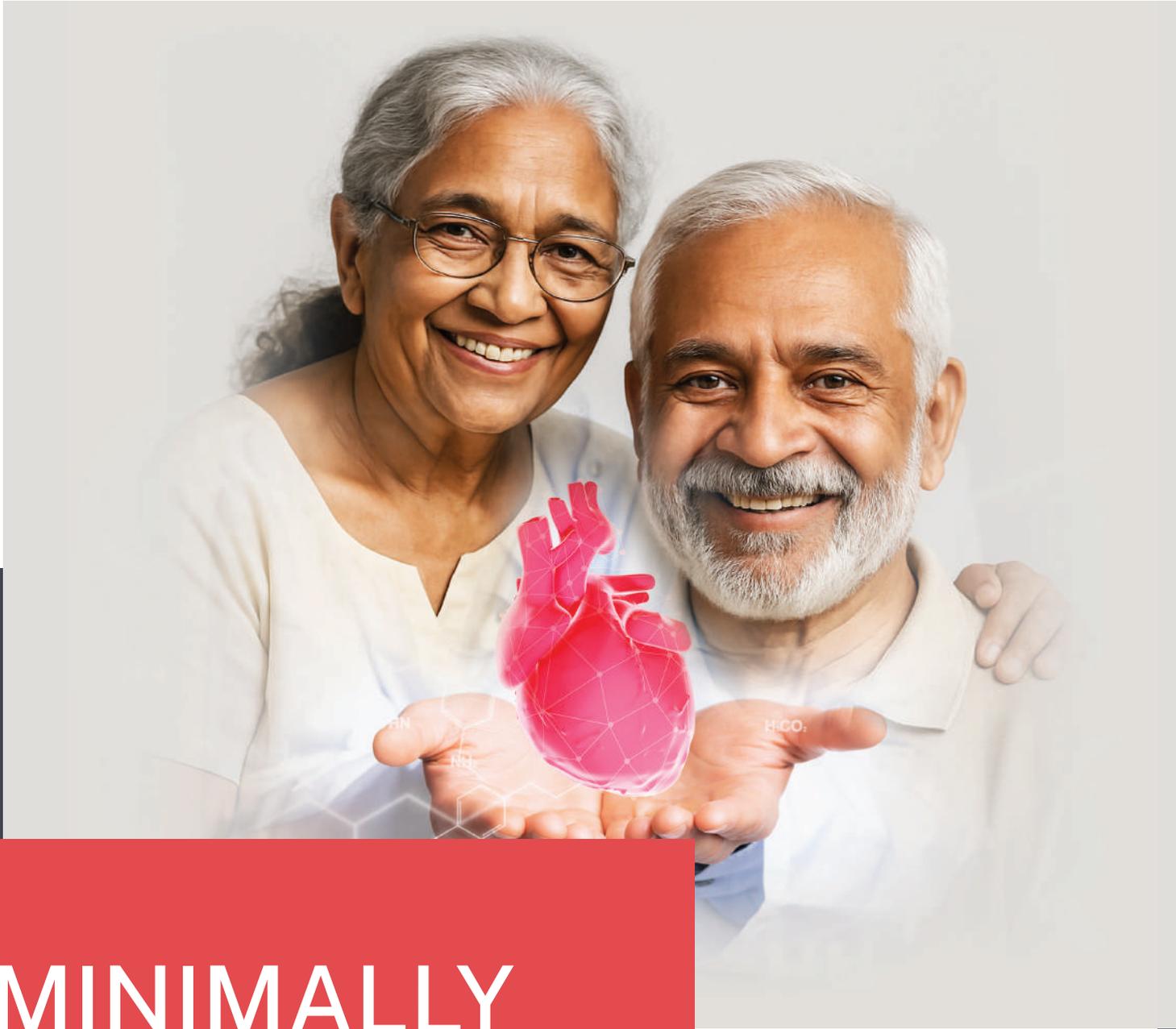


The Beat Bulletin



CK Birla Hospitals
BM BIRLA HEART HOSPITAL



MINIMALLY INVASIVE **CARDIAC SURGERY**

**Advanced Care
for Faster
Recovery:
Safe, Precise &
Restorative**

Celebrating 300+ MICS victories.

Thanks to our extraordinary surgery team!

This milestone is a tribute to the skill, commitment and excellence of our doctors and surgical team at CK Birla Hospitals, BMB.



Minimally Invasive Cardiac Surgery (MICS)

Traditional cardiac surgery requires cutting through the breastbone (sternum), which can cause pain and slower recovery.

MICS eliminates this need, ensuring less trauma and a faster return to normal life.



What are the cardiac conditions treated best with MICS?

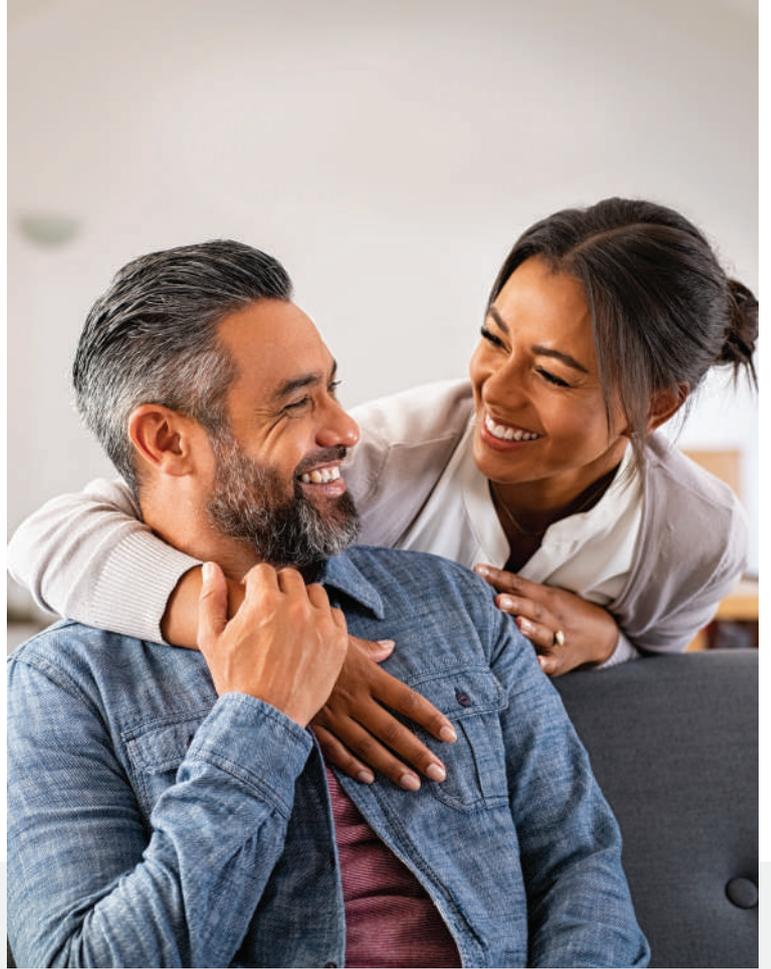
Valve repairs, replacements and congenital heart defects are best treated using MICS

- » Coronary Artery Bypass Grafting
- » Aortic Valve Replacement
- » Mitral Valve Replacement
- » Tricuspid Valve Repair/Replacement
- » Atrial Septal Defect (ASD) Closure
- » Thoracic Aortic Aneurysm repair
- » Treatment of Pericardial Effusion or Constrictive Pericarditis
- » Epicardial lead implant
- » Thymectomy

MICS offers significant advantages for patients requiring these treatments. However, the suitability of MICS varies based on each patient's health profile and the nature of the

DID YOU KNOW?

Traditional open-heart surgery requires a large incision through the breastbone which involves more trauma and a longer recovery period. MICS involves smaller incisions, minimal physical impact on the body, leading to fewer activity restrictions post-surgery.



Why do patients prefer this surgical approach?

-  **Smaller incisions:** Reduced trauma to the body, leading to less pain & scarring, better quality of life
-  **Shorter hospital stay:** Patients often recover faster and can leave the hospital sooner
-  **Reduced blood loss:** Minimally invasive surgery means less blood loss and fewer transfusion-related risks
-  **Lower risk of infection:** Smaller incisions mean a lower chance of post-operative infections, overall quicker rehabilitation



Patients undergoing MICS can resume their normal life within 7 days

-Dr Ratan Kumar Das & Dr Debabrata Biswas, MICS surgeons, BMB Heart Hospital

Post-operative advantages

- › **Less pain:** Due to smaller incisions and less muscle and tissue disruption
- › **Faster recovery:** Patients generally have a quicker return to normal daily activities
- › **Cosmetic benefits:** Smaller scars are less noticeable and heal faster
- › **Lower risk of complications:** Reduced chances of wound infections and complications associated with large surgical wounds

Success and mortality rates

- › **Success rate:** The success rates for MICS are comparable to traditional surgery, with high rates of successful outcomes for suitable patients
- › **Mortality rate:** Mortality rates for MICS are reduced to 1% in comparison with traditional open-heart surgery, owing to the reduced physical stress and lower complication rates

Which patients meet the clinical criteria for MICS?

- › Patients having comorbidities are the best candidates for MICS
- › Patients needing valve repairs or replacements, atrial septal defect closures, and certain congenital cardiac problems

In recent days MICS is the best way of doing cardiac surgery as it improves the quality of life post surgery



Reach out to our cardiac specialists to know if you can opt for this procedure at the CK Birla Hospitals, BMB, Kolkata