

New standard of care possible for percutaneous coronary interventions (PCIs)?

The *CorPath*™ Vascular Robotics System is the world's first platform that allows physicians to remotely and precisely steer coronary guidewires and stent/balloon catheters during angioplasties...

"The use of the remote navigation system (i.e., *CorPath*™) for guidewire, balloon, and stent manipulation during PCI appears safe and feasible for the treatment of patients with coronary stenosis. The (*CorPath*™) system offers operator radiation safety and may enhance precision of stent placement and balloon dilation strategies ... (*CorPath*™) performs the entire PCI using standard devices. The potential advantages of a remote catheterization system can be summarized as: (1) reduced operator radiation exposure and spine problems; (2) provision of an ergonomically effective working environment; (3) enhanced precision of balloon and stent positioning, which may translate to clinical benefits; (4) ...inclusion of semiautomatic, robotically controlled functions; (5) and minimizing operator-based errors." (Rafael Beyar, MD, DSc et al., "Remote-Control Percutaneous Coronary Interventions: Concept, Validation, and First-in-Humans Pilot Clinical Trial," *Journal of the American College of Cardiology*).

The *CorPath*™ system consists of a robotic drive and single-use cassette located at the patient's bedside. A radiation-protected physician control console located in the interventional cockpit allows the physician to steer the PCI devices in the cassette using touch-screen and joystick controls.

What the experts are saying about *CorPath*™...



Mark Reisman, MD

Director, Cardiac Catheterization Lab
Swedish Heart & Vascular Institute, Seattle
"CorPath is designed to enhance a cardiologist's overall focus – by creating a 'cockpit' environment for visualization of angiography and hemodynamics, and manipulation at a distance of interventional systems."



Joseph P. Carrozza, Jr., MD

Chief of Cardiovascular Medicine
St. Elizabeth's Medical Center, Boston
"Controlling the procedure from the shielded CorPath cockpit protects operators and staff from repeated x-ray exposure as well as the stress and fatigue of standing in lead all day."



Giora Weisz, MD

Director of Research, Center for Interventional Vascular Therapy, New York-Presbyterian Hospital/Columbia University Medical Center
"CorPath offers easy navigation and precise positioning for PCI. It is a novel system that can help eliminate operator errors and standardize the procedure."



Jeffery J. Popma, MD

Dir., Innovations in Interventional Cardiology,
Beth Israel Deaconess Medical Center, Boston
"There is little doubt successful integration of robotics and multi-modality imaging will enhance the precision of structural heart procedures, reduce radiation exposure for both patient and operator, and improve overall outcomes for these complex procedures."

The *CorPath*™ Vascular Robotics System

