2013 Research Annual Report

Cardiothoracic Surgery

Division Details

Division Data Summary

RESEARCH AND TRAINING DETAILS	
Number of Faculty	5
Number of Joint Appointment Faculty	1
Number of Research Fellows	2
Number of Support Personnel	20
Peer Reviewed Publications	24

CLINICAL ACTIVITIES AND TRAINING	
Number of Clinical Staff	4
Inpatient Encounters	492
Outpatient Encounters	238

Division Photo

No Photo information has been entered yet.

Significant Publications

Khan MS, Heinle JS, Samayoa AX, Adachi I, Schecter MG, Mallory GB, **Morales DL**.**Is lung transplantation survival better in infants? Analysis of over 80 infants**. *J Heart Lung Transplant*. 2013 Jan;32(1):44-9.

Lung transplantation in infants with end-stage lung disease is a rarely used treatment option with only 84 infant transplantations ever performed and in only a hand full of centers across the world (2 in the last 5 years). Of the several reasons for the limited use of this treatment option, one is the assumption that the survival in infants is worse than older children.

We looked at survival in all infants who have undergone lung transplantation in the past 25 years. The overall survival in infants was not only found to be similar to older children but in certain patients, who survive the first year of transplant or were intubated at transplant (usually a contraindication to transplantation), is much better. This report will hopefully encourage centers to use lung transplantation as an effective strategy in selected infants with end-stage lung failure.

Division Publications

1. Almond CS, Morales DL, Blackstone EH, Turrentine MW, Imamura M, Massicotte MP, Jordan LC, Devaney EJ, Ravishankar C, Kanter KR, Holman W, Kroslowitz R, Tjossem C, Thuita L, Cohen GA, Buchholz H, St Louis JD, Nguyen K, Niebler RA, Walters HL, 3rd, Reemtsen B, Wearden PD, Reinhartz O, Guleserian KJ, Mitchell MB, Bleiweis MS, Canter CE, Humpl T. **Berlin Heart EXCOR Pediatric Ventricular Assist Device for Bridge to Heart Transplantation in US Children**. *Circulation*. 2013; 127:1702-11.
2. Averin K, Uzark K, Beekman RH, 3rd, Willging JP, Pratt J, Manning PB. **Postoperative assessment of laryngopharyngeal dysfunction in neonates after norwood operation**. *Ann Thorac Surg*. 2012; 94:1257-61.
3. Cabrera AG, Khan MS, Morales DL, Chen DW, Moffett BS, Price JF, Dreyer WJ, Denfield SW, Jeewa A,

Fraser CD, Jr., Vallejo JG. **Infectious complications and outcomes in children supported with left ventricular assist devices**. *J Heart Lung Transplant*. 2013; 32:518-24.

4. Hanke SP, Gardner AB, Lombardi JP, Manning PB, Nelson DP, Towbin JA, Jefferies JL, Lorts A. **Left ventricular noncompaction cardiomyopathy in Barth syndrome: an example of an undulating cardiac phenotype necessitating mechanical circulatory support as a bridge to transplantation**. *Pediatr Cardiol*. 2012; 33:1430-4.
5. Harris LL, Krishnamurthy R, Browne LP, Morales DL, Friedman EM. **Left main bronchus obstruction after patent ductus arteriosus ligation: an unusual complication**. *Int J Pediatr Otorhinolaryngol*. 2012; 76:1855-6.
6. Hayes D, Jr., DiPaola N, Baker PB, Kirkby S, Phillips AB, Nicol KK. **Antibody-mediated rejection in a lung transplant recipient after acute stroke**. *Transpl Immunol*. 2012; 27:171-4.
7. Jacobs JP, O'Brien SM, Shahian DM, Edwards FH, Badhwar V, Dokholyan RS, Sanchez JA, Morales DL, Prager RL, Wright CD, Puskas JD, Gammie JS, Haan CK, George KM, Sheng S, Peterson ED, Shewan CM, Han JM, Bongiorno PA, Yohe C, Williams WG, Mayer JE, Grover FL. **Successful linking of the Society of Thoracic Surgeons Database to Social Security data to examine the accuracy of Society of Thoracic Surgeons mortality data**. *J Thorac Cardiovasc Surg*. 2013; 145:976-83.
8. Jefferies JL, Morales DL. **Mechanical circulatory support in children: bridge to transplant versus recovery**. *Curr Heart Fail Rep*. 2012; 9:236-43.
9. Johnson EK, Zhang L, Adams ME, Phillips A, Freitas MA, Froehner SC, Green-Church KB, Montanaro F. **Proteomic analysis reveals new cardiac-specific dystrophin-associated proteins**. *PLoS One*. 2012; 7:e43515.
10. Khan MS, Heinle JS, Samayoa AX, Adachi I, Schecter 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.
11. 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.
12. Knudson JD, Neish SR, Cabrera AG, Lowry AW, Shamszad P, Morales DL, Graves DE, Williams EA, Rossano JW. **Prevalence and outcomes of pediatric in-hospital cardiopulmonary resuscitation in the United States: An analysis of the Kids' Inpatient Database***. *Crit Care Med*. 2012; 40:2940-4.
13. 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.
14. Lowry AW, Knudson JD, Cabrera AG, Graves DE, Morales DL, Rossano JW. **Cardiopulmonary resuscitation in hospitalized children with cardiovascular disease: estimated prevalence and outcomes from the kids' inpatient database**. *Pediatr Crit Care Med*. 2013; 14:248-55.
15. Mayer RR, Hwang SW, Reddy GD, Morales DL, Whitehead WE, Curry DJ, Bollo RJ, Luerssen TG, Jea A. **Neurosurgical complications of left ventricular assist devices in children**. *J Neurosurg Pediatr*. 2012; 10:370-5.
16. Morales DL. **Editorial response to "management of intracranial hemorrhage in a child with a left ventricular assist device"**. *Pediatr Transplant*. 2012; 16:401.
17. 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; 24:142-3.
18. Olabiyi OO, Morales DL, Franklin WJ. **De novo thrombus on an atrial septal defect device 3 years**

after its implantation. *Pediatr Cardiol*. 2013; 34:1269-71.

19. Park HK, Heinle JS, Morales DL. **Williams syndrome and obstructed total anomalous pulmonary venous return: a previously unreported association**. *Ann Thorac Surg*. 2012; 94:289-91.
20. Rama JA, Fan LL, Faro A, Elidemir O, Morales DL, Heinle JS, Smith EO, Hazen ML, Moonnumakal SP, Mallory GB, Schecter MG. **Lung transplantation for childhood diffuse lung disease**. *Pediatr Pulmonol*. 2013; 48:490-6.
21. 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.
22. Shepard CW, Kochilas L, Vinocur JM, Bryant R, Harvey BA, Bradley S, Decampli W, Louis JD. **Surgical Placement of Permanent Epicardial Pacing Systems in Very Low-Birth Weight Premature Neonates: A Review of Data From the Pediatric Cardiac Care Consortium (PCCC)**. *World J Pediatr Congenit Heart Surg*. 2012; 3:454-8.
23. Shuhaiber J, Shin AY, Gossett JG, Wypij D, Backer CL, Hanley FL, Khan MS, Fraser CD, Jacques F, Manning PB, Van Arsdell G, Mayer JE, Costello JM. **Surgical management of neonatal atrioventricular septal defect with aortic arch obstruction**. *Ann Thorac Surg*. 2013; 95:2071-7.
24. St Louis JD, Harvey BA, Menk JS, Raghuveer G, O'Brien JE, Jr., Bryant R, 3rd, Kochilas L. **Repair of "simple" total anomalous pulmonary venous connection: a review from the Pediatric Cardiac Care Consortium**. *Ann Thorac Surg*. 2012; 94:133-7; discussion 137-8.

Faculty, Staff, and Trainees

Faculty Members

David L. S. Morales, MD, Professor
Leadership Executive Co-Director, Heart Institute; Director and Chief, Division of Cardiothoracic Surgery

Roosevelt Bryant III, MD, Assistant Professor

Peter B. Manning, MD, Professor

Vincent Olshove, CCP, FPP, Instructor
Leadership Director, Cardiovascular Perfusion

Alistair Phillips, MD, Associate Professor
Leadership Surgical Director, Adult Congenital Heart Disease; Surgical Director, Transplantation

Joint Appointment Faculty Members

Marc G. Schecter, MD, Professor (Lung Transplant Program)

Clinical Staff Members

Traci Ashcraft, PA-C
Lindsay Pilgrim Galchick, PA-C
James A. Reagor, BS, CCP,
Associate Director, Cardiovascular Perfusion
Alicia Wilmoth, PA-C

Trainees

Muhammad Shoaib Khan, MD, Texas Children's Hospital/Baylor College of Medicine
Farhan Zafar, MD, Baylor College of Medicine