



## Sujatha Buddhe

- Clinical Professor, Pediatrics - Cardiology
- Clinical Associate Professor (By courtesy), Radiology - Pediatric Radiology

### CLINICAL OFFICE (PRIMARY)

- **Pediatric Cardiology**

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### Bio

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#### BIO

Dr. Buddhe earned her medical degree from the Osmania Medical College, Hyderabad, India. She completed her pediatrics residency and chief residency at the Brookdale University Hospital and Medical Center, NY and pediatric cardiology fellowship at the Children's Hospital of Michigan. Her advanced fellowship training in pediatric cardiac non-invasive imaging was completed at the Columbia University College of Physicians and Surgeons, Morgan Stanley Children's Hospital in New York. She earned her Masters degree in Clinical research and statistical analysis at the University of Michigan, Ann Arbor. She worked at Seattle Children's Hospital, University of Washington for almost ten years where she served as the Director of Non-invasive Imaging research and the Co-Director of cardiac MRI program. Her research interests include echocardiography and Cardiac MRI.

#### CLINICAL FOCUS

- Pediatric Cardiology

#### ACADEMIC APPOINTMENTS

- Clinical Professor, Pediatrics - Cardiology
- Clinical Associate Professor (By courtesy), Radiology - Pediatric Radiology
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

#### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Industry Roundtable Partners Committee, American Society of Echocardiography (2023 - present)
- Vice President, Society of Pediatric Echocardiography (2023 - present)
- Co-Chair, SOCCS Research committee, American Academy of Pediatrics (2022 - present)
- Board of Directors, American Society of Echocardiography (2022 - 2023)
- Chair - Pediatric/Congenital Heart Disease education Committee, Society of Cardiac Magnetic Resonance Imaging (2021 - present)
- Member-at-Large, Western Society of Pediatric Cardiology (2019 - present)

## PROFESSIONAL EDUCATION

- MBA, University of California, Berkeley, Haas School of Business (2024)
- Advanced Imaging Fellowship, Columbia Presbyterian Medical Center, NY , Noninvasive Imaging (2013)
- MS, University of Michigan, Ann Arbor , Master of Science in Clinical Research and Statistical Analysis (2013)
- Board Certification: Pediatric Cardiology, American Board of Pediatrics (2012)
- Fellowship: Children's Hospital of Michigan Pediatric Education Office (2012) MI
- Board Certification: Pediatrics, American Board of Pediatrics (2009)
- Residency: Brookdale University and Medical Center Pediatric Residency (2009) NY
- Medical Education: Osmania Medical College (2003) Hy India

## Publications

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### PUBLICATIONS

- **Single Center Retrospective Initiative to Improve Reporting Times of Echocardiograms.** *Pediatric cardiology*  
Ramachandra, R., Thorson, K., Reddy, C. D., Buddhe, S., Tierney, S.  
2026
- **Device-Related Findings on Computed Tomography After Transcatheter Pulmonary Valve Replacement With the Harmony Valve.** *Circulation. Cardiovascular interventions*  
Buddhe, S., Maskatia, S. A., Jaggi, A., Haeffele, C., Chan, F. P., McElhinney, D. B.  
2025: e015186
- **2D Speckle Tracking Strain Echocardiography in Multisystem Inflammatory Syndrome in Children: A Multicenter Analysis From the MUSIC Study.** *Circulation. Cardiovascular imaging*  
Sperotto, F., Kazlova, V., Trachtenberg, F. L., Truong, D. T., Aggarwal, S., Block, J. R., Bradford, T., Buddhe, S., Dionne, A., Dragulescu, A., Farooqi, K., Forsha, D. E., Giglia, et al  
2025: e017620
- **Corrigendum to "Cardiac manifestations and outcomes of COVID-19 vaccine-associated myocarditis in the young in the USA: longitudinal results from the Myocarditis After COVID Vaccination (MACiV) multicenter study".** *EClinicalMedicine*  
Jain, S. S., Anderson, S. A., Steele, J. M., Wilson, H. C., Muniz, J. C., Soslow, J. H., Beroukhim, R. S., Maksymiuk, V., Jacquemyn, X., Frosch, O. H., Fonseca, B., Harahsheh, A. S., Buddhe, et al  
2025; 84: 103268
- **Characteristics and Perspectives of Female Pediatric Cardiology Division Chiefs.** *JACC. Advances*  
Gal, D. B., Buddhe, S., Salles, A., Co-Vu, J. G., Kipps, A. K.  
2025; 4 (6 Pt 1): 101805
- **Potential role of targeted echocardiography as a screening test for select diagnoses in the paediatric population: bicuspid aortic valve and left ventricular hypertrophy.** *Cardiology in the young*  
Yang, C., Edwards, L. A., Vernon, M. M., Conwell, J., Buddhe, S.  
2025: 1-5
- **CMR Findings in the Long-Term Outcomes After Multisystem Inflammatory Syndrome in Children (MUSIC) Study.** *Circulation. Cardiovascular imaging*  
Lang, S. M., Truong, D. T., Powell, A. J., Kazlova, V., Newburger, J. W., Awerbach, J. D., Binka, E., Bradford, T. T., Cartoski, M., Cheng, A., DiLorenzo, M. P., Dionne, A., Dorfman, et al  
2025: e017420
- **SINGLE CENTER QI INITIATIVE TO IMPROVE ECHO REPORT COMPLETION TIME**  
Ramachandra, R., Thorson, K., Reddy, C. D., Buddhe, S., Tierney, E.  
ELSEVIER SCIENCE INC.2025: 2067
- **Review of the Current State of Artificial Intelligence in Pediatric Cardiovascular Magnetic Resonance Imaging.** *Children (Basel, Switzerland)*  
Gearhart, A., Anjewierden, S., Buddhe, S., Tandon, A.

2025; 12 (4)

- **Six-Month Outcomes in the Long-Term Outcomes After the Multisystem Inflammatory Syndrome in Children Study.** *JAMA pediatrics*  
Truong, D. T., Trachtenberg, F. L., Hu, C., Pearson, G. D., Friedman, K., Sabati, A. A., Dionne, A., Oster, M. E., Anderson, B. R., Block, J., Bradford, T. T., Campbell, M. J., D'Addese, et al  
2025
- **Building a machine learning-assisted echocardiography prediction tool for children at risk for cancer therapy-related cardiomyopathy.** *Cardio-oncology (London, England)*  
Edwards, L. A., Yang, C., Sharma, S., Chen, Z. H., Gorantla, L., Joshi, S. A., Longhi, N. J., Worku, N., Yang, J. S., Martinez Di Pietro, B., Armenian, S., Bhat, A., Border, et al  
2024; 10 (1): 66
- **Cardiac manifestations and outcomes of COVID-19 vaccine-associated myocarditis in the young in the USA: longitudinal results from the Myocarditis After COVID Vaccination (MACiV) multicenter study.** *EClinicalMedicine*  
Jain, S. S., Anderson, S. A., Steele, J. M., Wilson, H. C., Muniz, J. C., Soslow, J. H., Beroukhim, R. S., Maksymiuk, V., Jacquemyn, X., Frosch, O. H., Fonseca, B., Harahsheh, A. S., Buddhe, et al  
2024; 76: 102809
- **Myocardial Scarring and Sudden Cardiac Death in Young Patients With Hypertrophic Cardiomyopathy: A Multicenter Cohort Study.** *JAMA cardiology*  
Chan, R. H., van der Wal, L., Liberato, G., Rowin, E., Soslow, J., Maskatia, S., Chan, S., Shah, A., Fogel, M., Hernandez, L., Anwar, S., Voges, I., Carlsson, et al  
2024
- **Predictors of post-operative left atrioventricular valve regurgitation in pediatric patients with complete atrioventricular canal defects.** *Echocardiography (Mount Kisco, N.Y.)*  
Freeman, K., Caris, E., Schultz, A. H., Tressel, W., Kronmal, R., Buddhe, S.  
2024; 41 (5): e15832
- **Rate of Change in Cardiac Magnetic Resonance Imaging Measures Is Associated With Death in Duchenne Muscular Dystrophy.** *Journal of the American Heart Association*  
Starnes, J. R., Xu, M., George-Durrett, K., Crum, K., Raucis, F. J., Spurney, C. F., Hor, K. N., Cripe, L. H., Husain, N., Buddhe, S., Gambetta, K., Tamaroff, J., Slaughter, et al  
2024: e032960
- **Design and Implementation of Multicenter Pediatric and Congenital Studies with Cardiovascular Magnetic Resonance: Big Data in Smaller Bodies.** *Journal of cardiovascular magnetic resonance : official journal of the Society for Cardiovascular Magnetic Resonance*  
DiLorenzo, M. P., Lee, S., Rathod, R. H., Raimondi, F., Farooqi, K. M., Jain, S. S., Samyn, M. M., Johnson, T. R., Olivieri, L. J., Fogel, M. A., Lai, W. W., Renella, P., Powell, et al  
2024: 101041
- **Objective Comparison of Clinical and Cardiac Magnetic Resonance Biomarkers in Adolescents Presenting With Acute Chest Pain and Elevated Troponins Pre-COVID and Post-COVID Vaccination.** *Journal of magnetic resonance imaging : JMRI*  
Gulhane, A., Soriano, B., Stanescu, L., Schauer, J., Ferguson, M., Romberg, E., Bhutta, S., Otto, R., Caris, E., Mallenahalli, S., Portman, M., Litt, H., Buddhe, et al  
2023
- **Appropriateness of cardiovascular computed tomography and magnetic resonance imaging in patients with conotruncal defects.** *Journal of cardiovascular computed tomography*  
Pickard, S. S., Armstrong, A. K., Balasubramanian, S., Buddhe, S., Crum, K., Kong, G., Lang, S. M., Lee, M. V., Lopez, L., Natarajan, S. S., Norris, M. D., Parra, D. A., Parthiban, et al  
2023
- **Comparative effectiveness of virtual reality (VR) vs 3D printed models of congenital heart disease in resident and nurse practitioner educational experience** *3D PRINTING IN MEDICINE*  
Awori, J., Friedman, S. D., Howard, C., Kronmal, R., Buddhe, S.  
2023; 9 (1): 2
- **HEARTBEAT4D: An Open-source Toolbox for Turning 4D Cardiac CT into VR/AR.** *Journal of digital imaging*  
Bindschadler, M., Buddhe, S., Ferguson, M. R., Jones, T., Friedman, S. D., Otto, R. K.  
2022; 35 (6): 1759-1767

- **The Diagnostic Role of Echocardiographic Strain Analysis in Patients Presenting with Chest Pain and Elevated Troponin: A Multicenter Study** *JOURNAL OF THE AMERICAN SOCIETY OF ECHOCARDIOGRAPHY*  
Schauer, J., Caris, E., Soriano, B., Ait-Ali, L., Ashwath, R., Balasubramanian, S., Choueiter, N., Christensen, J., Cornicelli, M., Muniz, J., Parra, D., Tham, E., Albers, et al  
2022; 35 (8): 857-867
- **Accuracy of Cardiac Magnetic Resonance Imaging in Diagnosing Pediatric Cardiac Masses A Multicenter Study** *JACC-CARDIOVASCULAR IMAGING*  
Beroukhim, R. S., Ghelani, S., Ashwath, R., Balasubramanian, S., Biko, D. M., Buddhe, S., Campbell, M., Cross, R., Festa, P., Griffin, L., Grotenhuis, H., Hasbani, K., Hashemi, et al  
2022; 15 (8): 1391-1405
- **Persistent Cardiac Magnetic Resonance Imaging Findings in a Cohort of Adolescents with Post-Coronavirus Disease 2019 mRNA Vaccine Myopericarditis** *JOURNAL OF PEDIATRICS*  
Schauer, J., Buddhe, S., Gulhane, A., Sagiv, E., Studer, M., Colyer, J., Chikkabyrappa, S., Law, Y., Portman, M. A.  
2022; 245: 233-237
- **Worldwide Disparities in Recovery of Cardiac Testing 1 Year Into COVID-19.** *Journal of the American College of Cardiology*  
Einstein, A. J., Hirschfeld, C., Williams, M. C., Vitola, J. V., Better, N., Villines, T. C., Cerci, R., Shaw, L. J., Choi, A. D., Dorbala, S., Karthikeyan, G., Lu, B., Sinitsyn, et al  
2022; 79 (20): 2001-2017
- **Survey of centers performing cardiovascular magnetic resonance in pediatric and congenital heart disease: a report of the Society for Cardiovascular Magnetic Resonance** *JOURNAL OF CARDIOVASCULAR MAGNETIC RESONANCE*  
Buddhe, S., Soriano, B. D., Powell, A. J.  
2022; 24 (1): 10
- **Is biventricular vascular coupling a better indicator of ventriculo-ventricular interaction in congenital heart disease?** *CARDIOLOGY IN THE YOUNG*  
Yang, E. L., Kutty, S., Soriano, B. D., Mallenahalli, S., Ferguson, M. R., Lewin, M. B., Buddhe, S.  
2021; 31 (12): 2009-2014
- **Echocardiographic assessment of right ventricular volume in repaired tetralogy of Fallot: a novel approach to an older technique** *JOURNAL OF ECHOCARDIOGRAPHY*  
Lee, J. K., Chikkabyrappa, S., Bhat, A., Buddhe, S.  
2022; 20 (2): 106-114
- **Myopericarditis After the Pfizer Messenger Ribonucleic Acid Coronavirus Disease Vaccine in Adolescents** *JOURNAL OF PEDIATRICS*  
Schauer, J., Buddhe, S., Colyer, J., Sagiv, E., Law, Y., Chikkabyrappa, S., Portman, M. A.  
2021; 238: 317-320
- **3D models improve understanding of congenital heart disease** *3D PRINTING IN MEDICINE*  
Awori, J., Friedman, S. D., Chan, T., Howard, C., Seslar, S., Soriano, B. D., Buddhe, S.  
2021; 7 (1): 26
- **COVID-19 Vaccination-Associated Myocarditis in Adolescents.** *Pediatrics*  
Jain, S. S., Steele, J. M., Fonseca, B., Huang, S., Shah, S., Maskatia, S. A., Buddhe, S., Misra, N., Ramachandran, P., Gaur, L., Eshtehardi, P., Anwar, S., Kaushik, et al  
2021
- **Differences in right ventricular-pulmonary vascular coupling and clinical indices between repaired standard tetralogy of Fallot and repaired tetralogy of Fallot with pulmonary atresia.** *Diagnostic and interventional imaging*  
Buddhe, S., Jani, V., Sarikouch, S., Gaur, L., Schuster, A., Beerbaum, P., Lewin, M., Kutty, S.  
2021; 102 (2): 85-91
- **Uncommon Association of Aortopulmonary Window in a Patient with Complex Univentricular Heart and CHARGE Syndrome.** *Kansas journal of medicine*  
Chikkabyrappa, S., Mahadevaiah, G., Doshi, A. R., Lee, J., Sagiv, E., Buddhe, S.  
2021; 14: 48-50
- **Tripartite Assessment of Right Ventricular Systolic Function in Persistent Pulmonary Hypertension of the Newborn** *PEDIATRIC CARDIOLOGY*

- Chikkabyrappa, S. M., Critser, P., Roane, J., Buddhe, S., Tretter, J. T.  
2020; 41 (6): 1206-1211
- **Tetralogy of Fallot With Pulmonary Atresia: Anatomy, Physiology, Imaging, and Perioperative Management** *SEMINARS IN CARDIOTHORACIC AND VASCULAR ANESTHESIA*  
Ganigara, M., Sagiv, E., Buddhe, S., Bhat, A., Chikkabyrappa, S. M.  
2021; 25 (3): 208-217
  - **Rare Association of Absent Pulmonary Valve Syndrome with Double Outlet Right Ventricle and Hypoplastic Left Heart Complex.** *Kansas journal of medicine*  
Frandsen, E. L., Doshi, A. R., Buddhe, S., Arya, B., Chikkabyrappa, S. M.  
2020; 13: 21-22
  - **The Early "Unnatural" History Following Surgical Repair of Ventricular Septal Defects.** *Kansas journal of medicine*  
Chikkabyrappa, S. M., Tretter, J. T., Doshi, A. R., Buddhe, S., Bhatla, P., Ludomirsky, A.  
2019; 12 (4): 121-124
  - **Preoperative Physiology, Imaging, and Management of Coarctation of Aorta in Children** *SEMINARS IN CARDIOTHORACIC AND VASCULAR ANESTHESIA*  
Ganigara, M., Doshi, A., Naimi, I., Mahadevaiah, G., Buddhe, S., Chikkabyrappa, S. M.  
2019; 23 (4): 379-386
  - **An unusual case of concordant ventriculoarterial connections, subpulmonary infundibulum, and parallel arterial trunks: a diagnostic challenge** *CARDIOLOGY IN THE YOUNG*  
Nelson, J. A., Soriano, B. D., Buddhe, S.  
2019; 29 (7): 980-982
  - **Common Arterial Trunk: Physiology, Imaging, and Management** *SEMINARS IN CARDIOTHORACIC AND VASCULAR ANESTHESIA*  
Chikkabyrappa, S., Mahadevaiah, G., Buddhe, S., Alsaied, T., Tretter, J.  
2019; 23 (2): 225-236
  - **Etanercept With IVIg for Acute Kawasaki Disease: A Randomized Controlled Trial.** *Pediatrics*  
Portman, M. A., Dahdah, N. S., Slee, A., Olson, A. K., Choueiter, N. F., Soriano, B. D., Buddhe, S., Altman, C. A.  
2019
  - **Echocardiographic surveillance in children after tetralogy of Fallot repair: Adherence to guidelines?** *International journal of cardiology*  
Annavaijhala, V. n., Valente, A. M., Lopez, L. n., Sachdeva, R. n., Glickstein, J. S., Natarajan, S. S., Buddhe, S. n., Altmann, K. n., Soriano, B. D., Colquitt, J. L., Altman, C. A., Sasaki, N. n., Sakarovitch, et al  
2019
  - **Cardiac Management of the Patient With Duchenne Muscular Dystrophy** *PEDIATRICS*  
Buddhe, S., Cripe, L., Friedland-Little, J., Kertesz, N., Eghtesady, P., Finder, J., Hor, K., Judge, D. P., Kinnett, K., McNally, E. M., Raman, S., Thompson, W., Wagner, et al  
2018; 142: S72-S81
  - **Determinants of Physician, Sonographer, and Laboratory Productivity: Analysis of the Third Survey from the American Society of Echocardiography Committee on Pediatric Echocardiography Laboratory Productivity** *JOURNAL OF THE AMERICAN SOCIETY OF ECHOCARDIOGRAPHY*  
Soriano, B. D., Fleishman, C. E., Van Hoever, A. M., Wright, B., Printz, B., Tacy, T. A., Allada, V., Lai, W. W., Buddhe, S., Srivastava, S.  
2018; 31 (9): 976-982
  - **Diagnostic role of strain imaging in atypical myocarditis by echocardiography and cardiac MRI** *PEDIATRIC RADIOLOGY*  
Wisotzkey, B. L., Soriano, B. D., Albers, E. L., Ferguson, M., Buddhe, S.  
2018; 48 (6): 835-842
  - **Comparison of two-dimensional and three-dimensional echocardiographic strain in children with CHD** *CARDIOLOGY IN THE YOUNG*  
Wisotzkey, B. L., Soriano, B. D., Buddhe, S.  
2017; 27 (8): 1557-1565
  - **Right ventricular global longitudinal strain in repaired tetralogy of Fallot** *ECHOCARDIOGRAPHY-A JOURNAL OF CARDIOVASCULAR ULTRASOUND AND ALLIED TECHNIQUES*

- Del Toro, K., Soriano, B. D., Buddhe, S.  
2016; 33 (10): 1557-1562
- **Comparison of left ventricular function assessment between echocardiography and MRI in Duchenne muscular dystrophy** *PEDIATRIC RADIOLOGY*  
Buddhe, S., Lewin, M., Olson, A., Ferguson, M., Soriano, B. D.  
2016; 46 (10): 1399-1408
  - **Right Ventricular Apical Flattening as an Echocardiographic Screening Tool for Right Ventricular Enlargement** *PEDIATRIC CARDIOLOGY*  
Buddhe, S., Ferguson, M., Arya, B., Soriano, B. D.  
2016; 37 (3): 568-574
  - **Longitudinal Strain by Speckle Tracking Echocardiography in Pediatric Heart Transplant Recipients** *CONGENITAL HEART DISEASE*  
Buddhe, S., Richmond, M. E., Gilbreth, J., Lai, W. W.  
2015; 10 (4): 362-370
  - **Risk of Congenital Heart Defects in the Offspring of Smoking Mothers: A Population-Based Study** *JOURNAL OF PEDIATRICS*  
Sullivan, P. M., Dervan, L. A., Reiger, S., Buddhe, S., Schwartz, S. M.  
2015; 166 (4): 978-U293
  - **Progression of Right Ventricular Dilation in Repaired Tetralogy of Fallot** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
Buddhe, S., Shah, A., Lai, W. W.  
2015; 41 (3): 730-737
  - **Predictors of left ventricular remodeling after aortic valve replacement in pediatric patients with isolated aortic regurgitation.** *Congenital heart disease*  
Buddhe, S., Du, W., Walters, H. L., Delius, R., Pettersen, M. D.  
2013; 8 (2): 167-73
  - **Managing Cardiovascular Risk in Overweight Children and Adolescents** *PEDIATRIC DRUGS*  
Dhuper, S., Buddhe, S., Patel, S.  
2013; 15 (3): 181-190
  - **Primary Endocardial Fibroelastosis Presenting in a Young Child as Incessant Ventricular Tachycardia and Dilated Cardiomyopathy** *TEXAS HEART INSTITUTE JOURNAL*  
Arya, S. O., Karpawich, P. P., Gupta, P., Buddhe, S., Singh, H. R., Hussein, Y., Gowda, S. T.  
2012; 39 (5): 714-718
  - **Impact of pulmonary hypertension on transplant outcomes in pediatric cardiomyopathy patients.** *Pediatric transplantation*  
Buddhe, S., Du, W., L'Ecuyer, T.  
2012; 16 (4): 367-72
  - **Radiofrequency and cryoablation therapies for supraventricular arrhythmias in the young: five-year review of efficacies.** *Pacing and clinical electrophysiology : PACE*  
Buddhe, S., Singh, H., Du, W., Karpawich, P. P.  
2012; 35 (6): 711-7
  - **NT-proBNP Levels Improve the Ability of Predicting a Hemodynamically Significant Patent Ductus Arteriosus in Very Low-Birth-Weight Infants** *JOURNAL OF CLINICAL NEONATOLOGY*  
Buddhe, S., Dhuper, S., Kim, R., Weichbrod, L., Mahdi, E., Shah, N., Kona, S., Sokal, M.  
2012; 1 (2): 82-86
  - **Association of Lipid Abnormalities With Measures and Severity of Adiposity and Insulin Resistance Among Overweight Children and Adolescents** *JOURNAL OF CLINICAL HYPERTENSION*  
Dhuper, S., Sakowitz, S., Daniels, J., Buddhe, S., Cohen, H. W.  
2009; 11 (10): 594-600