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FDA approves MAGNETOM Vida 3T MRI scanner that features new BioMatrix technology

June 16, 2017

The Food and Drug Administration (FDA) has cleared the MAGNETOM Vida 3 Tesla (3T) magnetic resonance imaging (MRI) scanner from Siemens Healthineers, which features new BioMatrix technology that addresses inherent anatomical and physiological differences among patients, as well as user variability. By reducing this variability among patients and users, the scanner's BioMatrix technology can lower the number of rescans and increase productivity to improve MRI's cost efficiency. With systems such as the MAGNETOM Vida, as well as a new name that underlines its pioneering spirit and engineering expertise, Siemens Healthineers - the separately managed healthcare business of Siemens AG - helps healthcare providers worldwide meet current challenges and excel in their respective environments.

Reliable, reproducible data for all patients in less time

The MAGNETOM Vida with BioMatrix technology helps healthcare providers perform a full range of routine and complex examinations while delivering robust results for each patient. BioMatrix Sensors built into the scanner's new patient table automatically track respiratory patterns as soon as the patient lies on the table, providing information that can help formulate the optimal exam strategy. In addition to helping users avoid costly rescans, BioMatrix Tuners improve the quality and reproducibility of whole-spine diffusion imaging via individual slice adjustments that mitigate distortion that otherwise may occur, especially at 3T. Biomatrix Interfaces help ensure consistently high exam quality, accelerating scanning by up to 30 percent and improving patient care. The scanner's intuitive user interface permits correct one-touch positioning of the patient table based on intelligent body models. The patient table provides motorized assistance, enabling users to move patients who can be difficult to move (i.e. immobile, trauma, and extremely heavy patients) to and from the scanner.

Faster scans with high patient comfort

The new system architecture of the MAGNETOM Vida offers extremely high performance and long-term stability without the need for additional space. The scanner's 60/200 XT gradient system offers the most powerful commercially available gradients in a 70-cm bore scanner. The 55x55x50 cm field of view enables coverage of larger body regions in one step.

The GO technologies of the MAGNETOM Vida automate and simplify workflows from the start of the scan through quality control of the image data. The result is increased productivity for routine examinations of the brain, spine, and joints - from touch-of-a-button patient positioning to the transfer of clinical images to the picture archiving and communication system (PACS). The system's new user interface not only enables automated image acquisition and processing, but also allows advanced post-processing applications to run at the scanner.

The MAGNETOM Vida also includes the company's Compressed Sensing Cardiac Cine clinical application, which can accelerate MRI scans by a factor of 10 to allow free-breathing cardiac MRI examinations.

"With the MAGNETOM Vida, Siemens Healthineers proudly offers customers a 3T MRI system that provides unprecedented levels of personalization throughout the patient examination, to effectively address the unique challenges of each patient group and provide high-quality imaging to previously underserved segments of the population," said Murat Gungor, Vice President of Magnetic Resonance, Siemens Healthineers North America.

The MAGNETOM Vida offers a new generation of ultra-high-density BioMatrix coils with a patient adaptive design that enables increased accuracy, flexibility, and speed. The BioMatrix Spine coils acquire and display patient respiratory data without requiring user interaction. The BioMatrix Head and Neck coils possess CoilShim technology to ensure reproducible image quality in every patient. For orthopedic applications, the new Shoulder Shape and Tx/Rx Knee coils possess an anthropomorphic design that permits greater flexibility to accommodate large patients. And for multipurpose imaging, the UltraFlex Large and Small coils combine ultra-high coil element density and high flexibility.

In addition to its many clinical innovations, the MAGNETOM Vida consumes energy efficiently, potentially lowering the total cost of ownership over its

lifetime. The scanner's Eco-Power technology provides intelligent control of power-hungry components by deactivating them when they are inactive for long periods.

Source:

<https://www.healthcare.siemens.com/>
