

Dr Fariba Bayat

Associate Professor of Echocardiography

**Department of Cardiology, Cardiovascular Research Center, Shahid Modarres
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EDUCATION

- 1994-2001 MD, Zanzan University of Medical Sciences, School of Medicine, Zanzan, Iran.
GPA: 3.9/4, Ranked 1st in the class of 2001 Medical students.
- 2001-2005 Residency: Cardiology at Isfahan University of Medical Sciences.
- 2006-2008 Fellowship of Advanced Echocardiography, Shahid Rajaei Heart Center, Iran University of Medical Sciences.

ACADEMIC POSITIONS

- 2005-2006 General Cardiology ,Shahrekord University of Medical Sciences, Sharekord, Iran.
- 2008-2010 Echo Cardiologist,Qom University of Medical Sciences, Qom, Iran.
- 2010-2022 Assistant professor of Echocardiography,Shahid Beheshti Medical university of medical sciences
- Since 2023 Associate professor of Echocardiography, shahid Beheshti university of medical sciences , Iran.

CERTIFICATION

- 2005 Iranian Board of Cardiology Certification.
- 2008 Advanced Echocardiography Fellowship Program Certification from Shahid Rajaei Heart Center.
- 2017-2018 Attendance in Faculty Development Program From Shahid Beheshti University of Medical Sciences. 2017 Attendance in Faculty Development of Research and Academic Leadership From Shahid Beheshti University of Medical Sciences.

Achievement

- 1998 Ranked 1st in the Comprehensive Pre-internship Exam for Medical students.
Straight participation in residential exam.
- 2001 2000 Ranked 1st in Class of 2001 Medical Students based on total GPA and the Pre-internship exam score.
- 2005 Top 10% in the Board Certification Exam: Iranian Board of Cardiology.
- 2010 Faculty Member at the SBUM (the Top 3 Medical Schools in Iran).

Google scholar citations: 109

H index: 6

Orcidid: 0000-0001-8485-2072

Publications:

2026

Bagheri A, Khani M, Bozorgi SJ, **Bayat F**, Fesharaki MJ, Farahani E. **Anterior papillary muscle strain predicts significant left anterior descending coronary artery stenosis in patients undergoing angiography.** Sci Rep. 2026

2025

1. Jafari M, Khani M, Akbari T, Farahani E, **Bayat F**, Bagheri A, et al. **Presentation of a residual post-myocardial infarction ventricular septal defect; a literature review based on a case report.** Journal of Cardiothoracic Surgery. 2025;20(1):230.

2. Fesharaki MJ, Bozorgi SJ, **Bayat F**, Bagheri A, Khani M, Saeen NM. **Hypoplastic Posterior Mitral Valve Leaflet and Atrial Septal Defect: A Case Report.** SN Comprehensive Clinical Medicine. 2025;7(1):166.

3. **Bayat F**, Tehrani RB, Khani M, Akbari T, Langroudi TF, Taheri M, et al. **Successful management of a delayed-presented and complicated right ventricular pseudoaneurysm: a case report and literature review.** Journal of Cardiothoracic Surgery. 2025;20(1):329.

4. Safi M, **Bayat F**, Gachkar L, Shahri MR. **Correlation of LVEDP with Severity of Coronary Artery Involvement in Patients Referred to Modarres Hospital with Coronary Artery Disease.** International Journal of Cardiovascular Practice. 2025 Jun;10(10).

5. Bagheri A, Khani M, Fesharaki MJ, **Bayat F**, Langroudi TF, Kazeminejad B, Shahmohammadi A, Farahani E. **An Unusual Presentation of Metastatic Soft Tissue Sarcoma to the Left Atrium and Pulmonary Veins: A Case Report and Comprehensive Literature Review.** Clinical Case Reports. 2025 Oct;13(10):e70991.

6. **Bayat F**, Jame Bozorgi S, Khani M, Jafari Fesharaki M, Bagheri A, Farahani E. **Navigating Diagnostic Dilemmas in Cardiology: A Rare Case Report of Tuberculosis Presenting as a Cardiac Abscess.** Clinical Case Reports. 2025 Oct;13(10):e70949.

7. **Bayat F**, Jame Bozorgi S, Khani M, et al. **Left Atrial Strain in Mitral Valve Disease: A Comparative Analysis of Regurgitation and Stenosis.** BMC Cardiovascular Disorders. 2025.

8. **Bayat F**, Jame Bozorgi S, Khani M, Jafari Fesharaki M, Bagheri A, Farahani E. **Navigating Diagnostic Dilemmas**

in Cardiology: A Rare Case Report of Tuberculosis Presenting as a Cardiac Abscess. Clin Case Rep. 2025 Oct 6;13(10).

9. **Fariba Bayat**, Mohammad Khani, Abdoulhamid Bagheri, Nahid Mohebi Saeen. **Aneurysm in the Shadows: A Case Report of Ruptured Sinus of Valsalva Aneurysm with severe AI and subtle onset.**2025.

2024

1. Mirhosseini SM, Rezaei M, Yarmohammadi H, Soltanipur M, Fattah E, **Bayat F**. **Thirty-three years follow-up of pseudoaneurysm of the mitral-aortic intervalvular fibrosa without surgical treatment: case report and literature review.** 2024.
2. Bagheri A, Khani M, Ghadirzadeh E, Moradi A, **Bayat F**, Salehi Mashhad Sari SP, et al. **Left atrial and ventricular deformation: alterations and predictive value of echocardiography parameters in end-stage renal disease patients after kidney transplantation.** European Heart Journal - Imaging Methods and Practice. **2024**;2(1).
3. Saadat H, **Bayat F**, Bagheri A, Talebi N. **Evaluation of Adherence to European Society of Cardiology Guidelines for Heart Failure Patients in Shahid Modarres Hospital.** Int J Cardiovasc Pract. 2024;9(2):e157274

2023

1. Pishgahi M, **Bayat F**, Bozorgmehr R, Fard SG, Sadr HR, Motahari SM, et al. **Investigation of the Possible Risk Factors Associated with Subclinical Left Ventricular Dysfunction Assessed by 2D Speckle Tracking Echocardiography in Patients with Type 2 Diabetes Mellitus and Normal Ejection Fraction.** International Cardiovascular Research Journal. 2023(In Press).
2. Fesharaki MJ, Akbari T, **Bayat F**, Ghadirzadeh E, Charkazi E. **The importance of intraoperative echocardiography in the early detection of mitral regurgitation as a postsurgical sequel of aortic valve replacement: a case report.** Journal of Medical Case Reports. 2023;17(1):474.
3. **Bayat F**, Khani M, Hooshmand E. **Evaluation of systolic function using global longitudinal strain in isolated obese and overweight people.** Cardiovascular & Haematological Disorders-Drug Targets (Formerly Current Drug Targets-Cardiovascular & Hematological Disorders). 2023;23(1):31-9.

2022

1. Naeini SD, **Bayat F**, Houshmand G. **Acute heart failure as an atypical presentation of Takayasu arteritis: The value of multi-modality imaging.** Clinical case reports. 2022;10(1).
2. **Bayat F**, Khani M, Hooshmand E. **Evaluation of systolic function using global longitudinal strain in isolated obese and overweight people.** 2022.
3. Bayat F, Khani M, Alirezaei T, Karimi A S. **Evaluation of the frequency of left ventricular dyssynchrony and its predictors by tissue Doppler echocardiography in asymptomatic diabetic patients without cardiovascular disease.** Research in Medicine 2022; 46 (1) :57-62

2021

1. Khani M, Esfahani MA, **Bayat F**, Khalaj A, Bagheri A. **Large Tricuspid Valve Myxoma in an Asymptomatic Patient with Uterine Myoma: An Uncommon Case.** The Journal of Tehran University Heart Center. 2021;16(2):75.
2. Jafari FM, **BAYAT F**, DALILI N. **Case Report, Coronary and Cerebral Artery Air Embolism Complicating Transseptal Accessory Pathway Ablation al Unusual Presentation of Acute Type A Aortic Dissection in Acute Renal Failure.** 2021.
3. Jafari Fesharaki M, **Bayat F**, Dalili N. **Unusual Presentation of Acute Type A Aortic Dissection in Acute Renal Failure.** Iranian Heart Journal. 2021;22(2):110-4.
4. Ghodsizad T, Behnam H, Fatemizadeh E, Langroudi TF, **Bayat F**. **Temporal Registration of Cardiac Multimodal Images Using Locally Linear Embedding Algorithm.** Frontiers in Biomedical Technologies. 2021;8(4).
5. Ghodsizad T, Behnam H, Fatemizadeh E, Faghihi Langroudi T, **Bayat F**. **Spatiotemporal registration and fusion of**

transthoracic echocardiography and volumetric coronary artery tree. International Journal of Computer Assisted Radiology and Surgery. 2021;16(9):1493-505.

6. Eslami V, **Bayat F**, Asadzadeh B, Saffarian E, Gheymati A, Mahmoudi E, et al. **Early prediction of ventricular functional recovery after myocardial infarction by longitudinal strain study.** American Journal of Cardiovascular Disease. 2021;11(4):471.

8. Eslami V, **Bayat F**, Asadzade B, Saffarian E, Gheymati A, Mahmoudi E, et al. **Ventricular Functional Recovery After Myocardial Infarction Can Be Early Predicted by Longitudinal Strain Study.** Cardiovascular Revascularization Medicine. 2021;28:S10.

9. **Bayat F**, Bahramnejad A. **The correlation between Epicardial Adipose Tissue Thickness and Severity of Coronary Artery Disease; An Echocardiographic Evaluation.** Men's Health Journal. 2021;5(1):e20-e.

2020

1. Mohammad Khani AT, Shekarkhar S, Esfahani MA, **Bayat F**. **Effect of kidney transplantation on right ventricular function, assessment by 2-dimensional speckle tracking echocardiography.** 2020.

2. Khani M, Tara A, Shekarkhar S, Esfahani MA, **Bayat F**. **Effect of kidney transplantation on right ventricular function, assessment by 2-dimensional speckle tracking echocardiography.** Cardiovascular Ultrasound. 2020;18(1):1-10.

3. Khani M, Hamidzad M, **Bayat F**, Esfahani MA, Saffarian F, Bakhshande H, et al. **2D Speckle Tracking of RV Function after CABG and CPB Time.** Research in Cardiovascular Medicine. 2020;9(4):77.

4. **Bayat F**, Namazi MH, Khani M, Shekarkhar S, Fatehi A, Tabary M, et al. **Double orifice mitral valve in a patient with bicuspid aortic valve and coarctation of the aorta: A rare presentation.** Clinical Case Reports. 2020.

5. **Bayat F**, Khani M, Saffarian F, Shahrbafe MA. **Correlation Between Type II Diabetes Mellitus and Left Atrial Function as Assessed by 2D Speckle-Tracking Echocardiography in Patients Without Coronary Artery Disease.** 2018;41(9):1192-6.

2014-2019

1. 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. 2017;55(2):75-81.

2. **Bayat F**, Ahmadi ZH, Behzadnia N, Dorudinia A, Jahangirifard A. **Asymptomatic giant lipoma of the right ventricular outflow tract: A case report.** The Journal of Tehran University Heart Center. 2017;12(3):142.

3. Tazakori Z, Babaei S, Karimollahi M, Ahmadian-Attari M, **Bayat F**. **The effect of oral damask rose extract on anxiety of patients undergoing coronary angiography.** Journal of Health and Care. 2016;18(3):207-16.

4. Farahani E, **Bayat F**, Kazemi-Nejad B. **Adrenocortical carcinoma with extension into the right atrium: a case report.** Comparative Clinical Pathology. 2015;24(2):453-6.

5. **Bayat F**, Nazmdeh M, Safi M, Karimi A, Gachkar L. **Assessment of left atrial function after percutaneous coronary intervention: A doppler-based strain and strain rate study.** Archives of Cardiovascular Imaging. 2015;3(4):3-.

6. **Bayat F**, Naghshbandi E, Samiei N, Nazmdeh M, Nateghi S, Karimi A. **OP-072 Accuracy of Malcoaptation Area in Aortic Regurgitation for Evaluation of Aortic Regurgitation Severity.** American Journal of Cardiology. 2015;115:S32.

7. **Bayat F**, Farahani E, Saadat H. **The Effect of Percutaneous Coronary Intervention on Left Ventricular Diastolic Dysfunction in Patients with Coronary Artery Disease Assessed by Strain Rate Imaging.** World Journal of Cardiovascular Diseases. 2014;4(10):522.

8. **Bayat F**, Baghaei R, Safi M, Aval ZA, Khaheshi 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 Cardiol. 2019 Mar;15(2):85-88.

2005-2010

1. Samiei N, **Bayat F**, Moradi M, Parsaei M, Haghighi SZO, Mohebbi A, et al. **Comparison of the response of the right ventricle with endovascular occlusion and surgical closure in adults with atrial septal defect one year after intervention.** Clinical Medicine Insights: Cardiology. 2010;4:CMC. S6493.
 2. SAMIEI N, **BAYAT F**, OJAGHI HAGHIGHI S, PARSAEI M, NOUHI F, MOHEBI A. **Evaluation of Right Ventricular Function before and after Dobutamine Stress Echocardiography in Healthy Individuals.** Iranian Heart Journal. 2009;10(1):35-9.
 3. Namazi MH, Eslami V, Norouzi S, Taherkhani M, Safi M, Saadat H, et al. **Isolated noncompaction of left ventricular myocardium with an unusual presentation of angina pectoris.** Reviews in cardiovascular
 4. Majid Kiavar M, **Bayat F.** **Echocardiographic Assessment of Ventricular Dyssynchrony in Left Ventricular Systolic Dysfunction and Valvular Heart Disease.** OFFICIAL QUARTERLY PUBLICATION OF THE IRANIAN HEART ASSOCIATION. 2009.
 5. Kiavar M, **Bayat F**, Sadeghpour A, Esmaeilzadeh M, Parsaee M. **VENTRICULAR DYSSYNCHRONY IN LEFT VENTRICULAR SYSTOLIC DYSFUNCTION AND VALVULAR HEART DISEASE.** Journal of Cardiovascular Electrophysiology. 2009;20:S37-S8.
 6. Hashemi M, Kiani Y, Basiratnia R, **Bayat F.** **Endothelial Function in Adolescents with a History of Premature Coronary Artery Disease in One Parent.** 2006.
 7. Hashemi M, HEIDARI R, BASIRATNIA R, **BAYAT F**, KIANI Y. **Endothelial function in male body builders taking anabolic androgenic steroids.** 2005
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Presentation

- 2008 Oral presentation in 16th congress of Iranian heart association in collaboration with American College of Cardiology, Tehran, Iran. (Endothelial function in male body builders taking anabolic androgenic steroids)
- 2008 Poster presentation in 16th congress of Iranian heart association in collaboration with American College of Cardiology, Tehran, Iran.(RV function after DSE).
- 2009 Lecture, on HTN, 13 Tir 1388, Qom University
- 2009 Lecture on ST elevation MI, 30 Ordibehesht 1388, Qom university.
- 2011 Lecture in 4th annual seminar on Iranian society of Echocardiograph, Tehran, Iran(What is new in PFO closure?)
- 2011 Case presentation in Echocardiography workshop, 3th International HF congress, Tehran.
- Lecture in Iranian society of Echocardiography congress, 2012, Tehran heart center, Tehran, Iran(ASD device closure)
- 2013 Lecture, How to assess PH, Iranian society of Echocardiography congress, rajaee heart center, Tehran.
- 2014 Lecture on Evaluation of pulmonary HTN, 4th international Iranian heart failure summit, Tehran.
- 2014 Poster presentation in Euroecho Imaging 2014, Vienna, Austria. (Assessment of left atrial functional status using tissue Doppler parameters of strain and strain rate after PCI procedure)
- 2014 Lecture on Echocardiography symposium, Shahid Beheshti university, Tehran.(LA deformation indices)
- 2014 Lecture in Modarres hospital weekly congress, October 2014, Tehran, Iran(Diagnosis and treatment of HTN)
- 2015 Lecture, Ischemic MR, Modarres hospital weekly congress, Tehran, Iran
- 2015 Poster presentation in Euroecho imaging 2015, Sevilla(Evaluation of Left Ventricular dyssynchrony by echocardiography in Patients With Type 2 Diabetes Mellitus Without Clinically Evident cardiac disease)
- 2015 Lecture on ,Interesting issues from recent Euro Echo, EuroEcho Imaging, Sevilla, Spain.
- 2015 Oral presentation in the 11th International Congress of Update in Cardiology and Cardiovascular Surgery, Istanbul,

Turkey. (Accuracy of Malcoaptation Area in Aortic Regurgitation for Evaluation of Aortic Regurgitation Severity)
2016 Presentation in 11th periodic conference of Iranian Society of Echocardiography ,Tehran, Iran.
2016 Lecture on Echocardiography in MR & HF,5th International Iranian Heart Failure Summit, Tehran, Iran.
2016 Echocardiography in ECMO, SBMU, Modarres Hospital.
2018 Lecture on Stress Echocardiography in nonIschemic Heart Disease, 6th International Iranian Heart Failure Summit, Iran.
2021 Lecture on Echocardiography in Amyloidosis at Webinar symposium of Amyloidosis, SBMU,
2021 Lecture, Strain In Ischemic Heart Disease at Iranian Society of Echocardiography Webinar.
2022 Lecture on Echocardiography in Post MI mitral Regurgitation at symposium of Mechanical complication of acute MI in SBMU(181549)
2023 Lecture on Echocardiography in **Viability assessment in heart failure** in 7th International Iranian Heart Failure Congress.
2025 Lecture on Echocardiography in **Tricuspid regurgitation in HF “Echo guided decisions for better outcomes** in 9th International Iranian Heart Failure Congress.

SKILLS

- + Comprehensive knowledge on the different diseases of the heart and blood vessels
- + Possesses strong clinical, leadership, and communication skills with a commitment to academics

