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General Information

Date of birth: Jul, 25, 1972

Place of Birth: Iran

Marital Status: married with two
doughter

Language: English

LANGUAGES

English

Persian

FIELDS OF INTEREST

*Interventional Cardiology

*Genetic aspects of
Cardiovascular Medicine

ACADEMIC APPOINTMENT

professor of Interventional cardiology, Rajaie Cardiovascular Medical and research Institute. (2021-present)

Associate professor of Interventional cardiology, Rajaie Cardiovascular Medical and research Institute. (2015-2021)

Assistant professor of Interventional cardiology, Rajaie Cardiovascular Medical and research Institute. (2007-2015)

Endovascular training course at the Department of Angiology Park-Krankenhaus Leipzig. (2010)

Fellowship of interventional cardiology, Rajaie Cardiovascular Medical and research Institute, Tehran, Iran. (2006-2007)

General cardiology, Rajaie Cardiovascular Medical and research Institute, Tehran, Iran. (2001-2005)

Family physician (Return of Service), ShahreKord, Iran. (1999-2001)

General physician, Tehran University of Medical Sciences, Tehran, Iran, (1992-1999)

WORK EXPERIENCE

Member of the scientific board of Iranian Heart Association. (2021-present)

Past director of Catheterization Laboratory at Rajaie Cardiovascular Medical and research Institute

Training 10 fellowship of interventional cardiology per year at Rajaie Cardiovascular Medical and research Institute

Chief of Emergency Department at Rajaie Cardiovascular Medical and research Institute (2011-2013)

Member of the scientific board of Iranian Society of Interventional Cardiology (ISOIC). (2008-2011)

PROFESSIONAL HONORS & AWARDS

•Youngest interventional cardiologist in Iran at the time of graduation. (2007)

•Third position in final national medical exam of Iran (among about 5000 medical students). (1998)

REFERENCES

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Distinctive contributions in the world medical literature:

1) Coronary slow flow phenomenon clinical findings and predictors

This article which has been published in research in cardiovascular medicine journal in February 2016. Between October 2014 and March 2015, demographic data, clinical histories, atherosclerosis risk factors, and laboratory and angiographic findings were recorded for all consecutive patients scheduled for coronary angiography and diagnosed with the SCF phenomenon, as well as a control group (patients with normal epicardial coronary arteries; NECA). SCF was diagnosed based on the thrombolysis in myocardial infarction frame count (TFC). A TFC > 27 indicated a diagnosis of SCF phenomenon. The result of this work Among the 3600 patients scheduled for selective coronary angiography, 75 (2%) met the SCF criteria. SCF and NECA patients did not exhibit statistically significant differences in traditional risk factors except for hypertension, which was more prevalent in SCF than NECA patients (52% versus 31%, P = 0.008). A multivariable analysis indicated a low body mass index, presence of hypertension, low high-density lipoprotein cholesterol (HDL-c) level, and high hemoglobin level as independent predictors of the SCF phenomenon; of these, hypertension was the strongest predictor (odds ratio = 6.3, 95% confidence interval: 2.2 - 17.9, P = 0.001). It has been cited for 55 times.

2) Effect of garlic powder tablet on carotid intima-media thickness in patients with coronary artery disease: a preliminary randomized controlled trial

This article which has been published in Nutrition and health journal in April 2013. A randomized, placebo-controlled, clinical trial was conducted on 56 patients with CAD between the ages of 25 and 75 years. The patients were randomly divided into two groups: garlic group (n = 27), receiving garlic powder tablet (1200 µg allicin/tab) twice daily and the placebo group (n = 29), receiving placebo for 3 months. The rate of atherosclerosis progression was measured by B-mode ultrasonography as the increase in CIMT. The result of this work: After 3 months of taking garlic tablets, CIMT values had minor variations (0.009 ± 0.007 mm reduction from baseline), while in the placebo group, an increase in CIMT values was observed (0.04 ± 0.01



mm increase from baseline). After 3 months of treatment, mean CIMT difference from baseline was significantly differ between the two groups ($p < 0.001$). Plasma lipids and lipoproteins (total cholesterol, triglycerides, low-density lipoprotein cholesterol, high-density lipoprotein cholesterol, Apolipoprotein A1 and Apolipoprotein B) did not differ between the two groups. It has been cited for 52 times.

3) Efficacy of pentoxifylline in prevention of contrast-induced nephropathy in angioplasty patients

This article which has been published in international urology and nephrology in August 2012. Contrast-induced nephropathy (CIN) is an adverse consequence of contrast media use that results in significant morbidity and mortality and adds significant costs to diagnostic and interventional cardiology procedures. Various pathophysiological mechanisms have been proposed for CIN and various agents have been tested for its prevention. There is currently a general agreement that adequate preprocedure hydration constitutes the cornerstone of prevention, yet there are reports of the use of some other agents with various efficacies. We prospectively tested pentoxifylline (PTX), an antioxidant, anti-inflammatory drug, for CIN prevention in patients undergoing coronary angioplasty. The result of this work: CIN is a major problem after procedures using iodinated contrast media. Hydration and avoiding hypovolemia are the basis of CIN prevention. Some other agents have been tested, with variable efficacy. The results of our study suggest that administration of oral PTX to patients with low-to-moderate risk of CIN undergoing coronary angioplasty may reduce the occurrence of CIN, but this reduction is not significant. Performing larger trials in higher-risk patients may reveal that PTX is more protective than we concluded. It has been cited for 44 times.



Articles: (Descending order)

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- 2- Significance of microRNA-targeted ErbB signaling pathway genes in cardiomyocyte differentiation, Akram Gholipour, Ali Zahedmehr, **Farshad Shakerian**, Shiva Irani, Maziar Oveisee, Seyed Javad Mowla, Mahshid Malakootian. Molecular and cellular probes, 2023.
- 3- Tenascin-C as a noninvasive biomarker of coronary artery disease, Akram Gholipour, **Farshad Shakerian**, Ali Zahedmehr, Maziar Oveisee, Majid Maleki, Seyed Javad Mowla, Mahshid Malakootian, Molecular Biology Reports, 2022.
- 4- Cardiac Reverse Remodeling After Transcatheter Patent Ductus Arteriosus Closure in Adults, Zahra Khajali, Ata Firouzi, **Farshad Shakerian**, Mohammad Javad Alemzadeh-Ansari, Ebrahim Ghobadi, Ehsan Khalilipur, Yasaman Khalili, Ladan Rezaei, Zahra Hosseini. Current Problems in Cardiology, 2022.
- 5- Myocardial demand-supply imbalance: a propensity-matched analysis of normal-range increased left ventricular mass, **Farshad Shakerian**, Ali Rafati, Hamidreza Pouraliakbar, Yeganeh Pasebani, Ali Sarreshtehdari. <https://doi.org/10.21203/rs.3.rs-2056101/v1>, 2022.
- 6- Bioinformatics Analysis to Find Novel Biomarkers for Coronary Heart Disease, Akram Gholipour, **Farshad Shakerian**, Ali Zahedmehr, Shiva Irani, Mahshid Malakootian, Seyed Javad Mowla. Iranian Journal of Public Health, 2022.
- 7- Downregulation of Talin-1 is associated with the increased expression of miR-182-5p and miR-9-5p in coronary artery disease, Akram Gholipour, **Farshad Shakerian**, Ali Zahedmehr, Shiva Irani, Seyed Javad Mowla, Mahshid Malakootian, Journal of clinical laboratory analysis. 2022
- 8- The importance of cardiac differentiation of human embryonic stem cells in identifying biomarkers associated with heart disease, Akram Gholipour, **Farshad Shakerian**, Ali



- Zahedmehr, Shiva Irani, Mahshid Malakootian, Seyed Javad Mowla, Razi Journal of Medical Sciences, 2022.
- 9- Impact of Drug-Eluting Stent Expansion on Saphenous Vein Graft Percutaneous Intervention, Mohammad Javad Alamzadeh-Ansari, Ata Firouzi, Mousa Alimohammadi, Ehsan Khalilipur, Feridoun Noohi, Majid Maleki, Mohammad Mehdi Peighambari, Bahram Mohebbi, Ali Zadehmehr, Alireza Rashidinejad, ***Farshad Shakerian***, Reza Kiani, Hooman Bakhshandeh, Iranian Heart Journal, 2022.
- 10- Minerva Cardiology and Angiology, A BANIFATEMEH Seyed, Parham SADEGHIPOUR, Mohammad J ALEMZADEH-ANSARI, A FAKHRABADI Amir, Fereshte ZOLFAGHARI, Ali ZAHEDMEHR, Bahram MOHEBBI, Reza KIANI, ***Farshad Shakerian***, Ali RASHIDINEJAD, Zahra HOSSEINI, Ata FIROUZI, Minerva, 2021.
- 11- Rajaie Cardiovascular Medical and Research Tertiary Heart Center Left Main Percutaneous Intervention Registry: RHC-LM Registry, Zahra Hosseini, Khatereh Dehghani, Ali Sarreshtedari, Ehsan Khalilipur, Bahram Mohebbi, Mohammad Javad Alemzadeh-Ansari, Mehran Karimzadeh Jouzdani, Parvin Mangolian Shahrabaki, Ata Firouzi, Seifollah Abdi, Mohsen Maadani, Ali Zahed Mehr, Reza Kiani, ***Farshad Shakerian***, Alireza Rashidinejad, Journal of Cardiology & Cardiac Surgery, 2021.
- 12- Outcomes of Oversized Coronary Stenting in Patients Undergoing Elective Percutaneous Coronary Intervention, Mohammad Javad Alemzadeh-Ansari, Majid Kyavar, Somayeh Khalesi, Saeid Dalouchi, Feridoun Noohi, Majid Maleki, Mohammad Mehdi Peighambari, Ata Firouzi, Bahram Mohebbi, Ali Zadehmehr, Alireza Rashidinejad, ***Farshad Shakerian***, Reza Kiani, Yasaman Khalili, Iranian Heart Journal, 2021
- 13- Diagnostic accuracy of two-dimensional coronary angiographic-derived fractional flow reserve—Preliminary results, Hamid Babakhani, Parham Sadeghipour, Ahmad Tashakori Beheshti, Massoud Ghasemi, Jamal Moosavi, Mohamad Sadeghian, Mahmood Salesi, Ali Zahedmehr, Omid Shafe, ***Farshad Shakerian***, Bahram Mohebbi, Mohammad Javad Alemzadeh-Ansari, Ata Firouzi, Babak Geraiely, Seifollah Abdi, Catheterization and Cardiovascular Interventions, 2021.
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- 15- Role of stent oversizing in patients undergoing primary percutaneous coronary intervention. An open-labeled randomized controlled trial, Seyed A Banifatemeh, Parham Sadeghipour, Mohammad J Alemzadeh-Ansari, Amir A Fakhrabadi, Fereshte Zolfaghari, Ali Zahedmehr, Bahram Mohebbi, Reza Kiani, **Farshad Shakerian**, Ali Rashidinejad, Zahra Hosseini, Ata Firouzi, Minerva Cardiology and Angiology, 2020.
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- 20- In Silico Analysis on mRNA, lncRNA, and miRNA Expression Profiles in Ischemic Cardiomyopathy Left Ventricular Tissues and Differentiated Cardiomyocytes, Akram Gholipour, Ali Sharifi-Zarchi, **Farshad Shakerian**, Ali Zahedmehr, Mehrdad Oveisi, Maedeh Arabian, Majid Maleki, Elham Taheri Bajgan, Seyed Javad Mowla, Mahshid Malakootian, World Heart Journal, 2019
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- 23- Comparisons of myocardial deformation between cases with normal coronary arteries and patients with coronary slow flow, Azin Alizadehasl, Mohsen Jamshir, Hamid Reza Sanati, Anita Sadeghpour, Reza Aminnejad, Ali Zahed Mehr, Reza Kiani, **Farshad Shakerian**, Saeid Safari, Ata Firouzi, Nakisa Khansari, Mohsen Nasiri, Iranian Heart Journal, 2019.
- 24- Coronary sinus filling time as a marker of microvascular dysfunction in patients with angina and normal coronaries. **Farshad Shakerian**, Nasrin Panahifar, Research in Cardiovascular Medicine, 2019.
- 25- Heparin Initiation Before and After Femoral Arterial Access in Primary Percutaneous Coronary Intervention: Side Effects and Angiographic Success Rates, Ali Zahed Mehr, Hamid Reza Sanati, **Farshad Shakerian**, Ata Firouzi, Reza Kiani, Mohammad Ali Zameni, Iranian Heart Journal, 2018.
- 26- Effect of preinfarction angina on primary percutaneous coronary intervention outcomes, Hamid Reza Sanati, Samaneh Ahmadi, Melody Farrashi, Parham Sadeghipour, Ata Firouzi, Ali Zahedmehr, **Farshad Shakerian**, Reza Kiani, Omid Shafe, Seyed Jamal Moosavi, Hooman Bakhshande, Alireza Hoghooghi, Farhad Jalili, Research in Cardiovascular Medicine, 2018.



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- 28- Comparison between rosuvastatin and atorvastatin for the prevention of contrast-induced nephropathy in patients with STEMI undergoing primary percutaneous coronary intervention, Ata Firouzi, Ali Kazem Moussavi, Ahmad Mohebbi, Mohammad Javad Alemzadeh-Ansari, Reza Kiani, Hamid Reza Sanati, Bahram Mohebbi, ***Farshad Shakerian***, Ali Zahedmehr, Mohammad Mostafa Ansari-Ramandi, Saeed Oni Heris, Bahar Ghaleshi, Fatemeh Ghorbani, Journal of Cardiovascular and Thoracic Research, 2018.
- 29- Comparison of enoxaparin versus heparin among patients undergoing elective coronary angiography via radial artery access, Reza Kiani, Mohammad Javad Alemzadeh-Ansari, Vahid Fegghi, Ata Firouzi, Hamid Reza Sanati, Ali Zahedmehr, ***Farshad Shakerian***, Ahmad Shakeri, Reza Beheshti Namdar, Mohammad Reza Baay, Amir Mikailvand, Sayyed Shahrokh Taghavi, Research in Cardiovascular Medicine, 2018.
- 30- Periarterial injections of nitroglycerin facilitate radial artery cannulation, Reza Kiani, Mohammad Javad Alemzadeh-Ansari, Hamid Reza Sanati, Reza Hashemi, Ata Firouzi, ***Farshad Shakerian***, Ali Zahedmehr, Mohammad Mehdi Peighambari, Safar Ali Abdolrahimi, Iranian Heart Journal, 2017.
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- 32- Elevated Serum Level of Cardiac Troponin After Coronary Intervention and Its Association With the Clinical Outcome of Patients, ***Farshad Shakerian***, Hamid-Reza Sanati, Elham Sam-Nazari, Ata Firouzi, Ali Zahedmehr, Reza Kiani, Mahdyie Doaee, Akbar Nikpajouh, Iranian Heart Journal, 2017.
- 33- Comparison of the prevalence of postprocedural myocardial infarction between diabetic and nondiabetic patients in a non-emergent setting, ***Farshad Shakerian***, Momohammad ALI Sadr-Ameli Sadr-Ameli, Maryam Alsadat Mousavi, Hamid-Reza Sanati, Ata Firouzi, Ali Zahedmehr, Reza Kiani, Mahdyie Doaee, Akbar Nikpajouh, Iranian Heart Journal, 2017.



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- 35- Comparison of the Coronary Vessel Diameter During and After Primary Percutaneous Intervention in Patients with Acute Myocardial Infarction, ***Farshad Shakerian***, Roya Rezai, Fatemeh Shiokhi, Ata Firouzi, Hamidreza Sanati, Ali Zahedmehr, Reza Kiani, Omid Shafe, Samaneh Ahmadi, Iranian Heart Journal, 2017.
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- 40- Ten years of experience in a tertiary center in pulmonary valvuloplasty in pediatric and adult populations, Ata Firouzi, Sakineh Ahmadzadeh, Mohammadreza Bayanati, Parham Sadeghipour, Reza Kiani, Hamid Reza Sanati, Negar Salehi, ***Farshad Shakerian***, Ali Zahedmehr, Leila Shokrian, Iranian Heart Journal, 2016.
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Professional Organization Membership

- Member of Iranian Heart Association. (IHA)
- Reviewer of Iranian international journal.
- Member of the directory board, Iranian Heart Association (IHA)
- Associate Fellowship of the American College of Cardiology Asc.FACC
- European Society of Cardiology (ESC)
- Iranian Society of Interventional Cardiology (ISOIC)

Books

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Patents:

1. Expandable multipurpose intravascular sheath (Shailin Sheath), Patented in Iran, Sep/ 2016
2. B-Y connector a new device to facilitate intervention on bifurcation lesions Patented in Iran, Oct / 2015