

Alireza Alizadeh Ghavidel MD

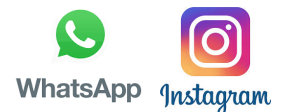
Professor of Cardiac Surgery

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- Date of Birth: Mach 1969
- Place of Birth: Tabriz-Iran
- Marital Status: Married, Two kids
- Work Address: Heart Valve Disease Research Center,
Rajaie cardiovascular Medical & Research center,
Tehran Iran

Contact Info:

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- Website: www.doctorghavidel.ir

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:

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| (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 2020)**

General Secretary of Iranian Society of Cardiac Surgeons
Private Clinic and Private Hospitals in Tehran
Lale General Hospital, Pars Hospital, and Moheb Mehr General Hospitals

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

Professor in Cardiovascular Surgery
Heart Valve disease Research Center, 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) 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

“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

Clinical Experience in General Surgery:

❖ 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 (one of the main founder) of Heart Valve Disease Research Center, Iran Cardiovascular Research Institute, Iran University of Medical Science, (Since 2009).

- ❖ Member of HOCM team of Rajaie Cardiovascular Medical and Research Center (Since July 2017).

- ❖ 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 6th 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.

Publications:

1. **Ghavidel, Alireza Alizadeh**, and Mahdi Daliri. "Minimally invasive surgery in cardiac masses." *Multimodal Imaging Atlas of Cardiac Masses*. Elsevier, 2023. 453-462.
2. **Ghavidel, Alireza Alizadeh**, et al. "Surgical Reconstruction of Valsalva Sinus Aneurysms: One Surgical Team Outcomes from Tertiary Center." *Multidisciplinary Cardiovascular Annals*13.2 (2022).
3. Amin A, Razavi NS, Mohamadifar A, Taghavi S, Nejad MH, Baharestani B, **Ghavidel AA**, Daliri M, Hosseini S, Naderi N. Destiny of Heart Transplant Candidates Based on a High Volume Heart Transplant Center Experience in Iran. *Int J Organ Transplant Med (IJOTM)*. 2022 Nov 24;13(2).
4. Gholizadeh, B., Nabavi, S. S., Khamooshi, A. J., **Ghavidel, A. A.**, Samiei, N., & Hoseini, S. Evaluation of results of repair of patients undergoing tricuspid surgery in Shahid Rajaei Heart Hospital. *International Journal of Health Sciences*, 6(S3), 5389-5399. <https://doi.org/10.53730/ijhs.v6nS3.7108SE>
5. **Ghavidel, Alireza Alizadeh**, and Saeid Hosseini. "Principles of cardiovascular surgery." *Practical Cardiology*. Elsevier, 2022. 769-783.
6. Hosseini, Saeid, Niloufar Samiei, Avisa Tabib, Hooman Bakhshandeh, Yousef Rezaei,... **Alizadeh Ghavidel A**, et al. "Prevalence of Structural Heart Diseases Detected by ziyaheld Echocardiographic Device in School-Age Children in Iran: The SHED LIGHT Study." *Global Heart* 17, no. 1 (2022).
7. Amin, A., Chitsazan, M., Ghavidel, A.A., Pouraliakbar, H., Parsaee, M. and Khesali, H., 2022. A rare cause of complete heart block in an adult: Primary cardiac lymphoma. *Asian Cardiovascular and Thoracic Annals*, 30(3), pp.321-324.
8. Hosseini, S., Nazari, Z., Rafati, A., Pasebani, Y., Naderi, N., Amin, A., **Ghavidel, A.A.**, Yadollahi, M., Peighambari, M.M. and Taghavi, S., 2022. Long-term Follow-up Outcomes and Prognosis Predictors of Non-Ischemic Functional Mitral Regurgitation in Patients with Heart Failure: A Retrospective Cohort study.
9. Peighambari, M.M., Moradkarami, F., Sadeghpour, A., Baharestani, B., **Alizadeh-Ghavidel, A.**, Ghadrdoust, B., Etemadifar, M. and Behjati, M., 2021. Surgical left atrial appendage closure:

Success rate and its relationship with cerebrovascular accident. *Current Journal of Neurology*, 20(4), p.235.

10. **Ghavidel, A.A.**, Alizadehasl, A., Khalilipur, E., Amirghofran, A., Nezhadbahram, H. and Azarfarin, R., 2022. Surgical septal myectomy for hypertrophic cardiomyopathy. The Iranian experience. *Asian Cardiovascular and Thoracic Annals*, 30(1), pp.64-73.
11. Kazemikhoo, N., Kyavar, M., Razzaghi, Z. **Ghavidel A.A** et al. Effects of intravenous and transdermal photobiomodulation on the postoperative complications of coronary artery bypass grafting surgery: a randomized, controlled clinical trial. *Lasers Med Sci* 36, 1891–1896 (2021). <https://doi.org/10.1007/s10103-020-03236-3>.
12. Hamidi SH, Azarfarin R, **Alizadeh-Ghavidel A**, Pabarjay M. Comparison of Normal Saline, Ringer's and Ringer's lactate as Z-BUF fluids in management of perioperative serum Sodium and Potassium levels. *Artificial Organs*. 2021 Mar 9.
13. Gili, S., SADEGHI, F.V., Haghayegh, S.A., **Alizadeh Ghavidel .A.** and Rezayi, J.H., 2021. The Comparison of Effectiveness of Emotion-Focused Therapy and Transcranial Direct Current Stimulation on Anxiety and Depression of Patients with Coronary Artery Disease.
14. Alavi, S.M., Sanadgol, H., Ziyaeifard, M., Foroutan, M.R., **Alizadeh-Ghavidel, A.**, Azarfarin, R., Ghadrdooost, B., Roshan, Y.N. and Varamini, M.R., 2021. The influence of mean arterial blood pressure during cardiopulmonary bypass on post-operation acute kidney injury in hypertensive patients. *Journal of Renal Injury Prevention*, 10(2).
15. Hosseini, S., Samiei, N., Tabib, A., Bakhshandeh, H., Rezaei, Y..., **h** et al., Prevalence of Structural Heart Diseases Detected by Hand-Held Echocardiographic Device in School-Age Children in Iran: A Cross-Sectional Study.
16. Ziyaeifard, M., **Ghavidel, A.**, Moradi, A., Fatahi, M., Salehzadeh, A. and Heidarzadeh, H., 2021. Comparison of the Effects of Hypothermia and Normothermia on Cognitive Functions After Coronary Artery Bypass Surgery. *Multidisciplinary Cardiovascular Annals*, 12(2).
17. Meimand, A Sadeghpour, M Pakbaz, **AA Ghavidel**, H Pouraliakbar, et al, Cardiac Echinococcosis Associated with Other Organ Involvement: Report of Two Challenging Cases, CASE, DOI:<https://doi.org/10.1016/j.case.2020.09.008>
18. E Khalaf-Adeli, AA Pourfathollah, F Noohi, **A Alizadeh-Ghavidel**, et al, Role of Using a Thromboelastometry-Based Protocol for Transfusion Management in Combined Coronary Artery

Bypass Grafting and Valve Surgery: A Randomized Clinical Trail, Indian Journal of Hematology and Blood Transfusion, 1-8, 2020.

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20. S Hosseini, Y Rezaei, **A Alizadeh Ghavidel**, Challenges and experience of setting up an aortic service, Asian Cardiovascular and Thoracic Annals, 0218492320930841,2020
21. A Sadeghpour, **A Alizadeh-Ghavidel**, K Mozaffari, H Pouraliakbar, et al, Large pericardial mesothelial cyst coexisting with hypertrophic obstructive cardiomyopathy, ARYA Atherosclerosis 16 (2).2020.
22. M Shojaeifard, S Saedi, A Alizadeh Ghavidel, MR Karimlu, M Kasaei, et al, Concomitant cardiac and hepatic hemangiomas, Echocardiography 37 (3), 462-464, 2020.
23. Rezaei, Y., Peighambari, M.M., Naghshbandi, S **Alizadeh Ghavidel A.**, . et al. Postoperative Atrial Fibrillation Following Cardiac Surgery: From Pathogenesis to Potential Therapies. Am J Cardiovasc Drugs 20, 19–49 (2020). <https://doi.org/10.1007/s40256-019-00365-1>
24. A Tabib, N Samiei, MM Peighambari, FR Ghader, M Moradian, A Mohebbi, **..A Alizadeh Ghavidel**, Pocket-sized echocardiography for screening structural heart disease: diagnostic accuracy and cost-effectiveness for population-based studies, Cardiology in the Young 30 (2), 197-20, 2020.
25. A Sadeghpour, M Maleki, M Movassaghi, L Rezvani, F Noohi, S Boudagh, **A Alizadeh Ghavidel**, Iranian Registry of Infective Endocarditis (IRIE): Time to relook at the guideline, regarding to regional differences, IJC Heart & Vasculature 26, 100433,2020.
26. **A Alizadeh Ghavidel**, E Asdaghpour, R Baghaei, N Jalilifar, H Radmehr, M Shirzad, et al, Iranian society of cardiac surgeons position statement for the treatment of patients in need of cardiac surgery in the COVID-19 pandemic period (Version I), Multidisciplinary Cardiovascular Annals 11 (1) 2020,
27. Totonchi, Z., Azarfarin, R., Jafari, L., **Ghavidel, A.A.**, Baharestani, B., Alizadehasl, A., Alasti, F.M. and Ghaffarinejad, M.H., 2018. Feasibility of on-table extubation after cardiac surgery with cardiopulmonary bypass: a randomized clinical trial. *Anesthesiology and pain medicine*, 8(5).

28. F Ghasemi, R Azarfarin, S Salahi, B Baharestani, A Alizadeh Ghavidel, The Effects of Cold Blood Cardioplegia with and without Adenosine on Hemodynamic Status of Patients Undergoing Mitral Valve Surgery, *Multidisciplinary Cardiovascular Annals* 11 (1).2020.
29. A Alizadeh Ghavidel, M Mirzaaghayan, MA Yousefnia, E Asdaghpour, RB Tehrani, Iranian Society of Cardiac Surgeons COVID-19 task force version II, restarting elective surgeries, *Journal of cardiovascular and thoracic research* 12 (3), 158, 2020.
30. Z ze, M Farrashi, AA Ghavidel, M Parsaee, Biventricular outflow obstruction in a patient with a large sinus of the Valsalva aneurysm *Anatolian Journal of Cardiology* 23 (1), E2, 2020.
31. A Alizadeh Ghavidel, S Saedi, Kambiz Mozaffari, Extremely rare and giant cavernous cardiac hemangioma, *Turkish Journal of Thoracic and Cardiovascular Surgery* 28 (1). 2020.
32. S Mashhadi, Z Totonchi, A Yaghoubi, A Sadeghpour Tabaei, A Alizadeh Ghavidel, Caproamin Fides[®] Versus Transamin[®] in High Risk Patients Undergoing CABGm *Multidisciplinary Cardiovascular Annals* 10 (2),2019.
33. A Alizadehasl, MJ Alamzadeh Ansari, A Alizadeh Ghavidel A 25-Year-Old Man with Kawasaki Disease and Myocardial Infarction: A Case Report, *Multidisciplinary Cardiovascular Annals* 10 (2), 2019
34. S Saedi, AA Ghavidel, N Panahifar, Anomalous origin of the left coronary artery from the pulmonary artery-adult type with heart failure and ventricular arrhythmia presentation, *Research in Cardiovascular Medicine* 8 (3), 84, 2019
35. G Habib, P Lancellotti, PA Erba, A Sadeghpour, M Meshaal, A Sambola The ESC-EORP EURO-ENDO (European Infective Endocarditis) registry, *European Heart Journal-Quality of Care and Clinical Outcomes* 5 (3), 202-207,2019
36. R Khalili, T Najafi Ghezeljeh, A Alizadeh Ghavidel, H Haghani. Effect of Zero-balance (Z-Buf) ultrafiltration on arterial blood gases in patients undergoing coronary artery bypass graft surgery, *Iranian Journal of Cardiovascular Nursing* 8 (1), 80-89,2019
37. 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, 2019

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39. E Khalaf-Adeli, M Alavi, **AA Ghavidel**, AK Pourfathollah J Cardiovasc Thorac Res, 2019, 11(x), x-xdoi: 10.15171/jcvtr.2019
40. **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
41. A Firouzi, MNP Borj, **AA Ghavidel** , Cardiac hydatid cyst: A rare presentation of echinococcal infection , Journal of cardiovascular and thoracic research, 14(1)2019.
42. 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.
43. N Mohammadi, **AA Ghavidel**, M Zirak, MZ Toutounchi ,Compliance of Iranian perfusionist with the American Society of extracorporeal technology standards Research in Cardiovascular Medicine, 8(1), 2019.
44. 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.
45. Khalaf-Adeli, E., Alavi, M., **asda**. and Pourfathollah, A.A., 2019. Comparison of standard coagulation testing with thromboelastometry tests in cardiac surgery. Journal of Cardiovascular and Thoracic Research, 11(4), p.300.
46. 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>.
47. 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.

48. 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
49. 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.
50. 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.
51. 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
52. 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 cardioasc annals, DOI : 10.5812/mca.69687
53. 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.
54. 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.
55. 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.
56. 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.

57. 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
58. **AA Ghavidel**, S Hosseini, Principles of cardiovascular surgery. Book Chapter, *Practical Cardiology*, 647-659.2017.
59. 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
60. 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.
61. 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.
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during coronary artery bypass graft surgery

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73. **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.
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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)

Innovation:

Premeasured Neochordameter: (Neochordae Loop Maker),

Iran Patent

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 Cardiovasc Medicine*. 2013 September; 1(5): 186-9.

Smart Surgical Knife,

Iran Patent

A new and Novel device that facilitate “ Septal Myectomy” surgery in patients with Hypertrophic Obstructive Cardiomyopathy.

Books:

- ✓ **Minimally invasive surgery in cardiac masses. In *Multimodal Imaging Atlas of Cardiac Masses* Ghavidel, A.A. and Daliri, M., 2023. (pp. 453-462). Elsevier.**
- ✓ **Practical Cardiology, First and second Edition.** (English) Authors: Majid Maleki, Majid Haghjoo, Azin Alizadehasl. Elsevier 2020. **Ghavidel AA** .As contributor of two surgical section,
- ✓ **The color of memories, Ghavidel A.A**, biographies of the Iranian cardiac surgeon, In Farsi, 2016
- ✓ **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:

Please find some of my presentation slides as pdf format in www.aaghavidel.com

- ✓ Moderating of the all ISCS (Iranian Society of Cardiac Surgeons) webinar (around 20) webinar during Covid-19 Outbreak
- ✓ Sutureless AVR, Ghavidel A.A (Invited lecturer) Bi-Annually 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) "37th 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, 10th july 2011, Tehran-Iran.

- ✓ Pregnancy after Mechanical Mitral Valve Replacement. Kashfi F, Khamooshi AJ, Hosseini S, **Ghavidel A.A**, Samiei R, Taheripour R. “ 59th Internation Congress of European Society of Cardiovasclar 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
Ghavidel A.A, Yousefnia MA, Jalilifar A, Bakhshandeh H, Gholampour M, Totouchi Z, Farsad F. Updates in cardiac surgery (Kowsar Hospital International Congress) 12-15 April 2010, Shiraz-Iran.

- ✓ 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. 2th Iranian Congress of cardiothoracic-vascular Anesthesia, 12-14 may 2009.

- ✓ Mitral Valve replacement with Sub-valvular apparatus preservation. **Ghavidel A.A**, Tabatabaie MB, Nakhaiezhadeh R, Sadeghpour A, Baharestani B. 16th 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, Nakhaiezhadeh 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. 6th 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** 6th 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. 5th International Congress of The Iranian Society of Cardiac Surgeons in Collaboration with German Society of Cardiac Surgeons, 20-23 Nov. 2007, Tehran-Iran.

- ✓ Off Pump Versus On Pump Coronary Artery Bypass Surgery in Shahid Rajaei Heart Center, Shafiee M, Baharestani B, Nemati B, Hosseini S, **Ghavidel A.A**, Sadeghpour A, 5th International Congress of The Iranian Society of Cardiac Surgeons in Collaboration with German Society of Cardiac Surgeons, 20-23 Nov. 2007, Tehran-Iran.

- ✓ Aortic Arch Replacement for Acute Aortic Arch Dissection. Hadadzadeh M, Hosseini S, Tabatabaie MB, **Ghavidel A.A.** 5th 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.

- ✓ Management of small aortic root at the second symposium of Iranian society of cardiovascular surgeons. **Ghavidel A.A** (Invited Lecturer)February 2006, Tehran- Iran.

- ✓ Surgical pathology of surgically excised heart valves.Yaghoubi A, Raiesi K, Hosseini S, **Ghavidel A.A** The fourth congress of the Iranian society of cardiovascular surgeons 16th to 19th November 2005, Tehran- Iran.

- ✓ 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.

- ✓ Total Cavo-pulmonary connection for complex cardiac anomalies with the functional single ventricle. Yaghoubi A, Givtaj N, **Ghavidel A.A**, Gholampour M Presented at the 14th congress of the Iranian Heart Association, (in collaboration the British Heart Association) 23rd to 26th November, 2004, Tehran- Iran.

- ✓ Influence of pregnancy on the durability of bioprosthetic heart valves. Hosseini S, Yaghoubi A, Kashfi F, **Ghavidel A.A** Presented at the 14th congress of the Iranian Heart 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.

- ✓ Influence of Pregnancy on the Durability of Bioprosthetic Valves, Yaghoubi AR., Hosseini S., Kashfi F., Khamoushi AM., Tabatabai MB., Omrani G., **Ghavidel A.A**, Sadeghpour A., Yousefnia MA., Noohi F.; Cardiac Surgery and Cardiology Department, Shaheed Rajaei Cardiovascular, Medical & Research Center, Tehran Iran.;14 th Congress of Iranian Heart Association In Collaboration with British Cardiac Society Nov. 23 - 26 . 2004 .Tehran, Iran

Fields of Interest:

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