

## CURRICULUM VITAE

Alireza Ahmadi M.D.



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**Current Position:**

Professor of Pediatric Cardiology  
Pediatric Department, Isfahan University of Medical Sciences

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Assistant Manager of the Pediatric Cardiovascular Research

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**Education:**

2010: Observation for Interventional Pediatric Cardiology and Pediatric Cardiac Intensive Care, Pediatric Cardiology Department, Institute Of Jantung Negara, Malaysia, Kuala Lumpur.

1999- 2002: Clinical Pediatric Cardiology Fellow, Pediatric Cardiology Department, Iran University of Medical Sciences, Tehran.

1991- 1994: Resident in Pediatrics, Isfahan University of Medical Sciences.

1985- 1991: Medical student, Isfahan University of Medical Sciences.

1994: (January 2-4) Workshop on Research Methodology held by the Ministry of Health, Isfahan, Iran.

1994: (June 20-21) Workshop on Teaching Skills held by Isfahan University of Medical Sciences, Isfahan, Iran.

**Certifications:**

2010: Certificate of Observation in Interventional Pediatric Cardiology and Pediatric Cardiac Intensive Care, Pediatric Cardiology Department, Institute of Jantung Negara, Malaysia, Kuala Lumpur

2002: Fellowship in Pediatric Cardiology, Iran University of Medical Sciences, Tehran.

1994: Isfahan University of Medical Sciences, Workshop on Statistics and Research.

1994: Isfahan University of Medical Sciences, Workshop on Teaching Strategies and Assessment.

1994: Iranian Board of Pediatrics.

1991: Medical Degree, Isfahan University, Isfahan, Iran.

**Appointments and Positions:**

2023- Present: professor of Faculty of Medicine, Pediatric Department

2017- Present: Assistant Manager of the Pediatric Cardiovascular Research Center, Isfahan, Iran

2015- Present: Associate professor of Faculty of Medicine, pediatric department,

2012-2017: Head of Preventive Pediatric Cardiology Department, Isfahan Cardiovascular Research Center, Isfahan University of Medical Sciences.

2009- Present: Member of Faculty of Medicine, Isfahan University of Medical Sciences.

2009-2015: Assistant Professor of Pediatric department.

2002- 2009: Consultant Pediatric Cardiologist in Eisa ebne Maryam and Chamran Heart Hospital.

1995-1999: Assistant Professor of Pediatric and Social Medicine Department

1994: Assistant Professor and Consultant Pediatrician of Kordestan Medical University.

1991: Member of Iranian Medical Council, Iran, I.R.

2007- Present: Member of Iranian Society of Pediatric Cardiology.

1990-2003: Volunteer Member of Iranian Red Crescent. (Participation for visit of patients in Manjil and Bam city earth quack and also going to team visit of people in rural area of east Isfahan).

1995- 2009: Visit of patients in clinic of Charity Zahraye Marzieh in Isfahan.

1991: Visit of patients in clinic of Charity Asgarieh Hospital in Isfahan. Visit of patients in clinic of Charity Fatemieh in Isfahan.

### **Publications:**

#### **Books:**

Editor of "**Me and My Baby Heart Disease**" in Farsi, 2021

Editor of "**Manual of Pediatric Cardiac Intensive Care Unit**" in Farsi, 2012.

#### **Articles:**

1. **Ahmadi A**, Sabri MR, Navabi ZS, Effect of Face Mask on Pulmonary Artery Pressure during Echocardiography in Children and Adolescents. *Clinical and Experimental Pediatrics*. (In Press 2024)
2. **Ahmadi A**, Sabri MR, Ghaderian M, Dehghan B, Mahdavi C, Mohkamkar N, Cardiovascular complications in children with COVID-19: A systematic review, *Advanced Biomedical Research* (In Press 2024)
3. **Ahmadi A**, Ghaderian M, Noormohammadi H, Sabri MR, Dehghan B, Mahdavi C. Flow-Mediated Vasodilation and Carotid Intima-Media Thickness in Children with Acyanotic Congenital Heart Disease. *The Journal of Tehran University Heart Center* (In Press 2024).
4. Ghaderian M, **Ahmadi A**, Navabfar N, Sabri MR, Dehghan B, Mahdavi C. Flow-Mediated Dilatation in Children with Cyanotic Congenital Heart Disease and Correlation with Carotid-Intima-Media-Thickness, *ARYA Atherosclerosis Journal* (In Press 2024)
5. **Ahmadi A**, Sabri MR, Ramezani Nezhad D, Ghaderian M, Dehghan B, Mahdavi C, Sedighi M. Effect of Balloon Pulmonary Valvuloplasty on Longitudinal Changes in Right Ventricular Strain and Strain Rate in Pediatric Pulmonary Stenosis. *ARYA Atherosclerosis Journal* (In Press 2024).
6. Mehdi Ghaderian, Behzad Barekatin, Mohammad Reza Sabri, Silva Hovsepian, **Alireza Ahmadi**, Bahar Dehghan, Chehreh Mahdavi, Davood Ramezani Nezhad, Mostafa Arezoo. Assessment of Vascular Indices by Abdominal Aortic Ultrasonography in Preterm Neonates with Bronchopulmonary Dysplasia. *Pediatric Cardiology* 2023 September.
7. Bahar Dehghan, Mohsen Sedighi, Noushin Rostampour, Elham Hashemi, Silva Hovsepian, Mohammad Reza Sabri, Mehdi Ghaderian, Chehreh Mahdavi, **Alireza Ahmadi**, Azadeh Esnaashari, Childhood Obesity Is Associated With Subclinical Left Ventricular Dysfunction Detected by Speckle Tracking Echocardiography. *Clinical Pediatrics* 2023 September.

8. Dehghan B, Sabri MR, **Ahmadi A**, Ghaderian M, Mahdavi C, Ramezani Nejad D, Sattari M. Identifying the Factors Affecting the Incidence of Congenital Heart Disease Using Support Vector Machine and Particle Swarm Optimization. *Adv Biomed Res.* 2023 May 19;12:130.
9. Mehdi Ghaderian, Minoo Movahedi,1 Mohammad Reza Sabri, Bahar Dehghan, **Alireza Ahmadi**, Chehreh Mahdavi, Davood Ramezani Nejad, and Azadeh Esnaashari. Wolff-Parkinson-White Syndrome and Peripartum Cardiomyopathy. *Heart Views.* 2022 Jul-Sep; 23(3): 173–176.
10. Bahar Dehghan, **Alireza Ahmadi**, Shima Sarfarazi Moghadam, Mohammad Reza Sabri, Mehdi Ghaderian, Chehreh Mahdavi, Mohsen Sedighi, Hamid Bigdelian. Biventricular strain and strain rate impairment shortly after surgical repair of tetralogy of Fallot in children: A case-control study. *Health Sci Rep.* 2022 May 3;5(3).
11. **Ahmadi AR**, Sabri MR, Navabi ZS, Ghaderian M, Dehghan B. Development of Clinical Guideline for Early Detection of Critical Congenital Heart Diseases at Birth by Pulse Oximetry. *Tehran University Medical Journal.* 2022.
12. **Ahmadi AR**, Sabri MR, Navabi ZS, Eghbali-Babadi M, Khosravi AR, Mohammadifard N. Facilitating and Impeding Factors in Successful Weight Loss among the Adolescents with Overweight and Obesity: A Qualitative Study. *Journal of Isfahan Medical School.* 2022.
13. Zohreh Sadat Navabi, **Alireza Ahmadi**, Mohammad Reza Sabri, Fahimeh Bagheri Kholenjani, Mehdi Ghaderian, Bahar Dehghan, Chehreh Mahdavi. Factors Associated with Preventive Behaviors of Covid-19 among Children with Congenital Heart Disease: Application of Protection Motivation Theory, *Journal of Health Education and Health Promotion*, (2022)
14. Mohammad Reza Sabri, Chehreh Mahdavi, **Alireza Ahmadi**, et al. A 14.5-Year-Old Boy with Coronary Obstruction after Kawasaki Disease: A Case Report, *The Journal of Tehran University Heart Center*, 17(2):82-85 (2022).
15. **Alireza Ahmadi**, Mehdi Ghaderian, Mohammad Reza Sabri, Ladan Salamati, Azadeh Esnaashari, Two Neonates with Cyanotic Heart Disease and COVID-19. *Iranian Heart Journal*, Volume 23, Issue 3 July 2022 Pages 139-143.
16. Dehghan, B., **Ahmadi A.**, Sarfarazi Moghadam, S., (...), Sedighi, M., Bigdelian, H., Biventricular strain and strain rate impairment shortly after surgical repair of tetralogy of Fallot in children: A case-control study, *Health Science Reports*, 5(3), e613(2022).
17. Mehdi Ghaderian, **Alireza Ahmadi**, Mohammad Reza Sabri, Samin Behdad, Bahar Dehghan, Chehreh Mahdavi, Marjan Mansourian, Farzad Shahsanaei, Clinical outcome of right ventricular outflow tract stenting versus Blalock-Taussig shunt in Tetralogy of Fallot: a systematic review and meta-analysis, *Current Problems in Cardiology* Vol 46 (2021).
18. Shuchita Gupta, Yasir Bin Nisar, Sachiyo Yoshida, Fernando Althabe Tina Lavin, Hires Tiwary, Karen Edmond, Nigel Rollins, Valentina Baltag, David Ross, Rajiv Bahl\*, and Olufemi T. Oladapo, **Alireza Ahmadi** & et al. Global research priorities on COVID-19 for maternal, newborn, child and adolescent health, *Journal of Global Health*, 2021.
19. **Ali Reza Ahmadi**, Mohammad Reza Sabri, Zohreh Sadat Navabi, Mehdi Ghaderian, Bahar Dehghan, Chehreh Mahdavi, Somaieh Khodarahmi, Early Results of the Persian Registry of Cardiovascular Disease/Congenital Heart Disease (PROVE/CHD) in Isfahan, *The Journal of Tehran University Heart Center* Vol 15 (4) (2020) 258.
20. Mehdi Ghaderian, Bahar Dehghan, Mohammad Reza Sabri, **Alireza Ahmadi**, Ali Sadeghi-Lotfabad. Evaluation of cardiac function in children after percutaneous closure of atrial septal defect using speckle tracking echocardiography, *ARYA Atherosclerosis* 2020.

21. **Alireza Ahmadi**, Fahimeh Moheb-Mohammadi, Zohreh Sadat Navabi, Mehdi Dehghani, Hossein Heydari, Firoozeh Sajjadi, Somaieh Khodarahmi, The effects of aerobic training, resistance training, combined training, and healthy eating recommendations on lipid profile and body mass index in overweight and obese, *ARYA Atherosclerosis* 2020.
22. Mohammad Reza Sabri, Chehreh Mahdavi, Hamid Bigdelian **Ali Reza Ahmadi**, Mehdi Ghaderian, Bahar Dehghan. A case series of pulmonary hypertension in small infants with atrial septal defect, *ARYA Atherosclerosis* 2020.
23. Bahar Dehghan, Mohammad Reza Sabri, Mohsen Hosseinzadeh, **Alireza Ahmadi**, Mehdi Ghaderian, Nizal Sarrafzadegan, Hamidreza Roohafza, The commencement of congenital heart diseases registry in Isfahan, Iran: Methodology and design. *ARYA Atherosclerosis Vol 16, (5) (2020):244.*
24. **Alireza Ahmadi**, Mojgan Gharipour, Zohreh Sadat Navabi, Hossein Heydari, Risk factors of congenital heart diseases: A hospital-based case-control study in Isfahan, Iran. *ARYA Atherosclerosis Vol 16, No 1 (2020):1-6.*
25. S Saraf-Bank, **AR Ahmadi**, Z Paknahad, M Maracy , M Nourian, Effects of curcumin supplementation on markers of inflammation and oxidative stress among healthy overweight and obese girl adolescents: A randomized placebo-controlled clinical trial, *Phytotherapy Research J.* 2019;1–8.
26. M Ghaderian, MR Sabri, **AR Ahmadi**, B Dehghan, C Mahdavi, ZZ Ataei Efficacy and safety of using amplatzer for transcatheter closure of atrial septal defect in small children with less than 10 kg 2019, *ARYA Atherosclerosis* 15 (1), 27-32.
27. M Ghaderian, MR Sabri, **AR Ahmadi**, MR Alipour, B Dehghan, ... Midterm follow-up results of transcatheter interatrial septal defect closure 2019, *Heart views: the official journal of the Gulf Heart Association* 20 (1), 1
28. Mazloomi-Mahmoodabad, S.S., Navabi, Z.S., **Ahmadi A.**, Askarishahi, M. The effect of educational intervention on weight loss in adolescents with overweight and obesity: Application of the theory of planned behavior 2017 *Journal: ARYA Atherosclerosis*, 13(4), pp. 176-183.
29. Mohammadreza Sabri, Hamid Bigdelian, Mohsen Hosseinzadeh, **Alireza Ahmadi**, Mehdi Ghaderian, Mohammad Shoja, Comparison of the therapeutic effects and side effects of tadalafil and sildenafil after surgery in young infants with pulmonary arterial hypertension due to systemic-to-pulmonary shunts. 2017. *Cardiol Young*, Nov;27(9):1686-1693
30. Sabri, M. R., **Alireza Ahmadi** et al. "Effect of Tadalafil on Myocardial and Endothelial Function and Exercise Performance After Modified Fontan Operation." *Pediatric cardiology*, 2016, 37:55–61
31. Bahar Dehghan, Mohammad Reza Sabri, Shaghayegh Haghjooy Javanmard, **Ali Reza Ahmadi**, Marjan Mansourian. "Neurally mediated syncope: Is it really an endothelial dysfunction? (2016)." *Anatol J Cardiol*, 16 (9).
32. Sabri, M. R, **Alireza Ahmadi.**, et al. "Does Vitamin C improve endothelial function in patients with Kawasaki disease?" 2015, *Journal of research in medical sciences: the official journal of Isfahan University of Medical Sciences* 20(1): 32.
33. Ghaderian, M., sabri MR, **Alireza Ahmadi**, et al. "Percutaneous retrieval of an intracardiac central venous port fragment using snare with triple loops." *Journal of research in medical sciences: the official journal of Isfahan University of Medical Sciences* 2015, 20(1): 97.

34. **Ahmadi A.**, Sabri MR, et al. "An isolated left common carotid artery from the main pulmonary artery in a neonate with aortic valve atresia." *Cardiology in the Young*: 2015, 1-4
35. Mohammad Reza Sabri, Esfandiar Najafi Tavana, **Alireza Ahmadi**, Mahin Hashemipour. The Effect of Vitamin C on Endothelial Function of Children with Type 1 Diabetes: An Experimental Study. *Int J Prev Med* 2014; 5:999- 1004.
36. Mohammad Reza Sabri, Esfandiar Najafi Tavana, **Alireza Ahmadi**, Alaleh Gheisari, Effect of vitamin C on endothelial function of children with chronic renal failure, *Adv Biomed Res* 2015;4:260.
37. **Alireza Ahmadi**, Mohammadreza Sabri, Mohammad Hashemi, Mojgan Gharipour, Transcatheter occlusion of patent ductus arteriosus: success rate and complications 5 years experiences: single center in isfahan, *Acta Biomed.* 2014 Aug 20;85(2):116-20
38. **Alireza Ahmadi**, Mohammadreza Sabri, Hamid Bigdelian, Bahar Dehghan, Mojgan Gharipour. Comparison of cost-effectiveness and postoperative outcome of device closure and open surgery closure techniques for treatment of patent ductus arteriosus. *ARYA Atheroscler* 2014; Volume 10, Issue 1
39. Mojgan Gharipour, Masoumeh Sadeghi, Minoos Dianatkah, Shirin Bidmeshgi, **Alireza Ahmadi**, Marzieh Tahri, and Nizal Sarrafzadegan. The cut-off values of anthropometric indices for identifying subjects at risk for metabolic syndrome in Iranian elderly men, *J Obes.* 2014; 2014.
40. **Alireza Ahmadi**, Mohammadreza Sabri, Percutaneous balloon valvuloplasty inpatients with pulmonary valve stenosis: a single center experiment. *Journal of the Pakistan Medical Association* (03/2012); 62(3 Suppl 2): S58-61.

#### **Congresses:**

##### **A. International:**

1. 18th Asian Pacific Congress of Cardiology, Kuala Lumpur, May 5-8, 2011.
2. Ahmadi A. Results of Patent Ductus Arteriosus (PDA) occlusion in Isfahan, International Pediatric Cardiology Congress, Cairns, Australia, 23/ June/2009.

##### **B. National:**

1. Z. Navabi, **A. Ahmadi**, Investigate Physicians' Awareness about Newborn Pulse Oximetry Screening for Early Detection of Congenital Heart Disease, 13 Middle East Cardiovascular Congress, 6<sup>th</sup> Congress of Clinical Cardiovascular Therapeutics, 21-24 October 2021, Shiraz-Iran.
2. Z. Navabi, **A. Ahmadi**, Determination of preventive behaviors for COVID-19 based on protection motivation theory among children with congenital heart disease in Isfahan, Iran. 13 Middle East Cardiovascular Congress, 6<sup>th</sup> Congress of Clinical Cardiovascular Therapeutics, 21-24 October 2021, Shiraz-Iran.
3. **A. Ahmadi** et al. Risk Factors of Congenital Heart Diseases, A Case-Control Study. 7TH Iranian joint cardiovascular congress-Rajaie conference center- Tehran IRAN, 27 Feb-1 March 2019.
4. M. Ghaderian, **A. Ahmadi**, Percutaneous Pulmonary Balloon Valvotomy. 7TH Iranian joint cardiovascular congress-Rajaie conference center- Tehran IRAN. 27 Feb-1 March 2019.

5. **A Amadi** et al. Case Report a patient with tetralogy Fallot and use of sent for severe distal RPA Stenosis, The CASPIN MEETING 2019- Razavi Hospital- Iran- Mashhad, 9-11 October 2019.
6. B. Dehghan, MR. Sabri, M. Hosseinzadeh, **Alireza Ahmadi**. The commencement of congenital heart diseases registry in Isfahan, Iran: Methodology and design
7. S.Mazloomy-Mahmoodabad, ZS. Navabi, **A. Ahmadi**. The effect of educational intervention on weight loss in adolescents with overweight and obesity: Application of the theory of planned behavior, The 3th international & 8th national Congress of health education and promotion, Isfahan, Iran. 23-25 Aug 2017.
8. S. Mazloomy Mahmoodabad, ZS. Navabi, **A. Ahmadi**. Investigating Theory of Planned Behavior Constructs in Predicting Intention and Behavior to lose Weight in Adolescents with Overweight and Obesity. The 3th international & 8th national Congress of health education and promotion, Isfahan, Iran. 23-25 Aug 2017.
9. S. Mazloomy Mahmoodabad, ZS. Navabi, **A. Ahmadi** Role of factors of subject norms & perceived behavior control on weight lose behavior in adolescence with overweight & obesity. The 9th Iranian Congress of health education and promotion & 2th Congress of Health literacy, Mashhad, Iran. September 6-8, 2018.
10. **Ahmadi** et al. Early outcome and prognosis of complete surgical correction of Tetralogy of Fallot and its main determinants, 4th Iranian Cardiovascular Joint Congress March 2016, Tehran, Iran.
11. **Ahmadi** et al. The Effects of Vitamin E and Omega-3 PUFAs on Endothelial Function among Adolescents with Metabolic Syndrome, 4th International Preventive Cardiology Congress September 2015, Shiraz, Iran.
12. **Ahmadi A**. PDA Closure, different methods.4th Iranian Congress of Pediatric Cardiology April 2013, Tehran, Iran.
13. **Ahmadi** et al. Balloon Pulmonary Valvoplasty. The 4th Razavi International Cardiovascular Surgery Congress,8th Euro-Asian Bridge Annual Meeting, 3th International Perfusion Congress, September 2011, Razavi Hoispital, Mashhad, Iran.
14. **Ahmadi A**. Results of Patent Ductus Arteriosus occlusion with Coil and Amplatzer in Isfahan. 3rd Congress of Iranian Pediatric Cardiology, April 2011 Tehran, Iran.
15. **Ahmadi A**, Cardiac Arrest after Congenital Heart Surgery. 1st International Congress of Iranian Society of Cardiac Anesthesiologists. May, 2011, Isfahan, Iran.
16. **Ahmadi A**. Is There Any Difference for Perioperative Care of Neonate? 1<sup>st</sup> International Congress of Iranian Society of Cardiac Anesthesiologists. May, 2011, Isfahan, Iran.
17. **Ahmadi A**. Results of Pulmonary Balloon Valvoplasty in congenital Pulmonary Stenosis in Isfahan.2nd Iranian Congress of Pediatric cardiology. March 2009 Tehran, Iran.
18. **Ahmadi A**. Anomalous Left Coronary Artery from the Pulmonary Artery (ALCAPA syndrome). 2nd Iranian congress of Pediatric cardiology. March 2009 Tehran, Iran.

19. **Ahmadi A**, et al. Results of Surgical operations on Patients with Congenital Heart Disease. 15th Congress of the Iranian Heart Association in collaboration with the French Society of Cardiology and the French Society of Thoracic and Cardiovascular Surgery, November 2006, Tehran, Iran.
20. **Ahmadi A**, et al. Results of Cardiopulmonary Resuscitation in Pediatric Intensive Care Unit. 14th Congress of the Iranian Heart Association in collaboration with British Cardiac Society. November 2004, Tehran, Iran.
21. **Ahmadi A**, et al. L- Carnitine in Children with Idiopathic Dilated Cardiomyopathy. 14th Congress of the Iranian Heart Association in collaboration with British Cardiac Society. November 2004, Tehran, Iran.
22. **Ahmadi A**. Outcome of Senning operation in 32 patients with TGA at Shahid Rajai Heart Hospital. 12th Congress of Iranian Heart Association in Collaboration with Mayo Clinic & the Cleveland Clinic Foundation. November 2000, Tehran, Iran