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### CIRS Releases Multi-Energy CT QA Phantom *Comprehensive QA for Multi-Energy CT*

February 21, 2019 (Norfolk, VA.) The CIRS Multi-Energy CT QA (MECT) phantom is designed to assure accurate performance and consistency of Multi-Energy CT scans. The phantom facilitates evaluation of scanner performance allowing users to verify the quantitative accuracy of multi-energy scans, check for artifacts in an extended field-of-view and compare the consistency and stability across different scanners. A Quality Assurance program using appropriate phantoms, is important to ensure accuracy and reproducibility for ME CT scanner performance.

The phantom features a series of 13 iodine in water & blood equivalent inserts, six calcium in water equivalent inserts and a matching kit displaying the same CT numbers at 120 kVp on a conventional CT scanner. All inserts contain a core target of Ø 10 mm inside Plastic Water® -LR for minimizing effects of “beam hardening” and can be positioned in 17 different locations within the scan field. In addition, a water vial plug that can be filled with any fluid. Adipose, Muscle and Water equivalent inserts are also provided. Inserts from the CIRS standard Electron density Phantom (model 062M/MA) can be used for extended testing due to their tissue equivalency of +/- 1% within a wide energy range.

The phantom consists of nested disks made from CIRS Plastic Water® -LR, representing both head and abdomen configurations. Two 10 cm thick sections surround a 5 cm target section for proper scattering conditions.

“Although CIRS Electron Density phantoms can be used for CT multi-energies, Model 662 is specifically designed for Multi-Energy CT.” states Vladimir Varchena, Senior Engineer CIRS

CIRS will display the Multi-Energy CT QA Phantom at ECR 2019, hall expo X1 booth 128.

For more information about the Multi-Energy CT QA Phantom, visit [www.cirsinc.com](http://www.cirsinc.com).

#### About CIRS

CIRS, a Castleray Company, is recognized world wide for tissue simulation technology and is the leader in the manufacture of phantoms and simulators for quantitative densitometry, calibration, quality control and research in the field of medical imaging and radiotherapy. CIRS is headquartered in Norfolk, VA (USA) and distributes products worldwide.

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