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   2006-2010

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
- Deap learning in python Agust & September 2023
- Medical Image Processing in python July 20&21, 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): Á 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