



First *of its* Kind

Inova Heart and Vascular Institute unveils innovative hybrid operating room

“Hospitals today require operating rooms that are flexible and easily adaptable. Our cutting-edge hybrid OR represents the first of its kind.”

**PATRICIA A. KNOWLES,
BSN, RN, MS, CNOR**
Administrator, Inova Heart
and Vascular Institute

Inova Heart and Vascular Institute has unveiled a uniquely designed cardiovascular operating room (OR) that will allow cardiac surgeons, electrophysiologists and cardiologists to operate together on the same patient. The innovative hybrid OR reduces surgical time and allows patients to recover faster, with less risk of complications.

In collaboration with Philips Healthcare and MAQUET, Inova Heart and Vascular Institute’s hybrid OR features Philips cardiovascular X-ray systems and MAQUET’s “Magnus” surgical table, all in a single work environment.

“We are most pleased to be able to offer to our patients the newest and most sophisticated cardiac interventional facility in the region, if not in the country. Different cardiac interventional procedures, previously performed in three separate areas in the Inova Heart and Vascular Institute, will now be consolidated in one specialized ‘hybrid’ suite,” says Alan M. Speir, MD, Medical Director, Cardiac Surgical Services, Inova Health System.



Alan Speir, MD, Medical Director, Cardiac Surgical Services; Niv Ad, MD, Director, Cardiac Surgery Research/Chief, Cardiac Surgery/Professor of Surgery VCU; Bryan Raybuck, MD, Medical Director, Catheterization Laboratories; and Harvey Sherber, MD, Medical Director, IHVI, stand in the new cardiac hybrid operating room.

The room will be used for procedures combining the expertise of cardiovascular surgeons, interventional cardiologists and electrophysiologists in the treatment of cardiac rhythm abnormalities, aortic valve replacement without use of the heart-lung machine, and treatment for coronary artery blockages combining minimally invasive surgical techniques and catheter-based stenting. “Many of these procedures hold the promise of less invasive treatment, decreased risk and a shorter hospital stay,” says Harvey Sherber, MD, Medical Director of the Inova Heart and Vascular Institute.

The OR is equipped with a Philips 3D Heart Navigator tool, which combines 3D CT images of a patient’s heart before a procedure into a single image that can then be overlaid with a live X-ray. By combining static 3D images with the live 2D images, Inova physicians will get a much clearer view of a patient’s anatomy, helping them to achieve the best clinical outcome. The new OR table system features a carbon-fibre tabletop, which allows for optimum X-ray images during interventional procedures and minimally invasive operations. In addition, the flexibility of the OR table system allows anatomically correct positioning.

This unique patient-focused environment will directly benefit patients by having multiple clinicians in the same room collaborating on the patient’s care. “Through the use of this exciting technology, which includes a bi-plane X-ray system, clinicians can devise and deliver a plan of care that best meets the needs of the patient,” says Niv Ad, MD, Chief, Cardiac Surgery, and Director, Cardiac Surgery Research, Inova Heart and Vascular Institute.

“Hospitals today require operating rooms that are flexible and easily adaptable. Our cutting-edge hybrid OR represents the first of its kind,” says Patricia A. Knowles, BSN, RN, MS, CNOR, Administrator, Inova Heart and Vascular Institute. “At Inova Health System, we pride ourselves on investing in leading technology that benefits the patients we serve.”

TOUR

Visit inova.org/heart to see a virtual tour of our new hybrid operating room!

