

GENERAL BIOGRAPHICAL INFORMATION

PERSONAL

Name	Iki Adachi, M.D.
Date of Birth	December 4, 1974
Citizenship	Japan

EDUCATION

Undergraduate Education N/A

Medical Education or Graduate Education

2000	M.D. Osaka University School of Medicine Osaka, Japan
------	---

Postgraduate Training

2000 – 2001	Surgical Intern Osaka University Hospital Osaka, Japan
2001 – 2003	Resident in General Surgery Osaka Rosai Hospital Osaka, Japan
2003 – 2005	Resident in Cardiovascular Surgery National Cardiovascular Center Osaka, Japan
2005 – 2006	Chief Resident in Cardiovascular Surgery National Cardiovascular Center Osaka, Japan
2006	Clinical Fellow in Cardiovascular Surgery Osaka University Hospital Osaka, Japan
2006 – 2008	Clinical Research Fellow, Cardiac Morphology Unit National Heart & Lung Institute Imperial College London and Royal Brompton Hospital London, United Kingdom

ACADEMIC APPOINTMENTS

Current Faculty Positions

2020 – Present	Clayton Endowed Chair, Congenital Heart Surgery, Texas Children's Hospital, Houston, Texas
2020 – Present	Surgical Director, Heart Transplant Program Texas Children's Hospital, Houston, Texas

2018 – Present	Associate Professor of Surgery and Pediatrics Michael E. DeBakey Department of Surgery and Pediatrics Baylor College of Medicine, Houston, Texas
2017 – Present	Director, Mechanical Circulatory Support Program Texas Children’s Hospital, Houston, Texas
2012 – Present	Associate Surgeon, Congenital Heart Surgery Texas Children’s Hospital, Houston, Texas
2011 – Present	Cardiovascular Surgeon Texas Heart Institute St. Luke’s Episcopal Hospital, Houston, Texas

Previous Faculty Positions

2012 – 2018	Assistant Professor of Surgery and Pediatrics Michael E. DeBakey Department of Surgery Baylor College of Medicine, Houston, Texas
2012 – 2017	Co-Director, Mechanical Circulatory Support Program Texas Children’s Hospital, Houston, Texas
2010 – 2012	Instructor, Congenital Heart Surgery Baylor College of Medicine, Houston, Texas
2009 – 2010	Staff Surgeon Pediatric & Adult Congenital Heart Disease Program Department of Cardiovascular Surgery Osaka University Hospital, Osaka, Japan

Current Courtesy Faculty Appointments at Other Institutions N/A

OTHER ADVANCED TRAINING AND EXPERIENCE

Formal Sabbatical Leave N/A

Other Specialized Training Following Academic Appointment N/A

OTHER INFORMATION

Honors and Awards

2004	Young Investigator’s Award Osaka University Surgical Resident Conference
2005	Research Fellowship Grant Uehara Memorial Foundation, Tokyo
2006	Best Resident Award National Cardiovascular Center, Osaka
2006	Cardiovascular Surgeon’s Award Japanese Circulation Society
2007	Francis Fontan Prize

	European Association of Cardio-Thoracic Surgery
2006	Young Investigator's Award, Finalist European Association of Cardio-Thoracic Surgery
2006	Research Fellowship Grant Osaka University Foundation, Osaka
2010	Branislav Radovancevic Memorial Fellowship Award International Society for Heart and Lung Transplantation

Board Eligibility / Certification

2000	Japanese License Registration No. 411312 Ministry of Health, Labor, and Welfare
2008	ECFMG certificate <ul style="list-style-type: none"> • USMLE Step 1 Passing Score: 94/226 • USMLE Step 2CK Passing Score: 95/230 • USMLE Step 2CS Passing Score • USMLE Step 3 Passing Score: 87/209
2009	Board Certified in General Surgery Japan Surgical Society No. 1915881
2010	Board Certified in Cardiovascular Surgery Japanese Board of Cardiovascular Surgery No. 5000442
2010	Texas Board of Medical Examiners License No. 42954
2012	Texas Board of Medical Examiners License No. 43778
2013	Texas Board of Medical Examiners License No. 44120
2014	Texas Board of Medical Examiners License No. 44458
2015	Texas Board of Medical Examiners License No. 44876
2016	Texas Board of Medical Examiners License No. 45326
2017 to 2022	Texas Board of Medical Examiners License No. R0983 (Permanent license since 2017)

Role as a consultant/proctor

1. Serving as a proctor and consultant for Berlin Heart Inc. (The Woodland, TX).
2. Serving as a proctor and consultant for HeartWare/Medtronic Inc. (Framingham, MA).
3. Serving as a proctor and consultant for Jarvik Inc. (New York, NY).
4. Serving as a proctor and consultant for Bivacor Inc. (Houston, TX).
5. Serving as a consultant for New England Research Institute (Watertown, MA) for the NIH-funded PumpKIN (Pump for Kids, Infants, and Neonates) Trial.
6. Serving as a consultant for Sony-Olympus, Corp (Tokyo, Japan).

RESEARCH SUPPORT

1. **Technical Title of Project:** Substrate for atrial arrhythmias in congenitally malformed hearts
Name of Funding Agency: European Association of Cardio-Thoracic Surgery, 2006 Francis Fontan Prize Grant PI
Investigator Relationship: PI
Dates of Funding: October 2006 thru September 2007
Annual Direct Cost for Overall Period: Euro 30,000
Specify Grant or Contract: Grant
2. **Technical Title of Project:** Quantitative assessment of cardiac morphology in congenitally malformed hearts
Name of Funding Agency: Uehara Memorial Foundation, 2006
Investigator Relationship: PI
Dates of Funding: January 2007 thru December 2007
Annual Direct Cost for Overall Period: JPN 3,400,000
Specify Grant or Contract: Grant
3. **Technical Title of Project:** Pediatric LVAD Recovery: An Analysis at the Cellular & Sub-Cellular Level
Name of Funding Agency: International Society of Heart and Lung Transplantation, 2010 Branoslav Radovancevic Memorial Fellowship Grant
Investigator Relationship: PI
Dates of Funding: April 2010 through April 2011
Annual Direct Cost for Overall Period: \$75,000
Specify Grant or Contract: Grant
4. **Technical Title of Project:** Ex Vivo Perfusion of Donor Lungs Before Transplantation: Development of a "Pediatric-Specific" System
Name of Funding Agency: Baylor College of Medicine / Texas Children's Hospital
Investigator Relationship: PI
Dates of Funding: May 2011
Annual Direct Cost for Overall Period: \$50,000
Specify Grant or Contract: Grant
5. **Technical Title of Project:** 2012 Dunn Foundation; Multi-layered Cardiac Patches from Dynamic Surfaces
Name of Funding Agency: Dunn Foundation
Investigator Relationship: Co-PI
Dates of Funding: 2012
Annual Direct Cost for Overall Period: \$98,000
Specify Grant or Contract: Grant
6. **Technical Title of Project:** 2012 Baylor Seed Grant; Ex Vivo Lung Perfusion for Pediatric Lung Transplantation: Pre-Clinical Trial
Name of Funding Agency: Baylor College of Medicine / Texas Children's Hospital
Investigator Relationship: PI
Dates of Funding: 2012
Annual Direct Cost for Overall Period: \$50,000
Specify Grant or Contract: Grant
7. **Technical Title of Project:** Alterations in Pediatric Myocardium with VAD Therapy: Genetic analysis
Name of Funding Agency: Baylor College of Medicine / Texas Children's Hospital
Investigator Relationship: PI
Dates of Funding: April 2015 through April 2016
Annual Direct Cost for Overall Period: \$50,000
Specify Grant or Contract: Grant

8. **Technical Title of Project:** Preclinical Assessment of a miniaturized pediatric continuous-flow device in chronic sheep model (the Jarvik Infant 2015 Ventricular Assist Device).
Name of Funding Agency: National Heart, Lung and Blood Institute
Investigator Relationship: Co-PI
Dates of Funding: June 2015 through May 2016
Total Direct Cost for Overall Period: \$1,114,000
Specify Grant or Contract: Contract
9. **Technical Title of Project:** Preclinical Assessment of a miniaturized pediatric continuous-flow device in Low Flow Condition (the Jarvik Infant 2015 Ventricular Assist Device).
Name of Funding Agency: National Heart, Lung and Blood Institute
Investigator Relationship: PI
Dates of Funding: June 2016 through August 2016
Total Direct Cost for Overall Period: \$178,000
Specify Grant or Contract: Contract
10. **Technical Title of Project:** Investigation of Novel Biomarkers and Treatment Targets for Pediatric Heart Failure
Name of Funding Agency: U.S. Department of Defense: US Army Medical Research Acquisition Activity
Investigator Relationship: Co-PI
Dates of Funding: October 2017 through September 2020
Annual Direct Cost for Overall Period: \$926,000
Specify Grant or Contract: Grant
11. **Technical Title of Project:** Impella on ECMO for left heart decompression: Superior approach to conventional balloon atrial septostomy
Name of Funding Agency: Abiomed, Inc.
Investigator Relationship: PI
Dates of Funding: August 2018 through September 2019
Annual Direct Cost for Overall Period: \$92,299
Specify Grant or Contract: Grant
12. **Technical Title of Project:** Early Detection of Cardiac Allograft Vasculopathy in post-transplant Pediatric Hearts via Single-Cell Genomics
Name of Funding Agency: AHA/EH Research Awards in Pediatric Heart Transplantation (824138)
Investigator Relationship: Co-PI
Dates of Funding: July 2021 through June 2024
Annual Direct Cost for Overall Period: \$681,819
Specify Grant or Contract: Grant
13. **Technical Title of Project:** Urgent and unmet need for a long-term solution for increasing pediatric heart failure population: BiVACOR Rotary Total Artificial Heart (1R44HL156370-01)
Name of Funding Agency: National Heart, Lung and Blood Institute
Investigator Relationship: PI
Dates of Funding: 2021 through 2023
Annual Direct Cost for Overall Period: \$1,965,590
Specify Grant or Contract: Grant

NATIONAL SCIENTIFIC PARTICIPATION

Journal Editorial Boards

1. Journal of Thoracic and Cardiovascular Surgery
2. American Society for Artificial Internal Organs
3. Journal of Heart and Lung Transplant

Professional Societies

2000 – Present Member, Japanese Association of Surgery
2000 – Present Member, Japanese Association of Thoracic Surgery
2000 – Present Member, Japanese Society for Cardiovascular Surgery
2004 – Present Member, Japanese Society of Pediatric and Cardiac Surgery
2006 – Present Member, European Association of Cardio-thoracic Surgery
2010 – Present Member, Japanese Association of Young Cardiac Surgeons
2011 – Present Member, International Society for Heart and Lung Transplantation
2012 – Present Member, Texas Transplantation Society
2014 – Present Member, American Academy of Pediatrics
2014 – Present Member, ASAIO
2018 – Present Honorary Member, Korean Society of Cardiology
2021 – Present Member, American Association of Thoracic Surgery

Invited Lectures, Presentations, Research Seminars

See “Lectures” (III.C)

PUBLICATIONS

ARTICLES

Published in Peer-Review Journals

1. **Adachi I**, Fujikawa M, Miyauchi A, Nezu R, Fujii M, Yoshikawa S. A case of esophageal perforation associated with cervical spine injury; repair with a pedicled flap of longus colli muscle. *Shujutsu*. 2003;57:1023-1026.
2. Naka Y, Yoshikawa K, Nezu R, Fujikawa M, Fujii M, Emoto T, Yoshioka Y, Komaki T, Yokota T, **Adachi I**, Kamei A. A case of peritoneal metastasis of gastric cancer responding to TS-1, administered for four consecutive weeks with two-week rests. *Gan To Kagaku Ryoho*. 2003;30:855-8. [In Japanese]
3. **Adachi I**, Ishizaka T, Ichikawa H, Kagisaki K, Kogaki S, Matsuda H. Midterm result of a case after Starnes operation. *Jpn J Thorac Cardiovasc Surg*. 2004;52:272-5.
4. **Adachi I**, Kobayashi J, Nakajima H, Niwaya K, Ishibashi-Ueda H, Bando K, Tagusari O. Coronary embolism and subsequent myocardial abscess complicating ventricular aneurysm and tachycardia. *Ann Thorac Surg*. 2005;80:2366-8.
5. **Adachi I**, Ogino H, Imanaka H, Matsuda H, Minatoya K, Sasaki H. Aortic root replacement in a patient with pulmonary dysfunction caused by severe chest deformity associated with Marfan syndrome. *J Thorac Cardiovasc Surg*. 2005;130:213-5.
6. **Adachi I**, Yagihara T, Kagisaki K, Hagino I, Ishizaka T, Koh M, Uemura H, Kitamura S. Fontan operation with a viable and growing conduit using pedicled autologous pericardial roll: serial changes in conduit geometry. *J Thorac Cardiovasc Surg*. 2005;130:1517-22.
7. **Adachi I**, Matsuda H, Ogino H, Minatoya K, Sasaki H, Yagihara T. A case of a true aneurysm of the brachial artery in a patient with a radio-cephalic fistula and cholesterol apheresis. *Eur J Vasc Endovasc Surg Extra*. 2005;10:117-119.
8. **Adachi I**, Yagihara T, Ishibashi-Ueda H, Kitamura S. Immunohistological findings for an extracardiac conduit in Fontan pathway constructed with pedicled autologous pericardium. *Eur J Cardiothorac Surg*. 2006;29:1059-60.
9. **Adachi I**, Ishibashi-Ueda H, Yagihara T, Kagisaki K, Hagino I, Ishizaka T, Uemura H. Immunohistology of pedicled autologous pericardium 9 years after implantation for an extracardiac conduit in Fontan pathway

-comparison with in-situ pericardium and pulmonary arterial tissue from the same patient-. J Thorac Cardiovasc Surg. 2007;133:1101-3.

10. **Adachi I**, Yagihara T, Kagisaki K, Hagino I, Ishizaka T, Kobayashi J, Kitamura S, Uemura H. Preoperative small pulmonary artery did not affect the midterm results of Fontan operation. Eur J Cardiothorac Surg. 2007;32:156-62.
11. Uemura H, **Adachi I**, Kagisaki K, Shikata F, and Yagihara T. Intermediate results after a modified Yasui procedure with the Lecompte maneuver. Ann Thorac Surg. 2007;84:284-6.
12. Uemura H, Yagihara T, **Adachi I**, Kagisaki K, and Shikata F. Conversion to total cavopulmonary connection after failed one and one-half ventricular repair. Ann Thorac Surg. 2007;84:666-8.
13. Matsui H, **Adachi I**, Uemura H, Gardiner H, Ho SY. Anatomy of coarctation, hypoplastic and interrupted aortic arch: relevance to interventional/surgical treatment. Expert Rev Cardiovasc Ther. 2007;5:871-80.
14. **Adachi I**, Kagisaki K, Yagihara T, Hagino I, Ishizaka T, Kobayashi J, Kitamura S. Unroofing aortic intramural left coronary artery arising from right pulmonary artery. Ann Thorac Surg. 2008;85:675-7.
15. **Adachi I**, Uemura H, Yagihara T. Reply to ovroutski and alexi-meskishvili. Eur J Cardiothorac Surg. 2008;33:951-2.
16. Uemura H, Kagisaki K, **Adachi I**, Takeda K, Hagino I, Yagihara T, Kitamura S. Aortic valvar involvement in patients undergoing closure of ventricular septal defect via the pulmonary trunk. Int J Cardiol. 2008;129:26-31.
17. Uemura H, **Adachi I**, McCarthy KP, Koh M, Ho SY. Is the morphologic mitral valve in discordant atrioventricular connections always normal? Ann Thorac Surg. 2008;86:1328-33.
18. Uemura H, Ho SY, **Adachi I**, Yagihara T. Morphologic spectrum of ventriculo-arterial connection in hearts with double inlet left ventricle: implications for surgical procedures. Ann Thorac Surg. 2008;86:1321-7.
19. **Adachi I**, Uemura H, McCarthy KP, Ho SY. Morphologic features of atrioventricular septal defect with only ventricular component: further observations pertinent to surgical repair. J Thorac Cardiovasc Surg. 2009;137:132-8.
20. **Adachi I**, Ho SY, McCarthy KP, Uemura H. Coronary blood supply of the inferior wall of the right ventricle in hearts with Ebstein malformation: relevance to "vertical" plication. J Thorac Cardiovasc Surg. 2008;136:1437-41.
21. **Adachi I**, Uemura H, McCarthy KP, Ho SY. Surgical anatomy of atrioventricular septal defect. Asian Cardiovasc Thorac Ann. 2008;16:497-502.
22. **Adachi I**, Ho SY, McCarthy KP, Uemura H. Ventricular scoop in atrioventricular septal defect: relevance to "simplified" single-patch method. Ann Thorac Surg. 2009;87:198-203.
23. **Adachi I**, Ho SY, McCarthy KP, Mullen M, Uemura H. Morphologic findings of the aortic homograft implanted in the tricuspid position. Ann Thorac Surg. 2009;87:1951-2.
24. **Adachi I**, Uemura H, McCarthy KP, Seale A, Ho SY. Relationship between orifices of pulmonary and coronary arteries in common arterial trunk. Eur J Cardiothorac Surg. 2009;35:594-9.
25. **Adachi I**, Ho SY, Bartelings MM, McCarthy KP, Seale A, Uemura H. Common arterial trunk with atrioventricular septal defect: New observations pertinent to repair. Ann Thorac Surg. 2009;87:1495-9.
26. **Adachi I**, Uemura H, Ho SY. Reply to the Editor. J Thorac Cardiovasc Surg. 2009;138:515.

27. **Adachi I**, Seale A, Uemura H, McCarthy KP, Kimberley P, Ho SY. Morphologic spectrum of truncal valvar origin relative to the ventricular septum: correlation with the size of ventricular septal defect. *J Thorac Cardiovasc Surg.* 2009;138:1283-9.
28. **Adachi I**, Matsumiya G, Sakaguchi T, Kuratani T, Miyagawa S, Yamauchi T, Saito S, Sawa Y. Ventricular assist device infection necessitating device exchange following extensive myocardial resection. *J Artif Organs.* 2009;12:271-3.
29. Lim E, Harris G, Patel A, **Adachi I**, Edmonds L, Song F. Preoperative versus postoperative chemotherapy in patients with resectable non-small cell lung cancer: systematic review and indirect comparison meta-analysis of randomized trials. *J Thorac Oncol.* 2009;4:1380-8.
30. **Adachi I**, Ho SY, McCarthy KP, Uemura H. Left ventricular outflow tract obstruction following the modified single patch repair of atrioventricular septal defects: teasing fact from fiction (reply). *Ann Thorac Surg.* 2010;89:1340-1.
31. **Adachi I**, Ichikawa H, Ueno T, Hori Y, Kuratani T, Matsumiya G, Sawa Y. Histologic findings in a dilated atrium serving as a Fontan pathway for 23 years. *Ann Thorac Surg.* 2010;89:2022-4.
32. **Adachi I**, Kuratani T, Shirakawa Y, Ueno T, Matsumiya G, Sawa Y. Application of a home-made stent graft to the pulmonary arteries in a patient with total cavo-pulmonary connection. *J Vasc Surg.* 2010;51:1268-71.
33. **Adachi I**, Ueno T, Hori Y, Sawa Y. Alterations in the medial layer of the main pulmonary artery in a patient with longstanding Fontan circulation. *Interact CardioVasc Thorac Surg.* 2010;11:682-3.
34. **Adachi I**, Ueno T, Ichikawa H, Kagisaki K, Ide H, Hoashi T, Kogaki S, Ohuchi H, Yagihara T, Sawa Y. Effect of ventricular volume before unloading in a systemic ventricle supporting the Fontan circulation. *Am J Cardiol.* 2011;107:459-65.
35. Morales DL, **Adachi I**, Heinle JS, Fraser CD Jr. A New ERA: Supporting the Failing Fontan Circulation with intracorporeal systemic ventricular assist devices (SVAD). *J Thorac Cardiovasc Surg.* 2011;142:e138-40.
36. **Adachi I**, Fraser CD Jr. Mechanical circulatory support for infants and small children. *Semin Thorac Cardiovasc Surg Pediatr Card Surg Annu.* 2011;14:38-44.
37. **Adachi I**, Krishnamurthy R, Morales DL. A double aortic arch mimicking a right aortic arch with an aberrant subclavian artery. *J Vasc Surg.* 2011;54:1151-3.
38. Zafar F, Khan MS, Heinle JS, **Adachi I**, McKenzie ED, Schechter MG, Mallory GB, Morales DL. Does donor arterial partial pressure of oxygen affect outcomes after lung transplantation? A review of more than 12,000 lung transplants. *J Thorac Cardiovasc Surg.* 2012;143:919-25.
39. Morales DL, Khan MS, Gottlieb EA, Krishnamurthy R, Dreyer WJ, **Adachi I**. Implantation of total artificial heart in congenital heart disease. *Semin Thorac Cardiovasc Surg.* 2012 Summer;24:142-3.
40. Khan MS, Mery CM, Zafar F, **Adachi I**, Heinle JS, Cabrera AG, Fraser CD Jr, Morales DL. Is mechanically bridging patients with a failing cardiac graft to retransplantation an effective therapy? Analysis of the United Network of Organ Sharing database. *J Heart Lung Transplant.* 2012;31:1192-8
41. Lowry AW, **Adachi I**, Gregoric ID, Jeewa A, Morales DL. The potential to avoid heart transplantation in children: outpatient bridge to recovery with an intracorporeal continuous-flow left ventricular assist device in a 14-year-old. *Congenit Heart Dis.* 2012;7:E91-6.

42. Khan MS, Heinle JS, Samayoa AX, **Adachi I**, Schechter MG, Mallory GB, Morales DL. Is lung transplantation survival better in infants? Analysis of over 80 infants. *J Heart Lung Transplant*. 2013;32:44-9.
43. Rossano JW, Woods RK, Berger S, Gaynor JW, Ghanayem N, Morales DL, Ravishankar C, Mitchell ME, Shah TK, Mahr C, Tweddell JS, **Adachi I**, Zangwill S, Wearden PD, Icenogle TB, Jaquiss RD, Rychik J. Mechanical support as failure intervention in patients with cavopulmonary shunts (MFICS): rationale and aims of a new registry of mechanical circulatory support in single ventricle patients. *Congenit Heart Dis*. 2013;8:182-6.
44. Stiller B, **Adachi I**, Fraser CD Jr. Pediatric ventricular assist devices. *Pediatr Crit Care Med*. 2013;14(5 Suppl 1):S20-6.
45. Lowry AW, Olabiyi OO, **Adachi I**, Moodie DS, Knudson JD. Coronary artery anatomy in congenital heart disease. *Congenit Heart Dis*. 2013;8:187-202.
46. Orr Y, Jeewa A, Claire McGarry M, Dean McKenzie E, **Adachi I**. Upsizing of a Berlin Heart EXCOR pediatric left ventricular assist device to achieve adequate flow requirement. *J Heart Lung Transplant*. 2013;32:845-6.
47. Naito Y, **Adachi I**. The multi-disciplinary medicine in pediatric cardiac surgery at Texas Children's Hospital. *Nihon Geka Gakkai Zasshi*. 2013;114:117-9.
48. Annich G, **Adachi I**. Anticoagulation for Pediatric Mechanical Circulatory Support. Joint Statement: Pediatrics Cardiac Intensive Case Society and Extracorporeal Life Support Organization. 2013 *Pediatr Crit Care Med*. 2013;14(5 Suppl 1):S37-42.
49. Bronicki RA, **Adachi I**. The ventricular assist device: bridge to transplant. Bridge to recovery? Bridge to beyond? *Pediatr Crit Care Med*. 2013;14:910-1.
50. Ezon DS, Khan MS, **Adachi I**, Jeewa A, Morris SA, Nagy CZ, Morales DL, Heinle JS. Pediatric ventricular assist device use as a bridge to transplantation does not affect long-term quality of life. *J Thorac Cardiovasc Surg*. 2014;147:1334-43.
51. **Adachi I**, Fraser CD. Berlin Heart EXCOR Food and Drug Administration Investigational Device Exemption Trial. *Semin Thorac Cardiovasc Surg*. 2013 Summer;25:100-6.
52. Ueda A, **Adachi I**, McCarthy KP, Li W, Ho SY, Uemura H. Substrates of atrial arrhythmias: histological insights from patients with congenital heart disease. *Int J Cardiol*. 2013;168:2481-6.
53. Shiina Y, Matsuyama TA, **Adachi I**, Li W, Gatzoulis MA, Uemura H. Surgery in a contemporary adult of patients with Ebstein malformation of tricuspid valve and relation with ECG markers, atrial fibrosis and arrhythmic load. *Int J Cardiol*. 2013;168:1551-2.
54. Wingate J, **Adachi I**, Mossad E. Case 14--2014: Tetralogy of Fallot with severe cyanosis in an infant with trisomy 18: ethical dilemmas in the perioperative period. *J Cardiothorac Vasc Anesth*. 2014;28:1677-85.
55. Mery CM, Guzmán-Pruneda FA, Carberry KE, Watrin CH, McChesney GR, Chan JG, **Adachi I**, Heinle JS, McKenzie ED, Fraser CD Jr. Aortic arch advancement for aortic coarctation and hypoplastic aortic arch in neonates and infants. *Ann Thorac Surg*. 2014;98:625-33.
56. Philip J, Burgman C, Bavare A, Akcan-Arkan A, Price JF, **Adachi I**, Shekerdeman LS. Nature of the underlying heart disease affects survival in pediatric patients undergoing extracorporeal cardiopulmonary resuscitation. *J Thorac Cardiovasc Surg*. 2014;148:2367-72.

57. Guzman-Pruneda FA, Orr Y, Trost JG, Zhang W, Das S, Melicoff E, Maddox J, Nugent M, Mery CM, **Adachi I**, Schechter MG, Mallory GB, Morales DL, Heinle JS, McKenzie ED. Bronchial Artery Revascularization and En Bloc Lung Transplant in Children. *J Heart Lung Transplant*. 2016;35:122-129.
58. **Adachi I**, Morales DS. Implantation of total artificial heart in congenital heart disease. *J Vis Exp*. 2014;18:89.
59. Lorts A, Zafar F, **Adachi I**, Morales DL. Mechanical assist devices in neonates and infants. *Semin Thorac Cardiovasc Surg Pediatr Card Surg Annu*. 2014;17:91-5.
60. Mery CM, Khan MS, Guzmán-Pruneda FA, Verm R, Umakanthan R, Watrin CH, **Adachi I**, Heinle JS, McKenzie ED, Fraser CD Jr. Contemporary results of surgical repair of recurrent aortic arch obstruction. *Ann Thorac Surg*. 2014;98:133-40.
61. Asaki SY, Dean McKenzie E, Elias B, **Adachi I**. Rectus-Sparing Technique for Driveline Insertion of Ventricular Assist Device. *Ann Thorac Surg*. 2015;100:1920-2.
62. Tunuguntla H, Denfield SW, McKenzie ED, **Adachi I**. Mitral valve replacement for inflow obstruction of left ventricular assist device in a child with restrictive cardiomyopathy. *J Thorac Cardiovasc Surg*. 2016;151:e11-3.
63. Mery CM, Guzmán-Pruneda FA, De León LE, Zhang W, Terwelp MD, Bocchini CE, **Adachi I**, Heinle JS, McKenzie ED, Fraser CD Jr. Risk factors for development of endocarditis and reintervention in patients undergoing right ventricle to pulmonary artery valved conduit placement. *J Thorac Cardiovasc Surg*. 2016;151:432-9, 441.e1-2.
64. Mery CM, Guzmán-Pruneda FA, Trost JG Jr, McLaughlin E, Smith BM, Parekh DR, **Adachi I**, Heinle JS, McKenzie ED, Fraser CD Jr. Contemporary Results of Aortic Coarctation Repair Through Left Thoracotomy. *Ann Thorac Surg*. 2015;100:1039-46.
65. Weia BC, **Adachi I**, Jacot JG. Clinical and Molecular Comparison of Pediatric and Adult Reverse Remodeling With Ventricular Assist Devices. *Artif Organs*. 2015;39:691-700
66. Khan MS, Zhang W, Taylor RA, Dean McKenzie E, Mallory GB, Schechter MG, Morales DL, Heinle JS, **Adachi I**. Survival in pediatric lung transplantation: The effect of center volume and expertise. *J Heart Lung Transplant*. 2015;34:1073-81.
67. Schweiger M, Vanderpluym C, Jeewa A, Canter CE, Jansz P, Parrino PE, Miera O, Schmitto J, Mehegan M, **Adachi I**, Hübler M, Zimpfer D. Outpatient management of intra-corporeal left ventricular assist device system in children: a multi-center experience. *Am J Transplant*. 2015;15:453-60.
68. **Adachi I**, Khan MS, Guzmán-Pruneda FA, Fraser CD 3rd, Mery CM, Denfield SW, Dreyer WJ, Morales DL, McKenzie ED, Heinle JS, Fraser CD Jr. Evolution and impact of ventricular assist device program on children awaiting heart transplantation. *Ann Thorac Surg*. 2015;99:635-40.
69. **Adachi I**, Guzmán-Pruneda FA, Jeewa A, Fraser CD Jr, McKenzie ED. A modified implantation technique of the HeartWare ventricular assist device for pediatric patients. *J Heart Lung Transplant*. 2015;34:134-6.
70. Goldberg JF, Vesel TP, Jeewa A, **Adachi I**. Pulmonary Artery Band Reduces Left Atrial Pressure in Dilated Cardiomyopathy. *Ann Thorac Surg*. 2015;100:e35-6.
71. **Adachi I**, Burki S, Zafar F, Morales DL. Pediatric ventricular assist devices. *J Thorac Dis*. 2015;7:2194-202.
72. **Adachi I**, Guzmán-Pruneda FA, Khan MS, McKenzie ED, Fraser CD Jr. Ventricular Assist Device in Children with Cardiac Graft Failure. *ASAIO J*. 2015;61:729-30.

73. Tunuguntla H, Denfield SW, McKenzie ED, **Adachi I**. Mitral valve replacement for inflow obstruction of left ventricular assist device in a child with restrictive cardiomyopathy. *J Thorac Cardiovasc Surg*. 2016;151:e11-3.
74. **Adachi I**, Jaquiss RD. Mechanical Circulatory Support in Children. *Curr Cardiol Rev*. 2016;12:132-40.
75. Goldberg JF, **Adachi I**. Pulmonary Artery Band as Bridge to Ventricular Assist Device by Preconditioning of the Right Ventricle. *Ann Thorac Surg*. 2016;101:1244-5.
76. McKenzie ED, Roeser ME, Thompson JL, De León LE, **Adachi I**, Heinle JS, Mery CM, Fraser CD Jr. Descending Aortic Translocation for Relief of Distal Tracheal and Proximal Bronchial Compression. *Ann Thorac Surg*. 2016;102:859-62.
77. Loar RW, Maskatia SA, McLaughlin ES, Mott AR, **Adachi I**, Fraser CD. Complex Surgical Repair of a Flail Tricuspid Valve After Chest Wall Trauma in a Pediatric Patient. *Ann Thorac Surg*. 2016;101:e65-7.
78. **Adachi I**, Jeewa A, Burki S, McKenzie ED, Fraser CD Jr. Outpatient management of a child with bidirectional Glenn shunts supported with implantable continuous-flow ventricular assist device. *J Heart Lung Transplant*. 2016;35:688-90.
79. Baldwin JT, **Adachi I**, Teal J, Almond CA, Jaquiss RD, Massicotte MP, Dasse K, Siami FS, Zak V, Kaltman JR, Mahle WT, Jarvik R. Closing in on the PumpKIN Trial of the Jarvik 2015 Ventricular Assist Device. *Semin Thorac Cardiovasc Surg Pediatr Card Surg Annu*. 2017;20:9-15.
80. **Adachi I**, Burki S, Fraser CD Jr. Current Status of Pediatric Ventricular Assist Device Support. *Semin Thorac Cardiovasc Surg Pediatr Card Surg Annu*. 2017;20:2-8.
81. **Adachi I**, Williams E, Jeewa A, Elias B, McKenzie ED. Mechanically assisted Fontan completion: A new approach for the failing Glenn circulation due to isolated ventricular dysfunction. *J Heart Lung Transplant*. 2016;35:1380-1381.
82. Lara DA, Jeewa A, Elias BA, McCullum EO, Denfield SW, Dreyer WJ, **Adachi I**. Titanium Plug Closure after HeartWare Ventricular Assist Device Explantation in a 15-Year-Old Girl: First U.S. Experience. *Tex Heart Inst J*. 2017;44:66-69.
83. Morales DL, Zafar F, Almond CS, Canter C, Fynn-Thompson F, Conway J, **Adachi I**, Lorts A. Berlin Heart EXCOR use in patients with congenital heart disease. *J Heart Lung Transplant*. 2017;36:1209-1216.
84. Jeewa A, Morris SA, Dreyer WJ, **Adachi I**, Denfield SW, McKenzie ED. Visual Diagnosis: A Child with Presumed Reactive Airway Disease, Pectus Carinatum, and Aortic Root Dilatation. *Pediatr Rev*. 2017;38:e1-e5.
85. De León LE, Mery CM, Verm RA, Trujillo-Díaz D, Patro A, Guzmán-Pruneda FA, **Adachi I**, Heinle JS, Kane LC, McKenzie ED, Fraser CD Jr. Mid-Term Outcomes in Patients with Congenitally Corrected Transposition of the Great Arteries: A Single Center Experience. *J Am Coll Surg*. 2017;224:707-715.
86. Mery CM, Nieto RM, De León LE, Morris SA, Zhang W, Colquitt JL, **Adachi I**, Kane LC, Heinle JS, McKenzie ED, Fraser CD Jr. The Role of Echocardiography and Intracardiac Exploration in the Evaluation of Candidacy for Biventricular Repair in Patients With Borderline Left Heart Structures. *Ann Thorac Surg*. 2017;103:853-861.
87. **Adachi I**. Continuous-flow ventricular assist device support in children: A paradigm change. *J Thorac Cardiovasc Surg*. 2017;154:1358-1361.
88. **Adachi I**, Burki S, Horne D, Costas GG, Spangler T, Jarvik R, Teal J, Baldwin JT, Dasse K, Massicotte MP, Conger J, Cohn WE, Fraser CD Jr. The miniaturized pediatric continuous-flow device: Preclinical assessment in the chronic sheep model. *J Thorac Cardiovasc Surg*. 2017;154:291-300.

89. Burki S, **Adachi I**. Pediatric ventricular assist devices: current challenges and future prospects. *Vasc Health Risk Manag.* 2017;13:177-185.
90. Puri K, Jeewa A, **Adachi I**, Denfield SW, Cabrera AG, Price JF, Humlicek TJ, Burki S, Dreyer WJ, Shah MD. Prevalence of Anemia and Iron Deficiency in Pediatric Patients on Ventricular Assist Devices. *ASAIO J.* 2018;64:795-801.
91. Beckerman Z, Tunuguntla H, Fraser CD, **Adachi I**. Cannulation strategy for centrifugal-flow ventricular assist device implantation late after arterial switch operation. *Interact Cardiovasc Thorac Surg.* 2018;26:532-534.
92. **Adachi I**, Kostousov V, Hensch L, Chacon-Portillo MA, Teruya J. Management of Hemostasis for Pediatric Patients on Ventricular-Assist Devices. *Semin Thromb Hemost.* 2018;44:30-37.
93. Mery CM, De León LE, Rodriguez JR, Nieto RM, Zhang W, **Adachi I**, Heinle JS, Kane LC, McKenzie ED, Fraser CD Jr. Effect of Gastrointestinal Malformations on the Outcomes of Patients With Congenital Heart Disease. *Ann Thorac Surg.* 2017;104:1590-1596.
94. Scully BB, Goss M, Liu H, Keuht ML, **Adachi I**, McKenzie ED, Fraser CD, Melicoff E, Mallory GB, Heinle JS, Rana A. Waiting list outcomes in pediatric lung transplantation: Poor results for children listed in adult transplant programs. *J Heart Lung Transplant.* 2017;36:1201-1208.
95. Hoover JD, Wong WW, **Adachi I**, Brandt P, Jeewa A. Energy Intake and Expenditure in Children With Heart Failure. *Pediatr Crit Care Med.* 2018;19:e627-e630.
96. Lorts A, Eghtesady P, Mehegan M, **Adachi I**, Villa C, Davies R, Gossett JG, Kanter K, Alejos J, Koehl D, Cantor RS, Morales DLS. Outcomes of children supported with devices labeled as "temporary" or short term: A report from the Pediatric Interagency Registry for Mechanical Circulatory Support. *J Heart Lung Transplant.* 2018;37:54-60.
97. Mery CM, Guzmán-Pruneda FA, De León LE, Zhang W, Kuo FH, Carpenter KL, Stringer LD, **Adachi I**, Heinle JS, McKenzie ED, Fraser CD Jr., Hanson DS. Risk Factors for Development and Progression of Scoliosis after Pediatric Cardiothoracic Surgery. *Ann Thorac Surg.* 2018;105:1835-1841.
98. Chen PC, Zea-Vera R, Burgman C, McKenzie ED, Elias B, **Adachi I**. Use of an Extracorporeal Centrifugal Pump with the Berlin Cannulas. *ASAIO J.* 2019;65:527-529.
99. Choudhry S, Liou A, Jeewa A, Elias BA, **Adachi I**. Pump Washout Procedure in a Child With Centrifugal-Flow Ventricular Assist Device Support. *Artif Organs.* 2018;42:577-578.
100. Mery CM, Zea-Vera R, Chacon-Portillo MA, Zhu H, Kyle WB, **Adachi I**, Heinle JS, Fraser CD Jr. Contemporary Outcomes after Repair of Isolated and Complex Complete Atrioventricular Septal Defect. *Ann Thorac Surg.* 2018;106:1429-1437.
101. Shugh SB, Tunuguntla HP, Jeewa A, Elias BA, **Adachi I**. Reinitiation of centrifugal ventricular assist device support after failed attempt at cardiac recovery. *J Heart Lung Transplant.* 2018;37:1041-1042.
102. Binsalamah ZM, Chacon-Portillo MA, Sanyahumbi A, **Adachi I**, Heinle JS, Fraser CD Jr, Mery CM. Circumflex aorta with double aortic arch in an infant. *J Card Surg.* 2018;33:292-295.
103. Conway J, Miera O, **Adachi I**, Maeda K, Eghtesady P, Henderson HT, Guleserian K, Fan CS, Kirk R; Pediatric VAD Investigators. Worldwide Experience of a Durable Centrifugal Flow Pump in Pediatric Patients. *Semin Thorac Cardiovasc Surg.* 2018 Autumn;30:327-335.

104. Chan CHH, Diab S, Moody K, Frazier OH, Sampaio LC, Fraser CD Jr, Teruya J, **Adachi I**. In Vitro Hemocompatibility Evaluation of Ventricular Assist Devices in Pediatric Flow Conditions: A Benchmark Study. *Artif Organs*. 2018;42:1028-1034.
105. Chacon-Portillo MA, Zea-Vera R, Zhu H, Dickerson HA, **Adachi I**, Heinle JS, Fraser CD Jr, Mery CM. Pulsatile Glenn as long-term palliation for single ventricle physiology patients. *Congenit Heart Dis*. 2018;13:927-934.
106. Fraser CD Jr, Chacon-Portillo MA, Zea-Vera R, John R, Elias BA, Heinle JS, Mery CM, Tunuguntla HP, Cabrera AG, Price JF, Denfield SW, Dreyer WJ, Qureshi AM, **Adachi I**. Ventricular Assist Device Support: Single Pediatric Institution Experience Over Two Decades. *Ann Thorac Surg*. 2019;107:829-836.
107. Broda CR, Taylor DA, **Adachi I**. Progress in experimental and clinical subpulmonary assistance for Fontan circulation. *J Thorac Cardiovasc Surg*. 2018;156:1949-1956.
108. Goldberg JF, Schlosser RS, Walrath JG, Morris SA, Elias BA, Price JF, Cabrera AG, Denfield SW, Dreyer WJ, Wang Y, **Adachi I**, Jeewa A. Improved 6 Minute Walk Distance and Brain-Type Natriuretic Peptide After Continuous-Flow Ventricular Assist Device Placement in Children. *ASAIO J*. 2019;65:725-730.
109. **Adachi I**, Zea-Vera R, Tunuguntla H, Denfield SW, Elias B, John R, Teruya J, Fraser CD Jr. Centrifugal-flow ventricular assist device support in children: A single-center experience. *J Thorac Cardiovasc Surg*. 2019;157:1609-1617.
110. Morales DLS, Rossano JW, VanderPluym C, Lorts A, Cantor R, St Louis JD, Koeh D, Sutcliffe DL, **Adachi I**, Kirklin JK, Rosenthal DN, Blume ED; Pedimacs Investigators. Third Annual Pediatric Interagency Registry for Mechanical Circulatory Support (Pedimacs) Report: Preimplant Characteristics and Outcomes. *Ann Thorac Surg*. 2019;107:993-1004.
111. **Adachi I**. Ventricular assist device support for complex congenital heart disease: Inspiration from history of surgical evolution. *J Heart Lung Transplant*. 2019;38:431-432.
112. Mery CM, Zea-Vera R, Chacon-Portillo MA, Zhang W, Binder MS, Kyle WB, **Adachi I**, Heinle JS, Fraser CD Jr. Contemporary results after repair of partial and transitional atrioventricular septal defects. *J Thorac Cardiovasc Surg*. 2019;157:1117-1127.
113. **Adachi I**, Spinner JA, Tunuguntla HP, Elias BA, Heinle JS. The miniaturized pediatric continuous-flow device: A successful bridge to heart transplant. *J Heart Lung Transplant*. 2019;38:789-793.
114. Moffett BS, Anders M, Humlicek T, Galati M, Teruya J, **Adachi I**, Tume S. Antithrombin Population Pharmacokinetics in Pediatric Ventricular Assist Device Patients. *Pediatr Crit Care Med*. 2019;20:1157-1163.
115. Broda CR, **Adachi I**. Commentary: Mechanical support for the subpulmonary circulation of Fontan physiology-A step in the right direction. *J Thorac Cardiovasc Surg*. 2019;158:1436-1437.
116. Mery CM, De León LE, Trujillo-Diaz D, Ocampo EC, Dickerson HA, Zhu H, **Adachi I**, Heinle JS, Fraser CD Jr, Ermis PR. Contemporary Outcomes of the Fontan Operation: A Large Single-Institution Cohort. *Ann Thorac Surg*. 2019;108:1439-1446.
117. Binsalamah ZM, Ibarra C, John R, Zea-Vera R, **Adachi I**, Imamura M, McKenzie ED, Fraser CD Jr, Mery CM, Heinle JS. Contemporary Mid-term Outcomes in Pediatric Patients undergoing Vascular Ring Repair. *Ann Thorac Surg*. 2020;109:566-572.
118. Broda CR, **Adachi I**. Commentary: Fontan assist device support: Road map to "stage 4" palliation. *J Thorac Cardiovasc Surg*. 2019;158:1422-1423.

119. Binsalamah ZM, Spigel ZA, Zhu H, Kim MB, Chacon-Portillo MA, **Adachi I**, Imamura M, Mery CM, Mckenzie ED, Fraser CD, Heinle JS. Reoperation after isolated subaortic membrane resection. *Cardiol Young*. 2019;29:1391-1396.
120. Spigel Z, Qureshi AM, Morris SA, Mery CM, Sexson-Tejtel SK, Zea-Vera R, Binsalamah Z, Imamura M, Heinle J, **Adachi I**. Right Ventricle Dependent Coronary Circulation: Location of Obstruction is Associated with Survival. *Ann Thorac Surg*. 2020;109:1480-1487.
121. Sinha S, Khan A, Qureshi AM, Suh W, Laks H, Aboulhosn J, Biniwale R, **Adachi I**, Fernando A, Levi D. Application of transcatheter valves for aortic valve replacement in pediatric patients: A case series. *Catheter Cardiovasc Interv*. 2020;95:253-261.
122. **Adachi I**. Pediatric ventricular assist device support as a permanent therapy: Clinical reality. *J Thorac Cardiovasc Surg*. 2019;158:1438-1441.
123. Aggarwal V, Tume SC, Rodriguez M, **Adachi I**, Cabrera AG, Tunuguntla H, Qureshi AM. Pulmonary artery pulsatility index predicts prolonged inotrope/pulmonary vasodilator use after implantation of continuous flow left ventricular assist device. *Congenit Heart Dis*. 2019;14:1130-1137.
124. Hope K, **Adachi I**. Commentary: To remove (a heart), or not to remove, that is the question. *J Thorac Cardiovasc Surg*. 2020;159:1083-1084.
125. Teruya J, Hensch L, Bruzdoski K, **Adachi I**, Hui SR, Kostousov V. Monitoring bivalirudin therapy in children on extracorporeal circulatory support devices: Thromboelastometry versus routine coagulation testing. *Thromb Res*. 2019;186:54-57.
126. Fraser CD Jr, Chacon-Portillo MA, Well A, Zea-Vera R, Binsalamah Z, **Adachi I**, Mery CM, Heinle JS. Twenty-Three Year Experience with the Arterial Switch Operation: Expectations and Long-Term Outcomes. *Semin Thorac Cardiovasc Surg*. 2020 Summer;32:292-299.
127. Greenleaf CE, Binsalamah ZM, **Adachi I**. Replacement of left ventricular assist device inflow cannula using a right angle atrial cannula. *Ann Thorac Surg*. 2020;109:e389.
128. Moon J, **Adachi I**. Commentary: Two sides of the same coin: Competing biventricular assist device outcomes from Pediatric Interagency Registry for Mechanical Circulatory Support data. *J Thorac Cardiovasc Surg*. 2020;160:1311-1312.
129. Di Molfetta A, **Adachi I**, Ferrari G, Gagliardi MG, Perri G, Iacobelli R, Qureshi AM, Di Pasquale L, Vera RZ, Guccione P, Di Molfetta M, Chiariello GA, Filippelli S, Amodeo A. Left ventricular unloading during extracorporeal membrane oxygenation - Impella versus atrial septal defect: A simulation study. *Int J Artif Organs*. 2020;43:663-670.
130. Kirk R, Dipchand AI, Davies RR, Miera O, Chapman G, Conway J, Denfield S, Gossett JG, Johnson J, McCulloch M, Schweiger M, Zimpfer D, Ablonczy L, **Adachi I**, Albert D, Alexander P, Amdani S, Amodeo A, Azeka E, Ballweg J, Beasley G, Böhmer J, Butler A, Camino M, Castro J, Chen S, Chrisant M, Christen U, Danziger-Isakov L, Das B, Everitt M, Feingold B, Fenton M, Garcia-Guereta L, Godown J, Gupta D, Irving C, Joong A, Kemna M, Khulbey SK, Kindel S, Knecht K, Lal AK, Lin K, Lord K, Möller T, Nandi D, Niesse O, Peng DM, Pérez-Blanco A, Punnoose A, Reinhardt Z, Rosenthal D, Scales A, Scheel J, Shih R, Smith J, Smits J, Thul J, Weintraub R, Zangwill S, Zuckerman WA. ISHLT consensus statement on donor organ acceptability and management in pediatric heart transplantation. *J Heart Lung Transplant*. 2020; 39:331-341.
131. **Adachi I**. Ventricular Assist Device Implantation for Single Ventricle. *Operative Techniques in Thoracic and Cardiovascular Surgery* 25:74-84.
132. Spigel, Zachary A., Cho, Junsang, **Adachi, I**. Current status of pediatric mechanical circulatory support. *Curr Opin Organ Transplant*. 2020;25:231-236.

133. Griselli M, Sinha R, Jang S, Perri G, **Adachi I**. Mechanical Circulatory Support for Single Ventricle Failure Front Cardiovasc Med. 2018 Aug 28 doi: 10.3389/fcvm.2018.00115
134. Purifoy E, **Adachi I**. Commentary: It isn't easy being single. J Thorac Cardiovasc Surg. 2020 May; 159(5):1999-2000.
135. Binsalamah ZM, Ibarra C, John R, Zea-Vera R, **Adachi I**, Imamura M, McKenzie ED, Fraser CD Jr, Mery CM, Heinle JS. Contemporary Midterm Outcomes in Pediatric Patients Undergoing Vascular Ring Repair. Ann Thorac Surg. 2020;109:566-572.
136. Spigel ZA, Qureshi AM, Morris SA, Mery CM, Sexson-Tejtel SK, Zea-Vera R, Binsalamah ZM, Imamura M, Heinle JS, **Adachi I**. Right Ventricle-Dependent Coronary Circulation: Location of Obstruction Is Associated With Survival. Ann Thorac Surg. 2020 May;109(5):1480-1487.
137. Teruya J, Hensch L, Bruzdoski K, **Adachi I**, Hui SR, Kostousov V. Monitoring bivalirudin therapy in children on extracorporeal circulatory support devices: Thromboelastometry versus routine coagulation testing. Thromb Res. 2020;186:54-57.
138. Spigel ZA, Razzouk A, Nigro JJ, Karamlou TB, Kavarana MN, Roeser ME, **Adachi I**. Pulmonary Artery Banding for Children With Dilated Cardiomyopathy: US Experience. Semin Thorac Cardiovasc Surg Pediatr Card Surg Annu. 2020;23:69-76.
139. Fraser CD Jr, Chacon-Portillo MA, Well A, Zea-Vera R, Binsalamah Z, **Adachi I**, Mery CM, Heinle JS. Twenty-Three-Year Experience With the Arterial Switch Operation: Expectations and Long-Term Outcomes. Semin Thorac Cardiovasc Surg. 2020;32:292-299.
140. Greenleaf CE, Binsalamah ZM, **Adachi I**. Replacement of Left Ventricular Assist Device Inflow Cannula Using a Right Angle Atrial Cannula. Ann Thorac Surg. 2020;109:e389.
141. Yoneyama F, Denfield S, **Adachi I**. Commentary: Pediatric myocardial recovery with a ventricular assist device: "Chance favors the prepared mind". JTCVS Tech. 2020;5:93-94.
142. **Adachi I**, Tunuguntla H, Elias B, Masand PM, Tume SC. Atriopulmonary connection for mechanically assisted Fontan completion: Classic technique for modern strategy. JTCVS Tech. 2020;3:307-309.
143. **Adachi I**, Heinle J. Commentary: Evolution of pediatric living-donor lung transplant: Adaptation to unique environment. JTCVS Tech. 2020;3:317-318.
144. Yoneyama F, **Adachi I**. Commentary: A unified chain of command for organized team performance. JTCVS Tech. 2020;3:298.
145. Yoneyama F, **Adachi I**. Commentary: Aortic homograft for Warden procedure: Insatiable curiosity. JTCVS Tech. 2020;4:274.
146. Chacon-Portillo MA, Mossad EB, Zea-Vera R, Beckerman Z, Binsalamah ZM, **Adachi I**, Mery CM, Imamura M, Heinle JS, Fraser CD Jr. Sickle Cell-Related Complications in Patients Undergoing Cardiopulmonary Bypass. World J Pediatr Congenit Heart Surg. 2020;11:565-571.
147. Morales DLS, **Adachi I**, Peng DM, Sinha P, Lorts A, Fields K, Conway J, St Louis JD, Cantor R, Koehl D, Jacobs JP, Kirklin JK, Blume ED, Rossano JW; Pedimacs Investigators. Fourth Annual Pediatric Interagency Registry for Mechanical Circulatory Support (Pedimacs) Report. Ann Thorac Surg. 2020;110:1819-1831.

148. Spigel ZA, Kalustian AB, Binsalamah ZM, Caldarone CA, Imamura M, **Adachi I**, Heinle JS, McKenzie ED. Recurrent Pulmonary Artery Interventions Following the Norwood Procedure Are Not Associated With Conduit Type. *Semin Thorac Cardiovasc Surg.* 2021;33:195-201.
149. Binsalamah ZM, Ibarra C, Edmunds EE, Qureshi AM, **Adachi I**, Caldarone CA, Imamura M, McKenzie ED, Heinle JS, Spigel ZA. Younger Age at Operation Is Associated With Reinterventions After the Warden Procedure. *Ann Thorac Surg.* 2021;111:2059-2065.
150. Spigel ZA, Kalustian A, Ghanayem N, Imamura M, **Adachi I**, McKenzie ED, Heinle J, Caldarone CA, Binsalamah ZM. Predictors of Transplant-Free Survival After the Norwood Procedure. *Ann Thorac Surg.* 2021;112:638-644.
151. Ibarra C, Spigel Z, John R, Thomason AB, Binsalamah Z, **Adachi I**, Heinle JS, McKenzie ED, Caldarone CA, Imamura M. Mechanical Mitral Valve Replacements in the Pediatric Population. *Ann Thorac Surg.* 2021;112:626-631.
152. Ibarra C, Spigel Z, John R, Binsalamah ZM, **Adachi I**, Heinle JS, Caldarone CA, McKenzie ED, Imamura M. Surgical Techniques in Management of Supravalvular Aortic Stenosis in Children. *Ann Thorac Surg.* 2021;111:2021-2027.
153. Moon J, **Adachi I**. Commentary: Ventricular assist device support in an early infancy with single ventricle: Transformation from salvage to elective. *J Thorac Cardiovasc Surg.* 2021;162:416-417.
154. Binsalamah ZM, Thomason A, Ibarra C, Spigel Z, **Adachi I**, Barton KE, Edmunds E, Caldarone CA, Imamura M, Heinle JS. Midterm outcomes of pulmonary artery sling repair with and without tracheoplasty. *Cardiol Young.* 2021;31:52-59.
155. Bonilla-Ramirez C, Ibarra C, Binsalamah ZM, **Adachi I**, Heinle JS, McKenzie ED, Caldarone CA, Imamura M. Coronary Artery Anomalies Are Associated With Increased Mortality After Truncus Arteriosus Repair. *Ann Thorac Surg.* 2021;112:2005-2011.
156. Spinner JA, Denfield SW, Puri K, Morris SA, Costello JM, Moffett BS, Wang Y, Shekerdemian LS, Tunuguntla HP, Price JF, Heinle JS, **Adachi I**, Dreyer WJ, Cabrera AG. Hospital outcomes for pediatric heart transplant recipients undergoing tracheostomy: A multi-institutional analysis. *Pediatr Transplant.* 2021;25:e13904.
157. Zink J, Spigel ZA, Ibarra C, Gottlieb EA, **Adachi I**, Mery CM, Imamura M, Heinle JS, McKenzie ED, Fraser CD, Binsalamah ZM. The intraoperative use of recombinant activated factor VII in arterial switch operations. *Cardiol Young.* 2021;31:386-390.
158. Puri K, **Adachi I**. Mechanical Support for The Failing Single Ventricle at Pre-Fontan Stage: Current State of The Field and Future Directions. *Semin Thorac Cardiovasc Surg Pediatr Card Surg Annu.* 2021;24:10-18.
159. Roche SL, Crossland DS, **Adachi I**, Broda C, Jansen K, Hickey E. Mechanical Circulatory Support for the Failing Sub-Aortic Right Ventricle in Adults. *Semin Thorac Cardiovasc Surg Pediatr Card Surg Annu.* 2021;24:2-9.
160. Spinner JA, Tunuguntla HP, Tume SC, Elias BA, McMullen J, John R, Choudhry S, Price JF, Denfield SW, Dreyer WJ, **Adachi I**. "Compassionate" Cases of the Jarvik 2015 Ventricular Assist Device. *ASAIO J.* 2021;67:1036-1043.
161. Bonilla-Ramirez C, Saliccioli KB, Qureshi AM, **Adachi I**, Imamura M, Heinle JS, McKenzie ED, Caldarone CA, Allen HD, Binsalamah ZM. Smaller right pulmonary artery is associated with longer survival time without scimitar vein repair. *J Card Surg.* 2021;36:1352-1360.

162. Hope KD, John MM, **Adachi I**. Commentary: The fate of pediatric cardiac palliations: Beyond the convergence. *J Thorac Cardiovasc Surg*. 2021;162:1373-1374.
163. Nathan M, Levine JC, Van Rompay MI, Lambert LM, Trachtenberg FL, Colan SD, **Adachi I**, Anderson BR, Bacha EA, Eckhauser A, Gaynor JW, Graham EM, Goot B, Jacobs JP, John R, Kaltman JR, Kanter KR, Mery CM, LuAnn Minich L, Ohye R, Overman D, Pizarro C, Raghuvver G, Schamberger MS, Schwartz SM, Narasimhan SL, Taylor MD, Wang K, Newburger JW; Pediatric Heart Network Investigators. Impact of Major Residual Lesions on Outcomes After Surgery for Congenital Heart Disease. *J Am Coll Cardiol*. 2021;77:2382-2394.
164. Lorts A, Conway J, Schweiger M, **Adachi I**, Amdani S, Auerbach SR, Barr C, Bleiweis MS, Blume ED, Burstein DS, Cedars A, Chen S, Cousino-Hood MK, Daly KP, Danziger-Isakov LA, DUBYK N, Eastaugh L, Friedland-Little J, Gajarski R, Hasan A, Hawkins B, Jeewa A, Kindel SJ, Kogaki S, Lantz J, Law SP, Maeda K, Mathew J, May LJ, Miera O, Murray J, Niebler RA, O'Connor MJ, Özbaran M, Peng DM, Philip J, Reardon LC, Rosenthal DN, Rossano J, Salazar L, Schumacher KR, Simpson KE, Stiller B, Sutcliffe DL, Tunuguntla H, VanderPluym C, Villa C, Wearden PD, Zafar F, Zimpfer D, Zinn MD, Morales IRD, Cowger J, Buchholz H, Amodeo A. ISHLT consensus statement for the selection and management of pediatric and congenital heart disease patients on ventricular assist devices Endorsed by the American Heart Association. *J Heart Lung Transplant*. 2021;40:709-732.
165. Bonilla-Ramirez C, Ibarra C, Binsalamah ZM, **Adachi I**, Heinle JS, McKenzie ED, Caldarone CA, Imamura M. Right Ventricle to Pulmonary Artery Conduit Size Is Associated with Conduit and Pulmonary Artery Reinterventions After Truncus Arteriosus Repair. *Semin Thorac Cardiovasc Surg*. 2021:S1043-0679(21)00265-3.
166. Moon J, Tunuguntla H, **Adachi I**. Waveform-guided management of implantable ventricular assist device in a small child. *JTCVS Tech*. 2021;8:177-181.
167. Stephens A, McKenzie D, Heinle J, Melicoff-Portillo E, Gazzaneo C, Coleman R, **Adachi I**. Central extracorporeal membrane oxygenation to lung transplantation after remote arterial switch operation. *JTCVS Tech*. 2021;10:452-455.
168. Spigel ZA, **Adachi I**, Binsalamah ZM, Parekh D, Qureshi AM. Transcatheter pulmonic valve implantation in adult patients with prior congenital heart surgery. *Ann Cardiothorac Surg*. 2021;10:658-666.
169. Rossano JW, VanderPluym CJ, Peng DM, Hollander SA, Maeda K, **Adachi I**, Davies RR, Simpson KE, Fynn-Thompson F, Conway J, Law SP, Cantor RS, Koehl D, Jacobs JP, Amdani S, Kirklin JK, Morales DLS; Pedimacs Investigators. Fifth Annual Pediatric Interagency Registry for Mechanical Circulatory Support (Pedimacs) Report. *Ann Thorac Surg*. 2021;112:1763-1774.
170. Puri K, **Adachi I**. Left Heart Decompression on Extracorporeal Membrane Oxygenation Support and Cardiopulmonary Bypass. *Pediatr Crit Care Med*. 2021;22(12):e599-e604.
171. Bedzra EKS, **Adachi I**, Peng DM, Amdani S, Jacobs JP, Koehl D, Cedars A, Morales DL; Society of Thoracic Surgeons Fontan VAD Group. Systemic ventricular assist device support of the Fontan circulation yields promising outcomes: An analysis of The Society of Thoracic Surgeons Pedimacs and Intermacs Databases. *J Thorac Cardiovasc Surg*. 2021:S0022-5223(21)01677-9.
172. Broda CR, Smith PA, Wang Y, Sriraman H, Owuor PS, Sampaio LC, **Adachi I**, Taylor DA. Construction and Evaluation of a Bio-Engineered Pump to Enable Subpulmonary Support of the Fontan Circulation: A Proof-of-Concept Study. *ASAIO J*. 2021 Dec 1. doi: 10.1097/MAT.0000000000001617.
173. Cho J, **Adachi I**. The Key to Success in Ventricular Assist Device Support for Single Ventricle. *Ann Thorac Surg*. 2021:S0003-4975(21)02106-8.
174. Puri K, **Adachi I**, Bocchini CE, Spinner JA, Denfield SW, Sisley S, Elias BA, Jimenez-Gomez A, Price JF, Dreyer WJ, Choudhry S, Tunuguntla HP. Trends in Body Mass Index and Association With Outcomes in

Pediatric Patients on Continuous Flow Ventricular Assist Device Support. *ASAIO J.* 2021 Dec 28. doi:10.1097/MAT.0000000000001633.

175. Ruth A, Vogel AM, **Adachi I**, Shekerdemian LS, Bastero P, Thomas JA. Central venoarterial extracorporeal life support in pediatric refractory septic shock: a single center experience. *Perfusion.* 2022;37:385-393.
176. Lahiri S, Choudhry S, Denfield SW, Price JF, Cabrera AG, Dreyer WJ, Spinner JA, Loar RW, Elias B, McMullen J, Qureshi AM, **Adachi I**, Tunuguntla HP. Does Cardiac Catheterization Facilitate Hemodynamic Optimization of Pediatric Patients on Continuous-Flow Ventricular Assist Devices? *ASAIO J.* 2022;68:584-591.
177. Woods RK, **Adachi I**, Morales DLS. Commentary: Pump exchange: Harmful waste or wise investment? *J Thorac Cardiovasc Surg.* 2022;163:2128-2129.
178. Wilkes JK, **Adachi I**, Sachdeva S. Mitral valve perforation, a hole-in-one for 3-dimensional echocardiography. *Cardiol Young.* 2022;32:307-308.
179. Thangappan K, Zafar F, Lorts A, **Adachi I**, Rosenthal D, Rossano J, Maeda K, Morales DLS. MILESTONE: More Than 1,200 Children Bridged to Heart Transplantation with Mechanical Circulatory Support. *ASAIO J.* 2022;68:577-583.
180. Woods RK, Kirklin JK, Maeda K, **Adachi I**; Pediatric Cardiac Transplant Risk Adjustment Group. We need better pediatric cardiac transplantation risk modeling. *J Thorac Cardiovasc Surg.* 2022:S0022-5223(22)00016-2.
181. Spigel ZA, Qureshi AM, **Adachi I**. Stratification of the right ventricle-dependent coronary circulation: Relevance to treatment strategy. *J Thorac Cardiovasc Surg.* 2022:S0022-5223(22)00099-X.
182. Townsend M, Jeewa A, **Adachi I**, Al Aklabi M, Honjo O, Armstrong K, Buchholz H, Conway J. Ventricular Assist Device Use in Patients With Single-Ventricle Circulation. *Can J Cardiol.* 2022 Mar 18:S0828-282X(22)00201-X.
183. Hayward C, **Adachi I**, Baudart S, Davis E, Feller ED, Kinugawa K, Klein L, Li S, Lorts A, Mahr C, Mathew J, Morshuis M, Müller M, Ono M, Pagani FD, Pappalardo F, Rich J, Robson D, Rosenthal DN, Saeed D, Salerno C, Sauer AJ, Schlöglhofer T, Tops L, VanderPluym C. Global best practices consensus: Long-term management of patients with hybrid centrifugal flow left ventricular assist device support. *J Thorac Cardiovasc Surg.* 2022:S0022-5223(22)00407-X.
184. Puri K, Denfield SW, **Adachi I**, Dreyer WJ, Price JF, Spinner JA, Choudhry S, Brackett J, Santucci G, Rainusso NC, Tunuguntla HP. Ventricular assist device support for children with chemotherapy-induced cardiomyopathy and advanced heart failure: Perspectives gained from a single-center experience. *Pediatr Transplant.* 2022:e14286.
185. Puri K, Tunuguntla HP, Hensch LA, Loh J, Hui SK, Razavi A, Tume SC, Humlicek TJ, Denfield SW, Spinner JA, Choudhry S, Price JF, Dreyer WJ, **Adachi I**, Teruya J. Bivalirudin or Unfractionated Heparin for Anticoagulation in Pediatric Patients on Continuous Flow Ventricular Assist Device Support: Single-Center Retrospective Cohort Study. *Pediatr Crit Care Med.* 2022. doi:10.1097/PCC.0000000000003003.
186. Hill MC, Kadow ZA, Long H, Morikawa Y, Martin TJ, Birks EJ, Campbell KS, Nerbonne J, Lavine K, Wadhwa L, Wang J, Turaga D, **Adachi I**, Martin JF. Integrated multiomic characterization of congenital heart disease. *Nature.* 2022 Jun 22. doi: 10.1038/s41586-022-04989-3.

ACCEPTED OR IN-PRESS

Qureshi A, Adachi I. Survival Disparities in Pediatric Out-of-Hospital Cardiac Arrest. 2022.

BOOKS

Complete Books Written N/A

Books Edited N/A

Book Chapters Written

1. **Adachi I**, Morales DL. Pediatric mechanical circulatory support devices. In: Cardiothoracic Surgery Review. Kenneth L. Franco & Vinod H. Thourani, editors. Lippincott Williams & Wilkins, Philadelphia 2010.
2. **Adachi I**, Fraser CD Jr. Mechanical Circulatory Assistance in Children. In: Current Therapy in Thoracic and Cardiovascular Surgery, 2nd edition. Cameron DE, Yang SC, editors. Elsevier, New York. 2012.
3. **Adachi I**, Fraser CD Jr. Ventricular Assist Devices for Infants and Children: State of the Art and Future. In: Cardiopulmonary Bypass- principles and Practice, 4th edition. Glenn P. Gravlee, editor. Lippincott Williams & Wilkins, Philadelphia. 2014.
4. **Adachi I**, Shekerdeman L, Checchia P, Fraser CD Jr. Treatment of Heart Failure: Mechanical Support. In: Rogers' Textbook of Pediatric Intensive Care, 5th edition. Donald H. Shaffner, David G. Nichols, editors. Lippincott Williams & Wilkins, Philadelphia 2015.
5. Jeewa A, MD, **Adachi I**, Price J. Mechanical Circulatory Support in Children. In: Moss & Adams' Heart Disease in Infants, Children, and Adolescents: Including the Fetus and Young Adult, 9th edition. Hugh D. Allen, David J. Driscoll, Robert E. Shaddy, Timothy F. Feltes, editors. Lippincott Williams & Wilkins, Philadelphia 2015.
6. **Adachi I**, Burki S, Schweiger M. Pediatric continuous-flow ventricular assist device. In: ISHLT Monograph Volume 10: Pediatric Mechanical Circulatory Support. Lorts A, Conway J, editors. Lippincott Williams & Wilkins, Philadelphia 2017.
7. Dabbagh A, **Adachi I**. Atrioventricular septal defect (AVSD). In: Congenital Heart Disease in Pediatric and Adult Patients. Ali Dabbagh, Antonio H Conte, Lorraine Lubin, editors. Springer, New York 2017.
8. **Adachi I**, Burki S, Fraser CD. Long-Term Ventricular Assist Devices in Children. In: Heart Failure in the Child and Young Adult: from Bench to Bedside. John L Jefferies, Anthony C Chang, Joseph W Rossano, Robert E Shaddy, Jeffrey A Towbin, editors. Academic Press, Cambridge 2017.

Short electronic communications

1. Morales DL, **Adachi I**. Pediatric Mechanical Cardiopulmonary Support "Part 1" and "Part 2". A presentation slides for web-based curriculum of CHSS Education Committee and TSDA (Thoracic Surgery Directors Association) Curriculum for Congenital Heart Surgery. 2011.

Other Works Communicating Research Results to General Public N/A

TEACHING INFORMATION

DIDACTIC COURSE WORK

Courses Taught at Current Institution N/A

Courses Taught at Other Institutions N/A

Courses Expected to be Taught at Baylor College of Medicine N/A

NON-DIDACTIC TEACHING

Resident Training (03/2012 – Present)

2012 – 2013	Elizabeth Pocock, MD Ismael Salas de Armas, MD Kalyan Vunnamadala, MD
2013 – 2014	Christopher Ellington, MD Jess Joymon, MD Julius Carillo, MD Shahab Akvan, MD
2014 – 2015	Farooq Mirza, MD Gregory Pattakos, MD David Daniel, MD Saleh Al Nassre, MD
2015 – 2016	M. Ryan Reidy, MD Corinne Tan, MD Graham Pollock, MD Peter Chen, MD
2016 - 2017	Courtney Gemmato, MD Swami Gnanashanmugam, MD Corinne Aberle, MD Kareem Ibrahim, MD
2017 – 2018	Juan Marcano, MD

Postdoctoral Trainees

2013 – 2014	Juan Lehoux, MD Yuji Naito, MD Yisha Orr, MD
2014 – 2015	Mark Roesser, MD
2015 – 2016	David Horne, MD Julia Swanson, MD
2016 – 2017	Ziv Beckerman, MD Ziyad Binsalamah, MD
2016 – Present	Neil Cambronero, MD Christopher Greenleaf, MD Rajat Kalra, MD

Research Fellow Training

2010 – 2013	Muhammad Khan, MD
2013 – 2015	Francisco Guzman – Pruneda, MD
2014 – 2016	Sarah Burki, MD Michael R. Nieto, MD
2016 – 2017	Luis De Leon, MD
2016 – 2018	Martin Chacon, MD Rodrigo Zea Vera, MD

Graduate Student Training (03/2012 – Present)

Clinical Supervisor, Baylor College of Medicine PGY 2-3 General Surgery Internship, Congenital Heart Surgery Rotation (10-20 hours per week)

Medical Student Training (03/2012 – Present)

Supervising Faculty, Baylor College of Medicine Core Clerkship Medical Students, Congenital Heart Surgery Rotation (5-10 hours per week)

Undergraduate Student Training

N/A

INVITED LECTURES

International

1. Anatomical demonstration of congenitally malformed hearts. Hands on Cardiac Morphology Training Session at Imperial College London. London, England, United Kingdom. February 26-28, 2007.
2. Anatomical demonstration of congenitally malformed hearts. Hands on Cardiac Morphology Training Session at Imperial College London. London, England, United Kingdom. July 9-11, 2007.
3. Anatomical demonstration of congenitally malformed hearts. Hands on Cardiac Morphology Training Session at Imperial College London. London, England, United Kingdom. February 25-27, 2008.
4. Anatomical demonstration of congenitally malformed hearts. Hands on Cardiac Morphology Training Session at Imperial College London. London, England, United Kingdom. July 9-11, 2008.
5. Surgical Proctor. Placement of the Berlin Heart EXCOR® pediatric ventricular assist device on January 29, 2013. Osaka University Hospital, Suita, Japan.
6. Surgical Proctor. Placement of the Berlin Heart EXCOR® pediatric ventricular assist device on August 2, 2013. The University of Tokyo Hospital, Tokyo, Japan.
7. Ventricular Assist Device and Pediatric Heart Transplantation: Experience at Texas Children's Hospital. Congress of the Asian Society of Transplantation (CAST) September 3 – 6, 2013 Kyoto, Japan
8. Cannulation Strategies for Children with Univentricular Physiology. Asia-Pacific Chapter of Extracorporeal Life Support Organization (APELSO) October 11 – 13, 2013 Beijing, China
9. ECMO cannulation for the single ventricle. Asia- Pacific Chapter of Extracorporeal Life Support Organization (APELSO) July 17 – 19, 2015 Kyoto, Japan
10. MCS and HTX for Single Ventricle. The 24th Annual Meeting of Asian Society for Cardiovascular and Thoracic Surgery (ASCVTS) in conjunction with 9th AATS/ASCVTS Postgraduate Course and 4th Asian Single Port VATS Symposium. April 6 – 10, 2016. Taipei, Taiwan
11. Pediatric Ventricular Assist Device. The 24th Annual Meeting of Asian Society for Cardiovascular and Thoracic Surgery (ASCVTS) in conjunction with 9th AATS/ASCVTS Postgraduate Course and 4th Asian Single Port VATS Symposium. April 6 – 10, 2016. Taipei, Taiwan
12. VAD Implantation. The 24th Annual Meeting of Asian Society for Cardiovascular and Thoracic Surgery (ASCVTS) in conjunction with 9th AATS/ASCVTS Postgraduate Course and 4th Asian Single Port VATS Symposium. April 6 – 10, 2016. Taipei, Taiwan

13. Myocardial response to VAD therapy in children: difference between pulsatile and continuous-flow devices. Berlin Heart Lunch Symposium: VAD support in children: What is state of the art? 50th Annual Meeting of the Association for European Paediatric and Congenital Cardiology. June 2, 2016. Rome, Italy.
14. Current Status of Pediatric Mechanical Circulatory Support. June 1, 2016 Bambino Gesu Hospital, Rome, Italy.
15. North American Experience in Pediatric Ventricular Assist Device Support. July 15, 2016. Nagano Children's Hospital, Matsumoto, Japan.
16. Historical Perspective on Pediatric Ventricular Assist Devices. 7th World Congress of Pediatric Cardiology and Cardiac Surgery. July 17, 2017. Barcelona, Spain.
17. Surgical Considerations of Ventricular Assist Device Implantation in Children. 7th World Congress of Pediatric Cardiology and Cardiac Surgery. July 16, 2017. Barcelona, Spain.
18. What's Next: The Future of VAD Therapy in Children. 7th World Congress of Pediatric Cardiology and Cardiac Surgery. July 17, 2017. Barcelona, Spain.
19. New Approach in MCS for the Single Ventricle Failure. 13th International Conference on Pediatric Mechanical Circulatory Support Systems & Pediatric Cardiopulmonary Perfusion. September 28, 2017. Rome, Italy.
20. Myocardial Response to VAD Therapy in Children: Difference between Pulsatile and Continuous-flow Devices. European EXCOR Pediatric Investigator Group Meeting. October 6, 2017. Vienna, Austria.
21. Aortic Arch Repair in the Newborn: Regional Cerebral Perfusion. 31st Annual Meeting of European Association for Cardio-Thoracic Surgery. October 8, 2017. Vienna, Austria.
22. Ventricular assist device in the management of pediatric CHF. Curso de Actualizacion en Cardiopatias Congenitas 2018. March 2018. Guanajuato, Mexico
23. Current Status of Pediatric Ventricular Assist Device support. Annual Spring Scientific Conference of the Korean Society of Cardiology. April 21, 2018. Daejeon, South Korea.
24. Cardiac Recovery on Ventricular Assist Device. Annual Spring Scientific Conference of the Korean Society of Cardiology. April 21, 2018. Daejeon, South Korea.
25. Surgical Proctor. Placement of the HeartWare HVAD® ventricular assist device on May 15, 2018. The Yonsei University Severance Hospital, Seoul, South Korea.
26. Temporary VADs: When to use and How to Choose. International Pediatric VAD and Heart Failure Summit 2018 (Stanford University). September 24, 2018. Palo Alto, CA, USA.

National

1. Use of Short-Term Ventricular Assist Devices in Children. 2011 Congenital Heart Surgeons' Society Meeting. October 24, 2011. Chicago, Illinois.
2. Berlin Heart Official Training Course. September 13, 2012. Houston, Texas
3. How to Fit Adult Devices in Pediatric Patients – Does Size Really Matter? 2014 Pediatric Heart Failure Summit. September 11 – 13, 2014. Cincinnati, OH.

4. Size Limitations for Current Continuous Flow Pumps: How young can we go? MCSDs in 2015: Evolution, Expansion, and Evaluation. Intermacs Ninth Annual Meeting Program. May 15 – 16, 2015. Baltimore, MD.
5. Evolution of the Mechanical Circulatory Support Program at Texas Children’s Hospital. 48th Annual Southeast Pediatric Cardiology Society Conference. September 25, 2015. Birmingham, AL
6. Children Should Be Offered VAD as Destination Therapy: Pro. Innovations in Pediatric Heart Failure Symposium. December 3-5, 2015. San Diego, CA
7. Making Adult Devices “Fit” Science, Medicine and Industry Innovating for the Future. ASAIO 61st Annual Conference Program. June 24 – 27, 2015. Chicago, IL
8. Surgical Implantation Techniques and Considerations: What are the Nuances with the Smaller Patient Cohort? HeartWare Pediatric Scientific Advisory Meeting. November 2, 2015. Boston, MA.
9. Newborn with cardiomyopathy and severe mitral valve regurgitation. Society of Thoracic Surgery Parallel Surgical Symposium: Congenital – CS. January 25, 2015. San Diego, CA.
10. Pediatric Ventricular Assist Device: What’s New? 25th Annual Specialist Education in ECMO Conference. May 15-17, 2015. Houston, TX.
11. Device Overview: The Heart Mate II LVAD. CHOP conference. February 11, 2015. Phoenix, Arizona
12. Overview of Current Pediatric and Adult Devices in Congenital Heart Disease. The American Association for Thoracic Surgery 96th Annual Meeting. AATS/STS Congenital Heart Disease Symposium: Respecting Our Past; Embracing Our Future. May 16, 2016. Baltimore, USA
13. All Infants With DCM Should Have A Primary PA Band. ASAIO 62nd Annual Conference Program. June 16, 2016. San Francisco, CA
14. Round Table Discussion – Surgical Implantation Techniques and Considerations: What are the Nuances with the smaller patient Cohort? Pediatric Scientific Advisory Meeting. November 2, 2015, Boston, MA
15. Sharing Center Experiences: Learning from our Brilliant Successes and Epic Failures. International Pediatric VAD Summit 2016: Boston. Thursday and Friday, October 20 – 21, 2016. Boston, MA.
16. Congenital Surgical Symposium: Congenital Cardia Surgery Melange. Pulmonary Artery Banding for Dilated Cardiomyopathy: Nor American Experience. 53rd Annual Meeting of Society of Thoracic Surgery. Sunday, January 22, 2017. Houston, TX.
17. Is Destination Therapy with VAD Applicable to Children? Pediatric Heart Transplant Summit 2017 “Contemporary Challenges and Future Directions”. September 19, 2017. Seattle, WA.
18. Continuous-flow VAD in Children: A Paradigm Change. 14th International Conference on Pediatric Mechanical Circulatory Support Systems & Pediatric Cardiopulmonary Perfusion. May 3, 2018. Chicago, IL.
19. Pediatric Ventricular Assist Device – Paradigm Change. Invited lecture. May 31, 2018. Rady Children’s Hospital. San Diego, CA.
20. The Current State of Mechanical Circulatory Support in Children with Congenital Heart Disease. June 1, 2018. 29th Western Society of Pediatric Cardiology. San Diego, CA.

21. Pediatric Modifications for Device Implantations. May 10, 2019. 15th International Conference on Pediatric Mechanical Circulatory Support Systems & Pediatric Cardiopulmonary Perfusion. New York, New York

VISITING PROFESSORSHIPS N/A

MEDICAL AND SERVICE INFORMATION

PATIENT CARE RESPONSIBILITIES

Department-wide

03/2012 – Present Associate Surgeon, Division of Congenital Heart Surgery
Texas Children’s Hospital, Houston, TX

Section or Specialty Congenital Heart Surgery

CLINICAL LABORATORY RESPONSIBILITIES N/A

NATIONAL EDUCATION OR VOLUNTARY HEALTH ORGANIZATION PARTICIPATION

ADMINISTRATIVE ASSIGNMENTS

Department Administration and Committees

Hospital, College, School, or University Administration and Committees

2011 – Present Member, Pediatric Lung and Heart-Lung
Transplant Medical Review Board, Texas Children’s Hospital

2011 – Present Member, Pediatric Heart Transplant Medical Review Board
Texas Children’s Hospital

2012 – Present Member, ECMO Leadership Committee
Texas Children’s Hospital

2012 - Present Member, Department of Surgery Mission and Vision Task Force
Texas Children’s Hospital