Stanford



Jeffrey A. Feinstein, MD, MPH

Dunlevie Family Professor of Pulmonary Vascular Disease and Professor, by courtesy, of Bioengineering

Pediatrics - Cardiology

CLINICAL OFFICE (PRIMARY)

- **Heart Center**

  725 Welch Rd Ste 120

  Palo Alto, CA 94304

  Tel (650) 721-2121 **Fax** (650) 724-4922

Bio

CLINICAL FOCUS

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

ACADEMIC APPOINTMENTS

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

ADMINISTRATIVE APPOINTMENTS

- Director, Vera Moulton Wall Center for Pulmonary Vascular Disease, Stanford University Medical Center, (2000- present)
- Medical Director, Pediatric Pulmonary Hypertension Program, Lucile Packard Children's Hospita at Stanford, (1998- present)
- Associate-Director, Alagille Syndrome Program, Lucile Packard Children's Hospital at Stanford, (2020- present)
- Associate Chair, Education; Department of Pediatrics (Fellowships), Stanford University School of Medicine, (2012-2016)
- Director, Pediatric Cardiology Training Program, Stanford University School of Medicine, (2009-2015)

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

- Medical Education: New York Medical College (1991) NY
- Fellowship: Children's Hospital Boston Cardiovascular Intensive Care Fellowship (1998) MA
- Fellowship: Children's National Health System Pediatric Cardiology Fellowship (1997) DC
- 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)

LINKS

- Wall Center for Pulmonary Vascular Disease: https://med.stanford.edu/wallcenter.html
- Marsden Lab (collaborator): https://cbcl.stanford.edu/people/alison-marsden
- Gradient Denervation Technologies (Co-Founder): https://www.gradientdenervation.com/

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.

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Bioengineering (PhD Program)

Publications

PUBLICATIONS

- **Treprostinil Is Associated With Early and Sustained Improvement in Group 3 Pulmonary Hypertension and Right Ventricular Function in Children.** *Pulmonary circulation*
  Parvathaneni, K., Kochanski, J. J., Tandel, M. D., Liu, E., Arunamata, A., Feinstein, J. A., Hopper, R. K.
  2026; 16 (2): e70304

- **Characteristics of the adolescent population with Alagille syndrome and their liver survival**
  Gupta, N., Wojdyla, D., Hansen, B. E., Rabenau-McDonnell, Q., Vaz, D., Faist, M., Wang, J., Guan, Z., Jankowska, I., Czubkowski, P., Gliwicz-Miedzinska, D., Loomes, K. M., Piccoli, et al
  ELSEVIER.2026: S850-S852

- **Refractory Peripheral Pulmonary Stenosis and Severe Pulmonary Arterial Hypertension Associated With a De Novo Loss-of-Function Variant in FGD5.** *Pulmonary circulation*
  Steffes, L. C., Adamson, G. T., Dunn, K. E., Feinstein, J. A.
  2026; 16 (1): e70250

- **Elevated Serum Bile Acids Predict Poor Liver Outcomes in Children With Alagille Syndrome: Results From the GALA Study Group.** *Liver international : official journal of the International Association for the Study of the Liver*
  Perez, C. F., Vandriel, S. M., Gonzales, E. M., Wang, J., Li, L., She, H., Jankowska, I., Czubkowski, P., Gliwicz-Miedzinska, D., Jacquemin, E., Bouligand, J., D'Antiga, L., Nicastro, et al
  2025; 45 (12): e70423

- **Condition-Specific Growth Charts for Children With Alagille Syndrome.** *JAMA network open*
  Huysentruyt, K., Vandriel, S. M., Roelants, M., Piccoli, D. A., Loomes, K. M., Rand, E. B., Ebel, N. H., Feinstein, J. A., Jankowska, I., Czubkowski, P., Gliwicz-Miedzinska, D., Gonzales, E. M., Jacquemin, et al
  2025; 8 (11): e2545294

- **Phenotypic Divergence of JAG1- and NOTCH2-Associated Alagille Syndrome & Disease-Specific NOTCH2 Variant Classification Guidelines.** *Liver international : official journal of the International Association for the Study of the Liver*
  Vandriel, S. M., Li, L. T., She, H., Wang, J. S., Loomes, K. M., Piccoli, D. A., Jankowska, I., Czubkowski, P., Gliwicz-Miedzińska, D., D'Antiga, L., Nicastro, E., Lacaille, F., Debray, et al
  2025; 45 (9): e70251

- **Pharmacologic Management of Segmental Pulmonary Hypertension in Children After Unifocalization and Pulmonary Artery Reconstruction: Initial Experience.** *Pulmonary circulation*
  Cameron, J. E., McElhinney, D. B., Liu, E., Hopper, R. K., Asija, R., Navaratnam, M., Hanley, F. L., Feinstein, J. A.
  2025; 15 (3): e70134

- **Randomized, Placebo-Controlled Trial of Peri-Operative Treprostinil in Pediatric Patients Undergoing the Fontan Operation.** *Pulmonary circulation*
  Sullivan, R. T., Handler, S. S., Arunamata, A. A., Ogawa, M. T., Liu, E., Lu, D., Martin, E., Ramamoorthy, C., Kameny, R., Feinstein, J. A.
  2025; 15 (3): e70122

- **Hemodynamic Effects of Ventricular Assist Devices in Patients with Cardiomyopathy and Fontan Circulation**
  Jose, J. T., Dykes, J., Murray, J., Hollander, S. A., Feinstein, J., Almond, C., Peng, L., Rosenthal, D., Ma, M., Chen, S., Chen, C.
  ELSEVIER SCIENCE INC.2025

- **Programmatic Approach to Outpatient Cardiac Catheterization in Children With Stable Pulmonary Arterial Hypertension.** *Pulmonary circulation*
  Adamson, G. T., Dasgupta, M. N., Kleiman, Z., Peng, L. F., Ogawa, M., Balasubramanian, V., Ramamoorthy, C., Feinstein, J. A.
  2025; 15 (2): e70105

- **Deforming Patient-Specific Models of Vascular Anatomies to Represent Stent Implantation via Extended Position Based Dynamics.** *Cardiovascular engineering and technology*
  Pham, J., Kong, F., James, D. L., Feinstein, J. A., Marsden, A. L.
  2024

- **A probabilistic neural twin for treatment planning in peripheral pulmonary artery stenosis.** *International journal for numerical methods in biomedical engineering*
  Lee, J. D., Richter, J., Pfaller, M. R., Szafron, J. M., Menon, K., Zanoni, A., Ma, M. R., Feinstein, J. A., Kreutzer, J., Marsden, A. L., Schiavazzi, D. E.
  2024: e3820

- **Younger age at initiation of subcutaneous treprostinil is associated with better response in pediatric Group 1 pulmonary arterial hypertension.** *Pulmonary circulation*
  Kochanski, J. J., Feinstein, J. A., Ogawa, M., Ritter, V., Hopper, R. K., Adamson, G. T.
  2024; 14 (1): e12328

- **Event-free survival of maralixibat-treated patients with Alagille syndrome compared to a real-world cohort from GALA.** *Hepatology (Baltimore, Md.)*
  Hansen, B. E., Vandriel, S. M., Vig, P., Garner, W., Mogul, D. B., Loomes, K. M., Piccoli, D. A., Rand, E. B., Jankowska, I., Czubkowski, P., Gliwicz-Miedzinska, D., Gonzales, E. M., Jacquemin, et al
  2023

- **SERUM BILE ACIDS ARE ASSOCIATED WITH NATIVE LIVER SURVIVAL IN PATIENTS WITH ALAGILLE SYNDROME: RESULTS FROM THE GALA STUDY GROUP**
  Perez, C., Vandriel, S. M., Wang, J., Li, L., She, H., Jankowska, I., Czubkowski, P., Gliwicz-Miedzinska, D., Gonzales, E. M., Jacquemin, E., Bouligand, J., D'Antiga, L., Nicastro, et al

LIPPINCOTT WILLIAMS & WILKINS.2023: S121-S124

- **SURGICAL BILIARY DIVERSION IS ASSOCIATED WITH AN INCREASED RISK OF LIVER TRANSPLANTATION OR DEATH IN ALAGILLE SYNDROME**
  Vandriel, S. M., Loomes, K. M., Piccoli, D. A., Rand, E., Li, L., She, H., Wang, J., Fawaz, R. L., Nastasio, S., Verkade, H. J., Jensen, M., Jaramillo, C., Rock, et al
  LIPPINCOTT WILLIAMS & WILKINS.2023: S20-S23

- **A computational growth and remodeling framework for adaptive and maladaptive pulmonary arterial hemodynamics.** *Biomechanics and modeling in mechanobiology*
  Szafron, J. M., Yang, W., Feinstein, J. A., Rabinovitch, M., Marsden, A. L.
  2023

- **Pulmonary Vasodilator Therapy in Pediatric Patients on Ventricular Assist Device Support: A Single-Center Experience and Proposal for Use.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*
  Schramm, J. E., Dykes, J. C., Hopper, R. K., Feinstein, J. A., Rosenthal, D. N., Kameny, R. J.
  2023

- **Acute Hemodynamics in the Fontan Circulation: Open-Label Study of Vasopressin.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
  Adamson, G. T., Yu, J., Ramamoorthy, C., Peng, L. F., Taylor, A., Lennig, M., Schmidt, A. R., Feinstein, J. A., Navaratnam, M.
  2023

- **Serum bile acids are associated with native liver survival in patients with Alagille syndrome: results from the GALA study group**
  Perez, C., Vandriel, S. M., Wang, J., Li Liting, She, H., Jankowska, I., Czubkowski, P., Gliwicz, D., Gonzales, E., Jacquemin, E., Bouligand, J., D'Antiga, L., Nicastro, E., et al
  ELSEVIER.2023: S971-S973

- **A Computational Growth and Remodeling Framework for Adaptive and Maladaptive Pulmonary Arterial Hemodynamics.** *bioRxiv : the preprint server for biology*
  Szafron, J. M., Yang, W., Feinstein, J. A., Rabinovitch, M., Marsden, A. L.
  2023

- **Serial Lung Perfusion Scintigraphy After Unifocalization and Repair of Tetralogy of Fallot With Major Aortopulmonary Collaterals.** *World journal for pediatric & congenital heart surgery*
  Wise-Faberowski, L., Long, J., Ma, M., Nadel, H. R., Shek, J., Feinstein, J. A., Martin, E., Hanley, F. L., McElhinney, D. B.
  2023: 21501351231162959

- **International practice heterogeneity in pre-transplant management of pulmonary hypertension related to pediatric left heart disease.** *Pediatric transplantation*
  Hopper, R. K., van der Have, O., Hollander, S. A., Dipchand, A. I., Perez de Sa, V., Feinstein, J. A., Tran-Lundmark, K.
  2023: e14461

- **The development and efficacy of a paediatric cardiology fellowship online preparatory course.** *Cardiology in the young*
  Motonaga, K. S., Sacks, L., Olson, I., Balasubramanian, S., Chen, S., Peng, L., Feinstein, J. A., Silverman, N. H., Hanley, F. L., Axelrod, D. M., Krawczeski, C. D., Arunamata, A., Kwiatkowski, et al
  2022: 1-6

- **4D flow cardiovascular magnetic resonance recovery profiles following pulmonary endarterectomy in chronic thromboembolic pulmonary hypertension.** *Journal of cardiovascular magnetic resonance : official journal of the Society for Cardiovascular Magnetic Resonance*
  Dong, M. L., Azarine, A., Haddad, F., Amsallem, M., Kim, Y., Yang, W., Fadel, E., Aubrege, L., Loecher, M., Ennis, D., Pavec, J. L., Vignon-Clementel, I., Feinstein, et al
  2022; 24 (1): 59

- **Quantification of systemic-to-pulmonary collateral flow in univentricular physiology with 4D flow MRI.** *Cardiology in the young*
  Ridderbos, F. S., Chan, F. P., van Melle, J. P., Ebels, T., Feinstein, J. A., Berger, R. M., Willems, T. P.
  2022: 1-9

- **ISHLT consensus statement: Perioperative management of patients with pulmonary hypertension and right heart failure undergoing surgery.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*
  McGlothlin, D. P., Granton, J., Klepetko, W., Beghetti, M., Rosenzweig, E. B., Corris, P. A., Horn, E., Kanwar, M. K., McRae, K., Roman, A., Tedford, R., Badagliacca, R., Bartolome, et al

2022; 41 (9): 1135-1194

- **Natural History of Liver Disease in a Large International Cohort of Children with Alagille syndrome: Results from The GALA Study.** *Hepatology (Baltimore, Md.)*
  Vandriel, S. M., Li, L., She, H., Wang, J., Gilbert, M. A., Jankowska, I., Czubkowski, P., Gliwicz-Miedzinska, D., Gonzales, E. M., Jacquemin, E., Bouligand, J., Spinner, N. B., Loomes, et al
  2022

- **Pulmonary Hypertension in Children with Down Syndrome: Results from the Pediatric Pulmonary Hypertension Network Registry.** *The Journal of pediatrics*
  Hopper, R. K., Abman, S. H., Elia, E. G., Avitabile, C. M., Yung, D., Mullen, M. P., Austin, E. D., Bates, A., Handler, S. S., Feinstein, J. A., Ivy, D. D., Kinsella, J. P., Mandl, et al
  2022

- **Subcutaneous Treprostinil Improves Surgical Candidacy for Next Stage Palliation in Single Ventricle Patients With High-Risk Hemodynamics.** *Seminars in thoracic and cardiovascular surgery*
  Sullivan, R. T., Handler, S. S., Feinstein, J. A., Ogawa, M., Liu, E., Ma, M., Hopper, R. K., Norris, J., Hollander, S. A., Chen, S.
  2022

- **Elucidating tricuspid Doppler signal interpolation and its implication for assessing pulmonary hypertension** *PULMONARY CIRCULATION*
  Dual, S. A., Verdonk, C., Amsallem, M., Pham, J., Obasohan, C., Nataf, P., McElhinney, D. B., Arunamata, A., Kuznetsova, T., Zamanian, R., Feinstein, J. A., Marsden, A., Haddad, et al
  2022; 12 (3): e12125

- **Abnormal platelet aggregation in pediatric pulmonary hypertension** *PULMONARY CIRCULATION*
  Handler, S. S., Jin, J., Ogawa, M. T., Feinstein, J. A., Lo, C.
  2022; 12 (3): e12104

- **Dissecting alveolar patterning and maintenance at single-cell resolution.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*
  Gillich, A., Brownfield, D. G., Travaglini, K. J., Zhang, F., Farmer, C. G., St Julien, K. R., Tan, S. Y., Gu, M., Zhou, B., Feinstein, J. A., Metzger, R. J., Krasnow, M. A.
  2022; 36 Suppl 1

- **International Practice Heterogeneity in Pediatric Left Heart Disease Related Pulmonary Hypertension**
  Hopper, R. K., van der Have, O., Hollander, S. A., Dipchand, A. I., de Sa, V., Feinstein, J. A., Tran-Lundmark, K.
  ELSEVIER SCIENCE INC.2022: S140-S141

- **Virtual Transcatheter Interventions for Peripheral Pulmonary Artery Stenosis in Williams and Alagille Syndromes.** *Journal of the American Heart Association*
  Lan, I. S., Yang, W., Feinstein, J. A., Kreutzer, J., Collins, R. T., Ma, M., Adamson, G. T., Marsden, A. L.
  2022: e023532

- **Cardiac Catheterization and Hemodynamics in a Multicenter Cohort of Children with Pulmonary Hypertension.** *Annals of the American Thoracic Society*
  Rosenzweig, E. B., Bates, A., Mullen, M. P., Abman, S. H., Austin, E. D., Everett, A., Fineman, J., Feinstein, J., Hopper, R. K., Kinsella, J. P., Krishnan, U. S., Lu, M., Mandl, et al
  1800

- **APPLICATION OF REAL-WORLD EVIDENCE ANALYTICS: A 6-YEAR EVENT-FREE SURVIVAL ANALYSIS IN ALAGILLE SYNDROME OF THE GALA CLINICAL RESEARCH DATABASE AND MARALIXIBAT TREATED PATIENTS**
  Hansen, B. E., Vandriel, S. M., Vig, P., Garner, W., Li, L., She, H., Wang, J., Gilbert, M. A., Jankowska, I., Czubkowski, P., Gliwicz-Miedzinska, D., Gonzales, E. M., Jacquemin, et al
  WILEY.2021: 1387A-1389A

- **Automated Tracing of Tricuspid Regurgitation Doppler Waveforms**
  Pham, J., Dual, S. A., Verdonk, C., Amsallem, M., Feinstein, J. A., Haddad, F., Marsden, A. L.
  LIPPINCOTT WILLIAMS & WILKINS.2021

- **Computational simulation-derived hemodynamic and biomechanical properties of the pulmonary arterial tree early in the course of ventricular septal defects.** *Biomechanics and modeling in mechanobiology*
  Dong, M. L., Lan, I. S., Yang, W., Rabinovitch, M., Feinstein, J. A., Marsden, A. L.

2021

- **Predictive Modeling of Secondary Pulmonary Hypertension in Left Ventricular Diastolic Dysfunction.** *Frontiers in physiology*
  Harrod, K. K., Rogers, J. L., Feinstein, J. A., Marsden, A. L., Schiavazzi, D. E.
  2021; 12: 666915

- **Semi-automated Analysis of Tricuspid Regurgitation Doppler Profile for Detection and Evaluation of Pulmonary Hypertension**
  Dual, S. A., Amsallem, M., McElhinney, D., Zamanian, R., Feinstein, J., Haddad, F., Marsden, A.
  LIPPINCOTT WILLIAMS & WILKINS.2020

- **PHENOTYPIC DIVERGENCE OF JAGGED1 AND NOTCH2-ASSOCIATED ALAGILLE SYNDROME: RESULTS FROM THE INTERNATIONAL MULTICENTER GALA STUDY GROUP**
  Vandriel, S., Li, L., She, H., Wang, J., Gilbert, M. A., Spinner, N. B., Loomes, K. M., Piccoli, D. A., D'Antiga, L., Nicastro, E., Calvo, P., Hardikar, W., Shankar, et al
  WILEY.2020: 882A–884A

- **Pharmacokinetics of Oral Treprostinil in Children with Pulmonary Arterial Hypertension.** *Journal of cardiovascular pharmacology*
  Hopper, R. K., Ivy, D. D., Yung, D., Mullen, M. P., Hanna, B. D., Kirkpatrick, E., Hirsch, R., Austin, E. D., Fineman, J., Solum, D., Deng, C. Q., Feinstein, J. A.
  2020

- **Comprehensive Echocardiographic Assessment of Ventricular Function and Pulmonary Pressure in the Neonatal Omphalocele Population.** *American journal of perinatology*
  Dal Col, A. K., Bhombal, S., Tacy, T. A., Hintz, S. R., Feinstein, J., Altit, G.
  2020

- **Outcomes in Patients with Alagille Syndrome and Complex Pulmonary Artery Disease.** *The Journal of pediatrics*
  Luong, R. n., Feinstein, J. A., Ma, M. n., Ebel, N. H., Wise-Faberowski, L. n., Zhang, Y. n., Peng, L. F., Yarlagadda, V. V., Shek, J. n., Hanley, F. L., McElhinney, D. B.
  2020

- **Hemodynamic trajectories and outcomes in patients with pulmonary arterial hypertension.** *Pulmonary circulation*
  Amsallem, M. n., Bagherzadeh, S. P., Boulate, D. n., Sweatt, A. J., Kudelko, K. T., Sung, Y. K., Feinstein, J. A., Fadel, E. n., Mercier, O. n., Denault, A. n., Haddad, F. n., Zamanian, R. n.
  2020; 10 (4): 2045894020941343

- **Treprostinil improves hemodynamics and symptoms in children with mild pulmonary hypertension awaiting heart transplantation.** *Pediatric transplantation*
  Hollander, S. A., Ogawa, M. T., Hopper, R. K., Liu, E. n., Chen, S. n., Rosenthal, D. N., Feinstein, J. A.
  2020: e13742

- **Capillary cell-type specialization in the alveolus.** *Nature*
  Gillich, A. n., Zhang, F. n., Farmer, C. G., Travaglini, K. J., Tan, S. Y., Gu, M. n., Zhou, B. n., Feinstein, J. A., Krasnow, M. A., Metzger, R. J.
  2020

- **Image-based scaling laws for somatic growth and pulmonary artery morphometry from infant- to adulthood.** *American journal of physiology. Heart and circulatory physiology*
  Dong, M. L., Yang, W. n., Tamaresis, J. S., Chan, F. P., Zucker, E. J., Kumar, S. n., Rabinovitch, M. n., Marsden, A. L., Feinstein, J. A.
  2020

- **Angiographic Anatomy of Major Aortopulmonary Collateral Arteries and Association With Early Surgical Outcomes in Tetralogy of Fallot.** *Journal of the American Heart Association*
  Adamson, G. T., McElhinney, D. B., Zhang, Y. n., Feinstein, J. A., Peng, L. F., Ma, M. n., Algaze, C. A., Hanley, F. L., Perry, S. B.
  2020: e017981

- **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; 33 (6): 1055–60

- **Treprositinil in Pediatric Patients Listed for Heart Transplantation**
  Hollander, S. A., Ogawa, M. T., Liu, E., Hopper, R. K., Chen, S., Rosenthal, D. N., Feinstein, J. A.

LIPPINCOTT WILLIAMS & WILKINS.2019

- **Diminished right ventricular function at diagnosis of pulmonary hypertension is associated with mortality in bronchopulmonary dysplasia.** *Pulmonary circulation*
  Altit, G., Bhombal, S., Feinstein, J., Hopper, R. K., Tacy, T. A.
  2019; 9 (3): 2045894019878598

- **Diminished right ventricular function at diagnosis of pulmonary hypertension is associated with mortality in bronchopulmonary dysplasia** *PULMONARY CIRCULATION*
  Altit, G., Bhombal, S., Feinstein, J., Hopper, R. K., Tacy, T. A.
  2019; 9 (3)

- **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. n., Ogawa, M. n., Sakarovitch, C. n., Hopper, R. K., Adamson, G. T., Hanna, B. n., Ivy, D. D., Miller-Reed, K. n., Yung, D. n., McCarthy, E. n., 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. n., Wise-Faberowski, L. n., McElhinney, D. B.
  2019

- **EXPRESS: Acute Vasoreactivity Testing in Pediatric Idiopathic Pulmonary Arterial Hypertension: an international Survey on Current Practice.** *Pulmonary circulation*
  Caicedo, L. n., Hopper, R. K., Garcia, H. n., Ivy, D. D., Haag, D. n., Fineman, J. n., Humpi, T. n., Al-Tamimi, O. n., Feinstein, J. n., Berger, R. M., Berman-Rosenzweig, E. n., Kashour, T. n., 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. n., 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

- **microRNA-21 Predicts Functional Status in Children With Pulmonary Hypertension Associated With Congenital Heart Disease.**
  Sen, S., Feinstein, J., Reddy, S.
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