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General Information

Date of birth: Jul, 25, 1972

Place of Birth: Iran

Marital Status: Married with two
daughters

Language: English

LANGUAGES

English

Persian

FIELDS OF INTEREST

*Interventional Cardiology

*Genetic aspects of
Cardiovascular Medicine

*Nutritional 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. (2005-2007)

General cardiology, Rajaie Cardiovascular Medical and research Institute,
Tehran, Iran. (2000-2004)

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)

-Deputy of education of Catheterization Laboratory at Rajaie Cardiovascular
Medicaland research Institute

-Co-founder of Cardiovascular Genetics department at 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 in 1998).

REFERENCES

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Distinctive contributions in the world medical literature:

1) Coronary slow flow phenomenon clinical findings and predictors

This article 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 3600 patients scheduled for selective coronary angiography, 75 (2%) of whom 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 value= 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 has been published in Nutrition and health journal in April 2013. A randomized, placebo-controlled, clinical trial which 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 (1200µg 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 Carotid Intima Media Thickness (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 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 pre-procedure 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 results 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 suggests 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.



- 1- "Associations between low serum levels of ANRIL and some common gene SNPs in Iranian patients with premature coronary artery disease" Scientific Reports, 2024, Elham Taheri Bajgan, Ali Zahedmehr, Farshad Shakerian, Majid Maleki, Hooman Bakhshandeh, Seyed Javad Mowla, Mahshid Malakootian
- 2- "Outcomes of chronic total occlusion percutaneous coronary intervention from the RAIAN (RAjaie-Iran) registry", Indian Heart Journal, 2023, Bahram Mohebbi, Parham Sadeghipour, Reza Zolfaghari, Giuseppe Vadalà, Ehsan Khalilipour, Ali Zahedmehr, Davide Diana, Mohsen Maadani, Farshad Shakerian, Reza Kiani, Zahara Hosseini, Alireza Rashidinejad, Mostafa Rouzitalab, Somayeh Khalesi, Vahid Toulabi, Vincenzo Sucato, Luca Di Fazio, Maisam Taherian, Saeed Amiripouya, Shahrzad Ashuri, Ayatollah Bayatian, Sajad Naderi, Hooman Bakhshandeh, Jamal Moosavi, Seifollah Abdi, Ata Firouzi, Mohammad Javad Alemzadeh-Ansari, Alfredo R Galassi,.
- 3- "Significance of microRNA-targeted ErbB signaling pathway genes in cardiomyocyte differentiation", Molecular and cellular probes, 2023, Akram Gholipour, Ali Zahedmehr, Farshad Shakerian, Shiva Irani, Maziar Oveisee, Seyed Javad Mowla, Mahshid Malakootian.
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- 5- "Cardiac Reverse Remodeling After Transcatheter Patent Ductus Arteriosus Closure in Adults", Current Problems in Cardiology, 2022, Zahra Khajali, Ata Firouzi, Farshad Shakerian, Mohammad Javad Alemzadeh-Ansari, Ebrahim, Ghobadi, Ehsan Khalilipour, Yasaman Khalili, Ladan Rezaei, Zahra Hosseini.
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- 8- "The importance of cardiac differentiation of human embryonic stem cells in identifying biomarkers associated with heart disease", Razi Journal of Medical Sciences, 2022 Akram Gholipour, Farshad Shakerian, Ali Zahedmehr, Shiva Irani, Mahshid Malakootian, Seyed Javad Mowla.
- 9- "Impact of Drug-Eluting Stent Expansion on Saphenous Vein Graft Percutaneous Intervention", Iranian Heart Journal, 2022, Mohammad Javad Alemzadeh-Ansari, Ata Firouzi, Mousa Alimohammadi, Ehsan Khalilipour, Feridoun Noohi, Majid Maleki, Mohammad Mehdi Peighambari, Bahram Mohebbi, Ali Zadehmehr, Alireza Rashidinejad, Farshad Shakerian, Reza Kiani, Hooman Bakhshandeh.
- 10- "Rajaie Cardiovascular Medical and Research Tertiary Heart Center Left Main Percutaneous Intervention Registry: RHC-LM Registry", Journal of Cardiology & Cardiac Surgery, 2021 Zahra Hosseini, Khatereh Dehghani, Ali Sarreshtehdari, Ehsan Khalilipour, 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.



- 11- "Outcomes of Oversized Coronary Stenting in Patients Undergoing Elective Percutaneous Coronary Intervention", Iranian Heart Journal, 2021
Mohammad Javad Alemzadeh-Ansari, Majid Kyavar, Somayeh Khalesi, Saeid Dalouchi, Feridoun Noohi, Majid Maleki, Mohammad Mehdi Peighambari, Ata Firouzi, Bahram Mohebbi, Ali Zademehr, Alireza Rashidinejad, Farshad Shakerian, Reza Kiani, Yasaman Khalili.
- 12- "Diagnostic accuracy of two-dimensional coronary angiographic-derived fractional flow reserve—Preliminary results", Catheterization and Cardiovascular Interventions, 2021, 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.
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- 24- "Coronary sinus filling time as a marker of microvascular dysfunction in patients with angina and normal coronaries". Research in Cardiovascular Medicine, 2019 Farshad Shakerian, Nasrin Panahifar .
- 25- "Heparin Initiation Before and After Femoral Arterial Access in Primary Percutaneous Coronary Intervention: Side Effects and Angiographic Success Rates", Iranian Heart Journal, 2018, Ali Zahed Mehr, Hamid Reza Sanati, Farshad Shakerian, Ata Firouzi, Reza Kiani, Mohammad Ali Zameni.
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- 27- "Long-Term Results of Balloon Pulmonary Valvuloplasty, Multidisciplinary Cardiovascular Annals", 2018 Ata Firouzi, Hamid Reza Sanati, Reza Kiani, Farshad Shakerian, Ali Zahedmehr, Kazhal Karimi.
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- 31- "Intracoronary versus Intravenous eptifibatide during percutaneous coronary intervention for acute ST-segment elevation myocardial infarction";
a randomized controlled trial, Cardiovascular intervention and therapeutics, 2017 Hamid Reza Sanati, Ali Zahedmehr, Ata Firouzi, Melody Farrashi, Kamyar Amin, Mohammad Mehdi Peighambari, Farshad Shakerian, Reza Kiani.
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Iranian Heart Journal, 2017, Farshad Shakerian, Momohammad ALi Sadr- Ameli Sadr-Ameli, Maryam Alsadat Mousavi, Hamid-Reza Sanati, Ata Firouzi, Ali Zahedmehr, Reza Kiani, Mahdyie Doaee, Akbar Nikpajouh.
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Professional Organization Membership

- Associate Fellow of the American College of Cardiology (Asc.FACC)
- European Society of Cardiology (ESC)
- Member of the directory board, Iranian Heart Association (IHA)
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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