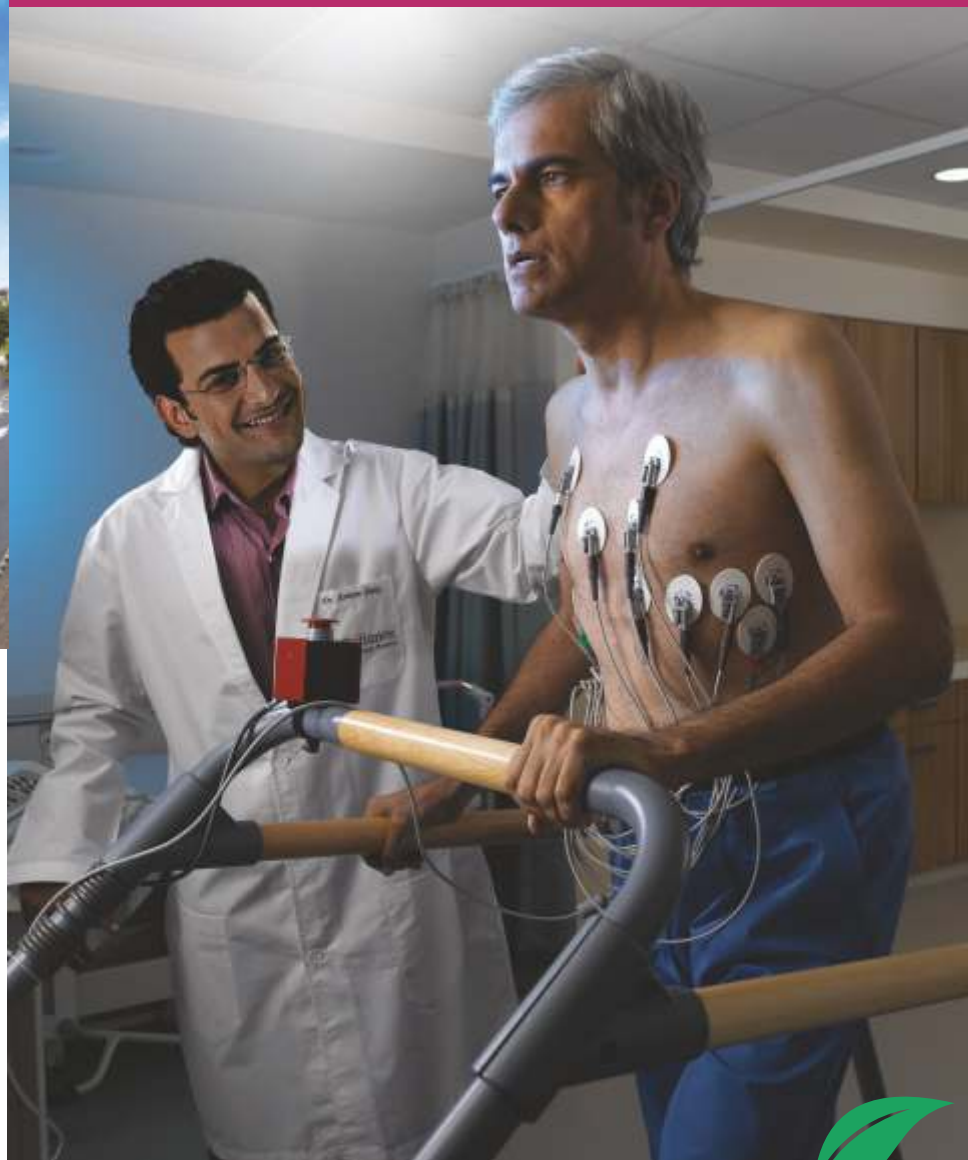




# CARDIAC SCIENCES



RESPECT FOR LIFE

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Respect *for* Life  
सम्मान जिंदगी का



At Sir H. N. Reliance Foundation Hospital and Research Centre, we believe in teamwork and collaboration. As clinical problems are becoming increasingly complex, we recognise the increasing necessity of strong collaborations to manage them. Through advances in technology and capabilities of our specialists, we are able to provide pertinent solutions to our patients.

Our Heart Team harnesses the power of collaboration in clinical, research and educational activities, thereby aligning our goals with patients' needs. The collaboration of cardiology and cardiac surgery provides hybrid solutions, which are tailor-made to suit our patients' requirements.

Indeed, at Sir H. N. Reliance Foundation Hospital and Research Centre, we don't just treat the body, we go further: we respect life.

CARDIAC SCIENCES: Level 1, Tower, 8 am - 8 pm

## CARDIOLOGY

Our Cardiology department offers specialised and cutting edge treatments for heart diseases. We are experienced in General as well as Interventional Cardiology. Our cardiologists are nationally and internationally accredited in Europe and the USA. They have considerable expertise in advanced diagnostic techniques and the use of the latest devices to treat basic and complex heart diseases.



## TECHNOLOGY & INFRASTRUCTURE

- 1 Our dedicated Out-Patient Department (OPD) cluster has comprehensive cardiac diagnostic facilities on the same floor for better patient experience.
- 2 We offer state-of-the-art services for acute myocardial infarction. We have a highly skilled and well equipped emergency department that provides timely and high quality treatment 24x7.
- 3 The seamless integration of HIS (Hospital Information Systems) and the PACS (Picture Archiving and Communication System) allows physicians to monitor reports in real time.
- 4 Cutting-edge technology and equipment:
  - a. We have the latest versions of equipment that provide ECG, echocardiogram, Holter monitoring and treadmill tests.
  - b. Our Catheterisation Laboratory (Cath Lab) is fully equipped for advanced diagnostics and therapeutic treatment in cardiac patients.
  - c. We have technologies such as FFR (Fractional Flow Reserve) and IVUS (Intravascular Ultrasound) to precisely tailor our treatments to our patients. This allows the optimum use of stents and reduces unnecessary stent implantation. It also enables accurate sizing and measurement of the narrowed coronary artery to get optimal results.
  - d. Rotablation (a device used to negotiate hard, calcified arteries) is available to successfully treat complex and difficult coronary artery disease.

All these facilities are available under one roof and help reduce delays in providing timely and appropriate treatment.

## SERVICES

### GENERAL CARDIOLOGY

- Trans-thoracic echocardiogram
- Trans-esophageal echocardiogram
- Intra-Aortic Balloon Pump (IABP) insertion
- Pericardiocentesis

- Treadmill test
- Dobutamine Stress Echocardiogram
- Holter monitoring
- Cardioversions

### INTERVENTIONAL CARDIOLOGY

- Coronary angiogram
- Coronary angioplasty - basic and complex
- Coronary rotablation
- Coronary Intravascular Ultrasound (IVUS)
- Coronary Fractional Flow Reserve measurement (FFR)
- Single and dual chamber pacemaker implantation
- Electrophysiology studies



## HYBRID CATH LAB

Our Hybrid Catheterization Laboratory (Hybrid Cath Lab) is the first of its kind in India with advanced 3D imaging tools, which significantly enhance planning and guidance during cardiovascular procedures.

In the era of minimally invasive techniques, the hybrid cath lab provides a paradigm shift in the management of cardiovascular conditions.

The hybrid strategy offers a combination of treatments traditionally available only in the cath lab with those traditionally available only in the operating room. Patients are offered the best available therapies for any given set of cardiovascular lesions.

Few of these services include:

- Hybrid coronary revascularization combining Coronary Artery Bypass Graft (CABG) with Percutaneous Coronary Intervention (PCI)
- Minimally invasive valve surgery combined with PCI
- Trans Arterial Valve Replacement (TAVR)
- Aortic Arch and Thoracic-abdominal aortic aneurysms requiring combined open surgical and endovascular techniques
- Peripheral Arterial interventions





# CARDIAC SURGERY

Our Cardiac Surgery department offers advanced surgical treatment to patients with heart disease. A dedicated team of cardiac surgeons, anaesthetists, nurses and other experts are available 24x7. We deliver care of the highest international standards. Our service is underpinned by internationally-accredited surgeons with substantial experience in Europe and the USA.

- 1 The hospital has fully integrated operating rooms with state-of-the-art cardiopulmonary bypass machines with cell savers and advanced cardiac support systems.
- 2 We have procured the most advanced da Vinci Robotic System Si IV system.
- 3 The Hybrid Catheterization Laboratory is equipped to treat, in conjunction with our cardiology team, complex heart problems such as hybrid Coronary Artery Bypass (CAB) via minimal access.



## OUR HIGHLIGHTS

- 1 **Minimal Incision/Access Cardiac Surgery**  
Using this technique, we can perform heart operations through small incisions and ensure rapid recovery and short hospital stay. OPCAB (Off-Pump Coronary Artery Bypass), valve repair and replacement are performed using these techniques. We also offer Endovascular Vein and Radial Artery Harvesting through small incisions.
- 2 **We are at the leading edge in providing services to deal with heart failure**  
We provide a comprehensive surgical treatment spectrum, which includes OPCAB, high risk CABG, Surgical Ventricular Restoration, Left Ventricular Aneurysm Repair surgeries, Mitral and Tricuspid valve repair, and surgery for Atrial Fibrillation. We also offer advanced treatment using mechanical circulatory support with fully implantable, miniaturised, electrically-powered blood pumps (VADs) and Extra-Corporeal Membrane Oxygenation (ECMO).

## SERVICES

- Coronary Artery Bypass (OPCAB, CABG, MID-CAB, EA-CAB and Robotically assisted CAB)
- Redo Coronary Artery Bypass surgery (Redo CABG)
- Valvular replacement and repair
- Surgical repair of aortic root/ascending aortic/arch and descending aortic aneurysms
- Acute aortic dissection repair
- Abdominal aortic surgery
- Carotid Endarterectomy
- Heart failure surgeries including surgical ventricular restoration, mitral and tricuspid repair
- Mechanical circulatory support
- Surgery for atrial fibrillation (isolated and concomitant surgical treatment)
- Minimal access cardiac surgery
- Pulmonary Thromboendarterectomy (PTE) surgery