

Curriculum Vitae (CV), September 2020



Name: Mehdi

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Education:

1. General Medicine, TUOMS, Tabriz, IRAN, 1987 –1994.
2. Board certified in Neurology, Imam Medical Center, TUOMS, Tabriz, IRAN, 1994 – 1998.
3. Transcranial Doppler study of cerebral arteries & Carotid Duplex, 6-month course, Alzahra Medical Center, Isfahan University of Medical Sciences, Isfahan, IRAN, 2001.
4. Stroke fellowship, 3 months course, Cerrahpasa Medical Faculty, Istanbul University, Istanbul, TURKEY, 2012.
5. Stroke sabbatical, 3 months course, Calgary University, Calgary, CANADA, 2017.
6. Stroke sabbatical, 6 months period, Calgary University, Calgary, CANADA, 2018-2019.

Positions:

1. Professor of Neurology, Imam REZA Medical Center, Neurology Department, Faculty of Medicine, TUOMS, Tabriz, IRAN.
2. Director, Neurosciences Research Center (NSRC), TUOMS.
3. Head of Neurosciences Department, Advanced Faculty of Medicine, TUOMS.
4. Manager, Doppler Unit of Neurology Department, TUOMS.
5. Head of stroke team in NSRC & Neurology Department, TUOMS.
6. Board Member of Iranian Stroke Organization.
7. Member of National Iranian Stroke Committee
8. World Stroke Organization (WSO) Board of Directors, Individual member presenting Sub-Saharan Africa, Middle East/ East Mediterranean, 2014 – 2022.
9. Funding Chief Editor: Experimental and Clinical Neurosciences (JECNS) Journal.
10. Member of Iranian National Institute for Medical Research Development
11. Board Member of National Neurosciences and Cognitive Sciences Committee
12. National Coordinator of SITS-Most.
13. Head of East Azerbaijan Stroke Support Organization.

Practice:

1. Working as general neurologist, 1998– 2000 in Sina hospital, Tabriz University of Medical Science, Maragheh, IRAN.
2. Working as general neurologist with special tendency to cerebrovascular disease and transcranial Doppler, from 2001 until now in University Hospitals of Imam REZA & Imam Khomeini, Tabriz University of Medical Science, Tabriz, IRAN.
3. Research Assistant of Neurology Department, 2001-2007.
4. Head of Neurological Sciences Team, 2004-2007.
5. Deputy for Research, Faculty of Medicine, 2007-2010.
6. Manager of Vice Chancellor for Research, Tabriz University of Medical Sciences, 2014-2015.

Teaching Experiences:

1. Medical students, Faculty of Medicine, Tabriz University of Medical sciences, Tabriz, IRAN, since 2001 until now.
2. Neurology residents, Faculty of Medicine, Tabriz University of Medical Sciences, Tabriz, IRAN, since 2001 until now.
3. Neurosciences PhD students, Advanced Medical Sciences School, Tabriz University of Medical Sciences, Tabriz, IRAN, since 2014 until now.
4. Rehabilitation students, Faculty of Rehabilitation, Tabriz University of Medical sciences, Tabriz, IRAN, since 2003 until now.

Professional experiences:

1. Implementation of Transcranial Doppler in Imam Medical Center, 2001, annually about 300 cases.
2. Implementation of Neurosciences Research Center (NSRC) in Imam REZA Medical Center, TUOMS, 2007.
3. Implementation of IV thrombolysis in acute ischemic stroke in Imam REZA Medical Center with close cooperation of our stroke team, TUOMS, 2011.

Member of societies or associations:

- 1- Iranian Neurology Association, since 2000.
- 2- East Azerbaijan Multiple Sclerosis Society, since 2004.
- 3- World Stroke Organization, since 2009.
- 4- Iranian Stroke Organization, since 2018

Presentations:

A. Cerebrovascular related:

1. **Farhodi M**, Ayromlou H, Farahani M. Transcranial Doppler sonography and brain stem auditory evoked potentials study in 42 patients with vertebrobasilar insufficiency. **The 9th Iranian congress of Neurology and clinical Electrophysiology**, Tehran, IRAN, 28-31 May 2002.
2. **Farhodi M**, Afrasiabi A, Tarzamni MK, Khoshnam M. Transcranial and carotid Doppler study in coronary artery bypass graft patients. **The 10th Iranian congress of Neurology and clinical Electrophysiology**. Tehran, IRAN, 27-30 May 2003.
3. **Farhodi M**. Epilepsy & Post Epilepsy stroke. **Second Epilepsy Seminar**, Tehran, IRAN, 2004.
4. **Farhodi M**, Aslanabadi N, Rasibaghmishe N. Assessment of cerebral hemodynamic in hypercholesterolemia. **11th International Congress of Neurology and Clinical Electrophysiology**, Tehran, IRAN, 2004.
5. **Farhodi M**. Ghannadi Imami KH. Correlation of Transcranial Doppler and Carotid Duplex Results. **12th International Congress of Neurology and Clinical Electrophysiology**. Tehran, IRAN, 2005; 26-29 April.
6. **Farhodi M**, Khamnei S, Etbari F. Assessment of cardiac response to stimulation of carotid baroreceptors in patients with multiple sclerosis, **International congress on Multiple Sclerosis**, Tehran, IRAN, 20 November 2005.
7. **Farhodi M**, Zeinali A, Agajanloo M, Asgari M. Cerebral vasospasm in diffuse axonal injury patients, Abstract book of **9th International conference on cerebral vasospasm**, June 2006.
8. **Farhodi M**, Parvizi R, Bilajani I, Mehrvar K, Safaiyan A. A study about correlation of neurologic complications of coronary artery bypass graft surgery with cerebrovascular hemodynamic state. **13th International Congress of Neurology and Clinical Electrophysiology**. Tehran, IRAN, 2006; 5-8.
9. **Farhodi M**, Khandaghi R, Nikanfar M, Sharifi Y, Ahmadi M. Correlation of oral contraceptive use and stroke in West-North of Iran, **14th International Congress of Neurology and Clinical Electrophysiology**. May 2007;Tehran, Iran.

10. *Farhoudi M*, Mehrvar K, Parvizi R, Tarzamni MK, Safaeyan A. Correlation of cognitive complications with carotid and intracranial Doppler findings in selected coronary artery bypass patients, **14th International Congress of Neurology and Clinical Electrophysiology**. May 2007;Tehran, Iran.
11. Savadi-Oskouei D, *Farhoudi M*, Barghi H. The effect of BMI on ischemic stroke prognosis. **3rd Iranian stroke congress**, July 2010; Tehran, Iran.
12. *Farhoudi M*, Soleimanpour H, Sadeghi E, Rajaei R, Mostafaei S, Najadi M, Ghasemi Z, Asadzadeh F, Bolouriyani F, Pourkhanjar P, Mehdizadeh R, Mohammadian R. An analytical study on stroke patients presenting to emergency department of Tabriz university of Medical sciences – First report. **3rd Iranian stroke congress**, July 2010; Tehran, Iran.
13. Mohammadian R, *Farhoudi M*, Harirriani S, Naebi A, Mehrvar K. Treatment of selected cases of acute ischemic stroke with internal thrombolysis and intracranial stenting, **3rd Iranian stroke congress**. July 2010; Tehran, Iran.
14. *Farhoudi M*, Sadreddini S, Pashapour A, Altafi D, Ardalan M, Nayebpour M, Sadeghi H. Effect of intravenous erythropoietin on functional status in putaminal hemorrhage: a randomized clinical trial. **7th world stroke congress**, October 2010; Seoul, South Korea.
15. Mehrvar K, *Farhoudi M*, Parvizi R, Bilajani I, Safaiyan A. A study about correlation of neurologic complications of coronary artery bypass graft surgery with cerebrovascular hemodynamic state. **18th Iranian Neurology and Clinical Electrophysiology Congress**, June 2011; Tehran, Iran.
16. Hashemilar M, *Farhoudi M*, Nikanfar M, Savadi D, Shaafi Sh, Hosseini S. Study of Microembolic signal frequency in patients with middle cerebral artery territory ischemic stroke treated with aspirin. **18th Iranian Neurology and Clinical Electrophysiology Congress**, June 2011; Tehran, Iran.
17. *Farhoudi M*, Sadeghi E, Soleimanpour H, , Mostafaei S, Sharifipour E, Najafi M, Ghasemi Z, Asadzadeh F, Rajaei R. Evaluating rate of acute ischemic stroke patients who are eligible for intravenous thrombolytic therapy in northwest Iran and its limitations. **18th Iranian Neurology and Clinical Electrophysiology Congress**, June 2011; Tehran, Iran.
18. *Farhoudi M*, Mehrvar K, Parvizi R, Bilajani I, Safaiyan A. Correlation of cognitive complications with Doppler findings in selected coronary artery bypass graft patients. **16th Iranian Neurology and Clinical Electrophysiology Congress**, June 2011; Tehran, Iran.
19. *Farhoudi M*, Mohammadian R. TCD findings in carotid stenosis. **The first international congress of neurosonology & cerebral hemodynamic**. March 2011; Tehran, Iran.
20. *Farhoudi M*. Stroke Epidemiology and its worldwide importance. **National Symposium of Neuroscience**. Feb 2011; Gholetan, Iran.

21. *Farhoudi M*, Charsouei S, Ahmadi M. Correlation of stroke occurrence with oral contraceptive pills consumption within North-west of Iran. **19th European stroke conference**, May 2011; Barcelona, Spain.
22. *Farhoudi M*, Pashapour A, Ladan AK, Mostafaie S, Sharifipour E, Sadeghi-Hokmabad E. Study on epidemiology and risk factors of ischemic and hemorrhagic stroke in Northwest Iran. **20th European stroke conference**, May 2011; Hamburg, Germany.
23. Sharifipour, Taheraghdam A, *Farhoudi M*, Pashapour A, Sadeghi-Hokmabadi E, Mostafaie S, Houshmandzad S. Effect of allopurinol in ischaemic stroke prognosis. **20th European stroke conference**, May 2011; Hamburg, Germany.
24. Sadeghi-Hokmabadi E, Soleimanpour H, *Farhoudi M*, Mostafaie S, Rajaei R, Sharifipour E, Asadzadeh F, Najafi M, Ghasemi Z. Evaluating rate of acute ischemic stroke patients who are eligible for intravenous thrombolytic therapy in northwest Iran and its limitations. **20th European stroke conference**, May 2011; Hamburg, Germany.
25. *Farhoudi M*, Mehrvar K, Taheraghdam A, Hashmilar M, Sadeghi-Hokmabadi E, Ataloo A, Uludüz D, Delil S, Göksan B, Ince B. Thrombolysis in Acute Ischemic Stroke: Results of Tabriz and Istanbul Stroke Centers. **6th Turkish National Cerebrovascular Congress**, May 2012 Eskisehir, Turkey.
26. *Farhoudi M*, Mehrvar K, Taheraghdam A, Hashemilar M, Sadeghi-Hokmabadi E, Ataloo A, Benbir G, Ince B. Cardiac Risk Factors in Ischemic Stroke Patients in Turkey And Iran. **6th Turkish National Cerebrovascular Congress**, May 2012 Eskisehir, Turkey.
27. MNF Ghalichi, *M Farhoudi*. Computational simulation of Hemodynamics in the Circle of Willis; validation by in vivo observation in an anatomically accurate cerebral arteries model, **6th national & first international Iranian stroke congress**, Nov 2013, Tabriz, Iran.
28. *M Farhoudi*. Safety and efficacy of Intravenous tissue plasminogen activator (tPA) in Ischemic stroke patients, a single-center's 30 months experience (Tabriz Thrombolytic Therapy in Acute Ischemic Stroke, T3AIS, report). **6th national & first international Iranian stroke congress** Nov 2013, Tabriz, Iran.
29. MNF Ghalichi, *M Farhoudi*. Computational modeling to quantifying circle of Willis hemodynamics based on in vivo observation. **6th national & first international Iranian stroke congress** Nov 2013, Tabriz, Iran.
30. E Sadeghi-Hokmabadi, *M Farhoudi*, D Savadi Oskooei, M Hashemilar, M Yazdchi Marandi, K Mehrvar, A Taheraghdam, E Shrifipoor, R Rikhtegar Ghiasi, P Yoohanaei, H Aliyar, H Aliasgharpoor, E Mebdizadeh, M Poorlran, M Mohseni. Effect of simple quality improvement interventions on the rate of Intravenous (IV) thrombolysis in stroke patients: a single center experience. **Cerebrovascular Diseases**, 2015, 39, 34. **24th European Stroke Conference, May 2015.**

31. K Mehrvar, M Aboutalebi, M Rezaei, H Kavandi, O Ebrahimi, A Aslanabadi, **M Farhoudi**. Epidemiology of Stroke, Subtypes and Risk Factors in Northwestern Iran, a Five Year Retrospective Study. **Cerebrovascular Diseases**, 2015, 39, 167. **European Stroke Conference May 2015**.
32. A Majdi, K Mehrvar, N Parnianfard, M Aboutalebi, MH Mokhtareh, S Vaferi, A Aghili, **M Farhoudi**. Hypertension as a significant risk factor for hemorrhagic stroke in northwest Iran. **Cerebrovascular Diseases**, 2015, 39, 208-208. **European Stroke Conference May 2015**.
33. M Hashemilar, **M Farhoudi**, K Mehrvar, E Sadeghi-Hokmabadi, E Sharifipour, M Daghighi, J Rashid, A Ala, P Moharramzadeh, R Hassasi, Kh Gharnoosh, M Panahali, R Asadi, S Fallah, Y Ahamdi. What Are the Most Common Contraindications for Intravenous Thrombolysis When t-PA Code is being Activated for Acute Stroke Patients in less than 3 hours?-T3AIS study. **Cerebrovascular Diseases**, 2015, 39, 35. **European Stroke Conference May 2015**.
34. **M Farhoudi**, D Savadi, E Sharifipour, K Mehrvar, E Sadeghi-Hokmabadi, M Hashemilar, R Hassasi, H Soleimani, S Ghasanfari, A Partovi, Gh Borji, M Farzi, M Hadavi, S Rasoolzadeh, S Hasaneh. Thrombolysis with Intravenous recombinant Tissue Plasminogen Activator (IV rTPA) of acute Stroke Patients: Feasibility and Safety at a tertiary referral center in Northwest of Iran. **Cerebrovascular Diseases**, 2015 39, 36. **European Stroke Conference May 2015**.
35. M Aboutalebi, A Aslanabadi, K Mehrvar, N Parnianfard, A Majdi, M Rezaei, H Ahmadi, **M Farhoudi**. Ischemic Stroke and Ejection Fraction Index; an Epidemiologic Survey from 2008 to 2013. 2015, **Cerebrovascular Diseases**, 2015, 39, 167. **European Stroke Conference May 2015**.
36. **M Farhoudi**, K Mehrvar, M Aboutalebi. Review of Stroke Epidemiology in Iran. **Cerebrovascular Diseases**, 2015, 40, 7.
37. H Mehrad, **M Farhoudi**. Investigation of protoporphyrin IX-mediated sonodynamic therapy on intermediate stage atherosclerosis using a new computerized B-mode ultrasound analyzing method. **Atherosclerosis**, 2016, 252, e192.
38. H Mehrad, **M Farhoudi**. Effect of intravenous administration of albumin-coated microbubbles on hemodynamic parameters in the stenotic region of carotid artery using color doppler ultrasonography. **International Journal of Stroke**, 2016, 11 (SUPP 3), 105-105. **10th World Stroke Congress, Hyderabad, October 2016**.
39. M Mehrpour, B Zamani, M Harirchian, R Gheini, A Ghorbani, F Amiri, **M Farhoudi**. Iranian national stroke program; 724 hospital design. **International Journal of Stroke**, 2016, 11 (SUPP 3), 265. **10th World Stroke Congress, Hyderabad, October 2016**.
40. **M Farhoudi**, B Zamani, M Mehrpour, M Harirchian, F Amiri, A Ghorbani, M Gheini, D Savadi Oskoui, A Taheraghdam, E Sadeghi-Hokmabad, K Mehrvar, E Sharifipour, M Hasemilar, R Rikhtegar, R Mohammadian, K Ghandhari, B Mansouri, A Borhanhaghghi, M

Yazdchi, F Khorvash, M Ahrabi, M Saadatnia, M Khazaei, E Mehdizadehfar, S Hasanetamar, R Asadi. Situation of stroke thrombolytic therapy in Iran. **International Journal of Stroke**, 2016, 11 (SUPP 3), 84. **10th World Stroke Congress, Hyderabad, October 2016.**

41. K Mehrvar, M Abutalebi, E Sadeghi-Hokmabad, RR Ghiasi, **M Farhoudi**. Stroke mortality rate in north-west of iran (2008-2013). **International Journal of Stroke**, 2016, 11 (SUPP 3), 215. **10th World Stroke Congress, Hyderabad, October 2016.**
42. H Mehrad, **M Farhoudi**. Ultrasound-guided low level focused ultrasound sonodynamic therapy of intimal hyperplasia in the rabbit carotid artery accompanied by intravenous protoporphyrin-ix administration. **International Journal of Stroke**, 2016, 11 (SUPP 3), 252. **10th World Stroke Congress, Hyderabad, October 2016.**
43. Mehrad H, Eteghad SS, **Farhoudi M**, Mahmoudi J. Confocal dual-beam histotripsy for carotid artery atherothrombosis accompanied by plga- based encapsulated tpa nanoparticles administration. **Atheroscler Suppl**. 2018;32:142. **European Atherosclerosis Society Congress, Lisbon, May 2018.**
44. Mehrad H, **Farhoudi M**, Arshadi A, Sarabi S. Effect of intravenous plga-based encapsulated tpa nanoparticles administration on ultrasound-guided extracorporeal confocal dual-pulse electrohydraulic shock wave-mediated intracranial thrombolysis. **International Journal of Stroke**. 2018;13:150. **European Atherosclerosis Society Congress, Lisbon, May 2018.**
45. Mehrad H, **Farhoudi M**, Masoumi F, Zeinalizad L. Effect of 5-aminolevulinic acid-loaded microbubbles administration on ultrasound-guided shock wave- mediated sonodynamic therapy in the rabbit carotid artery model of atherosclerosis. **International Journal of Stroke**. 2018;13:151. **European Atherosclerosis Society Congress, Lisbon, May 2018.**
46. Mehrad H, **Farhoudi M**, Pishzari Z, Kazemi L. Pulsed-high intensity focused ultrasound therapy of rabbit middle cerebral artery thromboembolism accompanied by anticoagulant nanoparticles administration. **Atheroscler Suppl**. 2018;32:140. **European Atherosclerosis Society Congress, Lisbon, May 2018.**
47. Mehrad H, **Farhoudi M**, Zeinalizad L, Masoumi F, Golestani SPA, Najafzadeh A. Effect of intravenous hdl- loaded microbubbles administration on ultrasound- guided pulsed- high intensity focused ultrasound- mediated histotripsy of carotid artery advanced atherosclerotic plaque. **Atherosclerosis**. 2018;275:E246-E. **European Atherosclerosis Society Congress, Lisbon, May 2018.**
48. Mehrad H, **Farhoudi M**, Zeinalizad L, Masoumi F, Kazemi L. Effect of intravenous microbubbles administration on tpa-loaded plga microspheres- mediated extracorporeal shock wave intracranial thrombolysis. **Atherosclerosis**. 2018;275:E245-E6. **European Atherosclerosis Society Congress, Lisbon, May 2018.**

49. Mehrad H, *Farhoudi M*, Zeinalizad L, Rendi AA. Development of an experimental rabbit abdominal aorta model of fibroatheromatic plaque with morphological similarities to the human disease. **Atheroscler Suppl.** 2018; 32:97-8. **European Atherosclerosis Society Congress, Lisbon, May 2018.**
50. Mehrad H, Foletti A, Daghighi MH, *Farhoudi M*. Encapsulated methotrexate nanoparticles administration enhances 5-aminolevulinic acid-mediated photodynamic therapy of neointimal hyperplasia. **Atheroscler Suppl.** 2018; 32:151. **European Atherosclerosis Society Congress, Lisbon, May 2018.**
51. Mehrad H, Safari M, *Farhoudi M*. Pulsed-high intensity focused ultrasound thrombolytic therapy of carotid artery atherothrombosis. **International Journal of Stroke.** 2018; 13:231-2. **11th World Stroke Congress, Montreal, Canada, October 2018.**
52. Mehrad H, Safari M, Golestani SPA, Najafzadeh A, *Farhoudi M*. Evaluation of shock wave therapy effect on endothelial function using a new computerized b- mode ultrasound image processing software. **International Journal of Stroke.** 2018; 13:225. **11th World Stroke Congress, Montreal, Canada, October 2018.**
53. Mehrad H, Safari M, Golestani SPA, Najafzadeh A, *Farhoudi M*. Development of an experimental carotid artery model of fibroatheromatic plaque with neovascularization and severe stenosis. **International Journal of Stroke.** 2018;13:230. . **11th World Stroke Congress, Montreal, Canada, October 2018.**
54. Mehrad H, Zeinalizad L, Arshadi A, Sarabi S, Jabbar dokht M, Rahimkhani A, et al. Radiofrequency thermal balloon angioplasty accompanied by high-dose atorvastatin administration reduce neointimal hyperplasia. **Eur Heart J.** 2018; 39:1142. **ESC Congress Munich, August 2018.**
55. Mehrad H, Zeinalizad L, Arshadi A, Sarabi S, Keshavarz A, Bolourian MR, et al. Low- level confocal dual-pulse electrohydraulic shock wave therapy accompanied by tissue plasminogen activator and microbubbles administration for intracranial arterial recanalization. **Eur Heart J.** 2018;39:1048. **ESC Congress Munich, August 2018.**
56. Mehrad H, Zeinalizad L, Sagati MH, Arshadi A, Sarabi S, Pishzari Z, et al. Cardiac shockwave therapy for angiogenesis in the hypercholesterolemic rabbits with ischemic myocardium. **Eur Heart J.** 2018; 39:134. **ESC Congress Munich, August 2018.**
57. Maryam Yousefian, Ali Amani, Hadi Seyedarabi, *Mehdi Farhoudi*. A comparison study of automated approaches for brain lesions segmentation in ischemic stroke. **28th Iranian Conference on Electrical Engineering (ICEE), 2020.**

Others:

1. *Farhoudi M*, Khandaghi R. Clinical applications of EEG. **First Iranian Electroneurophysiology Congress**, Tehran, IRAN, 2001.
2. *Farhoudi M*. **Electronystagmography and its Clinical Applications**, Second Iranian Electroneurophysiology Congress, Tabriz, IRAN, 2002.
3. *Farhoudi M*. Lumbar Canal Stenosis. **National Mechanical Low Back Pain Congress**, Tabriz, IRAN, 2002.
4. *Farhoudi M*. Diagnostic criteria of Multiple Sclerosis. **First Local symposium of MS**. Tabriz, IRAN, 2005; 8-9 December.
5. Talebi M, Khandaghi R, *Farhoudi M*, Savadi Oskuie D, Serum magnesium level in migraine, **14th International congress of Neurology and Clinical Electrophysiology**, May 2007; Tehran, Iran.
6. *Farhoudi M*. Celiac Disease & Multiple Sclerosis. **Third Multiple Sclerosis Congress**, Isfahan, IRAN, 2005.
7. *Farhoudi M*, Monoclonal antibodies in the treatment of multiple sclerosis. **Second local Symposium of MS**. June 2008; Tabriz, Iran.
8. *Farhoudi M*, Ayromlou H, Bakhtshadi F. Seasonal Occurrence of Guillain-Barre syndrome in East-North of Iran. **International congress of Neurology and Clinical Electrophysiology**, May 2008; Tehran, Iran.
9. Talebi M, Savadi D, *Farhoudi M*, Mohammadzadeh S, Hasani A. Assessment of correlation of magnesium of serum in migraine attacks. **18th Iranian Neurology and Clinical Electrophysiology Congress**, June 2011; Tehran, Iran.
10. Taheraghdam A, Pashapour A, Yazdchi M, *Farhoudi M*, Sadeghi E, Mostafaei S, Sharifipour E. Amyotrophic lateral sclerosis or Kennedy disease: A case report of a patient with years of misdiagnosis. **18th Iranian Neurology and Clinical Electrophysiology Congress**, June 2011; Tehran, Iran.
11. *Farhoudi M*, Hajebrahimi S, Savadi Oskouei D, Sadeghi H, Ghojazadeh M, Erfani S, Abbaspour R. Evidence based medicine suggested as start point for medical specialty degree curriculums. **International Congress on good medical research**, March 2011; Istanbul, Turkey.
12. Maryam Yousefian, Ali Amani, Hadi Seyedarabi, *Mehdi Farhoudi*. Disparity improvement of brain tissues after MRI segmentation in tDCS rehabilitation. **28th Iranian Conference on Electrical Engineering (ICEE)**, 2020.

13. Vosoughi A, Sadigh-Eteghad S, Ghorbani M, Shahmorad S, Farhoudi M, Rafi MA, et al. Mathematical Models to Shed Light on Amyloid-Beta and Tau Protein Dependent Pathologies in Alzheimer's Disease. **Neuroscience**. 2020;424:45-57.

Publications:

A- Cerebrovascular related:

1. ***Farhoudi M***, Ayromlou H, Farahani M. Transcranial Doppler sonography and brain stem auditory evoked potentials study in 42 patients with vertebrobasilar insufficiency. **Iranian Journal of Neurology** 2003; 3(7): 37-43.
2. ***Farhoudi M***, Afrasiabi A, Tarzamni MK, Khoshnam M, Arami MA. Transcranial and carotid Doppler study in coronary artery bypass graft patients. **Neurosciences** 2004; 9(3): 186-189.
3. Ayromlou H, ***Farhoudi M***, Khaneneh S, Maboodi M. The evaluation of cardiac carotid baroreflex response and sympathetic skin response test in idiopathic Parkinson disease. **Medical Journal of Tabriz University** 2004; 38(64):16-23.
4. ***Farhoudi M***, Nikanfar M, Safayian A. Repeatability of Transcranial Doppler results in measurement of major cerebral arteries velocities. **Urmia Medical Journal**, 2005; 15(4): 268-272.
5. Njafi H, Khameneh S, ***Farhoudi M***. Comparing cerebral blood flow auto regulation in young males and females. **Behbood** 2005; 19(2): 10-17.
6. Nikanfar M, ***Farhoudi M***, Tarzamni MK, Mansoorizadeh R. Contralateral external carotid artery as collateral to Internal carotid artery in a patient with common carotid artery occlusion. **The Internet Journal of Neurology TM 1531-295X** 2005; 5(1).
7. Khamnei S, ***Farhoudi M***, Najafi H, Abedinzadeh M. Cerebral blood flow velocity during a short period of carotid baroreflex stimulation in the young and middle-aged humans. **The Internet Journal of Neurology TM 1531-295X** 2005; 3(2).
8. ***Farhoudi M***, Tarzamni MK, Ghannadi Imami K. Correlation between Transcranial Doppler (TCD) and Carotid Duplex Results. **Ardabil Medical Journal** 2006; 6(2): 163-169.
9. Khamnei S, Ghandchilar N, Najafi H, ***Farhoudi M***. The Effect of Postvagal Tachycardia on Cerebral Blood Flow in Young and Middle-Aged Persons. **Journal of Ardabil University of Medical Sciences & Health Services** 2006; 6(1):24-30.
10. ***Farhoudi M***, Parvizi R, Bilajani I, Tarzamni MK, Mehrvar K, Safaiyan A. Preoperative transcranial and carotid Doppler study in coronary artery bypass graft patients. **Neurosciences** 2007; 12(1): 42-45.

11. Tarzamni MK, Afrasiabi A, **Farhoudi M**, Karimi F, Farhang S. Low prevalence of significant carotid artery disease in Iranian patients undergoing elective coronary artery bypass. **Cardiovascular Ultrasound online Journal** 2007; 5(3).
12. **Mehdi Farhoudi**, Mohammad Asghari, Mashhood Agajaloo, Ali Zeinali, Effects of nimodipine on cerebral hemodynamic and prognosis of diffuse axonal injury patients, **Neuroscience**, 2007; 12(4): 285-288.
13. Monshi Karimi A.R, Mohtadinia J, **Farhoudi M**. Serum homocysteine, vitamin B12 and folate levels in patients with Ischemic cerebrovasculare disease. **Yafte** 2007; 9(3 (33)):29-34.
14. **Mehdi Farhoudi**, Ali Zeinali, Mashhood Aghajanlou, Mohammad Asghari. Cerebral vasospasm in diffuse axonal injury patients. **Acta Neurochir Suppl**, 2008; 104: 433-435.
15. Ghaffar Shokouhi, **Mehdi Farhoudi**, Aimaz Afrough, Amir Hamdi. Prediction of Spontaneous Intracerebral Hemorrhages outcomes. **Research Journal of Biological Sciences**, 2009; 4(1): 7-10.
16. **Farhoudi M***, Mehrvar K, Tarzamni M.K, Bilehjani I, Safaeian A.R, Parvizi R. Correlation of cognitive complications with Doppler findings in selected coronary artery bypass graft patients. **Iranian Journal of Neurology** 2009; 8(25):419-426.
17. Sanaat Z, Tayebi Khosroshahi H, **Farhoudi M**, Kiani S.J, Tayebi Khosroshahi M. Determination of Warfarin dose requirement in thrombotic and embolic disorders in Iran. **International Journal of Hematology-Oncology and stem cell research (IJHOSCR)** 2009; 3(4 (Supple 1)):23-23.
18. **Farhoudi M**, Kermani SN, Sadeghi-Bazargani H. Relatively higher norms of blood flow velocity of major intracranial arteries in North-West Iran. **BMC Res Notes**. 2010 22;3(1):174.
19. **Mehdi Farhoudi**, Kaveh Mehrvar, Abbas Afrasiabi, Rezayat Parvizi, Ahmad Ali Khalili, Babak Nasiri, Khosrow Hashemzadeh, Kamyar Ghabili. Neurocognitive impairment after off-pump and on-pump coronary artery bypass graft surgery – an Iranian experience. **Neuropsychiatric Disease and Treatment**. 2010;6 775–778.
20. **Mehdi Farhoudi**, Kaveh Mehrvar, Naser Aslanabadi, Kamyar Ghabili, Nazila Rasi Baghmishe, Farzad Ilkhchoei. Doppler study of cerebral arteries in hypercholesterolemia. **Vascular Health and Risk Management**. 2011;7 203–207.
21. Hamid Tayyebikhosroshahi, Zohreh Sanaat, **Mehdi Farhoudi**, Seyyedjavad Keyani, Farhad Khoshjoo, Majid Tayyebikhosroshahi. Warfarin maintenance dose in Iranian patients, A cross sectional study in 5 cities of Iran. **Neurosciences** 2011; 16(2):125-128.

22. R. Mohammadian, A. Najaran, B. Sohrabi, R. Mansourizadeh, F. Mohammadian, B. Nasiri, **Mehdi Farhodi**. Vertebral Artery Orifice Stenosis: a Report of 43 Cases from Northwest Iran Treated with Angioplasty and Stenting. **NRJ DIGITAL** 2011; 1(17): 807-815.
23. Monshi Karimi Alireza, Mohtadi Niya Javad, **Farhoodi Mahdi**, Arefe Hosseini Sayed Rafi. Relationship between smoking status, vitamin B12 and folic acid, with homocysteine in patients with ischemic stroke. **Medical Journal of Tabriz University of Medical Sciences** 2011; 33(2):81-86.
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Books:

- 1- **Experimental Models of Stroke**. Editors: **Mehdi Farhoudi**, Hamdolah Panahpour, Javad Mahmoudi, Babak Sabermarouf, Saeed Sadigh-Eteghad, Kavehe Mehrvar. Publisher: Tabriz University of Medical Sciences, 2013.

- 2- *Cell Therapy in Neurodegenerative Diseases*. Editors: Mahnaz Talebi, **Mehdi Farhoudi**, Saeed Sadigh-Eteghad, Javad Mahmoudi. Azam Publishing Co. 2013.
 - 3- *Hypotheses in Clinical Medicine*. Editors: Mohammadali M. Shoja, Paul S. Agutter, R. Shane Tubbs, Mostafa Ghanei, Kamyar Ghabili, Alon Harris, Marios Loukas. Chapter 14 The Potential Evolutionary Significance of the Pineal Gland. Authors / Editors: (Paul S. Agutter, R. Shane Tubbs, Marios Loukas, **Mehdi Farhoudi**, Alireza Ghaffari, Martin M. Mortazavi, Kamyar Ghabili, Mohammadali M. Shoja). Nova Science Publishers. Copyright 2012.
 - 4- *Experimental Models of Parkinson's Disease*. Nayebi AM, **Farhoudi M**, Mahmoudi J, Reyhani-Rad S. Azam Publishing Co. 2012.
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- 5- *An introduction to Alzheimer's disease*. Editors: Safa Najmi, Saeed Sadigh-Eteghad, **Mehdi Farhoudi**, Publisher: Shervin medicine publishing.

Thesis Supervision:

A-Cerebrovascular related:

1. Transcranial Doppler study of patients with central vertigo. 2002, by Ali Eskandarzadeh **(For MD degree)**.
2. Transcranial Doppler sonography and brain stem auditory evoked potentials study in vertebrobasilar insufficient patients, 2002, by Mojgan Farahani MD **(For specialty in Neurology)**.
3. Assessment of cardiac response to stimulation of carotid baroreceptors in patients with multiple sclerosis, 2002, by Farzaneh Etebari **(For MD degree)**.
4. Assessment of cardiac response of carotid baroreflex in diabetic patients, 2002, by Mehrnaz Hosseingolifam **(For MD degree)**.
5. Assessment of cardiac response to carotid baroreceptors stimulation in patients with idiopathic Parkinson, 2002, by Behnam Nasirimotlagh **(For MD degree)**.
6. Assessment of transcranial Doppler results in patients referring to neurodiagnostic ward of imam medical center, 2002, by Haleh Mostafidi **(For MD degree)**.
7. Assessment of cerebral hemodynamic in dialyzed uremic patients, 2003, by Ramazan Abdi **(For MD degree)**.
8. Correlation of transcranial Doppler and carotid duplex results, 2003, by Khandan Ghannadiemami, **(For MD degree)**.

9. A transcranial Doppler study on atherosclerotic changes in intracranial arteries, 2003, by Mohsen Khoshnam, MD **(For specialty in Neurology)**.
10. Evaluation of cardiac receptor stimulation and skin sympathetic response test in patients with Parkinson disease, 2003, by Mehrdad Maboudi, MD **(For specialty in Neurology)**.
11. Assessment of cerebral hemodynamic in hypercholesterolemia, 2003, by Nazila Rasi **(For MD degree)**.
12. The effect of senility on autoregulation of brain blood flow in man, 2004, by Hoshang Najafi **(For MS degree)**.
13. A study on effects of nimodipine in cerebral hemodynamic changes in brain axonal injury patients, 2004, by Mashhood Aghajanloo, MD **(For specialty in Neurosurgery)**.
14. Study on normal values of major intracranial arteries by transcranial Doppler, 2006, by Nahid Kermani **(For MD degree)**.
15. Correlation of oral contraceptive consumption with brain stroke occurrence, 2006, by Mitra Ahmadi **(For MD degree)**.
16. A study about neurologic complications of coronary artery bypass surgery and correlation of them with cerebrovascular hemodynamic state, 2006, by Kaveh Mehrvar, MD **(For specialty in Neurology)**.
17. Study on transcranial Doppler role in prognosis of ischemic stroke, 2008, by Yaser Sharafi, MD **(For specialty in Neurology)**.
18. Epidemiology of stroke and comparison of risk factors role in ischemic and hemorrhagic stroke in Tabriz, 2009, by Amir Hossein Ladan **(For MD degree)**.
19. Velocity comparison obtained from Doppler ultrasound velocitometry through internal carotid artery and numerical simulation of blood flow in this artery, 2010, by Hassani Ardekani **(For MSc degree in mechanical engineering)**.
20. Microembolic signal frequency in patients with acute ischemic stroke and MCA syndromes treated with Aspirin vs. clopidogrel, 2011, by Samaneh Hosseini, MD **(For specialty in Neurology)**.
21. Evaluation of prognostic role of transcranial Doppler findings in long term follow up of patients with Ischemic stroke, 2011, by Keyvan Ramin **(For MD degree)**.
22. Evaluation of transcranial Doppler parameters in acute intracerebral hemorrhage during the first and fifth days, 2011, by Mehdi Dehghani, MD **(For specialty in Neurology)**.

23. 23-The effect of vertebral – basilar confluence angle on blood flow parameters and comparison with transcranial Doppler test, 2012, by Mohsen Ghasemi **(For MSc degree in mechanical engineering)**.
24. Effect of setarud (IMOD) on the clinical outcome of acute ischemic stroke, 2012, by Mahdi Najafi Nesheli MD **(For specialty in Neurology)**.
25. Early and intermediate prognosis of intravenous thrombolytic therapy in acute ischemic stroke subtypes, 2012, By Abolfazl Atalu MD **(For specialty in Neurology)**.
26. Associatuion on Non – Alcoholic fatty liver disease as a risk factor of ischemic stroke, 2014, by Hanieh Moshayedi, MD **(For specialty in Neurology)**.
27. Study of prognosis of cerebral vascular attack on arrival at the emergency department patients regarding GCS and Four Score, 2015, by Mohsen Salehi, MD **(For specialty in Emergency Medicine)**.
28. Polymeric Nano-particles encapsulating tissue Plasminogen Activator (tPA) for treatment of ischemic stroke, 2016, by Masumeh Zamanlu **(For PhD by Research degree in Neurosciences)**.
29. Implementation and Assessment of Stroke registry in Tabriz and primary analysis of some of registered data, 2016, by Reza Deljavan **(For PhD by Research degree in Neurosciences)**.
30. Aspirin resistance in patients with cerebrovascular disease during therapeutic course and its effects on prognosis, 2016, by Sahar Fallah **(For specialty in Neurology)**.

B- Others:

- 1- Timic frequency in Guillain Barre Syndrome, 2005, by Farrokh Bakhtshadi **(For MD degree)**.
- 2- Study on serum homocysteine level in Alzheimer patients and its relationship with the stage of disease, 2006, by Farshid Shahriari **(For MD degree)**.
- 3- Study on serum homocysteine level in Parkinson patients and its relationship with the stage of disease, 2006, Farzad Arjanghnia **(For MD degree)**.
- 4- Study on serum iron and ferritin level in idiopathic Parkinson, 2008, by Gonar Abbasi Farid **(For MD degree)**.
- 5- Study of magnesium serum level in Alzheimer patients, 2009, by Mohammad Mousavi **(For specialty in Neurology)**.
- 6- Quantitative analysis of serum levels and gene expression of interlukin-17 (A&F) in patients with Multiple Sclerosis, 2010, by Farhad Babai **(For MSc degree in medical immunology)**.

- 7- Multiple sclerosis(For pharmaciticial doctor degree)
- 8- Association study of inflammation pathway genes (CCR2 and CCR5) variations with risk of sporadic Alzheimer's disease in the population of eastern Azerbaijan, 2011, by Maryam Rezazadeh **(For MSc degree in human genetics)**.
- 9- Association study of inflammation pathway genes (TNF α) variations with risk of sporadic Alzheimer's disease in the population of eastern Azerbaijan, 2011, by Tarlan Yeganeh **(For MSc degree in Clinical Biochemistry)**.
- 10- Evaluation of retinal nerve fiber layer in glaucoma and Alzheimer's disease, 2011, by Taha Ahmadaali **(For specialty in Ophthalmology)**.
- 11- Frequency on major CYP46A1 alleles in northwestern Iranian population (Tabriz – Azerbaijan), 2011, by Rashed Mirnour **(For MD degree)**.
- 12- The effect of loganin on spatial memory and passive voidance learning in diabetic male rats, 2011, by Saeedeh Hassani Azami **(For MSc degree in physiology)**.
- 13- The situation analysis of education and research in general practice course based on basic minimum competencies, statement in Iran – intern's vies, 2012, by Hooman Yazdchi **(For MD degree)**.
- 14- Cost of illness analysis in the MS patients in Tabriz (2006 – 2011), 2013, by Parviz Gobari **(For Pharm.D degree)**.
- 15- Association of interleukin – 13 Gene polymorphisms with multiple sclerosis, 2014, by Narges Seyfizadeh **(For MSc degree in Medical Immunology)**.
- 16- Color Doppler imaging evaluation of blood flow parameters in ophthalmic artery, posterior cillary arteries and diameters of optic nerve in chronic optic neuritis in multiple sclerosis and compare with normal control group, 2015, by Hassan Amini **(For MD degree)**.
- 17- Common mitochondrial gene variations in multiple sclerosis patients, 2015, by Sasan Andalib **(For PhD by Research degree in Neurosciences)**.

Interests: Cerebrovascular Disease & Doppler Studies.

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