



## **CURRICULUM VITAE**

**MAHDI DALIRI, MD**  
Assistant Prof. of Cardiac surgery

**Current Address:** Cardiac surgery Department, Shaheed Rajaei Cardiovascular Medical and Research Center, Valiasr Ave. Niayesh Intersection, Tehran, Iran. Postal code: 1996911151, Tel: +98 - 021-23923805, E-mail: dalirimahdi1@gmail.com

### **EDUCATION**

- 8/2000-8/2007 MD.  
Mashhad University of Medical Science, Mashhad, Iran.
- 9/2009- 9/2013 Residency of general surgery  
Mashhad University of Medical Science, Mashhad, Iran.
- 8/2015 – 8/2018 Residency of Cardiac surgery  
Iran University of medical science, Rajaei heart Center
- 9/2018 – Now Assistant Prof. of Cardiac Surgery  
Iran University of medical science, Rajaei heart Center
- 2019 Clinical fellowship on Mechanical circulatory support  
Hannover medical school, Hannover, Germany
- 2022 Minimal invasive cardiac surgery  
Royal college of surgeons of England, Medtronic department, Turkey
- 2023 Minimal invasive cardiac surgery  
Hannover medical school, Hannover and Leipzig, Germany

## EXPERIENCE

- 2/2001-6/2006 Part time researcher of Division of Human Genetics, Avicenna Research Institute Mashhad University of Medical Science  
Major Advisor: M.R. Abbaszadegan MT (ASCP), Ph.D.
- 2004 Executive member of 7<sup>th</sup> Iranian congress of Immunology and allergy  
Ferdowsi university, Mashhad, Iran
- 5/2005-6/2008 Part time researcher of Department of cardiac surgery, Ghaem Hospital, Mashhad University of Medical Science  
Major Advisor: A. Rajaii – Khorasani MD., FACS
- 8/2007-6/2008 Part time researcher of Division of stem cell lab, Pardis lab, Mashhad, Iran  
(Set up of Stem cell lab)  
Major Advisor: M.R. Abbaszadegan MT (ASCP), Ph.D.
- 2008 Secretary (2008- 2009) and researcher of Department of cardiothoracic surgery, Razavi hospital, After Ghaem Bridge, Mashhad, Iran  
Major Advisor: A. Rajaii – Khorasani MD., FACS
- 2008- 2010 Secretary of International Razavi Cardiovascular Surgery Congress in collaboration with Euro-Asian Bridge  
Razavi Hospital, Mashhad, Iran
- 2011 Secretary of 8<sup>th</sup> Annual meeting of Euro-Asian Bridge congress and 4<sup>th</sup> International Razavi Cardiovascular Surgery Congress and 3<sup>rd</sup> International perfusion congress  
Razavi Hospital, Mashhad, Iran
- 2011 Secretary of 5<sup>th</sup> International Razavi Cardiovascular Surgery Congress and 4<sup>th</sup> International perfusion Congress in collaboration with Euro-Asian Bridge  
Razavi Hospital, Mashhad, Iran
- 2013-2015 The head of 9<sup>th</sup> Day General hospital, Torbat heydariye, Iran
- 2021- Now The head of Rajaei heart Center operating rooms, Tehran, Iran
- 2021- 2022 The Head of Research and Development Department of Rajaei Heart Center, Tehran, Iran

## TECHNICAL AND SPECIALIZED SKILLS

### Cardiac Surgery

Cardiac assist device, Minimal invasive surgery, Valve surgery

My Recent operations:

<b>Operations since 1 Sept. 2018 to 1 Sept. 2022</b>	
<b>Operation</b>	<b>Number</b>
Isolated CABG	884
CABG + Valve	176
Mitral Valve replacement	405
Aortic valve replacement	355
Tricuspid valve replacement	29
Mitral Valve repair	167
Tricuspid valve repair	158
Minimal invasive	76
ECMO	40
Redo operation	122
Pulmonary endarterectomy (CTEPH)	10
ASD repair	92
Femoral vessels cannulation and repair	188
Heartmate 3	9
Bentall	86
David	11
Heart Transplantation	24
Heart harvest	40
Heart Tumor	36
Total Pericardiectomy	4

### **Laboratory**

Animal testing and cardiac surgery; Cell culture, DNA and RNA Extraction, Rt-PCR, PCR-RFLP, PCR-SSCP, Semiquantitative PCR, Electrophoresis, Real time PCR (incomplete), A

### **Computer**

Communication and networking, Word processing (Microsoft Word), Adobe Photoshop, Power point, Familiar with genetic software such as Sequencer, KODAK ID Image Analysis Software. Familiar with SPSS statistical and R Software, Solid work

### **Innovations**

Writing patent and managing the invention process

### **Languages**

Persian, English, Germany (Deutsch)

## TEACHING EXPERIENCES

Courses for cardiac surgery fellowship, Medical Genetics, Courses for medical students and operating room nurses, Patent writing

## AWARDS

- 2003 Best speaker of 5<sup>th</sup> annual meeting of Iranian medical students
- 2005 Best speaker of 1<sup>st</sup> student conference of biotechnology.
- 2005 Best student of the year in Iran (1385) (Get award from **President of Iran**)
- 2017 Silver medal of international trade fair” Ideas- Inventions- New products”. IENA 2017, Nuremberg, Germany
- 2017 ARCA Award of Union of Croatian innovators, Croatia

## PROFESSIONAL SOCIETIES

Member of Cardiothoracic surgery network (CTSNet)  
The Academy of Medical Sciences, I.R. of IRAN  
Member of Iranian of Cardiac surgery society

## BOOKS

- Rajaii- Khorasani A., **Daliri**. A Way to live after cardiac Surgery (In farsi), 2008
- Daliri M**. Two Chapter of Organ protection with perfusion technology (In Farsi). 2012
- Daliri M**. One chapter of Multimodal Imaging Atlas of Cardiac Masses, Elsevier, 2022

## PUBLICATIONS

### Articles

**Daliri M**, Amin A, Totonchi Z, Schmitto J, Naderi N, Yadollahi, M, Hosseini S. Possible role of ECMO in multiorgan failure and prolonged CPR: Aluminum Phosphide poisoning. Asia Pac J Med Toxicol 2020; 9(4):154-158.

Idhrees M, Hosseini S, Rezaei Y, Mousavizadeh M, **Daliri M**, Aljadayel HA, Bashir M. Frozen elephant trunk the way to go in acute aortic dissection in 2020. *J Card Surg*. 2021 Aug;36(8):3011-3012. doi: 10.1111/jocs.15606. Epub 2021 May 3. PMID: 33938581.

Bashir M, Abo Aljadayel H, Mousavizadeh M, **Daliri M**, Rezaei Y, Tan SZ, Mohammed I, Hosseini S. Correlation of coagulopathy and frozen elephant trunk use in aortic arch surgery: A systematic review and meta-analysis. *J Card Surg*. 2021 Dec;36(12):4699-4714. doi: 10.1111/jocs.16001. Epub 2021 Sep 22. PMID: 34550616.

Mousavizadeh M, Bashir M, Idhrees M, **Daliri M**, Aljadayel HA, Rezaei Y, Hosseini S. Neurologic outcome after aortic arch repair with frozen elephant trunk: The pivotal role of hypothermic circulatory arrest time. *J Card Surg*. 2021 Oct;36(10):3983-3984. doi: 10.1111/jocs.15779. Epub 2021 Jul 1. PMID: 34212431.

Mousavizadeh M, **Daliri M**, Aljadayel HA, Mohammed I, Rezaei Y, Bashir M, Hosseini S. Hypothermic circulatory arrest time affects neurological outcomes of frozen elephant trunk for acute type A aortic dissection: A systematic review and meta-analysis. *J Card Surg*. 2021 Sep;36(9):3337-3351. doi: 10.1111/jocs.15700. Epub 2021 Jun 14. PMID: 34125453.

Mahdavi M, Asadian S, Shahzadi H, **Daliri M**, Rezaeian N, Toloueitabar Y. Difficult weaning from cardiopulmonary bypass after surgical VSD closure: An unusual rare case. *Clin Case Rep*. 2020 Nov 6;9(1):144-147. doi: 10.1002/ccr3.3486. PMID: 33489150; PMCID: PMC7813056.

Rezaei Y, Bashir M, Mousavizadeh M, **Daliri M**, Aljadayel HA, Mohammed I, Hosseini S. Frozen elephant trunk in total arch replacement: A systematic review and meta-analysis of outcomes and aortic proximalization. *J Card Surg*. 2021 Jun;36(6):1922-1934. doi: 10.1111/jocs.15452. Epub 2021 Mar 4. PMID: 33665866.

**Daliri M**, Rajaii- Khorasani A, Jabbari Noghabi M, Yadollahi M. Development of an Iranian CPB based Risk Stratification Score Model, An Iranian Risk Stratification Model. *Multidiscip Cardio annal*. 2016 October; 7(1): e9058.

**Daliri M**, Yadollahi M, Jadbabaei AN. Cardiac compression devices: Alternative technology and innovative Concept. *Multidiscip Cardio annal*. 2017 April; 8(2): e12802.

**Daliri M**, Shafiei S, Zakavi SR, Dabbagh Kakhki VR, Sadeghi R. Application of (99m)Tc-denatured red blood cells scintigraphy in the evaluation of post-traumatic spleen auto-transplantation. *Rev Esp Med Nucl Imagen Mol*. 2013 May-Jun;32(3):209-10.

Kazemzadeh Gh, Modaghegh Mhs, Ravari H, **Daliri M**, Hoseini L, Nateghi M. Primary patency rate of native AV fistula: long term follow up. *Int J Clin Exp Med*. 2012;5(2):173-8.

Kazemzadeh Gh, Modaghegh Mhs, Ravari H, **Daliri M**, Hoseini L, Nateghi M. Primary patency rate of native AV fistula: long term follow up. Primery failure / Vascular access. *Global J Med Res*. 2011: 11(5)

Hamedanchi A, **Daliri M**. A vanishing cardiac mass. *J Thorac Oncol*. 2009 Feb;4(2):242.

Rajaii-Khorasani A, Esfahanizadeh J, **Daliri M**. Off pump left ventricular aneurysmorrhaphy: exo-aneurysmorrhaphy. Heart Surg Forum. 2008: 11 Supp 1: s309

Rajaii-Khorasani A, Fazlinejad A, sadeghipoor AR, **Daliri M**. In sinus aortic valve replacement. Heart Surg Forum. 2008: 11 Supp 1: s196

Rajaii-Khorasani A, **Daliri M**. Mashhad operation “a new surgical strategy for management of ascending aorta / valve and coactation”. Heart Surg Forum. 2008: 11 Supp 1: s404

Rajaii-Khorasani A, **Daliri M**. off-pump or on-pump, is the question. Heart Surg Forum. 2008: 11 Supp 1: s227

Gholamin M, Azadmanesh K, Pazouki N, **Daliri M**, Abbaszadegan MR. HTLV-1 tax polymorphism in pathogenesis of HTLV-1 associated disease. Iranian J Immunology. 2004: 1 Supp1: 82

## PATENTS

**Daliri M**. IR 139550140003000583 (2016)

**Daliri M**. WO 2017/178904 A1 (2017)

**Daliri M**. WO 2019/130066 A1 (2019)

**Daliri M**. US 10556049 B2 (2020)

## **ACADEMIC/RESEARCH INTERESTS:**

Ventricular Assist device

Cardiac surgery

Thoracic Surgery

Molecular genetics

Stem cells

Innovations