

DR. ANIL KUMAR SINGHI

Senior Consultant - Paediatric Cardiology

Qualification

MBBS | MD - Gold Medal | FNB | FRCPCH | FACC

Overview

Dr. Anil Kumar Singhi is a Senior Consultant in Paediatric Cardiology at Manipal Hospitals, E.M. Bypass, Kolkata, bringing over 18 years of expertise in pediatrics, with 12 years dedicated to Paediatric Cardiology. A Gold Medalist in MD (Paediatrics) and holder of prestigious fellowships (FNB, FRCPCH, FACC), Dr. Singhi is a trusted name in diagnosing and treating congenital and structural heart diseases across all age groups. His specialized skills include non-surgical (transcatheter) interventions, diagnostic and therapeutic cardiac catheterization, and complex procedures like ASD, PDA, and VSD closures, large vascular stenting, valvotomy for stenotic valves, RSOV closure, coronary AV fistula closure, and post-MI VSD closure. His expertise in transthoracic and transesophageal echocardiography ensures accurate diagnosis and treatment, while his proficiency in fetal echocardiography aids in early detection of congenital heart conditions. Dr. Singhi has successfully performed numerous transcatheter interventions, allowing hole closure in the heart without surgery, offering minimally invasive solutions for congenital defects. As a leading educator in pediatrics, he contributes to advancing

cardiac care knowledge, staying at the forefront of innovative Paediatric Cardiology treatments. With his compassionate approach and expertise, Dr. Anil Kumar Singhi continues to transform the lives of children and adults with heart conditions, making Manipal Hospitals, Kolkata, a center of excellence for Paediatric Cardiology.

Fellowship & Membership

- Life member, Indian Academy of Pediatrics
- Life member, National Neonatology Forum, India
- Life member, Indian Medical Association
- Life member, Pediatric Cardiac Society of India
- Life Member , Cardiology Society of India

Field of Expertise

- Non-surgical (Trans-catheter) intervention for Congenital (birth-related) and structural heart disease in all age groups.
- Transthoracic and Tran’s oesophageal echocardiography evolution.
- Fetal Echocardiogram

Languages Spoken

- English
- Bengali
- Hindi

Awards & Achievements

- Gonadal Hormone in Multitransfused Thalassemia Patients’,

presented at Indian Association of Pediatrics annual meeting, West Bengal Branch, 2002.

- Srinivas. L, Singhi A K, Sundaram KR, Kumar RK. Decline in arterial po2 after exercise can help stratify patients with large atrial septal defect and pulmonary hypertension : young investigator award in the annual conference of pediatric cardiology society of India held in Kochi , Kerala 2008
- Mukherjee M, Ghosh A, Singhi AK. Rare case of Cardiac Tumor. EZECHO 2016 Kolkata, best CD presentation first prize
- First Prize, Post Graduate entrance 2000, NRSMC Ex Student association
- Certificate of Merit (2003), Calcutta University, Kolkata, MD [Pediatrics]
- Sulekha Memorials Gold Medal, (2003) MD [Pediatrics] by Indian Academy of Pediatrics, West Bengal Branch-India

Talks & Publications

- Singhi AK, Francis E, Kumar RK. Ruptured submitral aneurysm in an eight-year-old girl. Ann Pediatr Cardiol. 2008 Jul;1(2):142-3. doi: 10.4103/0974-2069.43882. PMID: 20300258; PMCID: PMC2840755.
- Kumar Singhi A, Krishna Kumar R. Pulmonary arteriovenous malformations after cavopulmonary anastomosis. Ann Pediatr Cardiol. 2009 Jul;2(2):177-8. PMID: 20808638; PMCID: PMC2922673.
- Singhi AK, Bobhate P, Kappanayil M. Acute rheumatic fever: subcutaneous nodules and carditis. Circulation. 2010 Feb 23;121(7):946-7. doi: 10.1161/CIR.0b013e3181d30e96. PMID: 20177010.
- Singhi AK, Mahesh K, Kumar RK. Pulmonary edema following transcatheter closure of atrial septal defect. Ann Pediatr

Cardiol. 2010 Jan;3(1):90-1. doi: 10.4103/0974-2069.64359. PMID: 20814485; PMCID: PMC2921528.

- Singhi AK, Srinivas L, Vaidyanathan B, Krishna Kumar R. Mechanism of tricuspid regurgitation in corrected transposition of great arteries. J Echocardiogr. 2010 Dec;8(4):144-5. doi: 10.1007/s12574-010-0048-7.Epub 2010 Jun 15. PMID: 27278952.
- Singhi AK, Francis E, Kumar RK. Isolated absence of right pulmonary artery. Ann Pediatr Cardiol. 2010 Jul;3(2):119-22. doi: 10.4103/0974-2069.74037. PMID: 21234189; PMCID: PMC3017914.
- Singhi AK, Nicholson I, Francis E, Kumar RK, Hawker R. Anomalous systemic arterial supply to normal basal segment of the left lung. Heart Lung Circ. 2011 Jun;20(6):357-61. doi: 10.1016/j.hlc.2011.02.006. Epub 2011 Apr 2. PMID: 21459669.
- Singhi AK, Sivakumar K. Different transcatheter strategies for aortic coarctation associated with patent ductus arteriosus. Indian Heart J. 2012 Jul-Aug;64(4):423-6. doi: 10.1016/j.ihj.2012.06.023. Epub 2012 Jul 2. PMID: 22929832; PMCID: PMC3861233.
- Singhi AK, Sivakumar K. Circular shunt in a pulmonary artery to right atrial tunnel, an anomaly unreported so far. Ann Pediatr Cardiol. 2014 May;7(2):155-7. doi: 10.4103/0974-2069.132504.PMID: 24987267; PMCID: PMC4070210.
- Singhi AK, Pavithran S, Sivakumar K. Giant coronary artery aneurysms in a 58-year-old. Ann Pediatr Cardiol. 2014 May;7(2):152-4. doi: 10.4103/0974-2069.132502. PMID: 24987266; PMCID: PMC4070209.
- Singhi AK, Kothandam S. Lessons learnt from a series of hemodynamic and interventional complications during pulmonary valvotomy and device closure of ventricular septal defect. Ann Pediatr Cardiol. 2015 Jan-Apr;8(1):59-63. doi:

10.4103/0974-2069.149525. PMID: 25684891; PMCID: PMC4322405.

- Singhi AK, Vinoth B, Kuruvilla S, Sivakumar K. Plastic bronchitis. Ann Pediatr Cardiol. 2015 Sep-Dec;8(3):246-8. doi: 10.4103/0974-2069.164682 PMID: 26556975; PMCID: PMC4608206.
- Singhi AK, Pradhan P, Agarwal R, Sivakumar K. Juxtaposed atrial appendages: A curiosity with some clinical relevance. Ann Pediatr Cardiol. 2016 May-Aug;9(2):186-9. doi: 10.4103/0974-2069.173546. PMID: 27212860; PMCID: PMC4867810.
- Singhi AK, Kothandum S. Unusual method of creation of a transcatheter fenestration in an extracardiac conduit Fontan circulation. Ann Pediatr Cardiol. 2016 Sep-Dec;9(3):258-62. doi: 10.4103/0974-2069.189112. PMID: 27625527; PMCID: PMC5007938.
- Singhi A, Sheriff EA, Sivakumar K. Transhepatic permanent pacing in a child with complex cyanotic heart disease after total cavo pulmonary shunt (Kawashima repair). Indian Pacing Electrophysiol J. 2016 Mar-Apr;16(2):73-76. doi: 10.1016/j.ipej.2016.06.003. Epub 2016 Jun 20. PMID: 27676165; PMCID: PMC5031869.
- Mukharjee M, Bathia JN, Ghosh A, Singhi AK. A rare case of cardiac tumor in a child. Ann Pediatr Cardiol. 2017 Jan-Apr;10(1):87-89. doi: 10.4103/0974-2069.197070. PMID: 28163438; PMCID: PMC5241855
- Singhi AK, Bari EA, Banerjee S. Anomalous origin of right coronary artery causing myocardial ischemia in a young patient. Ann Pediatr Cardiol. 2017 May-Aug;10(2):212-214. doi: 10.4103/apc.APC_151_16. PMID: 28566835; PMCID: PMC5431039.
- Singhi AK, Roy RR, De A, Bari EA, Kumar RK. Percutaneous closure of large pulmonary artery to left atrial fistula. J Cardiol

Cases. 2020 Jun 23;22(4):166-169. doi: 10.1016/j.jccase.2020.05.017. PMID: 33014197; PMCID: PMC7520539.

- Mukherji A, Chattopadhyay A, Ghosh S, Mohapatra SK, De A, Singhi AK. Novel use of Konar-multifunctional occluder. Cardiol Young. 2020 Nov;30(11):1722-1727. doi: 10.1017/S1047951120002668. Epub 2020 Aug 28. PMID: 32856582.
- Mukharjee SS, Mohapatra SK, Mukherji A, De A, Singhi AK. Radiofrequency ablation for fascicular ventricular tachycardia causing tachycardiomyopathy and brief literature review. Ann Pediatr Cardiol. 2021 Jan-Mar;14(1):99-104. doi: 10.4103/apc.APC_73_20. Epub 2020 Nov 19. PMID: 33679072; PMCID: PMC7918018.
- Sivakumar K, Singhi AK. Embolization of Two Occluder Devices Following Device Closure of Acute Postoperative Mitral Paravalvular Leak. J Cardiovasc Imaging. 2021 Apr;29(2):183-186. doi: 10.4250/jcvi.2020.0157. Epub 2020 Oct 19. PMID: 33605093; PMCID: PMC8099582.
- Singhi AK, Mohapatra SK, Sarkar SD, Biswas D, Pal P. Cardiac Affection in a Young Girl with Post Covid-19 Kawasaki Like Syndrome. Indian J Pediatr. 2021 Mar;88(3):303-304. doi: 10.1007/s12098-020-03513-7. Epub 2020 Oct 8. PMID: 33034002; PMCID: PMC7543963.
- Singhi AK, Sivakumar K. Echocardiographic Classification of Perimembranous Ventricular Septal Defect Guides Selection of the Occluder Design for Their Transcatheter Device Closure. J Cardiovasc Imaging. 2021 Oct;29(4):316-326. doi: 10.4250/jcvi.2020.0218. Epub 2021 Mar 30. PMID: 34080335; PMCID: PMC8592680.
- Singhi AK, Mohapatra SK, Bari EA. Multiple Sub Annular Aneurysm in a Young Girl. J Cardiovasc Imaging. 2022 Jan;30(1):81-83. doi: 10.4250/jcvi.2021.0037. Epub 2021 May 6.

PMID: 34080349; PMCID: PMC8792715.

- Mohapatra SK, Das MB, Bari EA, Mukherji A, Singhi AK. Dual drainage of the common chamber of total anomalous pulmonary venous connection. Progress in Pediatric Cardiology. https://doi.org/10.4250/jcvi.2021.0037
- Singhi AK, Das D, Mittal A. Simultaneous balloon aortic valvotomy and patent ductus arteriosus device closure in preterm newborn. J Cardiol Cases. 2021 Sep 5;25(3):137-139. doi: 10.1016/j.jccase.2021.08.004. PMID: 35261695; PMCID: PMC8888732.
- Singhi AK, Govind B, Satish J, Sivakumar K. Late occurrence of ventricular septal rupture after deep septal myectomy for hypertrophic cardiomyopathy: Causes and management. J Cardiol Cases. 2021 Dec 30;25(5):304-307. doi: 10.1016/j.jccase.2021.11.013. PMID: 35582082; PMCID: PMC9091526.
- Singhi AK, Das MB, Nath A, Chatterjee D, Das S. Simultaneous unifocalization of major aortopulmonary collateral and bidirectional Glenn shunt in a child with ventricular septal defect and pulmonary atresia. Progress in Pediatric Cardiology. https://doi.org/10.1016/j.ppedcard.2022.101484
- Singhi AK, Mukherji A, De A. Perimembranous ventricular septal defect closure in infants with KONAR-MF occluder Progress in Pediatric Cardiology. Progress in Pediatric Cardiology . 2022, 65, 101489. DOI: 10.1016/j.ppedcard.2022.101489
- Singhi AK, Mahapatra SK, Kumar D, Dey S, Mishra A, De A. Challenges in Device Closure of Secundum Atrial Septal Defect in Older Patients in Their Fifth Decade and Beyond. Cureus. 2022 Feb 22;14(2):e22480. doi: 10.7759/cureus.22480. PMID: 35223335; PMCID: PMC8861837.
- Singhi AK, Mohapatra SK, Mukherjee SS, Das S, Maulick T, De A. Unexpected stormy course after uneventful device closure of atrial septal defect - Possibly due to post-COVID-19

inflammatory state. Ann Pediatr Cardiol. 2023;16(2):127-130. doi:10.4103/apc.apc_105_22

- Singhi AK, Mohapatra SK, Halder A, Nath A, Das S, Ghosh A, Chatterjee D, Samal A, Sarkar K. Sunshine after the nightmare: Iliac artery injury during coarctaion of aorta stenting in an adolescent girl. Progress in Pediatric Cardiology . PPC 101682
- https://doi.org/10.1016/j.ppedcard.2023.101682
- Singhi AK, Banerjee A, Biswas N, Das S. Diagnostic enigma of pulmonary hypertension: Tale from a series of three patients. Med J Armed Forces India. https://doi.org/10.1016/j.mjafi.2023.08.003
- Singhi AK, Mohapatra SK, Kumar D, Pande A, Halder A, Dey S, Nath A, De A. Fenestration: Integrating Wings Into the Atrial Septal Occluder for Navigating a Challenging Terrain. Cureus. 2023 Sep 14;15(9):e45260. doi: 10.7759/cureus.45260. PMID: 37846260; PMCID: PMC10576653.
- Singhi A K, Mohapatra S K, Biswas N, et al. (December 23, 2023) PULMOEAST: A Comprehensive Analysis of Pulmonary Hypertension in Eastern India. Cureus 15(12): e50996. doi:10.7759/cureus.50996
- Singhi AK, Sardar S, Kumar D. Left Ventricular Thrombosis in a Case of Acute Inferior Wall Myocardial Infarction. J Indian Acad Echocardiogr Cardiovasc Imaging 2021;5:173-6. DOI: 10.4103/jiae.jiae_72_20
- Singhi AK, Bhargava A, Mukherjee SS, Mohapatra SK, Chakraborty R. Role of Imaging in the Diagnosis of Arrhythmogenic Right Ventricular Cardiomyopathy in Presence of Congenital Heart DiseaseJ Indian Acad Echocardiogr Cardiovasc Imaging 2021;5:225-32. DOI: 10.4103/jiae.jiae_82_20
- Singhi AK, Bharath AP , Varghese R, Sivakumar K. Drowning in the Effusion: Cardiac Tamponade as Presenting Feature of Lymphoma in a Young Boy . J Indian Acad Echocardiogr

Cardiovasc Imaging 2022;6:63-65. DOI:10.4103/jiae.jiae_14_21

- Singhi AK, Mohapatra SK, Bari EA. Tetralogy of Fallot with right aortic arch and long-segment coarctation of aorta. J Indian Acad Echocardiogr Cardiovasc Imaging 2023. 7, 62 - 64.. DOI: 10.4103/jiae.jiae_31_22
- Singhi AK, Das MB, Mohapatra SK, Das S, Nath A, Chatterjee D. Double jeopardy: Truncus arteriosus with obstructed infracardiac total anomalous pulmonary venous connection. J Indian Acad Echocardiogr Cardiovasc Imaging 2023;7:178-81.
- Singhi AK, Mohapatra SK, Nath A, Das S. Tricuspid atresia with double-outlet left ventricle and pulmonary stenosis. J Indian Acad Echocardiogr Cardiovasc Imaging 0;0:0. DOI:10.4103/jiae.jiae_35_23
- Singhi AK, Mohapatra SK, De A. Transcatheter closure of perimembranous ventricular septal defect using the cocoon membranous VSD occluder. Progress in Pediatric Cardiology . https://doi.org/10.1016/j.ppedcard.2024.101744