

Stanford



Frank Hanley

Lawrence Crowley, M.D., Endowed Professor of Child Health
Cardiothoracic Surgery

CLINICAL OFFICE (PRIMARY)

- **Cardiothoracic Surgery**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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Bio

CLINICAL FOCUS

- Cardiac Surgery
- Cardiothoracic Surgery, Pediatric
- Thoracic and Cardiac Surgery

ACADEMIC APPOINTMENTS

- Professor, Cardiothoracic Surgery
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

HONORS AND AWARDS

- Outstanding Graduating Student in Surgery (Martin J Loeb Award), Tufts Medical School (1978)
- Alpha Omega Alpha medical society, University of California, San Francisco (1986)
- Outstanding Resident Teaching Award, University of California, San Francisco (1986)
- Outstanding Surgical Chief Resident Award, University of California, San Francisco (1986)
- Excellence in Teaching Award in the Department of Surgery, University of California, San Francisco (1992-94)
- Lawrence Crowley, MD, Endowed Professorship in Child Health, Stanford (2004)

PROFESSIONAL EDUCATION

- Board Certification: Thoracic and Cardiac Surgery, American Board of Thoracic Surgery (2002)
- Medical Education: Tufts University School of Medicine (1978) MA
- Fellowship: UCSF Cardiothoracic Surgery Fellowship (1988) CA
- Residency: UCSF Dept of General Surgery (1986) CA
- Internship: UCSF Dept of General Surgery (1979) CA

- Board Certification: Congenital Cardiac Surgery, American Board of Thoracic Surgery (2016)

LINKS

- Stanford Pediatric Cardiac Services: <http://med.stanford.edu/ctsurgery/clinical-care/pediatric-cardiac-surgery-services.html>
- Make an Appointment: <http://med.stanford.edu/ctsurgery/contact-us.html#division-of-pediatric-cardiac-surgery>
- Get a Second Opinion: <https://www.stanfordchildrens.org/en/landing/second-opinion>
- Follow us on Twitter: <https://twitter.com/StanfordCTSurg>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Frank L. Hanley, MD, is a professor of cardiothoracic surgery and director of the Children's Heart Center and also directs the pediatric cardiac surgery programs at three satellite surgical sitesOakland Children's Hospital of Central California in Madera and Sutter Memorial Hospital in Sacramento making the expertise of Lucile Packard Children's Hospital available to these communities.

His research and clinical work focuses on the development of interventional techniques for fetal and neonatal treatment of congenital heart disease, pulmonary, vascular physiology, and the neurologic impact of open-heart surgery. He developed and pioneered the "unifocalization" procedure, in which a single procedure is used to repair a complex and life-threatening congenital heart defect rather than several staged open-heart surgeries as performed by other surgeons. Currently, Lucile Packard Children's Hospital is a worldwide referral site for patients requiring these procedures.

Hanley earned his BA from Brown University and his MD from Tufts University School of Medicine. He completed a surgical internship at the University of California, San Francisco (UCSF), where he later became chief resident in both general surgery and cardiothoracic surgery and completed a research fellowship at UCSF's Cardiovascular Research Institute. Hanley was a tenured professor and chief of the Division of Cardiothoracic Surgery at UCSF and received the Excellence in Teaching Award in the Department of Surgery in 1994. Prior to joining UCSF, he was on the faculty at Children's Hospital Boston and served as associate professor at Harvard Medical School from 1989 to 1992. He joined the Stanford faculty in 2001 and was appointed the first holder of the Lawrence Crowley, MD, Endowed Professorship in Child Health in December 2004.

Hanley is actively involved in exploring new approaches for the surgical repair of pediatric heart disease and is developing evidence-based guidelines for clinical care. He is a member of many professional societies, including the American Heart Association, the American Association for Thoracic Surgery, the Howard C. Naffziger Surgical Society, and the Society of Thoracic Surgeons. He is a frequently invited guest lecturer, having given more than 75 presentations at regional, national, and international conferences and symposiums, and having published more than 100 peer-reviewed articles and book chapters, and authored or edited three major textbooks.

Publications

PUBLICATIONS

- **The Role of Microenvironment in Preserving the Potency of Adult Porcine Pulmonary Valve Stem Cells In Vitro** *INTERNATIONAL JOURNAL OF STEM CELLS*
Chalajour, F., Siyahian, A., Hanley, F. L.
2018; 11 (1): 121-+
- **Repair of Ductus or Hemi-Truncus to One Lung and Major Aortopulmonary Collaterals to the Other Lung.** *The Annals of thoracic surgery*
Mainwaring, R. D., Rosenblatt, T. R., Patrick, W. L., Ma, M., Peng, L., Hanley, F. L.
2018

- **Surgical algorithm and results for repair of pulmonary atresia with ventricular septal defect and major aortopulmonary collaterals.** *The Journal of thoracic and cardiovascular surgery*
Mainwaring, R. D., Patrick, W. L., Roth, S. J., Kamra, K., Wise-Faberowski, L., Palmon, M., Hanley, F. L.
2018
- **Pulmonary reinterventions after complete unifocalization and repair in infants and young children with tetralogy of Fallot with major aortopulmonary collaterals** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Bauser-Heaton, H., Borquez, A., Asija, R., Wise-Faberowski, L., Zhang, Y., Downey, L., Perry, S. B., Koth, A., Peng, L. F., Algaze, C. A., Hanley, F. L., McElhinney, D. B.
2018; 155 (4): 1696–1707
- **Interstage evaluation of homograft-valved right ventricle to pulmonary artery conduits for palliation of hypoplastic left heart syndrome** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Sandeep, N., Punn, R., Balasubramanian, S., Smith, S. N., Reinhartz, O., Zhang, Y., Wright, G. E., Peng, L. F., Wise-Faberowski, L., Hanley, F. L., McElhinney, D. B.
2018; 155 (4): 1747-+
- **Impact of Phrenic Nerve Palsy and Need for Diaphragm Plication Following Surgery for Pulmonary Atresia With Ventricular Septal Defect and Major Aortopulmonary Collaterals.** *Seminars in thoracic and cardiovascular surgery*
Greene, C. L., Mainwaring, R. D., Sidell, D., Yarlagadda, V. V., Patrick, W. L., Hanley, F. L.
2018
- **THE DEVELOPMENT AND EFFICACY OF A PEDIATRIC CARDIOLOGY FELLOWSHIP ONLINE PREPARATORY COURSE**
Motonaga, K., Sacks, L., Olson, I., Balasubramanian, S., Chen, S., Peng, L., Feinstein, J., Silverman, N., Hanley, F., Axelrod, D., Krawczeski, C., Ceresnak, S.
ELSEVIER SCIENCE INC.2018: 2622
- **Comprehensive Management of Major Aortopulmonary Collaterals in the Repair of Tetralogy of Fallot.** *Seminars in thoracic and cardiovascular surgery. Pediatric cardiac surgery annual*
Ma, M., Mainwaring, R. D., Hanley, F. L.
2018; 21: 75–82
- **Anesthetic Management During Surgery for Tetralogy of Fallot With Pulmonary Atresia and Major Aortopulmonary Collateral Arteries** *WORLD JOURNAL FOR PEDIATRIC AND CONGENITAL HEART SURGERY*
Quinonez, Z. A., Downey, L., Abbasi, R. K., Kuan, C., Asija, R., McElhinney, D. B., Hanley, F. L., Mainwaring, R. D., Wise-Faberowski, L.
2018; 9 (2): 236–41
- **An analysis of patients requiring unifocalization revision following midline unifocalization for pulmonary atresia with ventricular septal defect and major aortopulmonary collaterals.** *European journal of cardio-thoracic surgery : official journal of the European Association for Cardio-thoracic Surgery*
Mainwaring, R. D., Patrick, W. L., Ma, M., Hanley, F. L.
2018
- **Echocardiography-Derived Left Ventricular Outflow Tract Gradient and Left Ventricular Posterior Wall Thickening Are Associated with Outcomes for Anatomic Repair in Congenitally Corrected Transposition of the Great Arteries.** *Journal of the American Society of Echocardiography*
Moodley, S., Balasubramanian, S., Tacy, T. A., Chan, F., Hanley, F. L., Punn, R.
2017
- **Major Aortopulmonary Collateral Arteries With Anatomy Other Than Pulmonary Atresia/Ventricular Septal Defect.** *Annals of thoracic surgery*
Patrick, W. L., Mainwaring, R. D., Reinhartz, O., Punn, R., Tacy, T., Hanley, F. L.
2017
- **Bronchoscopy in children with tetralogy of fallot, pulmonary atresia, and major aortopulmonary collaterals.** *Pediatric pulmonology*
Sidell, D. R., Koth, A. M., Bauser-Heaton, H., McElhinney, D. B., Wise-Faberowski, L., Tracy, M. C., Hanley, F. L., Asija, R.
2017
- **Programmatic Approach to Management of Tetralogy of Fallot With Major Aortopulmonary Collateral Arteries A 15-Year Experience With 458 Patients** *CIRCULATION-CARDIOVASCULAR INTERVENTIONS*
Bauser-Heaton, H., Borquez, A., Han, B., Ladd, M., Asija, R., Downey, L., Koth, A., Algaze, C. A., Wise-Faberowski, L., Perry, S. B., Shin, A., Peng, L. F., Hanley, et al

2017; 10 (4)

- **Left Ventricular Retraining and Double Switch in Patients With Congenitally Corrected Transposition of the Great Arteries.** *World journal for pediatric & congenital heart surgery*
Ibrahimiye, A. N., Mainwaring, R. D., Patrick, W. L., Downey, L., Yarlagadda, V., Hanley, F. L.
2017; 8 (2): 203-209
- **Acute Kidney Injury in Patients Undergoing the Extracardiac Fontan Operation With and Without the Use of Cardiopulmonary Bypass** *PEDIATRIC CRITICAL CARE MEDICINE*
Algaze, C. A., Koth, A. M., Faberowski, L. W., Hanley, F. L., Krawczeski, C. D., Axelrod, D. M.
2017; 18 (1): 34-43
- **Computational simulation of postoperative pulmonary flow distribution in Alagille patients with peripheral pulmonary artery stenosis** *Computational simulation of postoperative pulmonary flow distribution in Alagille patients with peripheral pulmonary artery stenosis*
Yang, W., Feinstein, J., Marsden, A., Vignon-Clementel, I.
2017; 00: 1-10
- **An Analysis of Left Ventricular Retraining in Patients With Dextro- and Levo-Transposition of the Great Arteries.** *The Annals of thoracic surgery*
Mainwaring, R. D., Patrick, W. L., Ibrahimiye, A. N., Watanabe, N. n., Lui, G. K., Hanley, F. L.
2017
- **Practice Patterns in Postoperative Echocardiographic Surveillance after Congenital Heart Surgery in Children: A Single Center Experience** *JOURNAL OF PEDIATRICS*
Arunamata, A., Axelrod, D. M., Kipps, A. K., McElhinney, D. B., Shin, A. Y., Hanley, F. L., Olson, I. L., Roth, S. J., Tierney, E. S.
2017; 180: 87-?
- **Practice Patterns in Postoperative Echocardiographic Surveillance after Congenital Heart Surgery in Children: A Single Center Experience.** *journal of pediatrics*
Arunamata, A., Axelrod, D. M., Kipps, A. K., McElhinney, D. B., Shin, A. Y., Hanley, F. L., Olson, I. L., Roth, S. J., Selamet Tierney, E. S.
2016
- **Acute Kidney Injury in Patients Undergoing the Extracardiac Fontan Operation With and Without the Use of Cardiopulmonary Bypass.** *Pediatric critical care medicine*
Algaze, C. A., Koth, A. M., Faberowski, L. W., Hanley, F. L., Krawczeski, C. D., Axelrod, D. M.
2016: -?
- **Prevalence and Anatomy of Retroesophageal Major Aortopulmonary Collateral Arteries.** *Annals of thoracic surgery*
Mainwaring, R. D., Patrick, W. L., Carrillo, S. A., Ibrahimiye, A. N., Muralidaran, A., Hanley, F. L.
2016; 102 (3): 877-882
- **Right Ventricular Outflow Tract Obstruction: Pulmonary Atresia With Intact Ventricular Septum, Pulmonary Stenosis, and Ebstein's Malformation.** *Pediatric critical care medicine*
Kwiatkowski, D. M., Hanley, F. L., Krawczeski, C. D.
2016; 17 (8): S323-9
- **Surgical Techniques for Repair of Peripheral Pulmonary Artery Stenosis.** *Seminars in thoracic and cardiovascular surgery*
Mainwaring, R. D., Hanley, F. L.
2016; 28 (2): 418-424
- **Postoperative Outcomes of Children With Tetralogy of Fallot, Pulmonary Atresia, and Major Aortopulmonary Collaterals Undergoing Reconstruction of Occluded Pulmonary Artery Branches** *ANNALS OF THORACIC SURGERY*
Asija, R., Koth, A. M., Velasquez, N., Chan, F. P., Perry, S. B., Hanley, F. L., McElhinney, D.
2016; 101 (6): 2329-2334
- **Pulmonary Valve Repair for Patients With Acquired Pulmonary Valve Insufficiency** *ANNALS OF THORACIC SURGERY*
Said, S. M., Mainwaring, R. D., Ma, M., Tacy, T. A., Hanley, F. L.
2016; 101 (6): 2294-2301
- **Surgical Repair of 115 Patients With Anomalous Aortic Origin of a Coronary Artery From a Single Institution.** *World journal for pediatric & congenital heart surgery*
Mainwaring, R. D., Murphy, D. J., Rogers, I. S., Chan, F. P., Petrossian, E., Palmon, M., Hanley, F. L.

2016; 7 (3): 353-359

- **Exploring the Role of Polycythemia in Patients With Cyanosis After Palliative Congenital Heart Surgery.** *Pediatric critical care medicine*
Siehr, S. L., Shi, S., Hao, S., Hu, Z., Jin, B., Hanley, F., Reddy, V. M., McElhinney, D. B., Ling, X. B., Shin, A. Y.
2016; 17 (3): 216-222
- **Mitral Stenosis and Aortic Atresia-A Risk Factor for Mortality After the Modified Norwood Operation in Hypoplastic Left Heart Syndrome** *ANNALS OF THORACIC SURGERY*
Siehr, S. L., Maeda, K., Connolly, A. A., Tacy, T. A., Reddy, V. M., Hanley, F. L., Perry, S. B., Wright, G. E.
2016; 101 (1): 162-168
- **Critical Role of Coaptive Strain in Aortic Valve Leaflet Homeostasis: Use of a Novel Flow Culture Bioreactor to Explore Heart Valve Mechanobiology.** *Journal of the American Heart Association*
Maeda, K., Ma, X., Hanley, F. L., Riemer, R. K.
2016; 5 (8)
- **Anatomic Factors Associated With Truncal Valve Insufficiency and the Need for Truncal Valve Repair.** *World journal for pediatric & congenital heart surgery*
Patrick, W. L., Mainwaring, R. D., Carrillo, S. A., Ma, M., Reinhartz, O., Petrossian, E., Selamet Tierney, E. S., Reddy, V. M., Hanley, F. L.
2016; 7 (1): 9-15
- **Mitral Stenosis and Aortic Atresia-A Risk Factor for Mortality After the Modified Norwood Operation in Hypoplastic Left Heart Syndrome.** *Annals of thoracic surgery*
Siehr, S. L., Maeda, K., Connolly, A. A., Tacy, T. A., Reddy, V. M., Hanley, F. L., Perry, S. B., Wright, G. E.
2016; 101 (1): 162-167
- **Surgical Repair of Pulmonary Atresia With Ventricular Septal Defect and Major Aortopulmonary Collaterals With Absent Intrapericardial Pulmonary Arteries** *ANNALS OF THORACIC SURGERY*
Carrillo, S. A., Mainwaring, R. D., Patrick, W. L., Bauser-Heaton, H. D., Peng, L., Reddy, V. M., Hanley, F. L.
2015; 100 (2): 606-614
- **Left Ventricular Retraining and Late Arterial Switch for D-Transposition of the Great Arteries.** *Annals of thoracic surgery*
Watanabe, N., Mainwaring, R. D., Carrillo, S. A., Lui, G. K., Reddy, V. M., Hanley, F. L.
2015; 99 (5): 1655-1661
- **Fate of Right Ventricle to Pulmonary Artery Conduits After Complete Repair of Pulmonary Atresia and Major Aortopulmonary Collaterals** *ANNALS OF THORACIC SURGERY*
Mainwaring, R. D., Patrick, W. L., Punn, R., Palmon, M., Reddy, V. M., Hanley, F. L.
2015; 99 (5): 1685-1691
- **Left Ventricular Retraining and Late Arterial Switch for D-Transposition of the Great Arteries** *ANNALS OF THORACIC SURGERY*
Watanabe, N., Mainwaring, R. D., Carrillo, S. A., Lui, G. K., Reddy, V. M., Hanley, F. L.
2015; 99 (5): 1655-1663
- **Contemporaneous comparison of the Yasui and Norwood procedures at a single institution.** *journal of thoracic and cardiovascular surgery*
Carrillo, S. A., Mainwaring, R. D., Schaffer, J. M., Wright, G., Maeda, K., Hanley, F. L., Reddy, V. M.
2015; 149 (2): 508-513
- **Are preoperative B-type natriuretic peptide levels associated with outcome after pulmonary artery banding and the double switch operation in patients with congenitally corrected transposition of the great arteries: A pilot study** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Char, D. S., Shiboski, S. C., Hanley, F. L., Fineman, J. R.
2014; 148 (5): 2434-2436
- **Tetralogy of Fallot: aorto-pulmonary collaterals and pulmonary arteries have distinctly different transcriptomes** *PEDIATRIC RESEARCH*
Ma, X., Barboza, L. A., Siyahian, A., Reinhartz, O., Maeda, K., Reddy, V. M., Hanley, F. L., Riemer, R. K.
2014; 76 (4): 341-346
- **Reperfusion pulmonary edema in children with tetralogy of Fallot, pulmonary atresia, and major aortopulmonary collateral arteries undergoing unifocalization procedures: A pilot study examining potential pathophysiologic mechanisms and clinical significance** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Asija, R., Roth, S. J., Hanley, F. L., Peng, L., Liu, K., Abbott, J., Zhuo, H., Matthay, M.

2014; 148 (4): 1560-1565

- **Coronary sinus obstruction after atrioventricular canal defect repair.** *Congenital heart disease*
Peng, D. M., Sun, H. Y., Hanley, F. L., Olson, I., Punn, R.
2014; 9 (4): E121-4
- **Completion of the Three-Stage Fontan Pathway Without Cardiopulmonary Bypass.** *World journal for pediatric & congenital heart surgery*
Mainwaring, R. D., Reddy, V. M., Hanley, F. L.
2014; 5 (3): 427-433
- **Preoperative B-type natriuretic peptide levels are associated with outcome after total cavopulmonary connection (Fontan).** *journal of thoracic and cardiovascular surgery*
Radman, M., Keller, R. L., Oishi, P., Datar, S. A., Wellnitz, K., Azakie, A., Hanley, F., Char, D., Hsu, J., Amrinovin, R., Adatia, I., Fineman, J. R.
2014; 148 (1): 212-219
- **Surgical repair of anomalous aortic origin of a coronary artery†.** *European journal of cardio-thoracic surgery*
Mainwaring, R. D., Reddy, V. M., Reinhartz, O., Petrossian, E., Punn, R., Hanley, F. L.
2014; 46 (1): 20-26
- **Incidence and Risk Factors of Complete Atrioventricular Block after Operative Ventricular Septal Defect Repair** *CONGENITAL HEART DISEASE*
Siehr, S. L., Hanley, F. L., Reddy, V. M., Miyake, C. Y., Dubin, A. M.
2014; 9 (3): 211-215
- **Early complete repair of pulmonary atresia with ventricular septal defect and major aortopulmonary collaterals.** *Annals of thoracic surgery*
Watanabe, N., Mainwaring, R. D., Reddy, V. M., Palmon, M., Hanley, F. L.
2014; 97 (3): 909-915
- **Home monitoring program reduces interstage mortality after the modified Norwood procedure.** *journal of thoracic and cardiovascular surgery*
Siehr, S. L., Norris, J. K., Bushnell, J. A., Ramamoorthy, C., Reddy, V. M., Hanley, F. L., Wright, G. E.
2014; 147 (2): 718-23 e1
- **Home monitoring program reduces interstage mortality after the modified Norwood procedure** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Siehr, S. L., Norris, J. K., Bushnell, J. A., Ramamoorthy, C., Reddy, V. M., Hanley, F. L., Wright, G. E.
2014; 147 (2): 718-?
- **Atherosclerosis causing recurrent catastrophic aortopulmonary shunt dehiscence in a patient with Alagille syndrome.** *Pediatric cardiology*
May, L., Hanley, F. L., Connolly, A. J., Reddy, S.
2013; 34 (8): 1945-1948
- **Innominate artery cannulation and antegrade cerebral perfusion for aortic arch reconstruction in infants and children.** *World journal for pediatric & congenital heart surgery*
Nasirov, T., Mainwaring, R. D., Reddy, V. M., Sleasman, J., Margetson, T., Hanley, F. L.
2013; 4 (4): 356-361
- **Fetal cardiac intervention: Improved results of fetal cardiac bypass in immature fetuses using the TinyPump device.** *journal of thoracic and cardiovascular surgery*
Sebastian, V. A., Ferro, G., Kagawa, H., Nasirov, T., Maeda, K., Ferrier, W. T., Takatani, S., Riemer, R. K., Hanley, F. L., Reddy, V. M.
2013; 145 (6): 1460-1464
- **Surgical management of neonatal atrioventricular septal defect with aortic arch obstruction.** *Annals of thoracic surgery*
Shuhaiber, J., Shin, A. Y., Gossett, J. G., Wypij, D., Backer, C. L., Hanley, F. L., Khan, M. S., Fraser, C. D., Jacques, F., Manning, P. B., Van Arsdell, G., Mayer, J. E., Costello, et al
2013; 95 (6): 2071-2077
- **Aortic valve disease in pulmonary atresia and major aortopulmonary collaterals.** *Annals of thoracic surgery*
Mainwaring, R. D., Dimeling, G., Punn, R., Hanley, F. L.
2013; 95 (6): 2122-2125
- **Postoperative respiratory failure in children with tetralogy of fallot, pulmonary atresia, and major aortopulmonary collaterals: a pilot study.** *Pediatric critical care medicine*

- Asija, R., Hanley, F. L., Roth, S. J.
2013; 14 (4): 384-389
- **Surgical Reconstruction of Pulmonary Stenosis With Ventricular Septal Defect and Major Aortopulmonary Collaterals** *ANNALS OF THORACIC SURGERY*
Mainwaring, R. D., Punn, R., Reddy, V. M., Hanley, F. L.
2013; 95 (4): 1417-1421
 - **Hemodynamic Assessment After Complete Repair of Pulmonary Atresia With Major Aortopulmonary Collaterals** *ANNALS OF THORACIC SURGERY*
Mainwaring, R. D., Reddy, V. M., Peng, L., Kuan, C., Palmon, M., Hanley, F. L.
2013; 95 (4): 1397-1402
 - **MAJOR AORTOPULMONARY COLLATERAL ARTERY NOMENCLATURE** *62nd Annual Scientific Session of the American-College-of-Cardiology*
Algaze, C. A., Peng, L. F., Feinstein, J. A., Reddy, V. M., Hanley, F. L., Perry, S. B.
ELSEVIER SCIENCE INC.2013: E543–E543
 - **EXTRACARDIAC CONDUIT FONTAN PROCEDURE WITHOUT THE USE OF CARDIOPULMONARY BYPASS: EARLY OUTCOMES** *62nd Annual Scientific Session of the American-College-of-Cardiology*
Algaze, C. A., Reddy, V. M., Hanley, F. L., Perry, S. B.
ELSEVIER SCIENCE INC.2013: E503–E503
 - **Surgical reconstruction of peripheral pulmonary artery stenosis in Williams and Alagille syndromes** *38th Annual Meeting of the Western-Thoracic-Surgical-Association*
Monge, M. C., Mainwaring, R. D., Sheikh, A. Y., Punn, R., Reddy, V. M., Hanley, F. L.
MOSBY-ELSEVIER.2013: 476–81
 - **Computational fluid dynamic simulations for determination of ventricular workload in aortic arch obstructions** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Coogan, J. S., Chan, F. P., LaDisa, J. F., Taylor, C. A., Hanley, F. L., Feinstein, J. A.
2013; 145 (2): 489-U535
 - **Computational fluid dynamic simulations for determination of ventricular workload in aortic arch obstructions.** *journal of thoracic and cardiovascular surgery*
Coogan, J. S., Chan, F. P., LaDisa, J. F., Taylor, C. A., Hanley, F. L., Feinstein, J. A.
2013; 145 (2): 489-495 e1
 - **Prevalence of Anomalous Coronary Arteries in Pulmonary Atresia with Ventricular Septal Defect and Major Aortopulmonary Collaterals.** *Journal of the American College of Cardiology*
Muralidaran, A. n., Mainwaring, R. D., Reddy, V. M., Hanley, F. L.
2013
 - **Early Outcomes After Extracardiac Conduit Fontan Operation Without Cardiopulmonary Bypass** *PEDIATRIC CARDIOLOGY*
McCammond, A. N., Kuo, K., Parikh, V. N., Abdullah, K., Balise, R., Hanley, F. L., Roth, S. J.
2012; 33 (7): 1078-1085
 - **Late Outcomes in Patients Undergoing Aortopulmonary Window for Pulmonary Atresia/Stenosis and Major Aortopulmonary Collaterals** *ANNALS OF THORACIC SURGERY*
Mainwaring, R. D., Reddy, V. M., Perry, S. B., Peng, L., Hanley, F. L.
2012; 94 (3): 842-849
 - **Predictors for use of temporary epicardial pacing wires after pediatric cardiac surgery** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Gupta, P., Jines, P., Gossett, J. M., Maurille, M., Hanley, F. L., Reddy, V. M., Miyake, C. Y., Roth, S. J.
2012; 144 (3): 557-562
 - **Surgical outcomes for patients with pulmonary atresia/major aortopulmonary collaterals and Alagille syndrome** *25th Annual Meeting of the European-Association-for-Cardio-Thoracic-Surgery (EACTS)*
Mainwaring, R. D., Sheikh, A. Y., Punn, R., Reddy, V. M., Hanley, F. L.
OXFORD UNIV PRESS INC.2012: 235–41

- **Midterm Results of the Modified Ross/Konno Procedure in Neonates and Infants** *ANNALS OF THORACIC SURGERY*
Maeda, K., Rizal, R. E., Lavrsen, M., Malhotra, S. P., Akram, S. A., Davies, R., Suleman, S., Reinhartz, O., Murphy, D. J., Hanley, F. L., Reddy, V. M.
2012; 94 (1): 156-163
- **Pulmonary reperfusion injury after the unifocalization procedure for tetralogy of Fallot, pulmonary atresia, and major aortopulmonary collateral arteries** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Maskatia, S. A., Feinstein, J. A., Newman, B., Hanley, F. L., Roth, S. J.
2012; 144 (1): 184-189
- **Reconstruction of Pulmonary Artery in a Newborn Using a Porcine Small Intestinal Submucosal Patch** *ANNALS OF THORACIC SURGERY*
Chalajour, F., Barboza, L. A., Boni, L., Snyder, R., Hanley, F. L., Reddy, V. M., Riemer, R. K.
2012; 93 (4): 1311-1315
- **Surgical Reconstruction of Tracheal Stenosis in Conjunction With Congenital Heart Defects** *Basic Science Forum of the 58th Annual Meeting of the Southern-Thoracic-Surgical-Association*
Mainwaring, R. D., Shillingford, M., Davies, R., Koltai, P., Navaratnam, M., Reddy, V. M., Hanley, F. L.
ELSEVIER SCIENCE INC.2012: 1266-73
- **Late Repair of the Native Pulmonary Valve in Patients With Pulmonary Insufficiency After Surgery for Tetralogy of Fallot** *ANNALS OF THORACIC SURGERY*
Mainwaring, R. D., Pirolli, T., Punn, R., Hanley, F. L.
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