

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
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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

2012 – Present	Assistant Professor of Surgery and Pediatrics Michael E. DeBakey Department of Surgery Baylor College of Medicine, Houston, Texas
2012 – Present	Associate Surgeon, Congenital Heart Surgery Texas Children's Hospital, Houston, Texas

2012 – Present	Co-Director, Mechanical Circulatory Support Program Texas Children’s Hospital, Houston, Texas
2011 – Present	Cardiovascular Surgeon Texas Heart Institute St. Luke’s Episcopal Hospital, Houston, Texas

Previous Faculty Positions at Other Institutions

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

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 Inc. (Framingham, MA).
3. Serving as a consultant for the New England Research Institute (Watertown, MA) for the NIH-funded PumpKIN (Pump for Kids, Infants, and Neonates) Trial.
4. Serving as a consultant for Sony-Olympus, Corp (Tokyo, Japan).

RESEARCH INFORMATION

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

NATIONAL SCIENTIFIC PARTICIPATION

Journal Editorial Boards N/A

Review Panels

Manuscript Reviewer:

1. European Journal of Cardio-Thoracic Surgery
2. International Journal of Cardiology
3. Surgical and Radiologic Anatomy
4. Cardiology in the Young
5. Congenital Heart Disease
6. American Journal of Cardiology
7. Expert Review of Medical Devices
8. Artificial Organs
9. Annals of Thoracic Surgery
10. Journal of Heart and Lung Transplantation

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

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.
7. **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.
8. **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.
9. 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.
10. 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.
11. 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.
12. **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.
13. **Adachi I**, Uemura H, Yagihara T. Reply to ovrouski and alexi-meskishvili. *Eur J Cardiothorac Surg.* 2008; 33:951-2.
14. 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.
15. 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.

16. 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.
17. **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.
18. **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.
19. **Adachi I**, Uemura H, McCarthy KP, Ho SY. Surgical anatomy of atrioventricular septal defect. *Asian Cardiovasc Thorac Ann.* 2008; 16:497-502.
20. **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.
21. **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.
22. **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.
23. **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.
24. **Adachi I**, Uemura H, Ho SY. Reply to the Editor. *J Thorac Cardiovasc Surg.* 2009; 138:515.
25. **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.
26. **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.
27. 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.
28. **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.
29. **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.
30. **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.
31. **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.

32. **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.
33. 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.
34. **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.
35. **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.
36. 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
37. Morales DL, Khan MS, Gottlieb EA, Krisnamurthy R, Dreyer WJ, **Adachi I**. Implantation of total artificial heart in congenital heart disease. *Semin Thorac Cardiovasc Surg.* 2012 Summer;24:142-3.
38. 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
39. 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.
40. 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.
41. 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.
42. Stiller B, **Adachi I**, Fraser CD Jr. Pediatric ventricular assist devices. *Pediatr Crit Care Med.* 2013;14(5 Suppl 1):S20-6.
43. Lowry AW, Olabiyi OO, **Adachi I**, Moodie DS, Knudson JD. Coronary artery anatomy in congenital heart disease. *Congenit Heart Dis.* 2013;8:187-202.
44. 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.
45. 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.
46. 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.

47. 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.
48. 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.
49. **Adachi I**, Fraser CD. Berlin Heart EXCOR Food and Drug Administration Investigational Device Exemption Trial. *Semin Thorac Cardiovasc Surg*. 2013 Summer;25:100-6.
50. 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.
51. 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.
52. 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.
53. 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.
54. Philip J, Burgman C, Bavare A, Akcan-Arikan A, Price JF, **Adachi I**, Shekerdemian LS. Nature of the underlying heart disease affects survival in pediatric patients undergoing extracorporeal cardiopulmonary resuscitation. *J Thorac Cardiovasc Surg*. 2014;148:2367-72.
55. 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*. 2015. pii: S1053-2498(15)01385-6. [Epub ahead of print]
56. **Adachi I**, Morales DS. Implantation of total artificial heart in congenital heart disease. *J Vis Exp*. 2014;18:89.
57. 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.
58. 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.
59. 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.
60. 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*. 2015 Aug 14. pii: S0022-5223(15)01478-6.
61. 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 Feb;151(2):432-9, 441.e1-2.

62. 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.
63. 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
64. 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.
65. 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.
66. **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.
67. **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.
68. 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.
69. **Adachi I**, Burki S, Zafar F, Morales DL. Pediatric ventricular assist devices. *J Thorac Dis.* 2015;7:2194-202.
70. **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.
71. 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.
72. **Adachi I**, Jaquiss RD. Mechanical Circulatory Support in Children. *Curr Cardiol Rev.* 2016;12:132-40.
73. 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.
74. 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 Sep;102(3):859-62.
75. 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.
76. **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.
77. 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 Jan;20:9-15.

78. **Adachi I**, Burki S, Fraser CD Jr. Current Status of Pediatric Ventricular Assist Device Support. *Semin Thorac Cardiovasc Surg Pediatr Card Surg Annu.* 2017 Jan;20:2-8.
79. **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 Nov;35(11):1380-1381.
80. 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 Feb1;44(1):66-69.
81. 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 Feb 8. pii: S1053-2498(17)31350-5.
82. 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 Jan;38(1):e1-e5.
83. 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 Apr;224(4):707-715.
84. 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 Mar;103(3):853-861.

ACCEPTED OR IN-PRESS

1. **Adachi I**. Invited Expert Opinion. Continuous-flow Ventricular Assist Device Support in Children: A Paradigm Change. *J Thorac Cardiovasc Surg.* 2017 in press.
2. **Adachi I**, Burki S, Horne D, Costas GG, Spangler T, Jarvik R, Teal J, Baldwin T, Dasse K, Massicotte P, Conger J, Cohn WE, Fraser CD. The Miniaturized Pediatric Continuous Flow Device: Pre-clinical Assessment in the Chronic Sheep Model Jarvik Preclinical study. *J Thorac Cardiovasc Surg.* 2017 in press.
3. Burki S, **Adachi I**. Pediatric ventricular assist devices: current challenges and future prospects. *Journal of Vascular Health and Risk Management.* 2017 in press.
4. Beckerman Z, etc. HVAD after ASO
5. Adachi I, Teruya, et al. Hematologic issues in VAD

IN PREPARATION OR SUBMITTED

N/A

OTHER FULL PAPERS

Published without Review by Peer Group N/A

In Preparation N/A

ABSTRACTS

- A1. **Adachi I**, Kobayashi J, Bando K, Niwaya K, Tagusari O, Nakajima H, Yagihara T, Kitamura S. The Role of the Cryo-Maze Procedure in Redo Mitral Surgery. *Innovations*. 2006; 1(4):202. 2006 International Society for Minimally Invasive Cardiothoracic Surgery (San Francisco, California)
- A2. **Adachi I**, Yagihara T, Kagisaki K, Hagino I, Ishizaka T, Uemura H, Kobayashi J, Kitamura S. Preoperative Small Pulmonary Artery Did Not Affect The Midterm Results Of Fontan Operation. *Interact Cardiovasc Thorac Surg*. 2006; 5(supplement):S190. 2006 European Association of Cardio-Thoracic Surgery (Stockholm, Sweden)
- A3. **Adachi I**, Uemura H, Ho SY, Yagihara T. Is The Morphologically Mitral Valve In Hearts With Discordant Atrioventricular Connections Always Normal? *Interact Cardiovasc Thorac Surg*. 2006; 5(supplement):S203. 2006 European Association of Cardio-Thoracic Surgery (Stockholm, Sweden)
- A4. **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. *Heart*. 2008; 94(Supplement):A84-5. 2008 British Cardiovascular Society in Birmingham, UK
- A5. **Adachi I**, Ho SY, McCarthy KP, Seale A, Uemura H. Common Arterial Trunk Associated With Atrioventricular Septal Defect: Morphologic Observations Pertinent To Anatomical Repair. 2009 Society of Thoracic Surgeons (San Francisco, California)
- A6. **Adachi I**, Uemura H, Yagihara T, Ho SY. Morphologic Spectrum of Ventriculo-Arterial Connection In Hearts With Double Inlet Left Ventricle: Implications For Surgical Procedures. 2009 Society of Thoracic Surgeons (San Francisco, California)
- A7. **Adachi I**, Uemura H, McCarthy KP, Ho SY. Morphologic features of atrioventricular septal defect with only ventricular component: diagnostic and surgical considerations. 2009 Japanese Circulation Society (Osaka, Japan)
- A8. **Adachi I**, Ichikawa H, Kagisaki K, Ueno T, Ide H, Hoashi T, Taira M, Kuratani T, Kobayashi J, Yagihara T, Sawa Y. Serial Changes in the Size and Function of the Systemic Left Ventricle Supporting Fontan Circulation. 2010 Japanese Circulation Society (Kyoto, Japan)
- A9. **Adachi I**, Ichikawa H, Kagisaki K, Ueno T, Ide H, Hoashi T, Ishimaru K, Taira M, Kuratani T, Kobayashi J, Yagihara T, Sawa Y. Serial Changes in Systemic Ventricular Volume Long After Fontan Operation: Insight Into Better Patient Care. 2010 American College of Cardiology. (Atlanta, Georgia)
- A10. Zafar F, **Adachi I**, Heinle JS, Cabrera AG, Dreyer WJ, Rossano JW, Morales DLS. Simultaneous Heart and Kidney Transplantation in Children: Analysis of the United Network of Organ Sharing Database. 2011 International Society for Heart and Lung Transplantation (San Diego, California)
- A11. Zafar F, **Adachi I**, Heinle JS, Cabrera AG, Rossano JW, Fraser CD, Morales DLS. Is Mechanically Bridging Patients with a Failing Cardiac Graft to Re-Transplantation an Effective Therapy? Analysis of the UNOS Database. 2011 International Society for Heart and Lung Transplantation. (San Diego, California)
- A12. Zafar F, Heinle JS, **Adachi I**, McKenzie ED, Schechter MG, Mallory GB, Morales DL. Does Donor PaO2 Affect Outcomes Following Lung Transplantation? A Review of Over 12,000 Lung Transplants. 91st Annual Meeting of the American Association for Thoracic Surgery. (Philadelphia, Pennsylvania)

- A13. **Adachi I.** Initial Multi-Center North American Experience with The Berlin Heart EXCOR® VAD. 2nd Annual Edmond T. Gonzales, Jr. Surgical Research Day at St. Luke's Hospital (Houston, Texas) May 6, 2011
- A14. **Adachi I.** Heinle JS, McKenzie ED, McGarry MC, Cabrera AG, Jeewa A, Fraser CD, Morales DL. Use of short-term ventricular assist devices in children. Congenital Heart Surgeon's Society Annual Meeting (Chicago, Illinois) October 23-24, 2011
- A15. Fraser CD, Khan MS, **Adachi I**, Morales DLS. Support of a failing Fontan circulation using an intracorporeal systemic ventricular assist device. Congenital Heart Surgeon's Society Annual Meeting (Chicago, Illinois) October 23-24, 2011
- A16. Samayoa AX, **Adachi I**, Morales DLS. Intracorporeal mechanical circulatory support for children. 2012 Transplant: Today, Tomorrow – 3Ts Symposium. (Houston, Texas) March 8-9, 2012
- A17. **Adachi, I**, Heinle JS, McKenzie ED, McGarry MC, Cabrera AG, Jeewa A, Fraser CD, Morales DLS. The use of short-term ventricular assist devices in children. 2012 International Society for Heart and Lung Transplantation Meeting (Prague, Czech Republic) April 18-22, 2012
- A18. Khan MS, Heinle JS, **Adachi I**, Shirkey BA, Schechter MG, Mallory GB, Morales DLS. Is lung transplantation survival better in infants? Analysis of over 80 infants. 2012 International Society for Heart and Lung Transplantation Meeting (Prague, Czech Republic) April 18-22, 2012.
- A19. Khan MS, Samayoa AX, **Adachi I**, Shirkey BA, Heinle JS, Morales DLS. Do significantly daily, monthly and seasonal variations in thoracic organ transplantation exist? 2012 International Society for Heart and Lung Transplantation Meeting (Prague, Czech Republic) April 18-22, 2012.
- A20. Samayoa AX, Khan MS, Shirkey BA, **Adachi I**, Dreyer WJ, Heinle JS, Morales DLS. Thoracic transplantation increases during holidays: Reality or myth? 2012 International Society for Heart and Lung Transplantation Meeting (Prague, Czech Republic) April 18-22, 2012.
- A21. Pignatelli R, Samayoa A, **Adachi I**, Cui Q, Jeewa A, Ayres N, Morales DLS. In children undergoing ventricular assist device implantation: Does pre-implantation severe right ventricular failure require bi-ventricular support? American Society of Echocardiography's 23rd Annual Scientific Sessions. (National Harbor, Maryland) June 30 – July 3, 2012.
- A22. McKenzie ED, Mallory GB, **Adachi I**, Heinle JS. "Center Volume Impacts Survival in Pediatric Lung Transplantation", ISHLT 33rd Annual Meeting and Scientific Sessions, April 24-27, 2013 in Montréal. Abstract #: 378. Session Title: Lung 6: Transplant Complications and Outcomes. Presentation Type: Accepted for Oral. Session Date: 4/27/2013. Session Time: 12:15:00 PM.
- A23. McKenzie ED, Mallory GB, **Adachi I**, Heinle JS. "Pediatric Thoracic Multiorgan Transplantation in the United States", ISHLT 33rd Annual Meeting and Scientific Sessions, April 24-27, 2013 in Montréal. Abstract #: 394. Session Title: PEDS 3: Heart and Lung Transplantation. Presentation Type: Accepted for Oral. Session Date: 4/27/2013. Session Time: 12:15:00 PM.
- A24. Heinle JS, **Adachi I**, Jeewa A, Khan MS, Morris SA, Morales DLS. VAD QOL Study. Accepted. ISHLT 33rd Annual Meeting and Scientific Sessions, April 24-27, 2013 in Montréal. International Society for Heart and Lung Transplantation. Presentation Type: Accepted for Oral. Session Date: 4/27/2013.
- A25. Khan MS, Fraser CD III, Morales DL, McKenzie ED, **Adachi I**, Schechter MG, Mallory GB, , Heinle JS. Pediatric Thoracic Multiorgan Transplantation in The United States. Poster presented at: Annual Surgical Research Day, May 10, 2013, Texas Children's Hospital, Baylor College of Medicine; Houston, TX.

- A.26 Khan MS, Zhang W, **Adachi I**, McKenzie ED, Mallory GB, Heinle JS. Center Volume Impacts Survival in pediatric lung transplantation. Poster presented at: Annual Surgical Research Day, May 10 2013, Texas Children's Hospital, Baylor College of Medicine; Houston, TX.
- A.27 **Adachi I**, Khan MS, Kim JJ, Ishak YM, Delauz CM, Mery CM, McKenzie ED, Heinle JS, Fraser CD Jr. Is Sinus Node Dysfunction Intrinsic in patients with partial anomalous pulmonary venous return to superior vena cava? A post-surgical follow-up study. Poster presented at: Annual Surgical Research Day, May 10, 2013, Texas Children's Hospital, Baylor College of Medicine; Houston, TX.
- A.28 **Adachi I**, Khan MS, McKenzie ED, Heinle JS, Mery CM, Cabrera AG, Price JF, Jeewa A, Denfield SR, Dreyer WJ, Price JF, Fraser CD Jr. Is Ventricular Assist Device an effective tool to support children with a failing cardiac graft? Poster presented at: Annual Surgical Research Day, May 10, 2013, Texas Children's Hospital, Baylor College of Medicine; Houston, TX.
- A.29 Ezon DS, Khan MS, **Adachi I**, Jeewa A, Morris S, Nagy C, Morales DL, Heinle JS. Pediatric Ventricular Assist Device Use As A Bridge To Transplantation Does Not Affect Long-Term Quality Of Life. Poster presentation at the 33rd Annual Meeting and Scientific Session of the International Society of Heart and Lung Transplantation. 2013 Apr.
- A.30 Schweiger M., Huebler M., Jeewa A., **Adachi I.**, Boschert T., Mehegan M., Jansz P., Parrino P.E., Vanderpluym C., Miera O., Zimpfer D. University Children's Hospital, Congenital Cardiovascular Pediatric Surgery, Zurich, Switzerland; Texas Children's Hospital, Houston, TX; St. Louis, MO; St. Vincent's Hospital, Sydney, Australia; Ochsner Medical Center, Section of Thoracic and Cardiovascular Surgery, New Orleans, LA; Boston Children's Hospital, Boston, MA; German Heart Institute Berlin, Germany; Medical University Vienna, Department for Cardiothoracic Surgery, Vienna, Austria. "Outpatient Experience with Heartware® Ventricular Assist Device System in Children: *A Multicenter Experience*"
- A.31 **Adachi I.**, Guzman-Pruneda F., Heinle J.S., McKenzie E.D., Mery C.M., Orr Y., Jeewa A., Cabrera A.G., Price J.F., Denfield S.W., Dreyer W.J., Fraser Jr C.D. Baylor College of Medicine, Houston, TX. "Outcome of Pediatric Heart Transplantation Has Continued to Improve Over the Last Three Decades: Impact of Mechanical Circulatory Support"
- A.32 Orr Y., Mery C.M., **Adachi I.**, Heinle J.S., McKenzie E.D. Baylor College of Medicine, Houston, TX. Technique for Pediatric En Bloc Lung Transplantation with Bronchial Artery Revascularization
- A.33 Guzman-Pruneda F., Orr Y., Mery C.M., **Adachi I.**, Nugent M., Maddox J., Schechter M.G., Mallory G.B., Morales D.L., Heinle J.S., McKenzie E.D. Baylor College of Medicine, Houston, TX; Texas Children's Hospital, Houston, TX; Cincinnati Children's Hospital, Cincinnati, OH. Bronchial Artery Revascularization and En Bloc Lung Transplant in Children.
- A.34. **Adachi I.**, Jeewa A., Orr Y., Heinle J.S., Mery C.M., Cabrera A.G., Denfield S.W., Dreyer W.J., Price J.W., Fraser Jr. C.D., McKenzie E.D., Optimal insertion of HVAD in children: Inflow cannula parallel with interventricular septum. Annual Surgical Research Day, May 9, 2014 Congenital Heart Surgery and Pediatric Cardiology, Texas Children's Hospital, Baylor College of Medicine.
- A.35 **Adachi I.**, Guzman-Pruneda F.A., Heinle J.S., McKenzie E.D., Mery C.M., Orr Y., Jeewa A., Cabrera A.G., Price J.F., Denfield S.W., Dreyer W.J., Fraser, Jr C.D. Outcome of Pediatric Heart Transplantation Has Continued to Improve Over the Last Three Decades: Impact of Mechanical Circulatory Support. Annual Surgical Research Day, May 9, 2014 Congenital Heart Surgery and Pediatric Cardiology, Texas Children's Hospital, Baylor College of Medicine.
- A. 36 Asaki SY, Dean McKenzie E, Elias B, **Adachi I**. Rectus-Sparing Technique for Driveline Insertion of Ventricular Assist Device. *Ann Thorac Surg*. 2015 Nov;100(5):1920-2. doi: 10.1016/j.athoracsur.2015.02.138.

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**, Shekerdemian 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.

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 in press. (URL to be listed)

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, M.D., Ismael Salas de Armas, M.D., Kalyan Vunnamadala, M.D.

2014 – 2015

Jess Joymon, MD, Jess Joymon, MD, Shahab Akvan, MD, Shahab Akvan, MD, Gregory Pattakos, MD, David Daniel, MD, Saleh Alnasser, MD, Michael "Ryan" Reidy, MD, Corinne Tan, MD, Graham Pollock, MD

Clinical Fellow Training

Yishay Orr, M.D., Juan Lehox, M.D., Mark Rosser, M.D., Julia Swanson M.D. David Horne, M.D. Ziyad Binsalamah, M.D.

Research Fellow Training

Shoaib Khan, M.D., Francisco "Paco" Guzman, M.D., Sarah Burki, M.D., Raymond Michal Nieto, M.D., Luis De Leon, M.D.

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 Gesù 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.

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 Cardiac Surgery Melange. Pulmonary Artery Banding for Dilated Cardiomyopathy: North 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.

Regional N/A

Local

1. Cannulation and Initiation of the Cardiac ECMO Patient. 2012 Spring ECLS Specialist Training Session. Texas Children's Hospital. Houston, Texas April 24, 2012.
2. Ventricular Assist Devices in Children. 2012 Texas Children's Hospital Bioethics Retreat: The Pediatric Patient with a Ventricular Assist Device (VAD) - Ethical Implications. Houston, Texas. June 30, 2012
3. VAD talk at CHS Core Curriculum 2014 Sep
4. VAD talk for ICU fellows (2014 Jan)
5. VAD talk for anesthesiologists (Feb 2015)

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

OTHER PERTINENT INFORMATION NOT GIVEN ABOVE

National/International Media Coverage

2010 Lung-Liver-Heart Transplantation;

First patient at Texas Children's Hospital and 3rd patient in the nation.
Recognized in Houston Chronicle, ABC, Yahoo News

- 2011 US News and World Report
Recognized for 3rd in Heart and Heart Surgery
Recognized for 2nd Respiratory (Including lung transplant)
- 2012 US News and World Report
Recognized for 3rd in Cardiology and Heart Surgery
Recognized for 3rd in Pulmonary Medicine (Including lung transplant)
- 2013 Texas Medical Center News
Fetal Surgery Counseling for Moms Pregnant with Spina Bifida Babies Now Recommended
- 2013 Texas Medical Center News
Houston Researchers Collaborate on Diagnostics, Drug Resistance and More
- 2016 American Association for Thoracic Surgery (AATS). "New implantable VAD for severe heart failure in kids shows encouraging results in sheep." Science Daily, May 16, 2016.
- 2016 KHOU TV news.
JJ Watt gives 8-year-old all the reasons to smile. On air on June 12, 2016