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SOMATOM Emotion 6 at the ECR with New Tube Technology and Expanded Clinical Application Software

With more than 260 systems sold since the start of production in June 2003, SOMATOM Emotion 6 is one of the most successful computed tomography systems in the world. At the European Congress of Radiology (ECR) in Vienna, Siemens Medical Solutions introduces new clinical application software – syngo LungCARE CT, CARE Dose4D, and CARE Vision – as well as a new Dura 422 X-ray tube for this successful

system.

With the Dura 422 X-ray tube, Siemens Medical Solutions uses for the first time an optimized liquid bearing x-ray tube in a CT scanner. The technology is based on the longtime positive experience Siemens Medical Solutions has made with liquid bearing x-ray tubes in angiography and cardiac imaging. The liquid bearing technology of Dura 422 enables excellent heat dissipation resulting in high cooling rates. At the same time, the X-ray tube is small enough to fit into the slim, patient-friendly gantry of the SOMATOM Emotion 6. Additionally, the reliability and longevity of Dura 422 add to the cost-efficiency of the system.

The software expanded by syngo LungCARE CT, CARE Dose4D und CARE Vision enlarges the clinical application spectrum of the SOMATOM Emotion 6. syngo LungCARE CT Nodule Enhanced Viewing (NEV) is the first software approved in the US for detecting pulmonary nodules using Computed Tomography examinations. This software is now also available for use with SOMATOM Emotion scanners. syngo LungCARE CT supports physicians in the display, evaluation, and follow-up examination of pulmonary nodules, a possible prestage to lung cancer. Using data from a high-resolution, low-dose Computed Tomography (CT) examination of the thorax, detailed axial and three-dimensional images of the lungs are generated. Using these images, physicians can clearly detect even the smallest pulmonary nodule. Using specialized algorithms, Nodule Enhanced Viewing enables for the first time computer-supported identification of these nodules, making detection much easier for physicians.

Additionally, Siemens Medical Solutions has expanded CARE (Combined Applications to Reduce Exposure) – the Siemens initiative to reduce radiation exposure in CT examinations. CARE Dose4D, originally a part of Speed4D Technology for SOMATOM Sensation scanners, is now available for the SOMATOM Emotion 6 as well. The software individually adjusts the emitted X-ray dose to the cross-section of the patient without the need for user intervention or additional topograms. This greatly simplifies scanning procedures and results in optimal image quality at the lowest possible dose involving large volume examinations or pediatric exams. The first clinical experiences with CARE Dose4D demonstrate dose savings of up to 66 percent for an average adult patient.

And last but not least, Siemens Medical Solutions introduces a new version of CARE Vision. This software automatically reduces dose for physician and patient in CT-guided interventions such as drainages, biopsies, or pain therapy. With its compact gantry (24 cm from the front of the gantry to the scan plane), the SOMATOM Emotion 6 provides easy access to the patient and is therefore frequently used in interventional CT. HandCARE, a component of CARE Vision, automatically switches off the X-ray beam at three different positions (at 10 o'clock, 12 o'clock and 2 o'clock high) and at a 100 degree angle. Previously, only two positions were possible. As a result, HandCARE prevents direct exposure to the surgeon's hand, while still delivering optimal image quality. Additionally, CARE View now displays three slice positions simultaneously for the physician, enabling a more precise positioning of interventional instruments. The SOMATOM Emotion 6 is intended for use in various

medical departments, such as radiology, ER, and radiation oncology, as well as for imaging centers and joint private practices. This cost-effective system was developed especially for use with limited budgets or space allocations, making it highly suitable for performance-oriented CT scanners applied in daily routine examinations.

The SOMATOM Emotion 6 works with the Siemens user interface syngo, the intuitive software platform for all imaging modalities and systems. syngo provides for common as well as automatic operating processes across widely different systems, for example, magnetic resonance and computed tomography systems.

All attempts have been made to ensure accurate data. Medical Imaging Resources, Inc. assumes no responsibility for any unintentional errors or omissions.