

Stanford



Jeffrey A. Feinstein, MD, MPH

Dunlevie Family Professor of Pulmonary Vascular Disease and Professor, by courtesy, of Bioengineering at the Lucile Salter Packard Children's Hospital

Pediatrics - Cardiology

CLINICAL OFFICES

- **Heart Center**

725 Welch Rd Ste 120

Palo Alto, CA 94304

Tel (650) 721-2121

Fax (650) 724-4922

Bio

CLINICAL FOCUS

- Pulmonary Hypertension
- Pulmonary Vascular Disease
- Pulmonary Vascular Abnormalities
- Congenital Heart Defects
- Biomechanical Engineering / Bioengineering
- Pediatric Cardiology

ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Pediatrics - Cardiology
- Professor - Med Center Line (By courtesy), Bioengineering
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Medical Director, Pediatric Pulmonary Hypertension Program, Lucile Packard Children's Hospital at Stanford, (1998- present)
- Director, Vera Moulton Wall Center for Pulmonary Vascular Disease, Stanford University Medical Center, (2000- present)
- Director, Pediatric Cardiology Training Program, Stanford University School of Medicine, (2009-2015)
- Associate Chair, Education; Department of Pediatrics (Fellowships), Stanford University School of Medicine, (2012-2016)

HONORS AND AWARDS

- Holder, The Dunlevie Family Professorship in Pulmonary Vascular Disease, .

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Medical Advisory Board, Alagille Syndrome Alliance (2016 - present)

PROFESSIONAL EDUCATION

- Fellowship: Children's Hospital Boston Cardiovascular Intensive Care Fellowship (1998) MA
- Fellowship: Children's National Health System Pediatric Cardiology Fellowship (1997) DC
- Medical Education: New York Medical College Registrar (1991) NY
- Board Certification: Pediatric Cardiology, American Board of Pediatric Cardiology (1998)
- Residency: Children's Hospital National Medical Center (1994) DC
- Internship: Children's National Medical Center (1992) DC
- MPH, George Washington University , Health Administration (1994)
- MS, Duke University , Biomedical Engineering (1987)
- BS, Duke University , Computer Science (1986)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Research interests include (1) computer simulation and modeling of cardiovascular physiology with specific attention paid to congenital heart disease and its treatment, (2) the evaluation and treatment of pulmonary hypertension/pulmonary vascular diseases, and (3) development and testing of medical devices/therapies for the treatment of congenital heart disease and pulmonary vascular diseases.

CLINICAL TRIALS

- Investigation of Dysynchrony in Patients With Pulmonary Hypertension, Recruiting
- Measurements and Characterization of Doppler Signals From the Right Chest in Pediatric and Adult Patients, Recruiting
- Pediatric Pulmonary Hypertension Network (PPHNet) Informatics Registry, Recruiting
- Perioperative Treprostinil in Pediatric Patients Undergoing the Fontan Operation, Recruiting
- Remodulin as Add-on Therapy for the Treatment of Persistent Pulmonary Hypertension of the Newborn, Recruiting
- Side Effects of Pulmonary Hypertension Medications, Recruiting
- Characterization of Pulmonary Artery Stenoses in Alagille Syndrome - a Medical Record Review, Not Recruiting
- Pharmacokinetic Study of Sub-q and IV Treprostinil in Kids With Pulmonary Arterial Hypertension (PAH), Not Recruiting
- Safety, Tolerability, and Pharmacokinetics of Oral Treprostinil in Pediatric PAH Patients Aged 7 to 17 Years, Not Recruiting

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (NonAC)

Aekaansh Verma

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Bioengineering (Phd Program)

Publications

PUBLICATIONS

- **EXPRESS: Oral Treprostinil in Transition or as Add-on Therapy in Pediatric Pulmonary Arterial Hypertension.** *Pulmonary circulation* Ivy, D. D., Feinstein, J., Yung, D., Mullen, M., Kirkpatrick, E. C., Hirsch, R., Austin, E., Fineman, J., Truong, U., Solum, D., Deng, C. Q., Hopper, R. K. 2019: 2045894019856471

- **Evolution of hemodynamic forces in the pulmonary tree with progressively worsening pulmonary arterial hypertension in pediatric patients** *BIOMECHANICS AND MODELING IN MECHANOBIOLOGY*
Yang, W., Dong, M., Rabinovitch, M., Chan, F. P., Marsden, A. L., Feinstein, J. A.
2019; 18 (3): 779–96
- **Patient-Specific Multiscale Modeling of the Assisted Bidirectional Glenn** *ANNALS OF THORACIC SURGERY*
Shang, J. K., Esmaily, M., Verma, A., Reinhartz, O., Figliola, R. S., Hsia, T., Feinstein, J. A., Marsden, A. L.
2019; 107 (4): 1232–40
- **Death or resolution: the "natural history" of pulmonary hypertension in bronchopulmonary dysplasia** *JOURNAL OF PERINATOLOGY*
Altit, G., Bhombal, S., Hopper, R. K., Tacy, T. A., Feinstein, J.
2019; 39 (3): 415–25
- **Pulmonary lung Doppler signals: normative data in a pediatric population compared with adults.** *Journal of clinical monitoring and computing*
Burstein, D. S., Hopper, R. K., McCarthy, E. K., Hall, K., Schatzberger, R., Palti, Y., Feinstein, J. A.
2019
- **Evolution of hemodynamic forces in the pulmonary tree with progressively worsening pulmonary arterial hypertension in pediatric patients.** *Biomechanics and modeling in mechanobiology*
Yang, W., Dong, M., Rabinovitch, M., Chan, F. P., Marsden, A. L., Feinstein, J. A.
2019
- **Death or resolution: the "natural history" of pulmonary hypertension in bronchopulmonary dysplasia.** *Journal of perinatology : official journal of the California Perinatal Association*
Altit, G., Bhombal, S., Hopper, R. K., Tacy, T. A., Feinstein, J.
2019
- **Subcutaneous and Intravenous Treprostinil Pharmacokinetics in Children With Pulmonary Vascular Disease.** *Journal of cardiovascular pharmacology*
Hall, K., Ogawa, M., Sakarovitch, C., Hopper, R. K., Adamson, G. T., Hanna, B., Ivy, D. D., Miller-Reed, K., Yung, D., McCarthy, E., Siehr-Handler, S. L., Feinstein, J. A.
2019; 73 (6): 383–93
- **Pulmonary hemorrhage in children with Alagille syndrome undergoing cardiac catheterization.** *Catheterization and cardiovascular interventions : official journal of the Society for Cardiac Angiography & Interventions*
Adamson, G. T., Peng, L. F., Feinstein, J. A., Yarlagadda, V. V., Lin, A., Wise-Faberowski, L., McElhinney, D. B.
2019
- **EXPRESS: Acute Vasoreactivity Testing in Pediatric Idiopathic Pulmonary Arterial Hypertension: an international Survey on Current Practice.** *Pulmonary circulation*
Caicedo, L., Hopper, R. K., Garcia, H., Ivy, D. D., Haag, D., Fineman, J., Humpi, T., Al-Tamimi, O., Feinstein, J., Berger, R. M., Berman-Rosenzweig, E., Kashour, T., Diaz, et al
2019: 2045894019857533
- **Racial and Ethnic Differences in Pediatric Pulmonary Hypertension: An Analysis of the Pediatric Pulmonary Hypertension Network Registry.** *The Journal of pediatrics*
Ong, M. S., Abman, S., Austin, E. D., Feinstein, J. A., Hopper, R. K., Krishnan, U. S., Mullen, M. P., Natter, M. D., Raj, J. U., Rosenzweig, E. B., Mandl, K. D.
2019
- **Patient-Specific Multiscale Modeling of the Assisted Bidirectional Glenn.** *The Annals of thoracic surgery*
Shang, J. K., Esmaily, M., Verma, A., Reinhartz, O., Figliola, R. S., Hsia, T., Feinstein, J. A., Marsden, A. L.
2018
- **Right ventricular stroke work correlates with outcomes in pediatric pulmonary arterial hypertension** *PULMONARY CIRCULATION*
Yang, W., Marsden, A. L., Ogawa, M. T., Sakarovitch, C., Hall, K. K., Rabinovitch, M., Feinstein, J. A.
2018; 8 (3)
- **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

- **Central line replacement following infection does not improve reinfection rates in pediatric pulmonary hypertension patients receiving intravenous prostanoid therapy** *PULMONARY CIRCULATION*
McCarthy, E. K., Ogawa, M. T., Hopper, R. K., Feinstein, J. A., Gans, H. A.
2018; 8 (1): 2045893218754886
- **Subcutaneous treprostinil in pediatric patients with failing single-ventricle physiology** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*
Handler, S. S., Ogawa, M. T., Hopper, R. K., Sakarovitch, C., Feinstein, J. A.
2018; 37 (2): 306–7
- **Optimization of the Assisted Bidirectional Glenn Procedure for First Stage Single Ventricle Repair** *Optimization of the Assisted Bidirectional Glenn Procedure for First Stage Single Ventricle Repair*
Verma, A., Esmaily, M., Shang, J., Figliola, R., Feinstein, J., Hsia, T., Marsden, A.
2018; 9 (2): 157-170
- **Optimization of the Assisted Bidirectional Glenn Procedure for First Stage Single Ventricle Repair.** *World journal for pediatric & congenital heart surgery*
Verma, A., Esmaily, M., Shang, J., Figliola, R., Feinstein, J. A., Hsia, T. Y., Marsden, A. L.
2018; 9 (2): 157–70
- **Computational simulation of postoperative pulmonary flow distribution in Alagille patients with peripheral pulmonary artery stenosis.** *Congenital heart disease*
Yang, W., Hanley, F. L., Chan, F. P., Marsden, A. L., Vignon-Clementel, I. E., Feinstein, J. A.
2018; 13 (2): 241–50
- **Relationship Between Pulmonary Vascular Resistance and Right Ventricular Dysfunction Assessed by MRI in Pediatric Pulmonary Arterial Hypertension**
Hopper, R. K., Chen, H., Ogawa, M., Feinstein, J. A.
AMER THORACIC SOC.2018
- **Transition to Oral Treprostinil from Parenteral or Inhaled Treprostinil or as Add-On Therapy in Pediatric Subjects with Pulmonary Arterial Hypertension**
Ivy, D., Feinstein, J., Yung, D., Mullen, M., Kirkpatrick, E., Hirsch, R., Austin, E. D., Fineman, J., Doran, A., Solum, D., Deng, C., Hopper, R. K.
AMER THORACIC SOC.2018
- **Right Ventricular Stroke Work Correlates with Outcomes in Pediatric Pulmonary Arterial Hypertension.** *Pulmonary circulation*
Yang, W., Marsden, A. L., Ogawa, M. T., Sakarovitch, C., Hall, K. K., Rabinovitch, M., Feinstein, J. A.
2018: 2045894018780534
- **Accelerometry: Improving Objective Assessments of Therapeutic Impact in Pediatric Pulmonary Arterial Hypertension** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*
Austin, E. D., Feinstein, J. A.
2017; 196 (2): 127–29
- **Practices surrounding pulmonary hypertension and bronchopulmonary dysplasia amongst neonatologists caring for premature infants.** *Journal of perinatology : official journal of the California Perinatal Association*
Altit, G., Lee, H. C., Hintz, S., Tacy, T. A., Feinstein, J. A., Bhombal, S.
2017
- **Evaluation and Management of Pulmonary Hypertension in Children with Bronchopulmonary Dysplasia.** *The Journal of pediatrics*
Krishnan, U., Feinstein, J. A., Adatia, I., Austin, E. D., Mullen, M. P., Hopper, R. K., Hanna, B., Romer, L., Keller, R. L., Fineman, J., Steinhorn, R., Kinsella, J. P., Ivy, et al
2017; 188: 24–34.e1
- **Subcutaneous treprostinil in pediatric patients with failing single-ventricle physiology.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*
Handler, S. S., Ogawa, M. T., Hopper, R. K., Sakarovitch, C., Feinstein, J. A.
2017
- **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

- **Adaptive outflow boundary conditions improve post-operative predictions after repair of peripheral pulmonary artery stenosis.** *Biomechanics and modeling in mechanobiology*
Yang, W., Feinstein, J. A., Vignon-Clementel, I. E.
2016; 15 (5): 1345-1353
- **Quantification of systemic-to-pulmonary arterial collateral flow in the Fontan circulation with four dimensional flow magnetic resonance imaging**
Ridderbos, F. S., Chan, F. P., Bauser-Heaton, H. D., Feinstein, J. A., Berger, R. F., Willems, T. P.
OXFORD UNIV PRESS.2016: 163
- **CT-defined phenotype of pulmonary artery stenoses in Alagille syndrome** *PEDIATRIC RADIOLOGY*
Rodriguez, R. M., Feinstein, J. A., Chan, F. P.
2016; 46 (8): 1120-1127
- **Hemodynamic Effects of Phenylephrine, Vasopressin, and Epinephrine in Children With Pulmonary Hypertension: A Pilot Study** *PEDIATRIC CRITICAL CARE MEDICINE*
Siehr, S. L., Feinstein, J. A., Yang, W., Peng, L. F., Ogawa, M. T., Ramamoorthy, C.
2016; 17 (5): 428-437
- **Accuracy of Pulse Oximeters Intended for Hypoxemic Pediatric Patients** *PEDIATRIC CRITICAL CARE MEDICINE*
Harris, B. U., Char, D. S., Feinstein, J. A., Verma, A., Shiboski, S. C., Ramamoorthy, C.
2016; 17 (4): 315-320
- **Outpatient Subcutaneous Treprostinil for Pediatric Single Ventricle Patients**
Siehr, S. L., Ogawa, M., Romfh, A., Rosenthal, D. N., Feinstein, J. A.
ELSEVIER SCIENCE INC.2016: S159
- **Pediatric Pulmonary Hypertension Guidelines From the American Heart Association and American Thoracic Society** *CIRCULATION*
Abman, S. H., Hansmann, G., Archer, S. L., Ivy, D. D., Adatia, I., Chung, W. K., Hanna, B. D., Rosenzweig, E. B., Raj, J. U., Cornfield, D., Stenmark, K. R., Steinhorn, R., Theobaud, et al
2015; 132 (21): 2037-2099
- **Computational modeling and engineering in pediatric and congenital heart disease.** *Current opinion in pediatrics*
Marsden, A. L., Feinstein, J. A.
2015; 27 (5): 587-596
- **Task Force 7: Pediatric Cardiology Fellowship Training in Pulmonary Hypertension, Advanced Heart Failure, and Transplantation. SPCTPD/ACC/AAP/AHA.** *Circulation*
Webber, S. A., Hsu, D. T., Ivy, D. D., Kulik, T. J., Pahl, E., Rosenthal, D. N., Morrow, W. R., Feinstein, J. A.
2015; 132 (6): e99-e106
- **Task Force 7: Pediatric Cardiology Fellowship Training in Pulmonary Hypertension, Advanced Heart Failure, and Transplantation** *CIRCULATION*
Webber, S. A., Hsu, D. T., Ivy, D. D., Kulik, T. J., Pahl, E., Rosenthal, D. N., Morrow, W. R., Feinstein, J. A.
2015; 132 (6): E99-E106
- **2015 SPCTPD/ACC/AAP/AHA Training Guidelines for Pediatric Cardiology Fellowship Programs (Revision of the 2005 Training Guidelines for Pediatric Cardiology Fellowship Programs): Introduction** *CIRCULATION*
Ross, R. D., Brook, M., Koenig, P., Feinstein, J. A., Lang, P., Spicer, R. L., Vincent, J. A.
2015; 132 (6): E43-E47
- **Task Force 7: Pediatric Cardiology Fellowship Training in Pulmonary Hypertension, Advanced Heart Failure, and Transplantation** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Webber, S. A., Hsu, D. T., Ivy, D. D., Kulik, T. J., Pahl, E., Rosenthal, D. N., Morrow, W. R., Feinstein, J. A.
2015; 66 (6): 732-739
- **A multiscale model for the study of cardiac biomechanics in single-ventricle surgeries: a clinical case.** *Interface focus*
Meoli, A., Cutri, E., Krishnamurthy, A., Dubini, G., Migliavacca, F., Hsia, T., Pennati, G., Taylor, A., Giardini, A., Khambadkone, S., Schievano, S., De Leval, M., Hsia, et al
2015; 5 (2): 20140079-?
- **Neonatal Pulmonary Arterial Hypertension and Noonan Syndrome: Two Fatal Cases with a Specific RAF1 Mutation** *AMERICAN JOURNAL OF MEDICAL GENETICS PART A*

- Hopper, R. K., Feinstein, J. A., Manning, M. A., Benitz, W., Hudgins, L.
2015; 167A (4): 882-885
- **Neonatal pulmonary arterial hypertension and Noonan syndrome: two fatal cases with a specific RAF1 mutation.** *American journal of medical genetics. Part A*
Hopper, R. K., Feinstein, J. A., Manning, M. A., Benitz, W., Hudgins, L.
2015; 167A (4): 882-885
 - **Reported sildenafil side effects in pediatric pulmonary hypertension patients.** *Frontiers in pediatrics*
Siehr, S. L., McCarthy, E. K., Ogawa, M. T., Feinstein, J. A.
2015; 3: 12-?
 - **Reported sildenafil side effects in pediatric pulmonary hypertension patients** *FRONTIERS IN PEDIATRICS*
Siehr, S. L., McCarthy, E. K., Ogawa, M. T., Feinstein, J. A.
2015; 3
 - **Technical feasibility and intermediate outcomes of using a handcrafted, area-preserving, bifurcated Y-graft modification of the Fontan procedure** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Martin, M. H., Feinstein, J. A., Chan, F. P., Marsden, A. L., Yang, W., Reddy, V. M.
2015; 149 (1): 239-U381
 - **Technical feasibility and intermediate outcomes of using a handcrafted, area-preserving, bifurcated Y-graft modification of the Fontan procedure.** *journal of thoracic and cardiovascular surgery*
Martin, M. H., Feinstein, J. A., Chan, F. P., Marsden, A. L., Yang, W., Reddy, V. M.
2015; 149 (1): 239-45 e1
 - **Flow simulations and validation for the first cohort of patients undergoing the Y-graft Fontan procedure** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Yang, W., Chan, F. P., Reddy, V. M., Marsden, A. L., Feinstein, J. A.
2015; 149 (1): 247-255
 - **Quantification of local hemodynamic alterations caused by virtual implantation of three commercially available stents for the treatment of aortic coarctation.** *Pediatric cardiology*
Kwon, S., Feinstein, J. A., Dholakia, R. J., LaDisa, J. F.
2014; 35 (4): 732-740
 - **A PUBLIC REPOSITORY OF IMAGE-BASED COMPUTATIONAL MODELS AND PATIENT-SPECIFIC BLOOD FLOW SIMULATION RESULTS**
Wilson, N. M., Ortiz, A. K., Johnson, A. B., Feinstein, J. A., LaDisa, J. F., Marsden, A., ASME AMER SOC MECHANICAL ENGINEERS.2014
 - **Hot Topics in Tetralogy of Fallot** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Villafane, J., Feinstein, J. A., Jenkins, K. J., Vincent, R. N., Walsh, E. P., Dubin, A. M., Geva, T., Towbin, J. A., Cohen, M. S., Fraser, C., Dearani, J., Rosenthal, D., Kaufman, et al
2013; 62 (23): 2155-2166
 - **Food and drug administration (FDA) postmarket reported side effects and adverse events associated with pulmonary hypertension therapy in pediatric patients.** *Pediatric cardiology*
Maxey, D. M., Ivy, D. D., Ogawa, M. T., Feinstein, J. A.
2013; 34 (7): 1628-1636
 - **Diagnostic evaluation of paediatric pulmonary hypertension in current clinical practice** *EUROPEAN RESPIRATORY JOURNAL*
Beghetti, M., Berger, R. M., Schulze-Neick, I., Day, R. W., Pulido, T., Feinstein, J., Barst, R. J., Humpl, T.
2013; 42 (3): 689-700
 - **Children with pulmonary arterial hypertension and prostanoid therapy: Long-term hemodynamics** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*
Siehr, S. L., Ivy, D. D., Miller-Reed, K., Ogawa, M., Rosenthal, D. N., Feinstein, J. A.
2013; 32 (5): 546-552
 - **Validation of the Innocor Device for Noninvasive Measurement of Oxygen Consumption in Children and Adults** *PEDIATRIC CARDIOLOGY*
Sheth, S. S., Maxey, D. M., Drain, A. E., Feinstein, J. A.

2013; 34 (4): 847-852

- **Magnetic resonance imaging of the right ventricle in pediatric pulmonary arterial hypertension** *PULMONARY CIRCULATION*
Blalock, S., Chan, F., Rosenthal, D., Ogawa, M., Maxey, D., Feinstein, J.
2013; 3 (2): 350-355
- **Magnetic resonance imaging of the right ventricle in pediatric pulmonary arterial hypertension.** *Pulmonary circulation*
Blalock, S., Chan, F., Rosenthal, D., Ogawa, M., Maxey, D., Feinstein, J.
2013; 3 (2): 350-355
- **Implications of the U.S. Food and Drug Administration Warning against the Use of Sildenafil for the Treatment of Pediatric Pulmonary Hypertension** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*
Abman, S. H., Kinsella, J. P., Rosenzweig, E. B., Krishnan, U., Kulik, T., Mullen, M., Wessel, D. L., Steinhorn, R., Adatia, I., Hanna, B., Feinstein, J., Fineman, J., Raj, et al
2013; 187 (6): 572-575
- **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
- **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
- **Chronic effects of pulmonary artery stenosis on hemodynamic and structural development of the lungs.** *American journal of physiology. Lung cellular and molecular physiology*
Razavi, H., Stewart, S. E., Xu, C., Sawada, H., Zarafshar, S. Y., Taylor, C. A., Rabinovitch, M., Feinstein, J. A.
2013; 304 (1): L17-28
- **Chronic effects of pulmonary artery stenosis on hemodynamic and structural development of the lungs** *AMERICAN JOURNAL OF PHYSIOLOGY-LUNG CELLULAR AND MOLECULAR PHYSIOLOGY*
Razavi, H., Stewart, S. E., Xu, C., Sawada, H., Zarafshar, S. Y., Taylor, C. A., Rabinovitch, M., Feinstein, J. A.
2013; 304 (1): L17-L28
- **Optimization of a Y-Graft Design for Improved Hepatic Flow Distribution in the Fontan Circulation** *JOURNAL OF BIOMECHANICAL ENGINEERING-TRANSACTIONS OF THE ASME*
Yang, W., Feinstein, J. A., Shadden, S. C., Vignon-Clementel, I. E., Marsden, A. L.
2013; 135 (1)
- **Wall shear stress is decreased in the pulmonary arteries of patients with pulmonary arterial hypertension: An image-based, computational fluid dynamics study.** *Pulmonary circulation*
Tang, B. T., Pickard, S. S., Chan, F. P., Tsao, P. S., Taylor, C. A., Feinstein, J. A.
2012; 2 (4): 470-476
- **Electrical and mechanical dyssynchrony in pediatric pulmonary hypertension** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*
Hill, A. C., Maxey, D. M., Rosenthal, D. N., Siehr, S. L., Hollander, S. A., Feinstein, J. A., Dubin, A. M.
2012; 31 (8): 825-830
- **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
- **Hepatic blood flow distribution and performance in conventional and novel Y-graft Fontan geometries: A case series computational fluid dynamics study** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Yang, W., Vignon-Clementel, I. E., Troianowski, G., Reddy, V. M., Feinstein, J. A., Marsden, A. L.
2012; 143 (5): 1086-1097
- **Fluid-structure interaction simulations of the Fontan procedure using variable wall properties** *INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN BIOMEDICAL ENGINEERING*

- Long, C. C., Hsu, M., Bazilevs, Y., Feinstein, J. A., Marsden, A. L.
2012; 28 (5): 513-527
- **A method for quantitative characterization of growth in the 3-D structure of rat pulmonary arteries** *MICROVASCULAR RESEARCH*
Razavi, H., Dusch, M. N., Zarafshar, S. Y., Taylor, C. A., Feinstein, J. A.
2012; 83 (2): 146-153
 - **Sildenafil for Severe Lymphatic Malformations** *NEW ENGLAND JOURNAL OF MEDICINE*
Swetman, G. L., Berk, D. R., Vasanawala, S. S., Feinstein, J. A., Lane, A. T., Bruckner, A. L.
2012; 366 (4): 384-386
 - **The Adult Congenital and Pediatric Cardiology Section Increasing the Opportunities for the Congenital Heart Disease Community Within the American College of Cardiology** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Martin, G. R., Mitchell, S., Beekman, R. H., Feinstein, J. A., Jenkins, K. J., Landzberg, M., Webb, G.
2012; 59 (1): 84-87
 - **Hypoplastic Left Heart Syndrome Current Considerations and Expectations** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Feinstein, J. A., Benson, D. W., Dubin, A. M., Cohen, M. S., Maxey, D. M., Mahle, W. T., Pahl, E., Villafane, J., Bhatt, A. B., Peng, L. F., Johnson, B. A., Marsden, A. L., Daniels, et al
2012; 59 (1): S1-S42
 - **COMPARISON OF CLINICAL AND SIMULATION RESULTS FOR THE STANFORD Y-GRAFT FONTAN PILOT TRIAL** *ASME Summer Bioengineering Conference (SBC)*
Yang, W., Feinstein, J. A., Reddy, V. M., Chan, F. P., Marsden, A. L.
AMER SOC MECHANICAL ENGINEERS.2012: 463-464
 - **A PUBLIC REPOSITORY OF IMAGE-BASED COMPUTATIONAL MODELS FOR PATIENT-SPECIFIC BLOOD FLOW SIMULATION** *ASME Summer Bioengineering Conference (SBC)*
Wilson, N. M., Ortiz, A. K., Johnson, A. B., Arko, F. R., Feinstein, J. A., LaDisa, J. F., Marsden, A.
AMER SOC MECHANICAL ENGINEERS.2012: 969-970
 - **Virtual surgeries in patients with congenital heart disease: a multi-scale modelling test case** *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES*
BARETTA, A., Corsini, C., Yang, W., Vignon-Clementel, I. E., Marsden, A. L., Feinstein, J. A., Hsia, T., Dubini, G., Migliavacca, F., Pennati, G.
2011; 369 (1954): 4316-4330
 - **Three-Dimensional Simulations in Glenn Patients: Clinically Based Boundary Conditions, Hemodynamic Results and Sensitivity to Input Data** *JOURNAL OF BIOMECHANICAL ENGINEERING-TRANSACTIONS OF THE ASME*
Troianowski, G., Taylor, C. A., Feinstein, J. A., Vignon-Clementel, I. E.
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