



## **Curriculum Vitae, August 2017**

**Mahnoosh Foroughi**, Cardiac Surgeon

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### **Professional experience**

-Attending Physician, 2005- now

Modarres Hospital, Tehran, Iran.

-Assistant Professor, 2005- 2011

Responsible for the teaching and managing of medical students, interns, and residents in cardiac surgery department of Modarres Hospital, Tehran, Iran.

-Associate professor, 2012- now

### **Board certification**

-National Board of General Surgery, 2001

-National Board of Cardiac Surgery, 2004

### **Academic Awards**

-2nd Rank in National cardiac surgery national board exam, 2004

### **Articles:**

1-Hekmat M; **Foroughi M**;Majidi M;et al. Tetralogy of Fallot and associated coronary anomalies. Iranian Heart Journal, 2004; 5(1,2): 39-42

2-Hekmat m; **Foroughi M**; Taghipor H; Hassantash S.A. Metastatic Sarcoma Invasion through pulmonary vein to left atrium; an unusual way of metastasis, Iranian Heart Journal 2004; 5(4): 53-56

3-Hekmat M; Rafieyan S; **Foroughi M**; Associated coronary anomalies in 135 Iranian Patients with Tetralogy of Fallot, Asian Cardiovascular and Thoracic Ann 2005; 13:307-310

4-Manouchehr Hekma, Hamid Reza Taghipoor, Mohammad Rezvan Nobahar, Mahmoud Beheshti Monfared.Mohammad Masoud Majidi Tehrani., Mohammad Kazem Arabnia,, Seyyed Ahmad Hassantash,, Ali-Mohammad Hallaj Zadeh, Naser Kachoueian, **Mahnoosh Foroughi**, and Nima Rezaei. Laparoscopic Cholecystectomy and Open-Heart Surgery at the Same Time. J Card Surg 2005;20: 557-9.

5-**Foroughi M**, Hassantash S.A. Hekmat M: Hospital Outcome Analysis after Different Techniques of Left Internal Mammary Grafts Harvesting. Ann Thrac Surg, 2008.

6-**Mahnoosh Foroughi**, Seyed-Ahmad Hassantash, Habib Saadat, Arash Ghanavaty . Unusual etiologies of severe acute mitral regurgitation not requiring surgery. Eur J Cardiothorac Surg 2008;34: 925-33.

7-**Foroughi M**, Karkhaneh Yousefi Z, Majidi Tehrani M, Noori Foroutaghe A, Ghanavati A, Hassantash SA. Prolonged QT interval and coronary artery bypass mortality due to heart failure. Asian Cardiovasc Thorac Ann 2009; 17:604- 607.

8- Ganavati A, **Foroughi M**, EsmaeiliS, Hassantash SA, Bolurian AA,Shahzamani M, Beheshti M,Hekmat M,RanjbarT,Ahi E. The relationship between post cardiac surgery delirium and intraoperative factors. The Quarterly Iranian Journal of Surgery; 2009; 17(3):16-25.

8-Bolourian AA, **Foroughi M**, Beheshty M, Hekmat M, Majidi M, Hassantash SA. Results of on-pump versus off-pump coronary artery bypass grafting. *Ann Thorac Surg.* 2010 Jul; 90(1):358.

9-Shahzamani M, Ghanavati A, Noori A, **Foroughi M**, Rahimian H, Shahsanaei A, Hassantash SA. Carvedilol compared with metoprolol on left ventricular ejection fraction after coronary artery bypass graft. *Journal of perianesthesia nursing*, 2011 vol.26, no.6.

10-**Mahnoosh Foroughi**, Hossein Rahimian, Ali Dabbagh, Masood Majidi, Manoucher Hekmat, Mahmood Beheshti, Mehran Shahzamani. Postoperative N-terminal Pro-Brain Natriuretic Peptide Level in Coronary Artery Bypass Surgery With Ventricular Dysfunction After Perioperative Glucose-Insulin-Potassium Treatment. *Journal of Cardiothoracic and Vascular Anesthesia*, Volume 26, Issue 4, August 2012.

11-**Foroughi M**, Hassantash SA, Rahimian H, Nouri A, Ghods K. Thermal burn injury during open heart surgery. *Kardochirurgia I Torakochirurgia Polska* 2012; 3:295-298.

12-Ali Dabbagh, Ehsan Bastanifar, **Mahnoosh Foroughi**, Samira Rajaei, Ali Asghar Keramatnia. The effect of intravenous magnesium sulfate on serum levels of N-terminal pro-brain natriuretic peptide (NT pro-BNP) in elective CABG with cardiopulmonary bypass. *Journal of Anesthesia* 2013, 27(5); 693-698.

13- **Foroughi M**, Argani H, Hassantash SA, Hekmat M, MaJidi M, Beheshti M, Mehdizadeh B, Yekani B. Lack of renal protection of ultrafiltration during cardiac surgery- a randomized clinical trial. *J Cardiovasc Surg* 2014 Jun; 55(3):407-13.

14- **Mahnoosh Foroughi**, SorenaAbbaszadeh Ahranjani, Mazaher Ebrahimian, Mahdieh Saieedi, Morteza Safi, Zahra Abtahian. Coronary artery disease in Iranian young adults, similarities and differences. *Open Journal of Epidemiology*, 2014, 4, 19-24

15-Shadi Shekarkhar, **Mahnoosh Foroughi**, Mohammadreza Moatamedi And Latif Gachkar. The association of serum parathyroid hormone and severity of coronary artery diseases. *Coronary Artery Disease*, 2014 Jun; 25(4):339-42.

16- Mersedeh Karvandi, Saeed Ranjbar, Seyed Ahmad Hassantash, **Mahnoosh Foroughi**. Brief communication: Mathematical concepts of mechanisms of left ventricular myocardium. *International Journal of Medical Imaging*. Vol. 2, No. 2, 2014, pp. 19-23.

17- Mersedeh Karvandi, Saeed Ranjbar, Mehrdad Shahshahani, Arash Rastegar, Seyed Ahmad Hassantash, **Mahnoosh Foroughi**, Fariba Ranjbar. A research proposal in mathematical modeling applied to heart and mathematical concepts of mechanisms of heart. *American Journal of Science and Technology*. Vol. 1, No. 1, 2014, pp. 30-35

- 18- Seyed Masoud Majidi Tehrani, Hamid Ghaderi, **Mahnoosh Foroughi**, Manouchehr Hekmat, Mahmoud Beheshti Monfared, Hassan Tatari, Seyed Mohsen Mirhosseini, Zargham Hossein Ahmadi, Zahra Ansari Aval, Seyedeh Adeleh Mirjafari. Ten-year evaluation of cardiac myxoma in Shahid Modarres Hospital. Tehran University Medical Journal, 2014; 72 (2): 87-95.
- 19- Azam Noori Frootaghe, Shahram Yazdani, **Mahnoush Foroghi**, Seyed Ahmad Raeissadat, Yadollah Mehrabi, Morteza Safi, Fatieh Mortazavi, Shahla Roodpayma. The Effect of Formative Assessment and Giving Feedback on ECG Interpretation Skills among Cardiovascular Residents of Shahid Beheshti University of Medical Sciences. Iranian Journal of Medical Education 2014: 13(11):931-941.
- 20- Saeed Ranjbar, Mersedeh Karvandi, Seyed Ahmad Hassantash, **Mahnoosh Foroughi**. How to Construct a 3D Mathematical/Computer Model of the Left Ventricle. Arch Cardiovasc Imaging. 2014 May; 2(2): e20628.
- 21- Hossein Vakili, Isa Khareshi, **Mahnoosh Foroughi**, Hamid Ghaderi, Shooka Esmaeeli, and Mostafa Jafari. Cardiac Hemangioma of RVOT in a Patient with Atypical Chest Pain. Hindawi Publishing Corporation. Case Reports in Medicine, Volume 2014, Article ID 285479, 3 pages.

22- Zahra Ansari Aval, **Mahnoosh Foroughi**. Impacts of Established Cardiovascular Risk Factors on the Development of Collateral Circulation in Chronic Total Occlusion of Coronary Arteries. *J Dis Markers*. 2014;1(3): 4.

23-**Mahnoosh Foroughi**, Manouchehr Hekmat, Mohsen Ghorbani, Hamid Ghaderi, Masoud Majidi, and Mahmood Beheshti. Mitral Valve Surgery in Patients with Systemic Lupus Erythematosus, *Review Article*. *The Scientific World Journal* Volume 2014, Article ID 216291, 9 pages. <http://dx.doi.org/10.1155/2014/216291>

24- Zahra Ansari Aval, Hamid Ghaderi, Hassan Tatari, **Mahnoosh Foroughi**, Seyedeh Adeleh Mirjafari, Mohammad Forozeshfard, Kamal Fani, and Isa Khaeshi. Surgical Treatment of Primary Intracardiac Myxoma: 20-Year Experience in “Shahid Modarres Hospital” —A Tertiary University Hospital— Tehran, Iran. *Scientific World Journal*, Volume 2015, Article ID 303629, 6 pages <http://dx.doi.org/10.1155/2015/303629>

25- Narges Payani; **Mahnoosh Foroughi**; Ali Dabbagh. The Effect of Intravenous Administration of Active Recombinant Factor VII on Postoperative Bleeding in Cardiac Valve Reoperations; A Randomized Clinical Trial. *Anesth Pain Med*. 2015 February; 5(1): e22846.

26-**Foroughi M**, Majidi M, Hekmat M, Beheshti M. What the cardiac surgeons have to know about cold agglutination management. *Egypt J Cardiothorac Anesth* 2014;8:101-3

27-M Karvandi, S Ranjbar, SA Hassantash, **M Foroughi** -

A novel mathematical technique to assess of the mitral valve dynamics based on echocardiography. 2015 arXiv preprint arXiv:1506.07023, 2015

28-Payani, N., **Foroughi, M.**, Rajaei, S., & Dabbagh, A. Effect of Local Fibrinogen Administration on Postoperative Bleeding in Coronary Artery Bypass Graft Patients. *Journal of Cellular & Molecular Anesthesia* 2015, 1(1), 23-27.

29-Hekmat, M., Ghaderi, H., **Foroughi, M.**, & Mirjafari, S. A. Guillain–Barré Syndrome after Coronary Artery Bypass Graft Surgery: a Case Report. *Acta Medica Iranica* 2016,54(1), 76-78.

30-Khani, M., Hosseintash, M., **Foroughi, M.**, Naderian, M., & Khaheshi, 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.

31-Ebrahimi, Leila, Maryam Kheirandish, and **MAHNOUSH FOROUGH**. "The effect of methylprednisolone treatment on fibrinolysis, the coagulation system, and blood loss in cardiac surgery." *Turkish journal of medical sciences* 46.6 (2016): 1645-1654.

32-Beheshti Monfared, M., Ghaderi, H., Langroudi, F., Langroudi, F., Mirjafari, S. A., **Foroughi, Mahnoosh** and Forozeshfard, Mohammad and Heidarpour Kiaie, Farshid. Anomalous origin of the right coronary artery from the mid-portion of the left anterior descending artery in a patient with single left coronary artery: A rare



coronary artery anomaly and review of literature. *Iranian Journal of Radiology*, (2017). 1-6.

33-Dabbagh, A., Arabnia, M. K., **Foroughi, M.**, Shahzamani, M., & Rahmian, H. The Use of Intraoperative Transesophageal Echocardiography in Thoracic Aortic Dissection Due to Chronic Cocaine Abuse. *Anesthesiology and Pain Medicine*, 2017,7(1).

34-najmeh moradi; Arash Rashidian; Hamid Rasekh ; teymoor mohammadi; **Mahnoosh Foroughi**; Alireza Olyaeemanesh. "Monetary value of quality-adjusted life years (QALY) among patients with cardiovascular disease: a willingness to pay study (Spring 2017)." *Iranian Journal of Pharmaceutical Research* (2017).

35-**Foroughi M**, Golestani Eraghi M, Ansari Aval Z, Majidi H. Increased demand for blood transfusion in cardiac surgery, simple but unsolved common problem. *J Cell Mol Anesth*. 2017;2(3):112-19.

#### **Poster Presentation:**

1- Hekmat M, **Foroughi M**; ;Associated coronary anomalies in 135 Iranian Patients with Tetralogy of Fallot, AT 7th update on pediatric cardiovascular disease- cardiology, Florida, USA, 2004

2- Beheshty M, Majidi M, Hekmat M, **Foroughi M**, A report of Iranian Patient with Left Pulmonary Vien Anomaly type of Partial Anomalous Venous Connection.XVI Annual Meeting Mediterranean Associaton of Cardiology and Cardiac Surgery, 2004

3- **Foroughi M**, Yousefi Z, Shahzamani M, QTc Interval Prolongation and Perioperative Mortality in Coronary Artery Bypass Graft. 15th congress of Iranian Heart Association, 2006

4- Shahzamani M, Noori A, Yousefi Z, **Foroughi M**, Effect of Different Doses of Angiotensin Converting Enzyme Inhibitors on Vasopressor Requirement during Coronary Artery Bypass Surgery, 15th congress of Iranian Heart Association, 2006

5- Seyed Ahmad Hassantash- **Mahnoosh Foroughi**- Zahra Ansari- Arash Ghanavati- Mohammad Ahmadi Rad. Factors Influencing Coronary Artery Bypass Grafting Outcome in the Aged. 17th ASCVT Annual Meeting of Asian Society for Cardiovascular and Thoracic Surgery, 2009, Taipei

6- S. Ranjbar; SA. Hassantash; M. Karvandi; **M. Foroughi**. A novel mathematical based software for modeling the left ventricular Myocardium. *Eur J Echocardiogr (2011) 12 (suppl 2): ii14-ii44.*

**Books:** Writing 3 chapters of “Postoperative Critical Care for Cardiac Surgical Patients”. Springer, 2014:

Cardiovascular Complications and Management After Cardiac Surgery. pp 197-211

Noncardiac Complications After Cardiac Surgery. pp 213-232

Postoperative Considerations of Cardiopulmonary Bypass in Adult Cardiac Surgery. pp 295-311

## **Completed Clinical Project Research:**

- 1-The effect of GIK solution on NT- pro BNP serum level in low EF patients undergoing coronary surgery.
- 2- The effect of different doses of methyl prednisolone on platelet function and fibrinolysis system in CABG patients.
- 3- The effect of MgSO<sub>4</sub> on pro BNP in patients undergoing cardiac surgery.
- 4- The effect of hemofilter use on urinary NGAL level in patients undergoing cardiac surgery.

## **Skills and Abilities**

Computer Skills: EndNote, Microsoft Office Word, and PowerPoint, SPSS for Windows.

Research Skills: Expert in study design, protocol preparation, data management and analysis, and scientific writing

## **Professional Experience**

Evidence Based Medicine, Medical Education, Research Methodology

**Clinical Experience:** More than 2000 open heart surgery in adult patients

## **Interests:**

- 1-Techniques in Myocardial Protection
- 2-In Minimally Invasive Cardiac Surgery
- 3- Adult cardiac surgery (coronary bypass, valve repair/ replacement)