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## **One giant Leap Forward**

Helical and multislice imaging built great milestones in the history of CT. Aquilion ONE™ offers the next leap forward in CT technology that will revolutionize patient care. Clinicians have long dreamed of being able to acquire isotropic volumes of an entire organ with a single rotation of the gantry. This leap is possible only with Toshiba's Aquilion ONE™.

Healthcare providers are challenged to meet the demands of a growing population, while reducing the cost of care. More than ever, the need to make an accurate, timely diagnosis is critical.

### **World's First Dynamic Volume CT Scanner**

The ability to acquire the entire organs with one volume scan opens the door to new diagnostic possibilities. The neuro ONE protocol allow acquisition of multiple low-dose volume scans of the entire brain during contrast infusion to provide whole brain perfusion and whole brain dynamic vascular analysis in one examination. Dynamic volumetric acquisition protocols can also be used to review moving joint structures in 3D, providing new clinical applications for orthopaedic imaging.

For cardiac examinations, the entire heart can be captured in as little as one rotation for coronary analysis, or over a single heartbeat to include complete

**functional diagnosis. Each reconstructed 3D volume represents exactly the same phase of the coronary arteries with homogenous contrast enhancement.**

### **Faster results, lower dose**

**The wide coverage provided by the 16 cm wide area detector enables scanning of most of the organs within one rotation, eliminating the need for helical scanning which in turns lowering the dose dramatically. An entire organ can be captured at one time, resulting in ultrafast scan times, which allows the contrast medium dose and exposure dose to be reduced.**

### **Clinical benefits**

**Apart from this dramatic dose reduction, there is another important aspect:: cardiac arrhythmia or heart rates up to 130 bpm are no longer an issue as opposed to helical an multislice CT. Online assessment of the imaged RR-interval by the software of the new CT unit ensures that image reconstruction can proceed as planned.**

**Additionally, if the patient experienced an unexpected extrasystole or if there is insufficient data of one image for artefact-free reconstruction, the scanner will automatically image one additional heartbeat in the same fashion and without any noticeable time-delay.**

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