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Executive Summary

Translational cardiometabolic research, motivated by understanding the impact of measuring cardiometabolic risks in the population for policy decisions, has been my career focus in the last decade. The achievement was made by completing a residency program and board certification in cardiology along with formal training during a master of public health program. I have participated as an active member of the experts' committee in designing, implementing, and monitoring three national public-health-related research projects on the burden, risk factors, quality, and care outcomes in patients with cardiovascular diseases. My research experiences taught me about study design, systematic literature review, data analysis, and dissemination. Looking back to the achievements encourages me to consider translational research as an essential part of my professional career, enhancing my clinical capabilities, enriching my research capabilities, and expand my international network in the use of translational research.

Education

- 2017 – 2021: Cardiology, Graduated as the 1st rank in the national board exam
Tehran Heart Center, Tehran University of Medical Sciences, Tehran, Iran.
- 2015 – 2017: MPH; Master's in Public Health
School of Public Health, Tehran University of Medical Sciences, Tehran, Iran.
- 2015 – 2017: MD (Internship); Medical Doctor, Graduated as top 3% students
Affiliated Hospitals of Tehran University of Medical Sciences, Tehran, Iran.
- 2009 – 2015: MD; Medical Doctor
School of Medicine, Tehran University of Medical Sciences, Tehran, Iran.

Analytical Skills

- Methodology:** Study design for a phase-3 clinical trial, observational epidemiological studies, systematic review, and meta-analysis.
- Biostatistics:** Data analysis with SPSS and Excel in the professional level, STATA and R program in the intermediate level. Data visualization at an advanced level.
- Directorship role:** Team-building, Team leadership, problem identification, definition, and solving.
- Therapeutic area:** Cardiovascular diseases and risk factors, metabolic syndrome, quality of care

Scientific Awards and Honors

- 2021: The 1st rank in the national board exam in Cardiology, Ministry of Health and Medical Education (MOHME), Iran.
- 2018: President's award for the students in the 26th National Festival of Outstanding Students, Iran.
- 2017: Distinctive alumni among the graduate medical students, 6th Alumni Integrated Ceremony, Tehran University of Medical Science, Tehran, Iran.
- 2017: The 10th rank in 44th series of National Residency Entrance Exam, Ministry of Health and Medical Education (MOHME), Iran.
- 2016: Gold medalist and letter of appreciation in 8th series of National Medical Olympiad, in the field of "Clinical Reasoning" Ministry of Health and Medical Education (MOHME), Tehran, Iran. [Both individual and group section]
- 2015: The 8th rank in the national medical pre-internship examination, Ministry of Health and Medical Education (MOHME), Iran.
- 2015 - 2018: Distinctive in 3 National Motahari educational festival, Ministry of Health and Medical Education (MOHME), Tehran, Iran.

Translational Research Projects

- 2017 – Present: "REFLECT" (REdesigning a FLEXible differentiated Curriculum for Talented students) | To design, implement and evaluate an educational curriculum for exceptionally talented students, Tehran University of Medical Sciences, Tehran, Iran. [Principal Investigator]
- 2021: 2021 Stepwise Approach to Non-Communicable Risk Factors Surveillance (STEPS) survey in Iran, Non-Communicable Disease Research Center, Endocrinology and Metabolism Population Sciences Institute, Tehran University of Medical Sciences, Tehran, Iran.
- 2016 – 2021: Iran Quality of Care in Medicine Program (IQCAMP), run by Non-Communicable Disease Research Center, Endocrinology and Metabolism Population Sciences Institute, Tehran University of Medical Sciences, Tehran, Iran.
- 2017 – 2019: Global Burden of Disease (GBD) of non-alcoholic fatty liver disease, Non-Communicable Disease Research Center, Endocrinology and Metabolism Population Sciences Institute, Tehran University of Medical Sciences, Tehran, Iran. (In collaboration with IHME)
- 2017 – 2019: PERSIAN-AF: A national cohort study on the incidence, prevalence, risk factors, and outcomes of Iranian patients with atrial fibrillation. Tehran Heart Center, Tehran University of Medical Sciences, Tehran, Iran.
- 2017 – 2018: Tehran; Friends of a healthy heart. Cardiovascular Primary Prevention Research Center, Tehran Heart Center, Tehran University of Medical Sciences, Tehran, Iran.

- 2017 – 2018: Investigation of Metformin effect on cardiovascular diseases event reduction among Pre-diabetics: A multicentric Clinical Trial” (IMPACT study), run by Non-Communicable Disease Research Center, Endocrinology and Metabolism Population Sciences Institute, Tehran University of Medical Sciences, Tehran, Iran.
- 2017 – 2018: Establishment of a Student Network under M8-Alliance, led by a group of students in Tehran University of Medical Sciences, Tehran, Iran [Principal Investigator].
- 2015 – 2017: Demographic Characterization and Risk Factors of Lean Patients with Non-Alcoholic Fatty Liver Disease (NAFLD) in Comparison with Obese ones. Tehran University of Medical Sciences, Tehran, Iran. [Principal Investigator]
- 2015 – 2017: Burden of Non-Alcoholic Fatty Liver Disease (NAFLD) in Iranian Adult Population. Tehran University of Medical Sciences, Tehran, Iran. [Principal Investigator]
- 2014 – 2017: Assessment of Myrtle effect on the regeneration of hepatic cells in rats experiencing acute hepatic failure. Tehran University of Medical Sciences, Tehran, Iran. [Principal Investigator]
- 2014 – 2015: PEG versus lactulose in the treatment of encephalopathy in cirrhotic patients. Shariati Hospital, Tehran University of Medical Sciences, Tehran, Iran.
- 2014 – 2017: “Medicine, This Infinite Way” / A program to assess the impact of continuous contact between role models and medical students on the improvement in students' motivation, by holding serial Conferences run by role models. Tehran University of Medical Sciences, Tehran, Iran. [Principal Investigator]

Positions and Executive Activities

- 2020 – 2021: Cardiology Chief Resident, Tehran Heart Center, Tehran University of Medical Sciences, Tehran, Iran.
- 2017 – Present: Founding Chief, BAZTAB Education Group, Tehran University of Medical Sciences, Tehran, Iran.
- 2015 – Present: Researcher at Non-Communicable Diseases Research Center, Endocrinology and Metabolism Population Sciences Institute, Tehran University of Medical Sciences, Tehran, Iran.
- 2018 – 2021: Member of the Special Commission for the Advancement of Gifted and Talented Students, Tehran University of Medical Sciences, Tehran, Iran.
- 2014 – 2021: Researcher at Liver and Pancreatobiliary Research Institute, Digestive Disease Research Center, Tehran University of Medical Sciences, Tehran, Iran.
- 2017 – 2018: M8-Alliance Student Network Director, M8-Alliance.
- 2017 – 2018: Member of the Student Organizing Committee for Holding the First Student Pre-event in the 7th World Health Summit Regional Meeting in Kish Island, Tehran University of Medical Sciences, Tehran, Iran.
- 2017 – 2018: Managing director, Cardiac Outcome Research and Education (CORE), Universal Scientific Education and Research Network (USERN), Tehran, Iran

- 2016: Senior trainer and one of the members in the educational team, International Iranian Public Health School (IPHS), WinterCamp.
- 2016: Senior trainer and one of the members of the educational team, International Iranian Public Health School (IPHS) 2016.
- 2014 – 2017: Director, “Medicine, This Infinite Way” / A program to assess the impact of continuous contact between role models and medical students on the improvement in students' motivation, by holding serial conferences run by role models. Tehran University of Medical Sciences, Tehran, Iran.
- 2014 - 2016: Member of “Shadowing” project. Medical School, Tehran University of Medical Sciences, Tehran, Iran.
- 2012 – 2014: Member of mentoring office as Mentor, Medical School, Tehran University of Medical Sciences, Tehran, Iran.

Presentations (Oral and Poster)

Title	Name of Congress	Date	Place
3. Syncope; As a Mystery	Critical Cardiovascular Care 2020	February 7, 2010	Tehran Heart Center
2. An Introduction to the idea of M8-Alliance Student Network.	7 th Regional Meeting of the World Health Summit	April 28, 2019	Kish Island
1. Medicine; This Infinite Way: To Design, execute and evaluate eight serial conferences, under the name of “Medicine, This Infinite Way”, run by role models, for medical students. Tehran University of Medical Sciences, 2014- 2016.	11 th Motahhari Festival	April 25, 2018	Tehran University of Medical Sciences, Tehran, Iran.

Publications

Continuing my research path of medical school, we continued our studies on metabolic syndrome, especially with the emphasis on lean patients and different ethnicities. Regarding the importance of coronary artery disease (CAD) as the primary cause of death and disability, I also started some new researches on CAD, mainly to find high-risk patients with the aid of novel biomarkers or high-risk features on cardiac imaging. I also collaborated with the cardiac imaging group; we had some studies on image characteristics of patients with pulmonary thromboembolism and anthracycline-related cardiotoxicity. My interest in clinical cases encouraged me to find and follow them in clinical contexts. During four years of residency, twelve rare cardiac cases were also published by my colleagues and me in the form of case reports.

1. Tabary M, Cheraghian B, Mohammadi Z, Rahimi Z, **Naderian M**, Danehchin L, et al. Association of anthropometric indices with cardiovascular disease risk factors among adults: a study in Iran. *European Journal of Cardiovascular Nursing*. 2021;20(4):358-66.
2. **Naderian M**, Sheikhy A, Ghorashi SM, Tajdini M, Sadeghian S, Hosseini K. Fluid Management in acute cardiac condition and superimposed COVID-19 infection. Do we need a careful revision? *Caspian Journal of Internal Medicine*. 2021;12(3):356-8.
3. Aryannejad A, Egtesad S, Rahimi Z, Mohammadi Z, Malihi R, Danehchin L, et al. Metabolic syndrome and lifestyle-associated factors in the ethnically diverse population of Khuzestan, Iran: a cross-sectional study. *Journal of Diabetes & Metabolic Disorders*. 2021;20(1):747-56.
4. Vakili H, Khareshi I, Sharifi A, Nickdoost N, Namazi MH, Safi M, et al. Assessment of Admission Time Cell Blood Count (CBC) Parameters in Predicting Post-primary Percutaneous Coronary Intervention TIMI Frame Count in Patients with ST-segment Elevation Myocardial Infarction. *Cardiovascular & Haematological Disorders-Drug Targets (Formerly Current Drug Targets-Cardiovascular & Hematological Disorders)*. 2020;20(3):191-7.
5. Torkian P, Langroudi TF, Negarestani AM, ARJMAND A, SHABESTARI MN, Tabary M, et al. A new approach to cardiac fat volume assessment and the correlation with coronary artery calcification. *Rom J Intern Med*. 2020;58:81-91.
6. Namazi MH, Khareshi I, Kaveh A, Taherian F, **Naderian M**, Tabary M. Stroke Following Successful PTMC in a Patient with Severe Mitral Stenosis: A Case Report and Presenting A Simple Stepwise Approach to PTMC-related Stroke. *Cardiovascular & Haematological Disorders-Drug Targets (Formerly Current Drug Targets-Cardiovascular & Hematological Disorders)*. 2020;20(3):232-6.
7. Mahjoob MP, Sheikholeslami SA, Dadras M, Mansouri H, Haghi M, **Naderian M**, et al. Prognostic value of cardiac biomarkers assessment in combination with myocardial 2D strain echocardiography for early detection of anthracycline-related cardiac toxicity. *Cardiovascular & Haematological Disorders-Drug Targets (Formerly Current Drug Targets-Cardiovascular & Hematological Disorders)*. 2020;20(1):74-83.
8. Mahjoob MP, Piranfar MA, Maghami E, Mazarei A, Khareshi I, **Naderian M**. Diagnostic value of speckle tracking echocardiography (STE) in the determination of myocardial ischemia: a pilot study. *Polish Annals of Medicine*. 2019;26(2).
9. Langhroudi TF, Esfahani MB, Khareshi I, **Naderian M**, Tajrishi FZ, Namazi MJ. Correlation of Hematologic Indices with CT-pulmonary Arterial Obstruction Index in Patients with Acute Pulmonary Emboli. *International Journal of Cardiovascular Practice*. 2019;4(3):89-93.
10. Faghihi Langroudi T, Sheikh M, **Naderian M**, Sanei Taheri M, Ashraf-Ganjouei A, Khareshi I. The association between the pulmonary arterial obstruction index and atrial size in patients with acute pulmonary embolism. *Radiology research and practice*. 2019;2019.
11. Bayat F, Baghaei R, Safi M, Aval ZA, Khareshi I, **Naderian M**. Huge aneurysmal fistula from left main artery to right atrium in a man with atypical chest pain and dyspnea on exertion. *Future cardiology*. 2019;15(02):85-8.
12. Vakili H, Mohamadian A, **Naderian M**, Khareshi I. Cystatin C may not be a precious predictor for coronary artery disease and its severity: an area of uncertainty. *Acta bio-medica: Atenei Parmensis*. 2018;89(2):209.
13. Shahrabaf MA, Mahjoob MP, Khareshi I, Akbarzadeh MA, Barkhordari E, **Naderian M**, et al. The role of air pollution on ST-elevation myocardial infarction: a narrative mini review. *Future cardiology*. 2018;14(4):301-6.

14. Safi M, KhaheShI I, Jafarzadeh S, **Naderian M**, Akbarzadeh M, Tajrishi FZ. Evaluation of Correlation between Serum Levels of Vitamin D and Coronary Artery Disease: An Existing Debate. *JOURNAL OF CLINICAL AND DIAGNOSTIC RESEARCH*. 2018;12(8):OC1-OC4.
15. Namazi MH, KhaheShi I, Barkhordari E, **Naderian M**, Tajrishi FZ. Percutaneous Left Appendage Closure with the Watchman Device; The Challenges Lie Ahead: A Narrative Mini Review. *Journal of Clinical & Diagnostic Research*. 2018;12(5).
16. Mahjoob MP, Sadeghi S, Khanaman HF, **Naderian M**, KhaheShi I. Comparison of coronary risk factors and angiographic findings in younger and older patients with significant coronary artery disease. *Rom J Intern Med*. 2018;56:90-5.
17. Maghbooli N, Mohammadi MA, **Naderian MR**, Jamali R. The utility of Helicobacter pylori eradication in improving functional dyspepsia in adult population in Iran. *Feyz Journal of Kashan University of Medical Sciences*. 2018;22(2):185-91.
18. Langroudi TF, Haybar H, Parsa SA, Mahjoorian M, KhaheShi I, **Naderian M**. The severity of coronary artery disease was not associated with non-alcoholic fatty liver disease in a series of 264 non-diabetic patients who underwent coronary angiography. *Romanian journal of internal medicine = Revue roumaine de medecine interne*. 2018;56(3):167-72.
19. KhaheShi I, Sharifi A, Yousefi N, **Naderian M**, Nickdoost N, Akbarzadeh MA. The Association between Air Quality Index and Risk of Developing ST Segment Elevation Myocardial Infarction: A Case-Crossover Design. *Journal of North Khorasan University of Medical Sciences*. 2018;9(3):324-9.
20. Ebrahimi H, **Naderian M**, Sohrabpour AA. New concepts on reversibility and targeting of liver fibrosis; a review article. *Middle East journal of digestive diseases*. 2018;10(3):133.
21. Akbarzadeh MA, KhaheShi I, Sharifi A, Yousefi N, **Naderian M**, Namazi MH, et al. The association between exposure to air pollutants including PM10, PM2.5, ozone, carbon monoxide, sulfur dioxide, and nitrogen dioxide concentration and the relative risk of developing STEMI: A case-crossover design. *Environmental research*. 2018;161:299-303.
22. Vakili H, Shirazi M, Charkhkar M, KhaheShi I, Memaryan M, **Naderian M**. Correlation of platelet-to-lymphocyte ratio and neutrophil-to-lymphocyte ratio with thrombolysis in myocardial infarction frame count in ST-segment elevation myocardial infarction. *European Journal of Clinical Investigation*. 2017;47(4):322-7.
23. Safi M, Mahjoob MP, Nateghi S, KhaheShi I, Akbarzadeh MA, **Naderian M**. The Assessment of short-term effect of L-Citrulline on endothelial function via FMD to NMD ratio in known CAD patients: A randomized, cross-over clinical trial (Clinical trial number: NCT02638727). *Journal of Internal Medicine*. 2017;55(1):23-7.
24. Safi M, KhaheShi I, Memaryan M, **Naderian M**. A Mysterious Case of ST-Elevation Myocardial Infarction; an Old Man with Weight Loss and Dyspepsia. *International Journal of Cardiovascular Practice*. 2017;2(4):93-4.
25. Safi M, KhaheShi I, Eslami V, Beheshtian MM, **Naderian M**. Impact of Lesion Length on Functional Significance in Intermediate Coronary Lesions. *International Journal of Cardiovascular Practice*. 2017;2(3):57-60.
26. Safi M, Bayat F, Ahmadi Z, Shekarchizadeh M, KhaheShi I, **Naderian M**. The change in NT-pro-BNP and post-PTMC echocardiography parameters in patients with mitral stenosis. A pilot study. *Romanian journal of internal medicine = Revue roumaine de medecine interne*. 2017;55(2):75-81.
27. Namazi MH, KhaheShi I, Momenizadeh A, Dousti A, **Naderian M**. Successful Angioplasty of Left Vertebral Artery and Right Subclavian Artery Via Retrograde Approach. *Journal of Clinical and Diagnostic Research: JCDR*. 2017;11(2):OD05.

28. **Naderian M**, Kolahdoozan S, Sharifi AS, Garmaroudi G, Yaseri M, Poustchi H, et al. Assessment of lean patients with non-alcoholic fatty liver disease in a middle income country; prevalence and its association with metabolic disorders: a cross-sectional study. *Archives of Iranian medicine*. 2017;20(4):0-.
29. **Naderian M**, Akbari H, Saeedi M, Sohrabpour AA. Polyethylene glycol and lactulose versus lactulose alone in the treatment of hepatic encephalopathy in patients with cirrhosis: a non-inferiority randomized controlled trial. *Middle East journal of digestive diseases*. 2017;9(1):12.
30. Mahjoob MP, Khareshi I, **Naderian M**. Stent-assisted coiling of large common femoral artery pseudoaneurysm following coronary artery catheterization: an uncommon and novel approach. *Romanian journal of internal medicine = Revue roumaine de medecine interne*. 2017;55(1):57-9.
31. Akbarzadeh MA, Safi M, Bayatbayatani S, Khareshi I, **Naderian M**. Factors affecting ventriculophasic response: An investigation in patients with permanent pacemaker. *Journal of electrocardiology*. 2017;50(5):598-602.
32. Akbarzadeh MA, Khareshi I, Memaryan M, Mahjoob MP, **Naderian M**. AV nodal reentrant tachycardia with a 2: 1 right bundle branch block missed as bidirectional ventricular tachycardia in the first superficial evaluation. *ROM J INTERN MED*. 2017;55(2):117-20.
33. Vakili H, Khareshi I, Memaryan M, Sadeghi R, **Naderian M**. Resistant Hypertension due to Fibromuscular Dysplasia in a Young Male: A Rare Case Report. *Journal of Clinical and Diagnostic Research: JCDR*. 2016;10(6):OD08.
34. Vakili H, Khareshi I, Memaryan M, **Naderian M**. Anomalous origin of a stenosed left circumflex coronary artery in a patient presenting with unstable angina: a case report. *Romanian journal of internal medicine = Revue roumaine de medecine interne*. 2016;54(4):247-9.
35. Vakili H, Chaghazardi S, Khareshi I, **Naderian M**. The Effect of Hyperuricemia on the Rate of Contrast-Induced Nephropathy in Patients with Coronary Angiography. *International Journal of Cardiovascular Practice*. 2016;1(3):62-4.
36. Safi M, Khareshi I, Memaryan M, **Naderian M**. Subcapsular liver hematoma after fibrinolytic therapy for acute myocardial infarction: a rare case report. *Acta bio-medica : Atenei Parmensis*. 2016;87(3):318-20.
37. Parsa SA, Saemifar F, Khareshi I, **Naderian M**. The role of the history of coronary heart disease among second degree relatives for predicting coronary artery disease. *International Journal of Cardiovascular Practice*. 2016;1(2):23-6.
38. Parsa SA, Khareshi I, Memaryan M, **Naderian M**. Takotsubo cardiomyopathy following recurrent doses of albuterol due to asthma attack: a very rare case report. *Future cardiology*. 2016;12(6):609-12.
39. **Naderian M**, Ebrahimi H, Sohrabpour AA. Prevalence of nonalcoholic fatty liver disease in the middle eastern area: What is the exact estimation? *Hepatology*. 2016;64(4):1390-1.
40. Khani M, Hosseintash M, Foroughi M, **Naderian M**, Khareshi I. Assessment of the effect of off-pump coronary artery bypass (OPCAB) surgery on right ventricle function using strain and strain rate imaging. *Cardiovascular diagnosis and therapy*. 2016;6(2):138.
41. Ebrahimi H, **Naderian M**, Sohrabpour AA. New concepts on pathogenesis and diagnosis of liver fibrosis; a review article. *Middle East journal of digestive diseases*. 2016;8(3):166.
42. Aghamirsalim M, Sorbi R, **Naderian M**, Cugati S, Shahsuvaryan ML, Hashemi MG. Management of retinal vein occlusion, who is responsible? *Acta Medica Iranica*. 2016:731-6.

Books

1. **Naderian M**, et al. (2017) *Medicine; This Infinite Way*. Tehran: Tehran University of Medical Sciences. ISBN: 978-622-00-0771-5.
2. Soltani G, Rouzrokh P, **Naderian M**. (2018) *Fifty-Five Recommendations for Managers. How to improve our personal and professional life? Adapted from Harvard Business School's Recommendations*. Tehran: Delham Publisher. ISBN: 978-964-8568-98-1.
3. **Naderian M**, Nematollahi A. (2020) *Comprehensive Review on Cardiovascular Diseases*. Tehran: Parseh Publisher. ISBN: 978-622-6109-48-2

Workshops and Training Courses

- 2019-2020: Six sessions of problem-solving skills workshops, BAZTAB educational group, Tehran, Iran.
- October 2019: Young Physician Leaders program, InteracademicPartnership, Berlin, Germany.
- October 2019: Change Leadership Workshop, BAZTAB educational group, Tehran, Iran.
- July 2019: Behavioral Economics Workshop, BAZTAB education group, Tehran, Iran.
- 2018-2019: Eight sessions of leadership skills interactive classes, BAZTAB educational group, Tehran, Iran.
- 2018-2019: Six sessions of personal development skills workshops, BAZTAB educational group, Tehran, Iran.
- September 2015: Basic STATA (9 hours), International Institute Kowsar Corporation, Tehran, Iran.
- December 2014: Preliminary and Advanced Peer Reviewing (8 hours), Research Deputy of Medical School, Tehran University of Medical Sciences, Tehran, Iran.
- November 2014: Preliminary and Advanced Scientific Writing (16 hours), Research Deputy of Medical School, Tehran University of Medical Sciences, Tehran, Iran.

Journal's Reviewer

Cardiovascular Diagnosis and Therapy

International Journal of Cardiovascular Practice

Others

Hobbies: Professional Ping Pong player and swimmer, occasional dart thrower, mountaineer, and diver.

Languages: English and Persian

References

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