



ROYAL CARE
HOSPITALS
making life better



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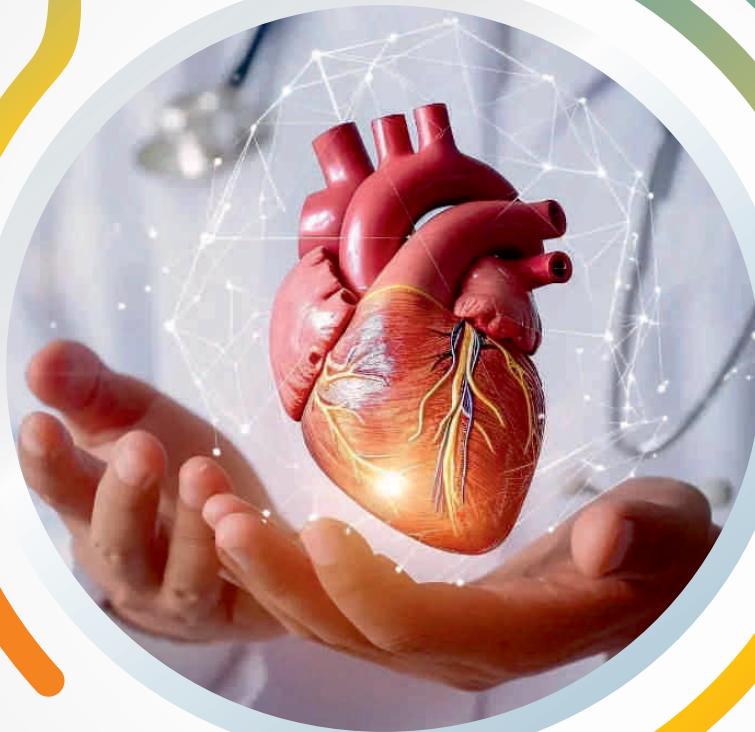
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Royal Care Institute of
**ADVANCED CARDIAC
SCIENCES**

Your journey to better heart health



Royal Care Institute of Advanced Cardiac Sciences

Since its inception, Royal Care Super Speciality Hospital Limited has earned a strong reputation for excellence, becoming the preferred choice for emergency, primary, and specialised medical care across Western Tamil Nadu. With a commitment to advanced healthcare, innovation, and compassion, we continue to redefine heart care through precision and trust.

At our Comprehensive Advanced Cardiac Sciences, we offer a fully integrated, world-class approach to cardiovascular health, combining cutting-edge technology, minimally invasive treatments, and a highly experienced team of specialists dedicated to your heart.

Preventive Cardiology

"Stay a step ahead of heart disease with early detection, lifestyle guidance, and risk management."

Interventional Cardiology

"Advanced catheter-based treatments to restore heart health without major surgery."

Cardiothoracic and Vascular Surgery

"Comprehensive surgical care for complex heart, lung, and vascular conditions."

Minimally Invasive Cardiac Surgery

"The Future of heart Surgery : less Invasive, More Precise"

Institute of Heart & Lung Transplantation and Mechanical Circulation

"Life-saving transplants with expert care and long-term support for a new beginning."





Department of Preventive Cardiology

In today's fast-paced lifestyle, heart disease is no longer confined to the elderly, it is increasingly affecting younger populations due to stress, poor diet, lack of exercise, and undetected risk factors. At Royal Care Super Speciality Hospital, our Preventive Cardiology department is dedicated to preventing heart disease before it starts, with comprehensive Master Health Check-up programs at the core of this mission.

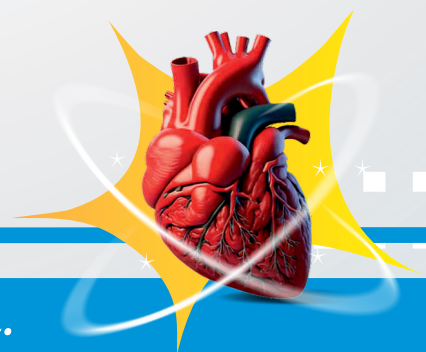
We believe early detection is the best protection. Our Master Health Check-ups are designed to provide a complete cardiovascular risk profile through a combination of advanced diagnostics, non-invasive imaging, and expert medical evaluation. These packages go beyond basic screening. They include tailored assessments for blood pressure, cholesterol, diabetes, obesity, and silent heart disease markers that may otherwise go unnoticed.

Whether you are an asymptomatic individual seeking peace of mind or someone with a family history of heart disease, our Master Health Check-up helps uncover hidden risks, offering a roadmap to prevent future complications. Every test result is reviewed by experienced cardiologists who work with nutritionists and lifestyle coaches to provide personalized, actionable guidance.

Why Choose Royal Care for Preventive Cardiology

At Royal Care, Preventive Cardiology isn't just a department, it is a long-term partnership with your heart. With our focus on early diagnosis, lifestyle modification, and cardiac wellness, we help you stay ahead of heart disease. One check-up at a time.

- ✔ Tailored Cardiac Check-ups for All Age Groups
- ✔ State-of-the-Art Diagnostic Infrastructure
- ✔ Holistic Risk Assessment
- ✔ Expert Cardiologist Review
- ✔ Lifestyle Counselling Support
- ✔ Trusted by Families Across Western Tamil Nadu



Early detection – Life long Protection.



Department of Interventional Cardiology

When seconds matter, expertise and technology must work in perfect harmony. At Royal Care Super Speciality Hospital, our Interventional Cardiology department delivers swift, minimally invasive solutions for a wide spectrum of cardiac conditions, often saving lives in critical moments.

Interventional cardiology focuses on catheter-based procedures to diagnose and treat heart diseases without the need for open-heart surgery. Our state-of-the-art catheterization labs operate round-the-clock, offering procedures such as coronary angioplasty, stenting, pacemaker insertion, and device closures, all guided by high-definition imaging and precision tools.

What sets us apart is not just our infrastructure, but the skill and dedication of our team. With deep experience in handling complex and high-risk cases, our interventional cardiologists deliver optimal outcomes, even in acute emergencies like myocardial infarctions. Whether it's managing blocked arteries or restoring rhythm to a faltering heart, we are committed to restoring cardiovascular health with accuracy and compassion.





Why Choose Royal Care for Interventional Cardiology

- ✔ 24x7 Emergency Cardiac Care
- ✔ Two most advanced Cath Labs
- ✔ High success rates in complex angioplasties
- ✔ Expertise in Radial Access and Bifurcation Lesion Management
- ✔ State-of-the-art diagnostic tools with IVUS imaging & rotablation for complex angioplasty

Interventional Procedures

- + Primary Angioplasty (Percutaneous Coronary Intervention)
- + Rotablation and IVUS-Guided High Precision Angioplasty
- + Complex Coronary Interventions
- + Fractional Flow Reserve (FFR)
- + Device Closure of Congenital Defects (ASD, VSD, PDA)
- + Percutaneous Valvotomy
- + Permanent Pacemaker Implantation
- + Cardiac Resynchronization Therapy (CRT)
- + Implantable Cardioverter Defibrillator (ICD/AICD)
- + Electrophysiology Study & Radiofrequency Ablation
- + Transcatheter Aortic Valve Implantation (TAVI)
- + Endovascular Aneurysm Repair (EVAR)



Precision Procedures that save heart.



Department of Cardiothoracic & Vascular Surgery(CTVS)

Some cardiac and vascular conditions require the highest level of surgical precision and clinical judgment. At Royal Care Super Speciality Hospital, our Cardiothoracic and Vascular Surgery (CTVS) department is a center of excellence, performing intricate surgical procedures involving the heart, lungs, aorta, and major blood vessels.

Our team brings together skilled surgeons, advanced technology, and multidisciplinary care to provide surgical solutions for conditions such as coronary artery blockages, valve defects, aortic aneurysms, and vascular diseases. From open-heart surgeries to hybrid and off-pump procedures, each procedure is planned meticulously and supported by a dedicated cardiac ICU and rehabilitation team.

With patient safety and recovery at the core of our surgical philosophy, we ensure every case receives personalized attention.

✔ We care for your heart and we have proven it is safe in our hands.





Our Spectrum of Surgery Includes

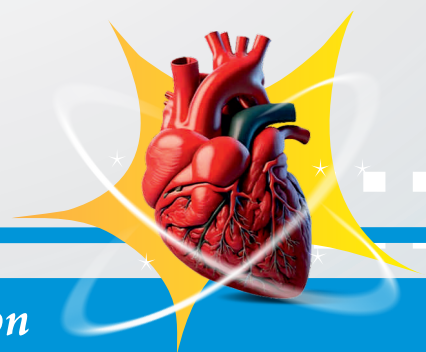
- ✔ Multidisciplinary Surgical & ICU Team
- ✔ High success rate in complex valve & bypass surgeries
- ✔ Advanced modular operation theatres
- ✔ Minimally invasive and hybrid techniques
- ✔ Dedicated Cardiac Rehabilitation Team

Our key features

- + Discharge in 5 days
- + Infection ≤ 0.02
- + Integrated approach

Surgical Procedures

- + Coronary Artery Bypass Grafting (CABG)
- + Valve Replacement and Repairs (Aortic, Mitral)
- + Congenital heart surgery
- + Aortic Aneurysm Surgery
- + Carotid Endarterectomy
- + Vascular Bypass Surgery & AV Fistula Creation
- + Lung Resections
- + VATS - Video Assisted Thoracoscopic Surgery



Where expertise meets precision



Centre of Excellence in Heart & Lung Transplantation and Mechanical Circulation

Where every heartbeat counts. Where every breath matters.

The Institute of Heart & Lung Transplantation and Mechanical Circulatory Support at Royal Care Hospitals is a specialized facility dedicated to providing advanced and comprehensive care for patients with severe heart and lung diseases. Located in Coimbatore, our institute is among India's leading centers offering integrated services in heart and lung transplantation, as well as crucial mechanical support for failing organs.

We combine groundbreaking innovation with extensive experience and genuine compassion. Our institute serves as a beacon of hope for individuals facing severe cardiopulmonary conditions. Our services are built on a foundation of teamwork, precise medical care, and an unwavering commitment to excellence, ensuring every patient receives the best possible chance to lead a healthier life.

Heart Transplantation

We perform heart transplantation for patients suffering from advanced heart failure who do not respond to standard medical or surgical treatment. Our team ensures that each transplant is carried out with the highest level of clinical precision and personalized care.

Conditions Treated:

- ✓ Dilated Cardiomyopathy
- ✓ Ischemic Cardiomyopathy
- ✓ End-stage Congenital Heart Disease
- ✓ Refractory Heart Failure

Approach:

- ✓ Comprehensive pre-transplant evaluation
- ✓ Listing with NOTTO/SOTTO
- ✓ Donor-recipient matching and surgery
- ✓ Intensive post-operative monitoring and lifelong follow-up



Lung Transplantation

We provide both unilateral and bilateral lung transplants to patients with irreversible lung damage. Our lung transplant program is designed to restore respiratory function, improve quality of life, and extend longevity.

Conditions Treated:

- ✔ Interstitial Lung Disease (ILD)
- ✔ Chronic Obstructive Pulmonary Disease (COPD)
- ✔ Pulmonary Fibrosis
- ✔ Cystic Fibrosis
- ✔ Primary Pulmonary Hypertension

Protocol:

- ✔ Functional respiratory assessments
- ✔ Advanced imaging and diagnostics
- ✔ Pre-transplant rehabilitation and optimization
- ✔ Post-surgical care and immunosuppression



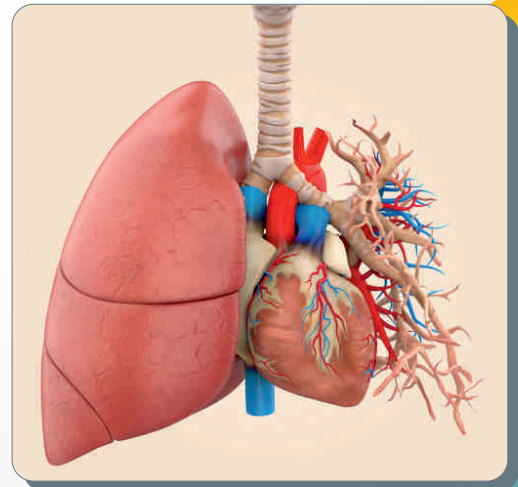
Heart-Lung Transplantation

For patients suffering from combined cardiac and pulmonary failure, heart-lung transplantation is often the only viable solution. This complex procedure demands a highly experienced surgical team and state-of-the-art support systems, both of which are available at our institute.

Candidates:

- ✔ Eisenmenger's Syndrome
- ✔ Severe Congenital Heart and Lung Disease
- ✔ Combined Cardiopulmonary Failure
- ✔ Primary Pulmonary Hypertension

Mechanical circulatory support systems are vital in managing patients with critical heart or lung dysfunction who either await transplant or are not transplant candidates. These systems offer both temporary and long-term life-sustaining solutions.



"A new Heart , Fresh Breath, A Second chance."



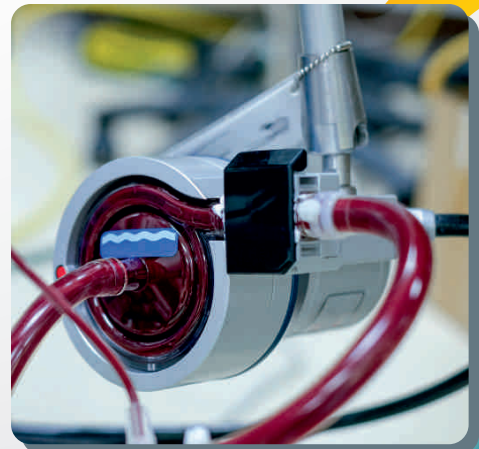
Ventricular Assist Devices (VADs):

- ✔ Mechanical pumps that support or replace the function of a failing heart
- ✔ Types: LVAD (Left), RVAD (Right), BiVAD (Both)
- ✔ Used as:
 - ✔ **Bridge-to-Transplant:** Supports patients awaiting a donor heart
 - ✔ **Bridge-to-Recovery:** Temporary support allowing heart function to recover
 - ✔ **Destination Therapy:** Permanent support for patients who are not transplant candidates
 - ✔ Benefits include reduced hospital stay, improved exercise tolerance, and better quality of life
 - ✔ Implantable and wearable device options for patient mobility

Our ECMO and VAD programs are managed by trained specialists and supported by comprehensive critical care teams, ensuring round-the-clock monitoring, prompt intervention, and optimal outcomes.

ECMO (Extracorporeal Membrane Oxygenation):

- ✔ Provides temporary support for heart and/or lung failure
- ✔ Used in severe ARDS, cardiogenic shock, or during recovery from complex cardiac procedures
- ✔ Acts as a bridge to recovery, transplant, or decision-making
- ✔ Available in both VA (veno-arterial) and VV (veno-venous) modes
- ✔ Equipped with real-time monitoring and safety features for critical care





Minimal Invasive Cardiac Surgery (MICS)

Minimal invasive cardiac surgery is one of the recent advances in the field of cardiac surgery. Compared to the conventional open heart surgery which involves the cutting of chest bone (sternum), the heart and its vital structures are approached through a mini thoracotomy either left or right side depending on the primary diagnosis. This surgery involves the use of special instruments and the expertise of the Surgeon, Anaesthetist, perfusionist and supporting staff are the key to success

Surgeries done through MICS :

- ✔ Coronary artery bypass grafting (on and off pump)
- ✔ Mitral valve repair or replacement
- ✔ Aortic valve replacement
- ✔ Double valve replacement
- ✔ Tricuspid valve repair
- ✔ Congenital heart disease
- ✔ AF ablation
- ✔ Myxoma excision
- ✔ Thymectomy

Advantages of MICS

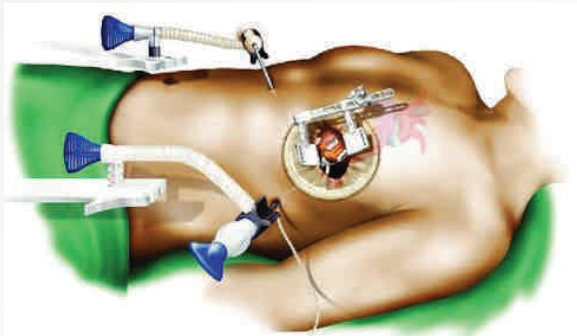
- ✔ Early post operative recovery
- ✔ Less Pain
- ✔ Less requirement of blood transfusion
- ✔ Cosmetically superior with a small scar
- ✔ Facilitates redo surgery
- ✔ Avoids sternal wound complications



Protect Your Heart – It's the Beat of Your Life."

CABG (Coronary artery bypass grafting)

MICS CABG or MIDCAB can be done through left mini thoracotomy incision. Single and multivessel CABG can be done either on pump or off pump depending on the patient selection and nature of the diseased target vessels



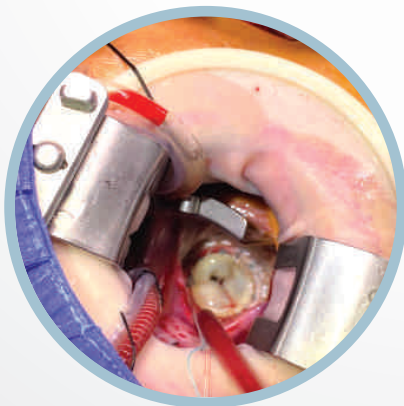
Variety of instruments used in MICS CABG



2 inch scar

Mitral Valve Replacement

Mitral valve repair or replacement can be done through right minithoracotomy approach. The valve anatomy can be clearly visualized better than in open heart surgery as the plane of the mitral valve lies straight to surgeons eyes while approaching laterally



Mitral valve facing the surgeon

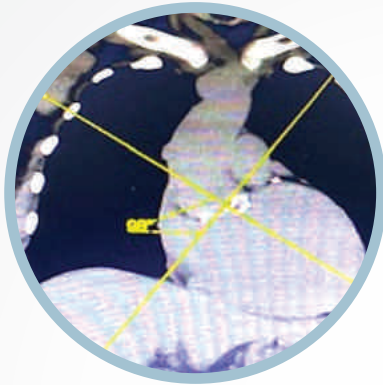


2 inch submammary incision

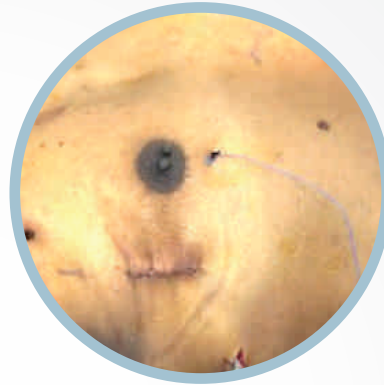


Aortic Valve replacement

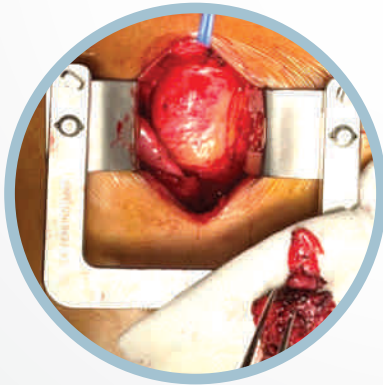
The aortic valve can be approached through various approaches like Mini J sternotomy, Right anterior thoracotomy (RATS), Transaxillary approach (TAX). The correct way to approach an aortic valve via MICS can be judged by certain CT scan criteria and the built of the patient



CT scan evaluation



Transaxillary approach
end result (1 inch scar)



Mini sternotomy (for AVR , mini Bentall , Thymomas)





Standing : Left to Right : 1. Dr. B. Paranthaman Sethupathi, 2. Dr. Varun Marimuthu, 3. Dr. M. Sivabalan, 4. Dr. R. Chandramohan

Sitting : Left to Right : 1. Dr. R. Chandramohan, 2. Dr. K. Chockalingam, 3. Dr. M. Sivabalan

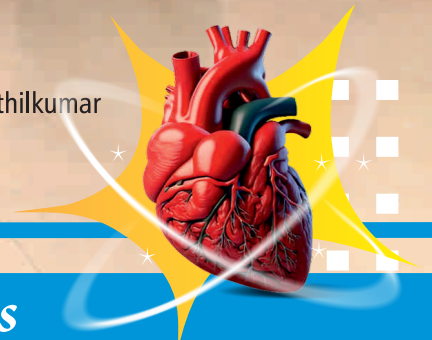




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1. Dr. Praveen Prabhu, 2. Dr. Pradeep.G, 3. Dr. Kirubanand.S, 4. Dr. Karthik Kumaran, 5. Dr. K.T. Manisenthilkumar, 6. Dr. K. Madeswaran, 7. Dr. S. Krishna Kishor, 8. Dr. Abraham Gerald Henry.



Royal Care Experts

Why ROYAL CARE ?

- ✔ Has 24x7 critical cardiac care unit which is highly equipped with world class infrastructure
- ✔ Experienced team of cardiologist and cardiac surgeons round the clock
- ✔ Exclusive team for heart failure management , Heart transplant and ECMO services
- ✔ Advanced cardiac interventions and surgeries
- ✔ First hospital in the country to introduce PLASMA SHIELD Technology for infection control



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