

Robotic-assisted *Heart Surgery*

Minimally invasive heart surgery avoids the need for a sternectomy. The da Vinci® Robotic Surgical System takes the minimally invasive approach one step further by giving the surgeon improved magnification, precise robotic movements and a three-dimensional view of the surgical site. The result is unmatched precision for performing a variety of cardiac procedures.

The da Vinci Surgical System is composed of four components: a surgeon console, a computerized control system, two instrument “arms” and a camera. Once the surgical instruments (attached to the robotic arms) and camera are placed in the patient, the surgeon can view a 3-D image of the surgical site. At the console, the surgeon uses the robot’s arms to control the movement and placement of the surgical instruments.

The following robotic-assisted cardiac surgeries are performed at Froedtert & The Medical College of Wisconsin:

- Mitral valve repair and replacement
- Coronary artery bypass graft
- Surgical treatment of atrial fibrillation
- Re-operative surgery and other procedures
- Atrial septal defect repair
- Patent foramen ovale repair
- Combined mitral and tricuspid valve surgery
- Removal of tumors in the heart
- Placement of pacemaker leads
- Aortic valve replacement

The benefits of robotic-assisted cardiac surgery include smaller incisions and less scarring, less pain, minimal blood loss, reduced risk for infection, shorter hospital stays and quicker recoveries. Patients undergoing minimally invasive/robotic-assisted surgery experience the same success rates as with traditional heart surgery.

Cardiac Surgeon

Saqib Masroor, MD, MHS, FACC

Medical College of Wisconsin Cardiac Surgeon

The only fellowship-trained cardiac surgeon in minimally invasive and robotic heart surgery in Wisconsin

We Work with You

Our physicians and staff work closely with referring physicians to coordinate treatment and follow-up care. The Cardiac Surgery team provides an initial evaluation report after the patient’s first visit and subsequent progress reports.



Contact Information

To refer a patient for robotic-assisted cardiac surgery at

Froedtert & The Medical College of Wisconsin, please call 414-805-3666 or 800-272-3666. To transfer a patient to Froedtert & The Medical College of Wisconsin or to consult with one of our physicians, please call 414-805-4700 or 800-804-4700.