



Ritu Asija

Clinical Professor, Pediatrics - Cardiology

CLINICAL OFFICE (PRIMARY)

- **Pediatric Heart Center**

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Bio

BIO

I specialize in providing cardiac critical care to infants, children and adults with congenital heart disease and heart failure. I am the Associate Director for the Pulmonary Artery Reconstruction Program at Stanford, helping to coordinate comprehensive multidisciplinary care for children with severe pulmonary artery abnormalities and right ventricular dysfunction. I was a Faculty Fellow at the Stanford Center for Biodesign in 2019-2020 and continue to work on development of new technologies for the unmet needs of pediatric patients. I have an interest in physician wellness and completed the Wellness Director course through the WellMD Center at Stanford.

CLINICAL FOCUS

- Pediatric Critical Care Medicine

ACADEMIC APPOINTMENTS

- Clinical Professor, Pediatrics - Cardiology
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Residency: University of California San Francisco (2005) CA
- Medical Education: Michigan State University College of Human Medicine Office of the Registrar (2002) MI
- Fellowship: Lucile Packard Children's Hospital (2009) CA
- Fellowship: Columbia University (2008) NY
- Board Certification: Pediatric Cardiology, American Board of Pediatrics (2010)

LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Publications

PUBLICATIONS

- **Airway Characteristics of Patients With 22q11 Deletion Undergoing Pulmonary Artery Reconstruction Surgery: Retrospective Cohort Study.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Sganga, D., Meister, K., Sidell, D. R., Wise-Faberowski, L., Shek, J., Ma, M., Martin, E., Hanley, F. L., McElhinney, D., Asija, R.
2022
- **Standardized Training for Physicians Practicing Pediatric Cardiac Critical Care.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Tabbutt, S., Krawczeski, C., McBride, M., Amirnovin, R., Owens, G., Smith, A., Wolf, M., Rhodes, L., Hehir, D., Asija, R., Teele, S. A., Ghanayem, N., Zybelski, et al
2021
- **Transfusion Outcomes in Patients Undergoing Unifocalization and Repair of Tetralogy of Fallot With Major Aortopulmonary Collaterals.** *World journal for pediatric & congenital heart surgery*
Wise-Faberowski, L. n., Irvin, M. n., Quinonez, Z. A., Long, J. n., Asija, R. n., Margetson, T. D., Hanley, F. L., McElhinney, D. B.
2020; 11 (2): 159–65
- **Unifocalization and pulmonary artery reconstruction in patients with tetralogy of Fallot and major aortopulmonary collateral arteries who underwent surgery before referral.** *The Journal of thoracic and cardiovascular surgery*
Ma, M. n., Zhang, Y. n., Wise-Faberowski, L. n., Lin, A. n., Asija, R. n., Hanley, F. L., McElhinney, D. B.
2020
- **Outcomes After Aortopulmonary Window for Hypoplastic Pulmonary Arteries and Dual-Supply Collaterals** *ANNALS OF THORACIC SURGERY*
Bauser-Heaton, H., Ma, M., McElhinney, D. B., Goodyer, W. R., Zhang, Y., Chan, F. P., Asija, R., Shek, J., Wise-Faberowski, L., Hanley, F. L.
2019; 108 (3): 820–27
- **Assessment of airway abnormalities in patients with tetralogy of Fallot, pulmonary atresia, and major aortopulmonary collaterals** *CARDIOLOGY IN THE YOUNG*
Wise-Faberowski, L., Irvin, M., Sidell, D. R., Rajashekara, S., Asija, R., Chan, F. P., Hanley, F. L., McElhinney, D. B., Pulm Artery Reconstruction Program
2019; 29 (5): 610–14
- **Assessment of the Reconstructed Pulmonary Circulation With Lung Perfusion Scintigraphy After Unifocalization and Repair of Tetralogy of Fallot With Major Aortopulmonary Collaterals** *WORLD JOURNAL FOR PEDIATRIC AND CONGENITAL HEART SURGERY*
Wise-Faberowski, L., Irvin, M., Lennig, M., Long, J., Nadel, H. R., Bauser-Heaton, H., Asija, R., Hanley, F. L., McElhinney, D. B.
2019; 10 (3): 313–20
- **Tetralogy of Fallot: Everything you wanted to know but were afraid to ask** *PEDIATRIC ANESTHESIA*
Wise-Faberowski, L., Asija, R., McElhinney, D. B.
2019; 29 (5): 475–82
- **Assessment of the Reconstructed Pulmonary Circulation With 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., Irvin, M., Lennig, M., Long, J., Nadel, H. R., Bauser-Heaton, H., Asija, R., Hanley, F. L., McElhinney, D. B.
2019; 10 (3): 313–20
- **Outcomes After Aortopulmonary Window for Hypoplastic Pulmonary Arteries and Dual-Supply Collaterals.** *The Annals of thoracic surgery*
Bauser-Heaton, H., Ma, M., McElhinney, D. B., Goodyer, W. R., Zhang, Y., Chan, F. P., Asija, R., Shek, J., Wise-Faberowski, L., Hanley, F. L.
2019
- **Deletion of 22q11 chromosome is associated with postoperative morbidity after unifocalisation surgery** *CARDIOLOGY IN THE YOUNG*
Koth, A., Sidell, D., Bauser-Heaton, H., Wise-Faberowski, L., Hanley, F. L., McElhinney, D. B., Asija, R.
2019; 29 (1): 19–22
- **Assessment of airway abnormalities in patients with tetralogy of Fallot, pulmonary atresia, and major aortopulmonary collaterals.** *Cardiology in the young*
Wise-Faberowski, L. n., Irvin, M. n., Sidell, D. R., Rajashekara, S. n., Asija, R. n., Chan, F. P., Hanley, F. L., McElhinney, D. B.
2019: 1–5

- **Outcomes After Initial Unifocalization to a Shunt in Complex Tetralogy of Fallot with MAPCAs.** *The Annals of thoracic surgery*
Bauser-Heaton, H. n., Ma, M. n., Wise-Faberowski, L. n., Asija, R. n., Shek, J. n., Zhang, Y. n., Peng, L. F., Sidell, D. R., Hanley, F. L., McElhinney, D. B.
2019
- **Tetralogy of Fallot: Everything You Wanted to Know but Were Afraid to Ask.** *Paediatric anaesthesia*
Wise-Faberowski, L., Asija, R., McElhinney, D. B.
2018
- **Repair of Untreated Older Patients with Tetralogy of Fallot with Major Aortopulmonary Collaterals.** *The Annals of thoracic surgery*
Vaikunth, S., Bauser-Heaton, H., Lui, G. K., Wise-Faberowski, L., Chan, F. P., Asija, R., Hanley, F. L., McElhinney, D. B.
2018
- **Deletion of 22q11 chromosome is associated with postoperative morbidity after unifocalisation surgery - CORRIGENDUM.** *Cardiology in the young*
Koth, A., Sidell, D., Bauser-Heaton, H., Wise-Faberowski, L., Hanley, F. L., McElhinney, D. B., Asija, R.
2018: 1
- **Deletion of 22q11 chromosome is associated with postoperative morbidity after unifocalisation surgery.** *Cardiology in the young*
Koth, A., Sidell, D., Bauser-Heaton, H., Wise-Faberowski, L., Hanley, F. L., McElhinney, D. B., Asija, R.
2018: 1–4
- **Postoperative feeding problems in patients with tetralogy of Fallot, pulmonary atresia, and major aortopulmonary collaterals undergoing unifocalisation surgery.** *Cardiology in the young*
Koth, A. M., Sakarovitch, C., Sidell, D. R., Schultz, L. M., Freccero, A., Rizzuto, S., Hanley, F. L., Asija, R.
2018: 1–4
- **Association of dead space ventilation and prolonged ventilation after repair of tetralogy of Fallot with pulmonary atresia.** *The Journal of thoracic and cardiovascular surgery*
Koth, A. M., Kwiatkowski, D. M., Lim, T. R., Bauser-Heaton, H., Asija, R., McElhinney, D. B., Hanley, F. L., Krawczeski, C. D.
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
- **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
- **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)
- **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
- **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

- **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
- **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
- **Survival after extreme left atrial hypertension and pulmonary hemorrhage in an infant supported with extracorporeal membrane oxygenation for refractory atrial flutter** *PEDIATRIC CRITICAL CARE MEDICINE*
Cisco, M. J., Asija, R., Dubin, A. M., Perry, S. B., Hanley, F. L., Roth, S. J.
2011; 12 (3): E149-E152