, July 2023, Pages 1184-1191.e2

***Presentation***

* G. Amjad, D. Firouznia, D. Zeinalizadeh, H. Ghanaati, A. Jalali, M. Shakiba, P. Sabetrasekh, **N. Ghavami**,

 Exact differentiation of tumoural borders in patients with glioma by MRS and diffusion magnetic resonance imaging

 ECR, March 3, 2017

* **Ghavami N**, Ayatolahi A, Matin H

Pain Recognition using Textural Features,

Image Processing congress, Esfahan, 2017

* Matin H, Ayatolahi A, **Ghavami N**

Pain Recognition using Textural Features

Image Processing congress, Esfahan, 2017

***Projects***

* Angiography of SAH patients refers to medical imaging center during 1998-2006
* Clinical trial of evaluation of effects of Simvastatin on MS patients,2005
* Comparison of absorbed dose of ovaries during Uterine Artery Embolization (UAE), with conventional DSA & Flat Panel angiography system, 2007-2009
* Comparison of diagnostic efficacy of gadovist contrast media with magnevist in detecting of active plaques in brain MRI of the patients with acute attack of the multiple sclerosis 209-2010
* assessment of efficacy and side effects of transarterial chemoembolization(TACE) of liver in patients with hepatocellular carcinoma(HCC)-2011-2012
* evaluation of Carotid artery dopler ultrasonography findings in coronary artery revascularization candidates,2010
* Evaluation of complications and efficacy of Endo Vascular Laser Ablation treatment in the treatment lower limb varices,2010-2011
* Study of Radiologic and sonographic Equipments Installed in Units of Tehran University of Medical Sciences in 2009-10
* Comparison of the diagnosis sensitivity of brain cystic lesions in three imaging modality of conventional MRI, MRS and DWI of three tesla apparatus 2011-2012
* Evaluation of concordance between MRI, TVS, Collor doppler sonography with pathological Findings indeterming degree of myometrial invasion inpatients with endometrial cancer referred to imam khomeini hospital in 2011
* Evaluation of DWI , ADC map, perfusion MRI, and MRS sequences in defferentiating Infiltrative versus Reactive edema in Brain Glioma 2014
* Comparison Of Unenhanced&Enhanced 3d- Tof Mra With Digital Subtraction Angiography Findings In Monitoring Coiled Cerebral Aneurysms 2014
* Evaluation of efficacy and complications of prostatic arterial embolization in the treatment of BPH -2014
* Evaluation of safety and efficacy of infrapopliteal angioplasty for diabetic foot 2015
* Effect of uterine artery embolization (UAE) in patients with uterine fibroid on pregnancy: systematic review and meta analysis 2016
* Investigation of effectiveness and side-effects of embolization in the treatment of glomus jugular tumors in a systematic review and meta-analysis,2020
* the efficacy and side effects of hemisphere in transarterial chemotherapy treatment of hepatocellular carcinoma of the liver (HCC): َA clinical trial study, 2021
* Screening breast cancer through the detection of lesions in mammography images using interpretable deep neural networks, 2021
* Correlation of patterns and results of non-mass enhancement breast MRI with pathologic results, 2021
* Evaluation of the effectiveness of Trans-catheter Arterial Micro Embolization (TAME) in the patients with severe knee osteoarthritis, 2021
* Evaluation of the consequences of uterine artery embolization in the treatment of uterine venous malformations on fertility and pregnancy; a Systematic Review and Meta-Analysis,2021
* Magnetic Resonance Perfusion, Diffusion, Spectroscopy and Volumetric Study of Choroid Plexus in Multiple Sclerosis patients; Pre and Post Treatment study by Rituximab and Natalizumab, 2022
* Evaluation of linguistic -cognitive changes before and after, one month and three months after AVM embolization,2022

***Honors and Rewards***

First degree of Bs & Ms of Radiology

First degree in MRI & CT course

***Language skill***

Persian: native

English: good

***Skills***

ICDL, SPSS , MATLAB , Python, Image segmentation, FSL, Mimics software, Image processing, machine learning, Web design(VS code)

***Interesting in***

Image Processing , AI in medicine, web design