

# Medical Breakthroughs

## Innovative Computed Tomography Systems Help Improve Diagnosis

(NAPSA)—Getting the medical care you need may happen faster—and more accurately—thanks to new innovations in medical imaging. Computed Tomography (CT) changed medicine forever when it was introduced in the 1970s and is considered by many to be the greatest innovation in medical imaging since the discovery of the X-ray.

Already an indispensable part of routine work in clinics, hospitals and medical practices, the latest advances in CT have broken new ground in medical diagnosis and treatment planning. Taking a quantum leap from the “single slice” scan of the 1970s, Siemens Medical Solutions’ SOMATOM Sensation 64™ CT system is capable of 64 images in a single gantry rotation, allowing doctors to pinpoint signs of disease earlier and provide better treatment options.

“Not only can we conduct exams in a shorter period of time but we are able to obtain significantly more diagnostic information than with previous systems,” said Dr. Joel Fletcher, M.D., assistant professor of radiology at Mayo Clinic in Rochester, Minn. “Because of the vastly improved spatial resolution and speed, we can image smaller structures and dynamic processes not measured before. We are able to get to the heart of the medical matter quickly, effectively and in a noninvasive and painless procedure for the patient.”

The United States’ first 64-slice scanner by Siemens was installed as the focal technology of the Mayo Clinic’s new CT Clinical Innovation Center, which seeks to advance patient care in emergency, trauma, cardiovascular and neurological



**New CT technology can get to the heart of the matter in less than 10 seconds.**

*Photography Courtesy of Siemens Medical Solutions*

applications. With the world’s fastest gantry rotation speed of .33 seconds, this new CT system offers great advantages in treating patients who, because of their illness, are unable to lie still or hold their breath for extended times. Advanced cardiac imaging could help save nearly 500,000 lives a year through early detection of cardiovascular disease—one of the leading killers in America.

“Imaging of this quality, sharpness and speed gives us the opportunity to study the human anatomy at a level that has only been dreamt about,” said Prof. Dr. Bautz, Institute of Diagnostic Radiology, the Friedrich-Alexander University Erlangen-Nuremberg, where the world’s first 64-slice images were generated.

The 64-slice CT imaging technology from Siemens sets a new benchmark for medical imaging excellence, allowing doctors and clinicians to see the finest details in the human anatomy. This capability alone gives medical professionals the opportunity to save more lives than ever before.