Siemens Healthcare introduces molecular CT, a new concept in integrated imaging that provides a premium imaging platform, and is a practical solution for today’s shrinking healthcare budget. This new technology, Biograph mCT, represents the evolution of integration in imaging – a CT with molecular capabilities, a PET scanner with unlimited capabilities in CT, and a high performance integrated imager that can be used to achieve true collaboration and cooperation between diagnostic imaging specialties.

“As the inventor of positron emission tomography-computed tomography (PET-CT), Siemens wants to lead the evolution of hybrid imaging to maximize innovations and make them available where they will have the most impact,” said Dr Bernd Montag, CEO, Siemens Healthcare, Imaging and IT Division, Erlangen, Germany.

Biograph mCT is the ideal solution for an integrated imaging environment. It was designed to obtain functional, anatomical and molecular information from one, noninvasive diagnostic exam, and adapts to virtually any patient and any clinical need with higher resolution, contrast and speed. The clinician has the option of using the industry’s highest resolution CT in conjunction with the high-definition PET technology or as a standalone CT. Depending on the case, molecular contrast can be used for additional metabolic information. Biograph mCT is the only imaging device to offer whole-body PET-CT scanning in just five minutes – a revolutionary feature that optimizes flexibility and efficiency.

From an investment standpoint, using one, all-encompassing scanner is a highly efficient means of making the most of an institution’s imaging equipment and strengthening the existing workflows between radiology and molecular imaging.

“Biograph mCT is the quintessential definition of efficiency; one team, one room, one machine, and one comfortable patient,” said Dr Montag. “It offers the potential of diagnosing disease earlier and more effective management of disease at reduced costs. Speaking directly to the bottom line, with Biograph mCT, an institution may only need to purchase one imager instead of two, representing a huge cost-savings.
potential in a time when healthcare budgets are tight.”

The consolidation of equipment, staff and scan times can enable major cost savings, return on investment and excellence in patient care, as well as patient and staff satisfaction when innovation and integration work in tandem.

With a small footprint, large bore, a short tunnel and an extra-wide, 500-pound-capacity bed (227 kg), Biograph mCT is designed to accommodate all kinds of patients – including pediatric, bariatric, and geriatric – comfortably and easily. The ability to complete studies in less time can reduce patients’ anxiety. Biograph mCT’s large 78 cm bore can also help to alleviate patients’ sense of claustrophobia and allows better positioning of RTP devices, such as breast boards, and makes scanning of obese patients easier.

Biograph mCT adapts to virtually all patient types and clinical needs. Its unmatched isotropic resolution in CT, combined with its industry-best rotation time, brings out the finest anatomical details in every scan – routine and advanced – limiting motion artifacts. It is available in detector configurations of 40-, 64-, and 128-slices, a first in integrated scanners. Biograph mCT’s powerful HD-PET technology delivers highly detailed images with up to four times as much contrast. In fact, it is the world’s only PET technology that offers 2 mm uniform resolution throughout the field of view (FOV).

Biograph mCT also addresses two of the foremost concerns related to scanning: scan time and radiation dose. With its ultra-low dose capability and super-fast PET acquisition time, scanning can be less stressful for the clinician and the patient.

About Siemens Healthcare
The Siemens Healthcare Sector is one of the world’s largest medical solutions provider with core competence and innovative strength in diagnostic and therapeutic technologies as well as in knowledge engineering, including information technology and system integration. Siemens Healthcare delivers solutions across the entire continuum of care – from prevention and early detection, to diagnosis, therapy and care. Additionally, Siemens Healthcare is the global market leader in innovative hearing instruments. The company employs more than 49,000 people worldwide and operates in 130 countries.

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