

Steven Leonard, M.D.
Congenital Cardiac Surgery

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EDUCATION

1976 – 1980 MD
University of Colorado School of Medicine
Denver, Colorado

1974 – 1976 BS (Physical Sciences)
Colorado State University
Fort Collins, Colorado

1972 – 1974 AS
Mesa College (now Colorado Mesa University)
Grand Junction, Colorado

POSTGRADUATE TRAINING

1988 Fellowship
Pediatric Cardiac Surgery
The Children’s Hospital/Harvard University
Boston, Massachusetts

1985 – 1987 Residency
Cardiothoracic Surgery
Medical University of South Carolina
Charleston, South Carolina

1980 – 1985 Residency
General Surgery
University of Texas Southwestern Medical Center
Dallas, Texas

BOARD CERTIFICATIONS

1986 American Board of Surgery (recertified 1997)
1988 American Board of Thoracic Surgery (recertified 1997 and 2008)
2009 Certification in Congenital Heart Surgery, American Board of Thoracic
Surgery (recertified 2019)

MEDICAL LICENSURE

1982 Texas
2009 Colorado

PROFESSIONAL EXPERIENCE

2022 – Congenital Cardiac Surgeon
Children’s Medical Center Dallas
Dallas, Texas
Clinical Professor of Cardiothoracic Surgery
University of Texas Southwestern Medical Center
Dallas, Texas

2021 – 2022 Congenital Cardiac Surgeon (Part-time position)
Rocky Mountain Hospital for Children
Denver, Colorado

2009 – 2020 Congenital Cardiac Surgeon (Director of Cardiac Surgery)
Rocky Mountain Hospital for Children
Denver, Colorado

2002 – 2009 Congenital Cardiac Surgeon
Children’s Medical Center Dallas
Dallas, Texas
Professor of Cardiothoracic Surgery
University of Texas Southwestern Medical Center
Dallas, Texas

1987 – 2009 Congenital Cardiac Surgeon
Children’s Medical Center Dallas
Dallas, Texas
Pediatric Cardio-Thoracic Surgery Associates (Private practice)
Clinical Appointment, University of Texas Southwestern Medical Center
Dallas, Texas

SOCIETY MEMBERSHIPS

1985 Parkland Surgical Society
1988 Aldo R. Castaneda Society of Pediatric Cardiovascular Surgery
1991 Society of Thoracic Surgeons
1991 American College of Surgeons
1999 American Academy of Pediatrics

BIBLIOGRAPHY

Journal Articles

Hood AG, Van Way CW, Leonard S, et al: Effects of cannulation technique and topical hypothermia on cardiac temperature during cold cardioplegic arrest. *AmSECT Proceedings* 1978.

Van Way CW, Hood AG, Leonard S, Bohus RW, Gentry SD: Thermokinetics of cold cardioplegic arrest. *J Cardiovasc Surg* 23:297-304, 1982.

Leonard SR, Crawford FA Jr: Care of the patient with a prosthetic heart valve. *J S C Med Assoc* 83(9):465-470, 1987.

Zellers TM, Zehr R, Weinstein E, Leonard S, Ring WS, Nikaidoh H: Two-dimensional and Doppler echocardiography alone can adequately define preoperative anatomy and hemodynamic status before repair of complete atrioventricular septal defect in infants less than one year old. *J Am Coll Cardiol* 26(2):574-575, 1995.

Reed MK, Leonard SR, Zellers TM, Nikaidoh H: Major intrahepatic venovenous fistulas after a modified Fontan operation. *Ann Thorac Surg* 61(2):713-715, 1996.

Heragu NP, Ramaciotti C, Leonard S, Kao JM, Lemler MS: Neonatal cardiology casebook: Aortopulmonary window with tetralogy of Fallot and pulmonary atresia: echocardiographic diagnosis and surgical repair in the neonatal period. *J Perinatol* 19(2):159-161. 1999.

Lequier LL, Leonard SR, Nikaidoh H, Lemler MS, Ramaciotti C: Extravascular Doppler measurement of cardiac output in infants and children after operations for congenital heart disease. *J Thorac Cardiovasc Surg* 117(6):1223-1225, 1999.

Lequier LL, Nikaidoh H, Leonard SR, Bokovoy JL, White ML, Scannon PJ, Giroir BP: Preoperative and postoperative endotoxemia in children with congenital heart disease. *Chest* 117(6):1706-1712, 2000.

Lemler MS, Scott WA, Leonard SR, Stromberg D, Ramaciotti C: Fenestration improves clinical outcome of the Fontan procedure: a prospective, randomized study. *Circulation* 105(2):207-212, 2002.

Mou SS, Haudek SB, Lequier L, Pena O, Leonard S, Nikaidoh H, Giroir BP, Stromberg D: Myocardial inflammatory activation in children with congenital heart disease. *Crit Care Med* 30(4):827-832, 2002.

Ma W, Lemler MS, Nikaidoh H, Leonard SR, Shang-Feaster GY, Giroir BP, Stromberg D: Usefulness of external counterpulsation early after the Fonta procedure in children. *Am J Cardiol* 90(9):1029-1031, 2002.

Kahwaji I, Ramaciotti C, Nikaidoh H, Leonard S, Harris K, Lemler M: Images in cardiovascular medicine: Echocardiographic diagnosis of anomalous drainage of the superior vena cava into the left atrium. *Circulation* 107(11):1560-1561, 2003.

Mou SS, Giroir BP, Molitor-Kirsch EA, Leonard SR, Nikaidoh H, Nizzi F, Town DA, Roy LC, Scott W, Stromberg D: Fresh whole blood versus reconstituted blood for pump priming in heart surgery in infants. *N Eng J Med* 351(16):1635-1644, 2004.

Lemler MS, Ramaciotti, Stromberg D, Scott WA, Leonard SR: The extracardiac lateral tunnel Fontan, constructed with bovine pericardium: comparison with the extracardiac conduit Fontan. *Am Heart J* 151(4):928-933, 2006.

Yeh T, Ramaciotti C, Leonard SR, Nikaidoh H: The aortic translocation (Nikaidoh) procedure: Midterm results superior to the Rastelli procedure. *J Thorac Cardiovasc Surg* 133(2):461-469, 2007.

Leonard SR, Nikaidoh H: The aortic translocation (Nikaidoh) operation. *Op Techniques Thorac Cardiovasc Surg* 13(3):172-180, 2008.

Sebastian VA, Guleserian KJ, Leonard SR, Forbess JM: Ministernotomy for repair of congenital cardiac disease. *Interact Cardiovasc Thorac Surg* 9:819-821, 2009.

Dimas VV, Leonard SR, Guleserian KJ, Forbess JM, Zellers TM: Stent implantation for coarctation of the aorta in a premature infant through carotid cutdown as a bridge to surgical correction. *J Thoracic Cardiovasc Surg* 139(4):1070-1071, 2010.

Sebastian VA, Guleserian KJ, Leonard SR, Forbess JM: Heart transplantation techniques after hybrid single-ventricle palliation. *J Card Surg* 25(5):596-600, 2010.

Ginther R, Sebastian VA, Huang R, Leonard SR, Gorney R, Guleserian KJ, Forbess JM: Cerebral near-infrared spectroscopy during cardiopulmonary bypass predicts superior vena cava oxygen saturation. *J Thorac Cardiovasc Surg* 143(2):359-365, 2011.

Textbook Chapters

Leonard SR, Sade RM: Palliative procedures in cyanotic heart disease. In *Glenn's Thoracic and Cardiovascular Surgery*, 5th edition. Eds: Baue AE, Geha AS, Hammond GL, Laks H, Naunheim KS. Appleton & Lange, 1990.

Leonard SR, Nikaidoh H, Thompson WR: Thoracentesis and chest tube insertion. In *Essentials of Pediatric Intensive Care*, 2nd edition. Eds: Levin DL, Morriss F. Quality Medical Publishing, Inc., 1997.

Leonard SR, Nikaidoh H: Pericardiocentesis. In *Essentials of Pediatric Intensive Care*, 2nd edition. Eds: Levin DL, Morriss F. Quality Medical Publishing, Inc., 1997.

Leonard SR, Nikaidoh H, Copeland MM, Drury M: Cardiothoracic surgery. In *Essential of Pediatric Intensive Care*. 2nd edition. Eds: Levin DL. Morriss F. Quality Medical Publishing, Inc., 1997.

Presentations

Hood AG, Van Way CW, Leonard S, et al: Rewarming kinetics and maintenance of cold cardioplegic arrest. Presented at XIII World Congress in Diseases of the Chest, Kyoto, Japan, July 3, 1978.

Leonard S: Surgical correction of transposition of the great arteries. Presented at AmSECT 34th International Conference, Dallas, Texas, March 9, 1996.

Leonard S: Recent developments in pediatric cardiac surgery. Presented at Pediatric Critical Care Nursing, Dallas, Texas, September 24, 1998.

Lequier L, Leonard S, Nikaidoh H, Bokovoy J, Giroir B: Detection and significance of endotoxin in children following cardiopulmonary bypass. Presented

at Society of Critical Care Medicine, 28th Educational and Scientific Symposium, San Francisco, California, January 25, 1999.

Ma W, Lemler M, Nikaidoh H, Leonard S, Shang-Feaster G, Giroir B, Stromberg D: External counterpulsation: First application to pediatric postoperative care. Poster presentation at Third International Symposium on Pediatric Cardiac Intensive Care, Miami, Florida, December 9-11, 1999.

Leonard S: Use of homografts in congenital heart surgery. Presented at 16th Annual Will-A-Miracle Conference: Twice blessed: Donor and recipients united in transplantation, Dallas, Texas, April 17, 2000.

Leonard S: Surgical interventions for the cardiac patient. Presented at Hot Topics in Pediatric Cardiology, Children's Medical Center, Dallas, Texas, September 2, 2000.

Nikaidoh H, Leonard SR: Aortic translocation and biventricular outflow tract reconstruction for d-transposition associated with ventricular septal defect and pulmonary stenosis: a follow-up. Presented at the 3rd World Congress of Pediatric Cardiology and Cardiac Surgery, Toronto, Ontario, Canada, May 28, 2001.

Leonard S: Strategies of cardiopulmonary bypass for cardiac surgery. Presented at 3rd Annual Making a World of Difference Lecture Series, Children's Medical Center, Dallas, Texas, May 17, 2002.

Leonard S, Zellers T, Scott WA, Eapen R: Pediatric cardiac advancements past, present and future: non-surgical and surgical. Presented at Heart-to-Heart Healing Conference, Children's Medical Center, Dallas, Texas, April 1, 2006.

Sebastian VA, Guleserian KJ, Leonard S, Nikaidoh H, Forbess J: Ministernotomy for repair of congenital heart disease. Presented at 2008 annual meeting of the International Society for Minimally Invasive Cardiothoracic Surgery, Boston, Massachusetts, June 14, 2008.

Forbess JM, Ginther R, Huang R, Leonard S, Gorney R, Guleserian KL Cerebral near infrared spectroscopy during cardiopulmonary bypass accurately predicts superior vena cava oxygenation. Presented at World Congress of Pediatric Cardiology and Cardiac Surgery, Cairns, Australia, June 21-26, 2009.

Leonard S: Surgical options for neonatal cyanotic heart disease. Presented at Timely Topics in Obstetrics and Neonatology, Greenwood Village, Colorado, November 13, 2009.