

**NEWS RELEASE CONTACT:**

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**For Immediate Release**

**Introducing the Hearts in Hand™ Collection at TCT**  
***Physical Heart Models to Aid Physicians in Planning for Safer and Faster***  
***Structural Heart Disease Interventions***

DENVER, September 14, 2009 – The Hearts in Hand Collection, a library of physical heart models in a variety of structural disease states, will allow physicians to gain a quick and thorough understanding of spatial relationships and practice catheter pathways and device sizing prior to conducting minimally invasive interventions.

The Hearts in Hand Collection was conceptualized by John Carroll, MD, Medical Director for Medical Simulation Corporation (“MSC”) and Director of Interventional Cardiology and Director, Cardiac and Vascular Center at University of Colorado Denver. “Cardiologists use a variety of medical images today to plan procedures. Physical models translate these images into a format more inherently useful to the procedure planning process, and are also highly valuable to physicians training to perform new procedures,” says Dr. Carroll. “Medical images are no longer constrained to being ‘virtual.’”

New to TCT this year will be 3-D interactive graphics of structural heart diseases that facilitate the understanding of interventional anatomy and the use of intracardiac ultrasound image guidance. Developed by Adam Hansgen of the 3-D Lab at the University of Colorado Denver, the interactive graphics allow the user to manipulate 3-D hearts derived from MSCT scans in patients with structural heart diseases and complements the physical models in the Hearts in Hand Collection.

New advances in technology are allowing physicians to increasingly use interventional rather than surgical means to treat structural heart disease (SHD). Minimally-invasive interventions, such as percutaneous closure of intracardiac defects, valve repair and replacement and myocardial disease treatments, translate to faster patient recovery and less pain for the patient. The collection of physical heart models will be an invaluable resource for educational and research institutions, the medical device industry and regulatory agencies.

The team from the University of Colorado Denver’s 3-D Lab will be providing education on treatment of heart disease in the Education Pavilion at the TCT, September 23-25, 2009, in San Francisco, California. TCT attendees will have the opportunity to learn about the benefits of using physical heart models in conjunction with other education modalities.

The Hearts in Hand Collection and the accompanying 3-D interactive graphics provide physicians and their teams with hands-on training tools to help them plan for safer and more efficient SHD interventions. These tools can aid in patient selection, delivery system device and anatomy matching, and catheter pathway practice.

For more information about the Hearts in Hand Collection or to place an order, please visit Medical Simulation Corporation at [www.medsimulation.com](http://www.medsimulation.com).

**About Dr. John Carroll**

Dr. Carroll is a full professor of medicine at the University of Colorado and director of interventional cardiology and the cardiac catheterization laboratories at University of Colorado Hospital in Denver. He has 24 years of extensive clinical experience with board certification in internal medicine, cardiovascular and interventional cardiology. He has over 12 years experience directing hospital-based programs in invasive cardiology in Denver as well as the University of Chicago Hospital. Dr. Carroll is also an accomplished medical investigator having achieved academic tenure at both the University of Chicago and University of Colorado with several hundred medical publications, numerous national peer-reviewed research grants, and is a member of several international editorial boards.

**About Medical Simulation Corporation**

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