



**Alireza Alizadeh Ghavidel MD**

**Professor of Cardiac Surgery**

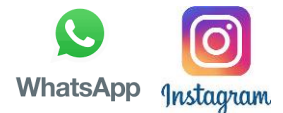
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- Date of Birth: Mach 1969
- Place of Birth: Tabriz-Iran
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Rajaie cardiovascular Medical & Research center,  
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## Medical Degrees:

### Medical Degree:

Tabriz University of Medical Sciences: 1994 (Honors Degree)

### Postgraduate Degrees:

- ❖ Board Certified in Cardiovascular Surgery  
(Iranian National board of cardiovascular surgeons): September 2005
  
- ❖ Board Certified in General Surgery  
(Iranian National board of General surgeons): September 2001

### Postgraduate Courses:

## Adult Cardiac Surgery, Heart Transplantation & Assist Devices

- Mayo Clinic, Rochester MN, USA: May 2011
- La Pitie Hospital , Paris, France : Feb 2009-March 2009
- Mayo Clinic, Rochester MN, USA: Dec 2007- March 2008
- Cleveland Clinic, Cleveland OH, USA: March 2008 - April 2008
- Harvard Medical University, Boston MA, USA:  
(Brigham & Women's Hospital) April 2008 - May 20
- UCLA Medical Center, Los Angeles, CA, USA: May 2008 - June 2008

### Prizes and Awards:

- 1- Second Rank in cardiac surgery board examination, September 2005
- 2- Fifth Rank in general surgery board examination, September 2001
- 3- Awarded travel scholarship in cardiovascular surgery by the Ministry of Health & Medical Educations (Iran)

### Clinical Experience in Cardiovascular Surgery:

#### ❖ **Current status: (Since November 2014)**

Professor in Cardiovascular Surgery  
Rajaie Cardiovascular Medical & Research Centre,  
Iran University of Medical Science  
Tehran, Iran

#### ❖ **Since March 2009-November 2014:**

Associate Professor in Cardiovascular Surgery  
Rajaie Cardiovascular Medical & Research Centre,  
Iran University of Medical Science  
Tehran, Iran

#### ❖ **Oct.2005 – March 2009:**

Assistant Professor in Cardiovascular Surgery  
Rajaie Cardiovascular Medical & Research Centre,  
Iran University of Medical Science  
Tehran, Iran

❖ **October 2002 to September 2005:**

Cardiovascular Surgery Residency Program,  
Rajaie Cardiovascular Medical & Research Centre  
Iran University of Medical Science

Tehran, Iran

**Rajaee Cardiovascular Medical & Research Centre ([www.rhc.ac.ir](http://www.rhc.ac.ir))** is the oldest and main cardiac surgery and cardiology Centre in Iran. It has over 400 beds and is only dedicated to heart diseases. Over 3500 cardiac surgery procedures are performed annually at this Centre which is a tertiary referral Centre for cardiac surgery in Iran. The full spectrum of cardiac surgery procedures is performed in this hospital including coronary revascularization (both on & off pump), valvular procedures, aortic surgery and full range of congenital heart surgery.

**Thesis:**

**For achievement of subspecialty degree in cardiac surgery:**

“Early and Long-term Outcomes in Patients Undergoing Aortic Root Reconstruction by Bentall Technique in Rajaei Cardiovascular & Medical Center”.

Supervised by Dr Mohammad Bagher Tabatabaie

Rajaei Cardiovascular & Medical Center, Iran University of Medical Science

**For achievement of specialty degree in general surgery:**

“Comparison of clinical results of two techniques ( Radial or Snuff box) of Arterio-Venous Fistula in patients with end-stage Renal Disease”.

Supervised by Dr Abolfazl Afsharfard & Dr Mohammad Mozaffar.

Shohada Tajrish General Hospital, Shahid Beheshti University of Medical Science

**For achievement of M.D degree:**

“The role of Glucose-Insulin-Potassium solution in outcomes of patients with hyperacute myocardial infarction”.

Supervised by Dr Jahanbakhsh Samadikhah

Tabriz University of Medical Science

<b>Clinical Experience in General Surgery:</b>
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**❖ October 2001 to September 2002:**

Assistant Professor in General Surgery,  
Imam Khomeini General Hospital  
Tabriz University of Medical Sciences,  
Tabriz, Iran

**❖ October 1997 to September 2001:**

General Surgery Residency Program, (4 years)  
Shohada Tajrish General Hospital,  
Shahid Beheshti University of Medical Sciences,  
Tehran, Iran

**Academic and Official appointment:**

- ❖ General Secretary of Iranian Society of Cardiac Surgeon (Since March 2016).
  
- ❖ Editor in Chief of Multidisciplinary Cardiovascular annals (Since June 2016).
  
- ❖ Faculty staff of Heart Valve Disease Research Center, Iran Cardiovascular Research Institute, Iran University of Medical Science, (Since 2009).
  
- ❖ Member of TAVI team of Rajaie Cardiovascular Medical and Research Center (Since January 2016).
  
- ❖ Member of CTEPH team of Rajaie Cardiovascular Medical and Research Center (Since January 2016).
  
- ❖ Member of Heart Transplant team of Rajaie Cardiovascular Medical and Research Center (Since January 2011).
  
- ❖ Member of Education Committee of Rajaie Cardiovascular Medical and Research Center (Since January 2016).
  
- ❖ Director of RTD (Research, Technology and development) office of Rajaie Cardiovascular Medical and Research Center (Dec. 2015-2017).
  
- ❖ Chairman of the Cardiovascular Surgery Department, Rajaie Cardiovascular Medical and Research Center (2011-2014).

- ❖ Member of Mortality and Morbidity Committee of the Rajaie Cardiovascular Medical and Research Center (Since May 2011).
- ❖ Member of Organizing Committee of the Operating rooms of the Rajaie Cardiovascular Medical and Research Center (Nov 2011-Oct2014).
- ❖ Member of Research Committee of Rajaie Cardiovascular Medical and Research Center (Since Nov 2011).
- ❖ Member of Intensive Care Units Committee of the Rajaie Cardiovascular Medical and Research Center (2011-2014).
- ❖ Member of Health Education Central Group of the Rajaie Cardiovascular Medical and Research Center (Dec2011-Aug 2013).
- ❖ Member of HSR Council of the Rajaie Cardiovascular Medical and Research Center (Dec2011-Aug 2013).
- ❖ Member of Critical Care Unit and CPR Committee of the Rajaie Cardiovascular Medical and Research Center (since Nov. 2013).
- ❖ Member of Safety and Risk Management of the Rajaie Cardiovascular Medical and Research Center (since Nov. 2013).
- ❖ General Secretary of the First Iranian Joint Congress international Congress of Iranian Society of Cardiac Surgeons, Razi Convention Center, Tehran Iran, April 2012 Scientific Secretary of the EACTS course in Minimally Invasive cardiac Surgery in Tehran, Rajaie Cardiovascular

Medical and Research Center (Since Nov 2011).

- ❖ Director of Research and Ethics Committee of Cardiac Surgery Department, Rajaie Cardiovascular Medical & Research Center (Feb.2011-Oct 2011).
  
- ❖ Scientific Deputy of Heart Valve Disease Research Center, Iran Cardiovascular Research Institute, Iran University of Medical Science, (Since May 2011).
  
- ❖ Director of Official Website of Iranian Society of Cardiac Surgeons (ISCS), (July 2009-2012).
  
- ❖ Scientific secretary of First Congress of the Iranian Cardiac Perfusion Association, Tehran- Iran, Jan.2009.
  
- ❖ Associate Editor of Research in Cardiovascular Medicine Journal. (Since 2012).
  
- ❖ Editorial Board, Iranian Society of Cardiac Surgeons (ISCS) Official Journal, (2008-2016).
  
- ❖ Editorial Board, Iranian Heart Association (IHA) official Journal, (since 2008).
- ❖ Section editor, Journal of Cardiovascular & Thoracic Research, (Since 2009).



- ❖ Editorial Board, Official Journal of Iranian Society of Cardiac Anesthesia. (Since 2011).
- ❖ Member of Iranian Society of Cardiac Surgeon (ISCS), Since 2005.
  
- ❖ Member of Iranian Heart Association (IHA), Since 2005
  
  
- ❖ Member of European Association for Cardiothoracic Surgeons (EACTS), since 2011-2015
- ❖ Member of Iranian Hear Charity (Since 2008).
  
- ❖ Member of Executive Committee of 6<sup>th</sup> ISCS Congress, Tehran-Iran, 27-30 Oct.2009.
  
- ❖ Member of Scientific committee of International IHA Congress, Tehran-Iran, 10-13 May, 2011.
  
- ❖ Member of Scientific committee of second Iranian Congress of Cardiothoracic & Vascular Anesthesia, Yazd-Iran 13-15 May 2009.

<b>Publications:</b>
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1. Y Rezaei, M Peighambari, Sh Naghshbandi, N Samiei, **AA Ghavidel**, M Dehghani, M Haghjoo, SHosseini, Postoperative Atrial Fibrillation Following Cardiac Surgery: From Pathogenesis to Potential Therapies. American Journal of Cardiovascular Drugs 1-31
2. S Mansouri, F Farahmand, G Vossoughi, **AA Ghavidel** , A comprehensive multimodality heart motion prediction algorithm for robotic-assisted beating heart surgery, The International Journal of Medical Robotics and computer assisted surgery, 2019 (15)2.
3. E Khalaf-Adeli, M Alavi, **AA Ghavidel**, AK Pourfathollah J Cardiovasc Thorac Res, 2019, 11(x), x-xdoi: 10.15171/jcvtr.2019
4. **AA Ghavidel**, A Sadeghpour, Z Totonchi, N Austin , Mid-term Results of First Experience in Sutureless Aortic Valve Replacement in Iran Multidisciplinary Cardiovascular Annals, 10 (1)2019
5. A Firouzi, MNP Borj, **AA Ghavidel** , Cardiac hydatid cyst: A rare presentation of echinococcal infection , Journal of cardiovascular and thoracic research, 14(1)2019.
6. F Gorjipour, L Hosseini-Gohari, **AA Ghavidel**, SJ Hajimiresmaiel, N Naderi , Mesenchymal stem cells from human amniotic membrane differentiate into cardiomyocytes and endothelial-like cells without improving cardiac function after surgical, Journal of cardiovascular and thoracic research 11 (1), 35,2019.
7. N Mohammadi, **AA Ghavidel**, M Zirak, MZ Toutouchi ,Compliance of Iranian perfusionist with the American Society of extracorporeal technology standards Research in Cardiovascular Medicine, 8(1), 2019.
8. Zahra Azizi, Bahador Baharestani, Maziar Gholampour Dehaki, Alireza Yaghoubi, Mohammad Hassan Ghafarinejad, Ali Sadeghpour Tabaei, **Alireza Alizadeh Ghavidel**, Clinical Characteristics and Surgical Outcomes of Coronary Artery Aneurysm: A Case Series, Multidisciplinary Cardiovascular Annals 10(1) 2019.
9. Mansouri, S, Farahmand, F, Vossoughi, G, **Ghavidel, AA**, Rezayat, M. Feasibility of infrared tracking of beating heart motion for robotic assisted beating heart surgery. Int J Med Robotics Comput Assist Surg. 2018; 14:e1869. <https://doi.org/10.1002/rcs.1869>.

10. Z Totonchi, R Azarfarin, L Jafari, **AA Ghavidel** , Feasibility of On-table Extubation After Cardiac Surgery with Cardiopulmonary Bypass: A Randomized Clinical Trial, *Anesthesiology and pain medicine*, 8(5), 2018.
11. S Mansouri, F Farahmand, G Vossoughi, **AA Ghavidel**, A Hybrid Algorithm for Prediction of Varying Heart Rate Motion in Computer-Assisted Beating Heart Surgery *Journal of medical systems* 42 (10), 2018
12. R Azarfarin, A Alizadehasl, **AA Ghavidel**, F Noohi, M Kyavar , A Case Report of Left Atrial Appendage Invagination in Post Operation Setting, *Multidisciplinary Cardiovascular Annals* 9 (2) 2018.
13. F Shirnia, N Hadavand, M Mirzaei, N Austine, H Bakhshandeh , **Alireza Alizadeh Ghaviel**, Impact of Different Prophylactic Antibiotic Regimen on Clinical Outcome of Coronary Artery Bypass Graft Surgery, *Multidisciplinary Cardiovascular Annals* 9 (1),2018.
14. S Mansouri, F Farahmand, G Vossoughi, **AA Ghavidel**, Feasibility of infrared tracking of beating heart motion for robotic assisted beating heart surgery. *The International Journal of Medical Robotics and Computer Assisted Surgery* 14(1) 1869
15. R Kaviani, F Noohi, **AA Ghavidel**, M Kyavar, S Pourhosseinali, R Azarfarin, A Case Report of Left Atrial Appendage Invagination in Post Operation Setting. *Multidisciplinary cardiovasc annals*, DOI : 10.5812/mca.69687
16. Z Khajali, M Pakbaz, **AA Ghavidel**, A Alizadehasl. Shone’s Syndrome and Patent Ductus Arteriosus: A Rare Case Report, *Multidisciplinary Cardiovascular Annals* 9 (1), 2018.
17. MM Ansari-Ramandi, N Naderi, A Firouzi, **AA Ghavidel**, H Pouraliakbar , Cardiac MRI helped for decision making in a patient with ruptured tricuspid valve and severe right ventricular failure, *EUROPEAN JOURNAL OF HEART FAILURE* 20, 179-179.2018.
18. S Sadeghi, N Austin, Z Totonchi, H Bakhshandeh, N Hadavand, **AA Ghavidel**, Impact of Procaine Hydrochloride Versus Lidocaine in Cardioplegic Solution, on Reperfusion Arrhythmia During Coronary Artery Bypass Graft Surgery, *Multidisciplinary Cardiovascular Annals* 2018/1/1.

19. A Vasheghani Farahani, A Yousefi Azar, H Goodarzynejad, E Khorrami, MJ Hosseinzadeh-Attar, SOshnouei, **AA Ghavidel**, E Golfeshan, Fa Ghourban Pour, Fish oil supplementation for primary prevention of atrial fibrillation after coronary artery bypass graft surgery: A randomized clinical trial, *International Journal of Surgery*, 2017.
  
20. M Gholampour Dehaki, A Al-Dairy, YRezaei, **AA Ghavidel**, Gh Omrani, N Givtaj, Reza S Afjehi, HTatari, A Jalali, and M Mahdavi: Mid-term outcomes of surgical repair for anomalous origin of the left coronary artery from the pulmonary artery: In infants, children and adults, *Ann Pediatr Cardiol*. 2017 May-Aug; 10(2): 137–143.  
doi: 10.4103/0974-2069.205140
  
21. **AA Ghavidel**, S Hosseini, Principles of cardiovascular surgery. Book Chapter, *Practical Cardiology*, 647-659.2017.
  
22. Z Khajali, S Saedi, **AA Ghavidel**, HR Pouraliakbar, Congenital aortico-left ventricular tunnel: A case report of a rare cause of aortic regurgitation in adults. *The Journal of Tehran University Heart Center* 12 (4), 167
  
23. A Al-Dairy, Y Rezaei, M Gholampour Dehaki, An Sadeghpour, Z Totonchi, H Pouraliakbar, **AA Ghavidel**, Different Presentation of Anomalous Origin of the Left Coronary Artery from the Pulmonary Artery in Adults, *Iranian journal of medical sciences* 42 (6), 599, 2017.
  
24. A Sadeghpour, A Alizadehasl, Z Azizi, **AA Ghavidel**, Tricuspid Regurgitation Dilemma: A Comparison Study between Surgical Versus Medical Management of Patients with Tricuspid Regurgitation, *Multidisciplinary Cardiovascular Annals* 7(1),2016.
  
25. A Alizadehasl, A Sadeghpour, N Akiash, M Peighambari, **A Alizadeh Ghavidel**, Keratoglobus Associated with Hypertrophic Cardiomyopathy: A Case Report of a Concomitant Disorder of Heart and Eye, *Archives of Cardiovascular Imaging* 4 (4),2016.

26. F Mirrazeghi, ME Rezaei, A Sadeghpour, **AA Ghavidel**, K Mozaffari, A Giant Right Atrial Mass with Concomitant Pulmonary Embolism Archives of Cardiovascular Imaging 4 (3)2016.
27. Amir Faravan, Nooredin Mohammadi, **Alireza Alizadeh Ghavidel**, Mohammad Zia Toutouchi, Ameneh Ghanbari, Mehran Mazloomi. Comparison of current practices of cardiopulmonary perfusion technology in Iran with American Society of Extracorporeal Technology's standards. J Cardiovasc Thorac Res. 2016; 8(2): 72–76.
28. **Alireza Alizadeh-Ghavidel**, Rasoul Azarfarin, Azin Alizadehasl, Ali Sadeghpour-Tabaei, and Ziae Totonchi. Moderate Patient-Prosthesis Mismatch Has No Negative Effect on Patients' Functional Status After Aortic Valve Replacement With CarboMedics Prosthesis Res Cardiovasc Med. 2016 May; 5(2): e29038.
29. **Alireza Alizadeh Ghavidel**, Zia Toutouchi, Farshad Jalili Shahandashti and Yalda Mirmesdagh. Rotational thromboelastometry in prediction of bleeding after cardiac surgery. Asian Cardiovasc Thorac Ann. 2015 Jun;23(5):525-9. doi: 10.1177/0218492314566330.
30. Hosseini S, Kashfi F, Samiei N, Khamoushi A, **Ghavidel AA**, Yazdanian F, Mirmesdagh Y, Mestres CA. Feto-maternal outcomes of urgent open-heart surgery during pregnancy. J Heart Valve Dis. 2015 Mar;24(2):253-9.
31. Javadikasgari H, **Ghavidel AA**, Gholampour. Genetic fuzzy system for mortality risk assessment in cardiac surgery. M.J Med Syst. 2014 Dec;38(12):155. doi: 10.1007/s10916-014-0155-5. Epub 2014 Nov 8.
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33. Ali Sadeghpour, Hamidreza Pouraliakbar, Rasoul Azarfarin, Alireza Alizadeh Ghavidel, Somayeh Zavareian, and Ali Amirahmadi. Mid-Term Patency in Radial Artery and

- Saphenous Vein After Coronary Artery Bypass Grafting in Asymptomatic Patients Using 128-Slice CT Coronary Angiography. *Anesth Pain Med.* 2015 Feb; 5(1): e23799.
34. Seied Mohammad Mehdi Peighambary, Behnoosh Jalili , Tooraj Babae , **Alireza Alizadeh Ghavidel**. Peripheral venous pressure as a predictor of central venous pressure during coronary artery bypass graft surgery
35. **Ghavidel A.A**, Gholamreza Omrani, Mitra Chitsazan, Ziae Totonchi and Nader Givtaj, Long-term results of aortic valve replacement with posterior root enlargement. *Asian Cardiovascular and Thoracic Annals* 2014 22: 1059. DOI: 10.1177/0218492314528923
36. **Ghavidel A.A**; Ziae Totonchi ; Abedin Hoseini ; Mohsen Ziyaeifard ; Rasoul Azarfarin. Blood Transfusion Practice in a Referral Cardiovascular Center in Tehran, Iran: A Critical Point of View. DOI: 10.5812/cardiovascmed.21772.
37. **Ghavidel A.A**, Javadicasgari H, Sadeghpour A, Totonchi Z, Modified Aortic Root Replacement Technique in Destructive Ventricular-Aortic Discontinuity. *The Annals of thoracic surgery*, January 2014 ,97 (1); 347-349.
38. Zahra khajali, Shabnam Mohammadzadeh, Majid maleki, Mohammad peigambari, Anita sadeghpour, **Ghavidel A.A**, mahammadreza Mirzaaghayan. Fibrinolytic therapy for Mechanical Pulmonary Valve Thrombosis. *Pediatric cardiology*. DOI. 101007/00246-014, 2014 Aug 22.
39. **Ghavidel A.A**, Hoda Javadikasgari, Majid Maleki,, Arsha Karbassi, Gholamreza Omrani, Feridoun Noohi. Two new mathematical models for prediction of early mortality risk in coronary artery bypass graft surgery. *J Thorac Cardiovasc Surg* 2014;:-1-8.
40. **Ghavidel A.A**, Parisa Ramezannejad, Yalda Mirmesdagh, Ali Sadeghpour. Prevention of Edema After Coronary Artery Bypass Graft Surgery by Compression Stockings. *Res Cardiovasc Med.* 2014 May; 2(2): e1746313-8.
41. **Ghavidel A.A**, MD, Maryam Shojaeifard, MD\*, Yalda Mirmesadagh, MD A Rare Case of Right-Sided Heart Failure after Bentall Procedure. *J Teh Univ Heart Ctr* 2014;9(4):183-185.

- 42. Ghavidel A.A,** Ziae Totonchi, Mitra Chitsazan, Maziar Gholampour Dehaki, Farshid Jalili2, Fariborz Farsad, Maral Hejrati . Safety and Efficacy of Caproamin Fides and Tranexamic Acid Versus Placebo in Patients Undergoing Coronary Artery Revascularization. J Cardiovasc Thorac Res, 2014, 6(3), 197-202.
- 43. Ghavidel A.A,** Yalda Mirmesdagh, Niloufar Samiei, Maziar Gholampour Dehaki. Haemostatic Role of TachoSil Surgical Patch in Cardiac Surgery. J Cardiovasc Thorac Res. 2014;6(2):91-5.
- 44.** Niloufar Samiei, Mohammad Reza Hakimi, Yalda Mirmesdagh, Mohammad Mehdi Peighambari, **Ghavidel A.A,** Saeid Hosseini. Surgical outcomes of heart valves replacement: A study of tertiary specialized cardiac center. ARYA Atheroscler 2014; Volume 10, Issue 5
- 45. Ghavidel A.A,** Samiei N, Javadikasgari H, Bashirpour K. Premeasured Neochordae Loop Maker: A New Technology in Mitral Valve Repair. Innovations: Technology & Techniques in Cardiothoracic & Vascular Surgery: November/December 2013 - Volume 8 - Issue 6 - p 443-449.
- 46. Ghavidel A.A,** Kyavar M, Sadeghpour An, Tototnchi Z, Mirmesdagh Y, Almassi N, Madadi Sh. Unusual Clinical Presentation of a Giant Left Ventricle Hydatid Cyst. J Cardiovasc Thorac Res, 2013, 5(4), 175-178.
- 47. Ghavidel A.A,** Samiei N, Javadikasgari H, Bashirpour K. Neochordameter: A New Technology in Mitral Valve Repair. Reserch in Cardiovasc Medicine. 2013 September; 1(5): 186-9.
- 48. Ghavidel A.A,** Nabavi S, Haghjoo M, Totonchi Z, Mirmesdagh Y, Javadikasgari H. “Amiodaron Versus Lidocain for the Prevention of Reperfusion Ventricular Fibrillation: A Randomized Clinical Trial” Arya atheroscler 2013; Vol 9, No 6
- 49.** Totonchi Z, Seifi S, Chitsazan M, **Ghavidel A.A,** Baazm F, Faritus Z.. “ pain Location and Intensity During the first Week Following Coronary Artery Bypass Graft Surgery” Anesth Pain Med. 2013 Dec; 3(3):e10386.

50. **Ghavidel AA**, Noorizadeh E, Pouraliakbar H, Mirmesdagh Y, Hosseini S, Asgari B, Dehaki MG. Impact of Intact Pleura during Left Internal Mammary Artery Harvesting on Clinical Outcome. *J Tehran Heart Cent.* 2013 Jan;8(1):48-53. Epub 2013 Jan.
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52. Haghjoo M, Heidarali M, Nikfarjam S, Peighambari M, **Ghavidel A.A**, Hosseini S, Jalali A. Very Late Effects of Postoperative Atrial Fibrillation on Outcome of Coronary Artery Bypass Graft Surgery. *Res Cardiovasc Med.*2012;1(1):.
53. **Ghavidel A.A**, Kyavar M, Ojaghi Z, Mirmesdagh Y Huge arteriovenous fistula between a giant aneurismal right coronary artery and coronary sinus. *Arch Iran Med.* 2012 Feb;15(2):113-4.
54. **Ghavidel A.A**; Mirmesdagh Y ; Sharifi M ; Sadeghpour An; Nakhaeizadeh R ;Omrani G. The Impact of Sub-valvular Apparatus Preservation on Prosthetic Valve Dysfunction During Mitral Valve Replacement *Research in Cardiovascular Medicine.* 2012 September; 1(2): 55-61.
55. Omrani G, Baghaei R, **Ghavidel A.A**, Baharestani B, Gholampour M. “ Re-do Tricuspid Valve Replacement, Technical Consideration: valve in Valve Insertion, *Iranian J cardiac Surgery.* Aug 2012: 4(3).
56. Samiei N, Kashfi F, Khamoushi A, Hosseini S, **Ghavidel A.A**, Taheripanah R, Mirmesdagh Y. Pregnancy outcome after mechanical mitral valve replacement: a prospective study. *J Tehran Heart Cent.* 2012 Aug;7(3):117-20. Epub 2012 Aug 31.
57. **Ghavidel AA**, Gholampour M, Kyavar M, Mirmesdagh Y, Tabatabaie MB. Constrictive pericarditis treated by surgery. *Tex Heart Inst J.* 2012;39(2):199-205.



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## Scientific Projects in Progress:

- I. Determining the long-term outcome of Aortic dissection at Rajaie heart center, A single center data registry
- II. Design and manufacturing of Surgical Instrument with the ability to install camera and light source on it for Ventricular Wall Surgery
- III. Efficiency of Caproamin in Reduction of CABG Mediastinal Bleeding in High Risk Patients.
- IV. The Evaluation of the Safety and efficacy of anterograde (intracoronary) and retrograde (via coronary sinus) injection of autologous mononuclear bone marrow stem cell in patients with the history of repaired Tetralogy of Fallot who undergo pulmonary valve replacement surgery: A Phase I and II clinical trial.
- V. Correlation between the number of gaseous micro-emboli detected by Trans Esophageal Echocardiography in cardiopulmonary bypass surgery and postoperative multi organ function.
- VI. Coronary sinus Inflammatory and ischemic biomarkers level in retrograde- anterograde versus anterograde cardioplegia during cardiopulmonary bypass surgery: A single blinded randomized controlled trial.

- VII. The Evaluation of the Safety and efficacy of retrograde (via coronary sinus) injection of autologous mononuclear bone marrow stem cell in patients with the history of previous myocardial infarction and chronic heart failure who undergo coronary artery bypass surgery: A Phase I and II clinical trial.
- VIII. Evaluation the efficacy of a new device for measuring the length of neochordae in mitral mitral valve repair based on perioperative echocardiographic views: A phase II clinical trial.
- IX. Efficacy of modified cox-maze procedure with cryoablation in patients with persistent atrial fibrillation undergoing concomitant mitral valve surgery: Single Blinded Randomized Controlled Trial.
- X. Safety of autologous intra papillary muscle injection of bone marrow stem cell in patients with up to moderate ischemic mitral regurgitation: A Phase II clinical trial.
- XI. Determining the performance of two preoperative risk models; Euro SCORE II and STS in a prospective cardiac surgery database.
- XII. CO2 insufflation effect on the number of microemboli detected by Transesophageal echocardiography on multi-organ function in cardiopulmonary bypass surgery: A single-blinded randomized controlled trial
- XIII. Long-term outcome of Type A Aortic dissection at Rajaie Heart Center (a single center data registry)

<b>Innovation:</b>
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**Premeasured Neochordameter: (Neochordae Loop Maker)**

A new and Novel device that enables cardiac surgeons to make neochordae loops before commencing the cardiopulmonary bypass and might lessen the complexity and the procedure time especially in minimally invasive and robotic mitral valve repair.

Related articles:

**1.Ghavidel A.A**, Samiei N, Javadikasgari H, Bashirpour K. Premeasured Neochordae Loop Maker: A New Technology in Mitral Valve Repair. Innovations: Technology & Techniques in Cardiothoracic & Vascular Surgery: November/December 2013 - Volume 8 - Issue 6 - p 443-449.

**2.Ghavidel A.A**, Samiei N, Javadikasgari H, Bashirpour K. Neochordameter: A New Technology in Mitral Valve Repair. Reserch in Cardioasc Medicine. 2013 September; 1(5): 186-9.

## Books:

- ✓ **Comprehensive Approach to Adult Congenital Heart Disease.** (English) Authors: Anita sadeghpour, majid Kyavar, Azin Alizadehasl. Springer 2014. **Ghavidel AA** .As contributor of two surgical section,
- ✓ **Valvular Heart Disease** (Persian ) Authors: Tabatabaie MB, Gholampour M, **Ghavidel AA**, Omran Publication 2009
- ✓ **Anatomy of Trunk;Gray's Anatomy**, Persian translation **Ghavidel A.A**, Azimzadeh B. - Jahad Daneshgahi Publications, 1992.

## Presentations:

- ✓ Sutureless AVR, Ghavidel A.A (Invited lecturer) Bi-Annualy Kowsar Hospital Symposium, Shiraz April 2016.

- ✓ Stem Cell in cardiac Surgery, Ghavidel A.A (Invited lecturer) First symposium of Stem cell & regenerative medicine in Heart Disease. Rajaei cardiovascular Medical & Research Center. January 2016
  
- ✓ GI complications after Cardiac surgery, **Ghavidel A.A** (Invited Lecturer) First symposium on Gastrointestinal complication in cardiac disease, Rajaei cardiovascular Medical & Research Center, October 2014.
  
- ✓ Cardiac Surgery In Patients with End-stage Renal Disease. **Ghavidel A.A** (Invited Lecturer) 1th symposium on “Cardiac Disease in patients with kidney disease”. January 2014
  
- ✓ Updates in TR surgical management. **Ghavidel A.A** (Invited Lecturer) 2th Iranian Cardiovascular Joint Congress” Feb. 2014, Tehran, Iran.
  
- ✓ Updates in CABG Guidelines. **Ghavidel A.A** (Invited Lecturer) “37<sup>th</sup> annual meeting of the Iranian Association of surgeons” April 2013.
  
- ✓ Prosthetic Heart Valve & pregnancy: a 10 year Experience. Kashfi F, Samiei R, Khamooshi AJ, Hosseini S, **Ghavidel A.A**, Taheripour R. “2th International Congress on Cardiac Problems in Pregnancy”, May 2012, Berlin, Germany.
  
- ✓ Emergency Open Heart Surgery during Pregnancy. Kashfi F, Hosseini S, Khamooshi AJ, Samiei R, **Ghavidel A.A**, yazdanian F. “ 1th Iranian Cardiovascular Joint Congress” Sep. 2012, Tehran, Iran.
  
- ✓ Preliminary report of the first clinical trial in Iran on “usefulness of the Tachosil patch as homeostatic agent in complex open heart surgeries”. **Ghavidel A.A** Bi-monthly meeting of ISCS, Tehran Heart Center, Tehran-Iran, September 2011.
  
- ✓ Sever RV failure after Bentall procedure in a young lady with history of type A aortic dissection, **Ghavidel A.A** Bi-monthly meeting of ISCS, Tehran Heart Center, Tehran-Iran , July 2011



- ✓ Prosthetic Heart Valve Choice in Childbearing Women. **Ghavidel A.A** (Invited Lecturer)  
First Symposium of Pregnancy & Heart Valve Disease, 10<sup>th</sup> July 2011, Tehran-Iran.
  
- ✓ Pregnancy after Mechanical Mitral Valve Replacement. Kashfi F, Khamooshi AJ, Hosseini S, **Ghavidel A.A**, Samiei R, Taheripour R. “ 59<sup>th</sup> International Congress of European Society of Cardiovascular Surgery, April 2010, Istanbul, Turkey.
  
- ✓ Metabolic Responses to Injury and Surgical Trauma. **Ghavidel A.A** (Invited Lecturer)  
Anesthesia Management in Cardiac Cashexia (The Symposium of Iranian Society of cardiac Anesthesia); Feb 18, 2010. Tehran-Iran
  
- ✓ Role of Epsilon Aminocaproic acid & Tranexamic Acid, vs Placebo in Reduction of mediastinal Bleeding following Open Heart Surgery  
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- ✓ Continuous Local Infusion of Bupivacain with ON-Q Pump System for Pain Management after Median Sternotomy. **Ghavidel A.A**, Nourizadeh E, Alinejad Z, Toutonchi Z, Adambeig A, Bakhshandeh H., Gholampour M, Tatatabaie MB. 2<sup>th</sup> Iranian Congress of cardiothoracic-vascular Anesthesia, 12-14 May 2009.
  
- ✓ Mitral Valve replacement with Sub-valvular apparatus preservation. **Ghavidel A.A**, Tabatabaie MB, Nakhaiezadeh R, Sadeghpour A, Baharestani B. 16<sup>th</sup> Congress of Iranian Heart Association in Collaboration with American college of Cardiology 19-21 Nov. 2008
  
- ✓ Clinical Association of Indexed Effective Orifice Area and Residual Transvalvular pressure Gradient after Aortic Valve Replacement with Carbomedics Mechanical Prosthesis  
**Ghavidel A.A**, Alinejad Khoram Z, Nakhaiezadeh R, Gholampour M, Sheikhi M,

Pourabbasi M, Hosseini S, Tabatabaie MB 2th Razavi Int'l Aortic Symposium 11-12 Dec.2008, Masshad-Iran

- ✓ Does Mitral Valve Replacement with Preservation of Subvalvular Apparatus Increase the Risk of prosthetic valve Dysfunction? **Ghavidel A.A**, Tabatabaie MB, Sadeghpour A, Gholampour M. 6<sup>th</sup> International Congress of Iranian Society of Cardiac Surgeons in Collaboratin with STS, 27-30 Oct. 2009, Tehran Iran.
  
- ✓ Correlation between Periodontal Disease & Coronary Heart Disease. Sobouti F, Talebi Ardakani M, Shariati M, **Ghavidel A.A**6<sup>th</sup> International Congress of Iranian Society of Cardiac Surgeons in Collaboratin with STS, 27-30 Oct. 2009, Tehran Iran
  
- ✓ Surgical Treatment of Chronic Constrictive Pericarditis, Is It Ever Too Late? **Ghavidel A.A**, Tabatabaie MB, Adambeig A, Givtaj N, Javadpour H. 5<sup>th</sup> International Congress of The Iranian Society of Cardiac Surgeons in Collaboration with German Society of Cardiac Surgeons, 20-23 Nov. 2007, Tehran-Iran.
  
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- ✓ Aortic Arch Replacement for Acute Aortic Arch Dissection. Hadadzadeh M, Hosseini S, Tabatabaie MB, **Ghavidel A.A**. 5<sup>th</sup> International Congress of The Iranian Society of Cardiac Surgeons in Collaboration with German Society of Cardiac Surgeons, 20-23 Nov. 2007, Tehran-Iran.
  
- ✓ Quality of life 6-12 month after Coronary Artery Bypass Grafting. Tabatabaie MB, **Ghavidel A.A** Presented at the 14th annual meeting of the Asian Society for Cardiovascular Surgery, June 2006 Osaka Japan.& 15th congress of the Iranian Heart

Association, (in collaboration the French Heart Association) November 2006, Tehran-Iran.

- ✓ Mortality & morbidity after aortic root replacement: 10 years experience. **Ghavidel A.A**, Tabatabaie MB, Hosseini S, Raiesi K Presented at the third congress of the Iranian society of cardiovascular surgeons May 2006, Tehran-Iran.
  
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- ✓ Complete repair of Tetralogy of Fallot in adults, is it ever too late? **Ghavidel A.A**, Tabatabaie MB Presented at the 14th congress of the Iranian Heart Association, (in collaboration the British Heart Association) 23rd to 26th November 2004, Tehran- Iran & 13th annual meeting of the Asian Society for Cardiovascular Surgery July 2005 Bangkok, Thailand.
  
  
  
  
  
  
  
  
  
  
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Association, (in collaboration the British Heart Association) 23rd to 26th November, 2004, Tehran- Iran.

- ✓ The Konno-Rastan procedure for complex left ventricular out-flow tract obstruction & small aortic root. **Ghavidel A.A**, Tabatabaie MB, Hosseini S, Raiesi K Presented at the 12th annual meeting of the Asian Society for Cardiovascular Surgery, 18th to 22nd April 2004, Istanbul- Turkey.
  
- ✓ Early & late outcomes in patients undergoing aortic root replacement according to the Bentall technique in Rajaei heart centre of Iran. **Ghavidel A.A**, Tabatabaie MB, Khamoushi A, Gholampour M, Hosseini S Presented at the 12th annual meeting of the Asian Society for Cardiovascular Surgery, 18th to 22nd April 2004, Istanbul- Turkey.
  
  
  
  
  
  
  
  
  
  
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### **Fields of Interest:**

- ❖ Minimally Invasive Cardiac Surgeries
- ❖ Heart Valve Surgery ( repair/replace)
- ❖ Aortic Root & Arch Reconstruction
- ❖ Complex Cardiac Surgeries

❖ Endovascular Surgery