

Dr. Dinesh Raja P

MD Internal Medicine · DM Cardiology · Fellowship-trained in Cardiac Electrophysiology

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PROFILE

Cardiologist trained at SCTIMST, one of India's premier cardiac centres, with working competence across clinical and non-invasive cardiology, diagnostic coronary angiography, haemodynamic assessment, electrophysiology studies and catheter ablation. Currently extending that base towards percutaneous coronary intervention and structural heart disease. Alongside clinical work sits a sustained interest in academic medicine — clinical research, cardiovascular simulation, and mentoring post-graduate trainees.

EXPERIENCE

Fellow — Cardiac Electrophysiology

JAN 2025 - APR 2026

SCTIMST, Thiruvananthapuram

- Electrophysiology studies for the diagnostic evaluation of complex arrhythmias
- Catheter ablation using conventional 2D fluoroscopy-guided and 3D electroanatomical mapping (CARTO / EnSite) techniques
- Pacemaker and ICD follow-up, device programming and pacing optimisation
- Transseptal puncture, coronary sinus cannulation and CRT procedures
- Mentored DM Cardiology registrars and contributed to academic teaching programmes

Senior Resident — DM Cardiology

JAN 2022 - DEC 2024

SCTIMST, Thiruvananthapuram

- Rotations across the coronary care unit, catheterisation laboratory, echocardiography and outpatient clinics
- Diagnostic coronary angiography and haemodynamic assessment
- Adult and paediatric echocardiography — TTE, TEE, stress echo and Doppler
- Multidisciplinary management of coronary artery disease, structural heart disease and complex arrhythmias
- Conducted and published clinical research; presented at national conferences

Consultant — Internal Medicine

MAR 2019 - DEC 2021

City Hospital, Kangra, Himachal Pradesh

- Independent consultant management of acute and chronic medical conditions
- Preventive, acute and rehabilitative cardiovascular care

Junior Resident — Internal Medicine

2015 - 2018

PGIMER, Chandigarh

- Rotations through medicine subspecialties including cardiology, nephrology and critical care
- Foundations in clinical medicine, procedural skills and medical research

EDUCATION

DM Cardiology	SCTIMST, Thiruvananthapuram	Jan 2022 - Dec 2024
MD Internal Medicine	PGIMER, Chandigarh	2015 - 2018
MBBS	Govt. Mohan Kumaramangalam Medical College, Salem	2009 - 2015

CLINICAL SKILLS

CARDIOLOGY & CARDIAC IMAGING

- Diagnostic coronary angiography and haemodynamic assessment
- Adult and paediatric echocardiography — TTE, TEE, stress, Doppler
- ECG, Holter monitoring and exercise stress testing
- Evaluation of coronary artery and structural heart disease
- Acute and chronic cardiovascular management

CARDIAC ELECTROPHYSIOLOGY

- Electrophysiology studies for arrhythmia evaluation
- Catheter ablation — conventional 2D and 3D mapping guided
- Transseptal puncture and coronary sinus cannulation
- Device implantation principles and programming
- CRT optimisation and device-mediated arrhythmia management

AREAS OF INTEREST

Coronary artery disease & PCI · Cardiac electrophysiology & ablation · Structural heart disease interventions · Echocardiography & haemodynamics · 3D simulation & medical education

ACADEMIC & INNOVATION CONTRIBUTIONS

- Ran 3D cardiac visualisation workshops for cardiovascular education at SCTIMST
- Ran cardiac anatomy and dissection workshops built around anatomy-procedure correlation
- Developed CT-based stereoscopic cardiac models for coronary, congenital and structural heart disease teaching
- Clinician-research collaborator on the Virtual Reality Tool for Surgical Planning and Medical Teaching project at SCTIMST
- Mentored multidisciplinary engineering students on cardiovascular simulation and educational innovation projects
- Builds browser-based interactive cardiac simulators for postgraduate teaching, published at cardiorender.com

CO-PRINCIPAL INVESTIGATOR

Design and development of a comprehensive low-cost simulation lab

Advanced cardiopulmonary resuscitation, respiratory system, vascular access, critical care, interventional catheterisation and ultrasound training.

Funding agency: SreePVF Foundation · Funding: ₹1 Crore

APPLIED PATENT

Smart Jacket for Interactive Heart Sound Simulation System

Patent No. 202541115140

CONFERENCE PRESENTATIONS & RECOGNITION

- Scientific work presented at PCSI 2024, CSI Kerala 2024, IHRS 2025, and Back to Basics 2025 & 2026
- Recognised by SCTIMST for contribution to the Virtual Reality Tool for Surgical Planning and Medical Teaching

SELECTED PUBLICATIONS

ORIGINAL ARTICLES

- Palanisamy DR, Harish P, Gopalakrishnan A, et al. Long-term outcomes of atrial septal defect closure in adults older than 50 years. *Pediatric Cardiology*. 2026. doi:10.1007/s00246-025-04157-0

REVIEW ARTICLES

- Mondal S, Raja DP, Muslim NA, Prabhu MA. Electrocardiographic artifacts in clinical practice: a logical approach to recognition and prevention. *World Journal of Cardiology*. 2026;18(3):116299.

CASE REPORTS & CLINICAL PUBLICATIONS

- Device closure of elliptical atrial septal defects: technical considerations. *Indian Journal of Clinical Cardiology*. Published online Jun 2025.
- Bizarre electrocardiogram in an elderly man. *Indian Journal of Clinical Cardiology*. 2024;5(1).
- Ventricular pacing in pacemaker bigeminy to rule in/out truncated pacemaker-mediated tachycardia. *Indian Journal of Clinical Cardiology*. 2024;5(1).
- Asplenia in left isomerism. *Annals of Pediatric Cardiology*. 2024;17(2):134-136.
- A classic case of Takotsubo syndrome. *QJM*. 2024;117(6):447-448.
- Iatrogenic chylopericardium in rheumatoid pericarditis. *European Heart Journal Case Reports*. 2024;8(10):ytac543.
- All that flows across the ventricular septum are not ventricular septal defects. *Cardiology in the Young*. 2024;34(1):189-191.
- Unicommissural unicuspid aortic valve presenting as ascending aortic aneurysm with aortic dissection. *Echocardiography*. 2024;41(4):e15819.
- Cardiac mucormycosis: a case report. *European Heart Journal Case Reports*. 2019.
- Ileocaecal tuberculosis: an under-recognised cause of vitamin B12 deficiency. *Tropical Doctor*. 2018.