

TOSHIBA
Leading Innovation >>>

ONE
Aquilion



TOSHIBA MEDICAL SYSTEMS CORPORATION

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ONE
Aquilion



ONE

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.

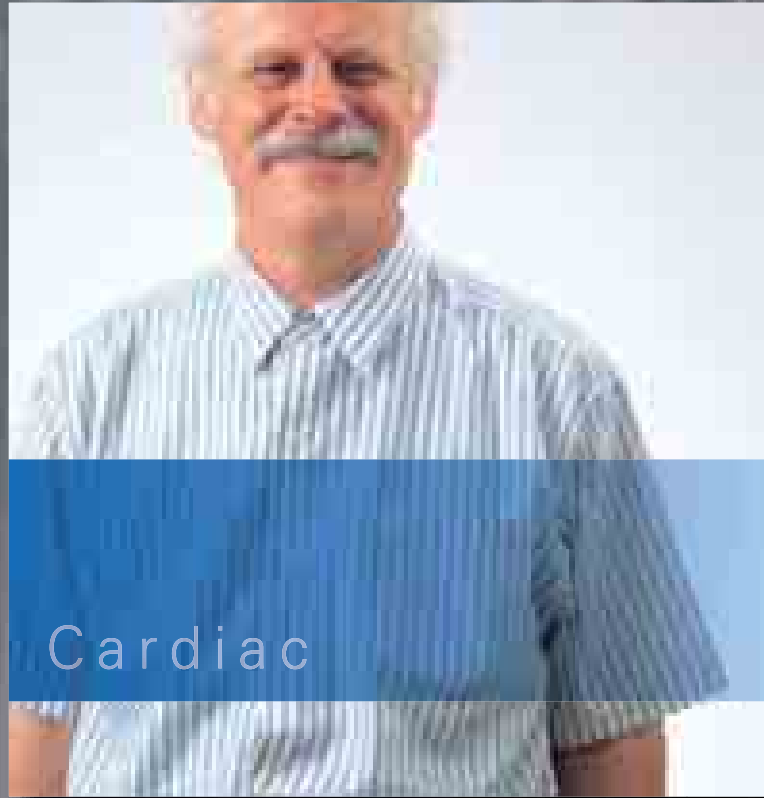


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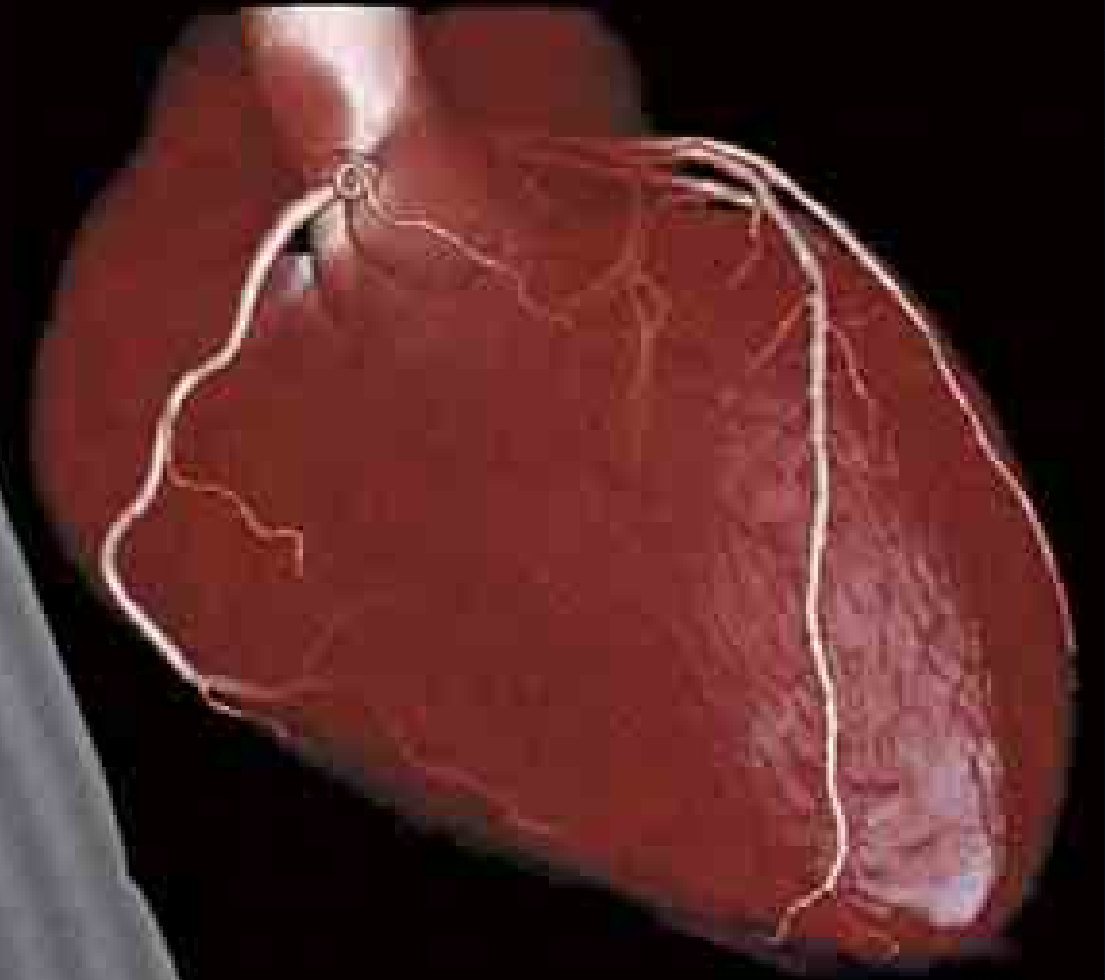
Aquilion ONE is both the latest step in the natural progression of multislice imaging and a quantum leap that will carry CT imaging into the future. Clinicians have long dreamed of being able to acquire isotropic volumes of an entire organ with a single rotation of the gantry.

This leap is possible only with Toshiba's Aquilion ONE.

Whole organ coverage in an instant

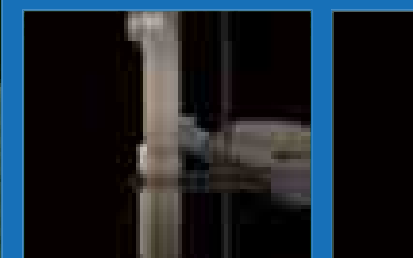
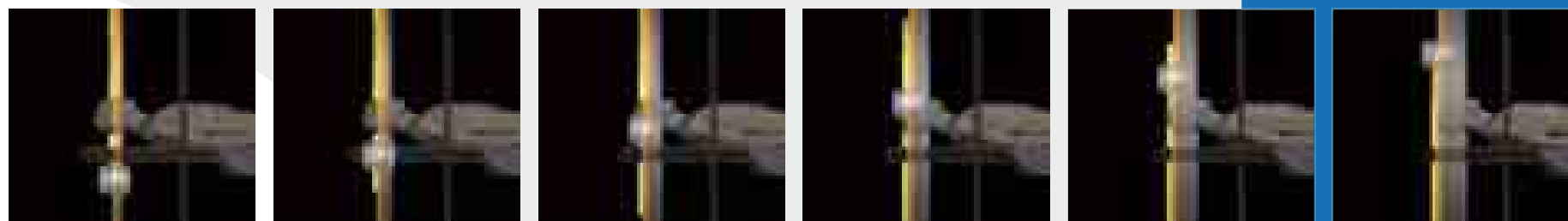
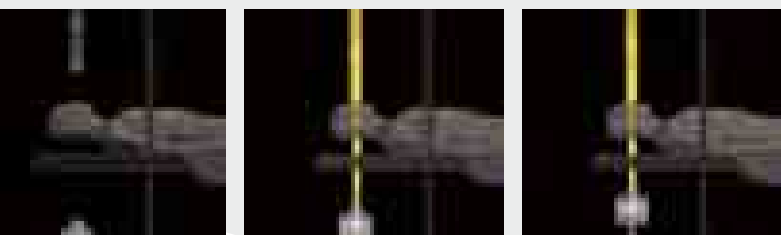


Cardiac



Area Detector Coverage





ONE Rotation

The wide coverage provided by the 160 mm-wide Area Detector enables scanning of the heart or brain within one rotation, eliminating the need for helical scanning.

An entire organ can be captured at one time, resulting in multiplanar and 3D images demonstrating perfect continuity along the Z-axis.

In addition, ultrafast scan times allow the contrast medium dose and exposure dose to be reduced.

Multislice CT

Multislice CT acquires high-definition data during continuous rotation.



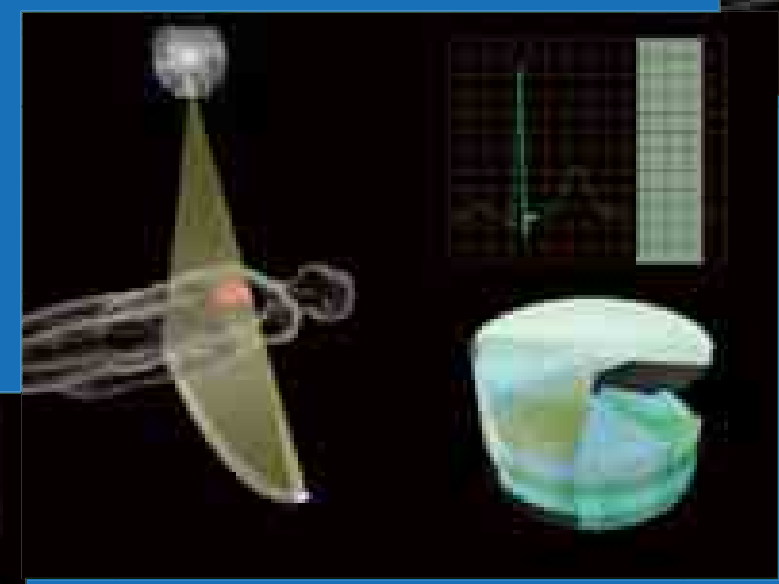
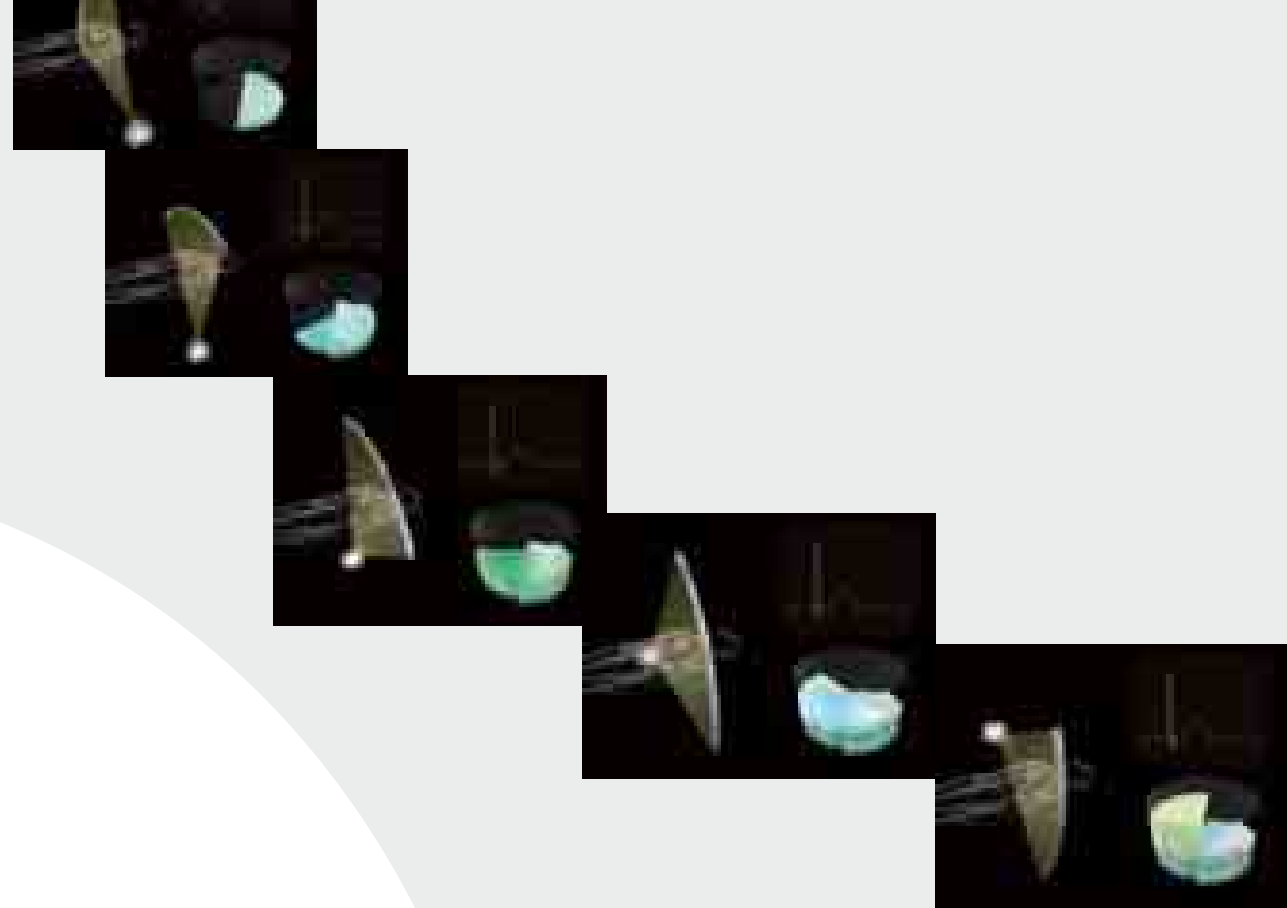
Aquilion ONE

Aquilion ONE acquires high-definition data in one rotation.

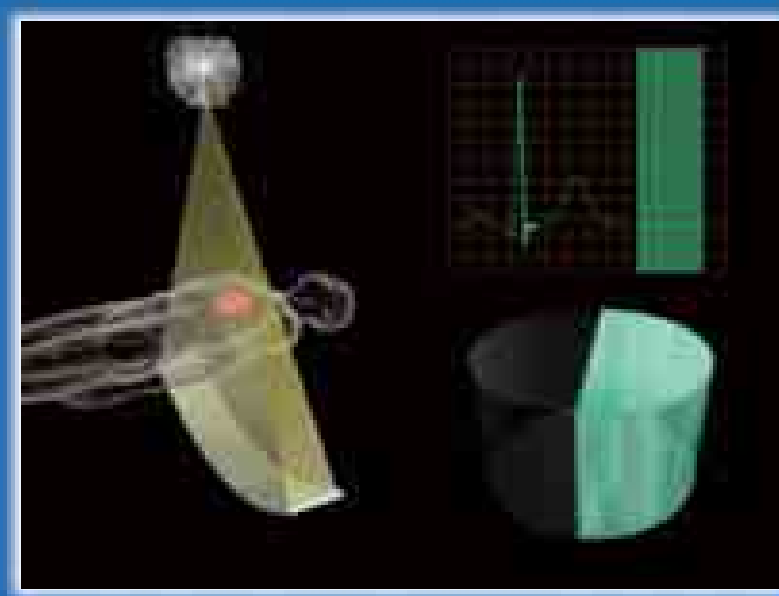
ONE Phase

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 cardiac cycle, providing incredible motion-free images of the coronary arteries with homogenous contrast enhancement.



Multislice CT
 Multislice CT generates high-definition images from data acquired during continuous rotation.



Aquilion ONE
 Aquilion ONE generates high-definition images from data acquired in one rotation.

ONE Volume

The ability to acquire the entire brain with one volume scan opens the door to new diagnostic possibilities.

The Neuro ONE protocol allows 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 orthopedic imaging.





The world has been waiting for this.



ONE

Scan

ONE Rotation, ONE Phase, ONE Volume.
Possible only with Aquilion ONE.

Technology designed to improve patient care through new clinical examinations, with lower contrast medium dose and exposure dose. Technology that enables faster and more accurate diagnosis. One Scanner, One Examination, One Solution.

Case 1
Neuro ONE



Patient, 57 years old

- > Shows up in ER
- > Acute mental status change

One Exam...one scanner

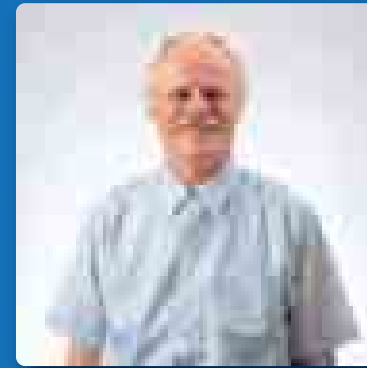
- Pre-contrast
- Arteriogram
- Venogram
- 3DCT DSA
- 3D volumetric perfusion

All in ~ 10 min

The new standard in imaging stroke patients. In ONE examination, whole brain perfusion and whole brain vascular analysis is provided in 60 seconds. Advanced analysis software allows easy viewing of the study, providing complete functional and morphological assessment in approximately 10 minutes.



Case 2
Cardiac ONE



Patient, 62 years old

- > Chest discomfort
- > Positive Family History
Cholesterol = 220
- > Suspected CAD
- > Framingham intermediate

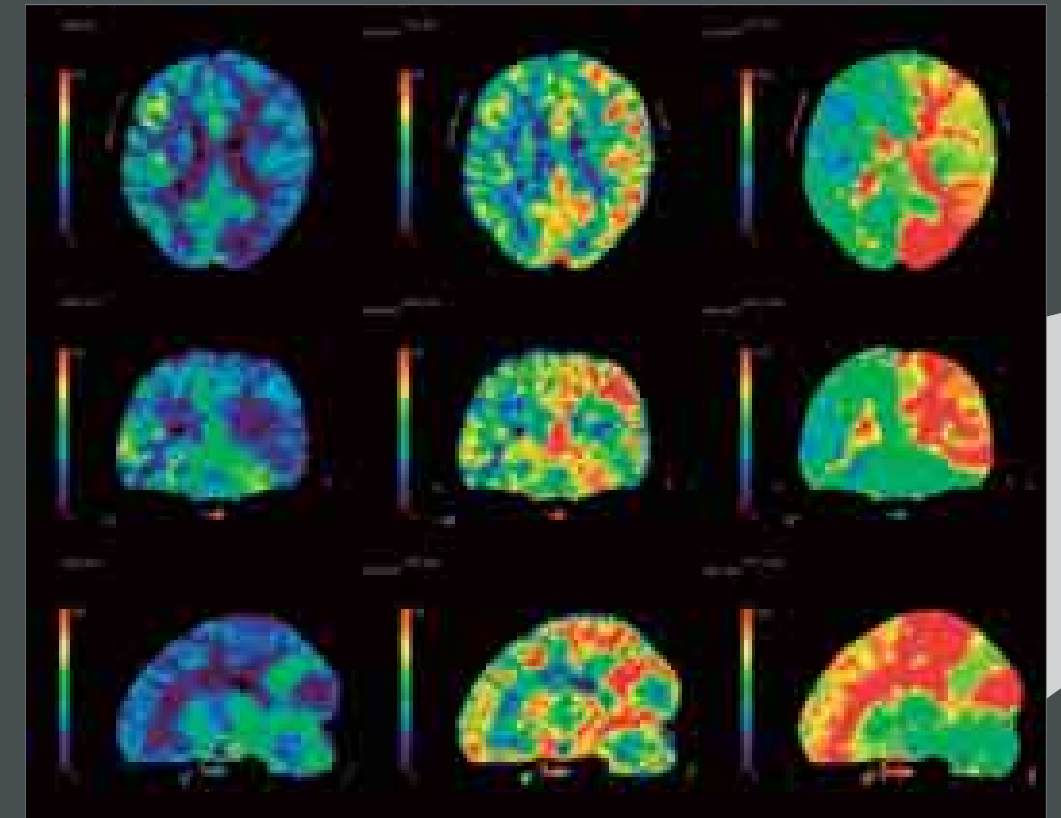
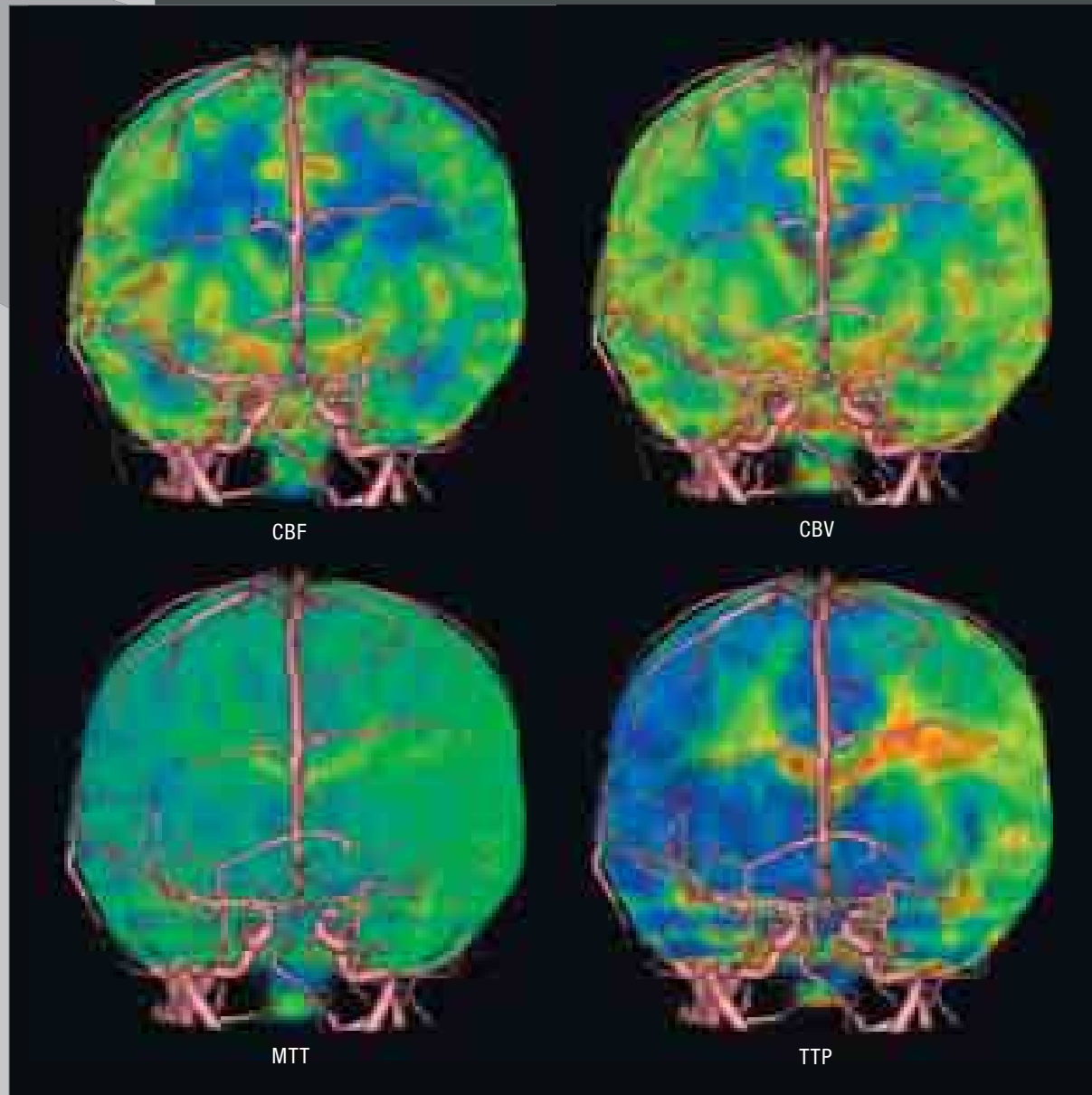
One Exam...one scanner

- Calcium
- Coronaries
- Wall motion and EF

All in ~ 15 min

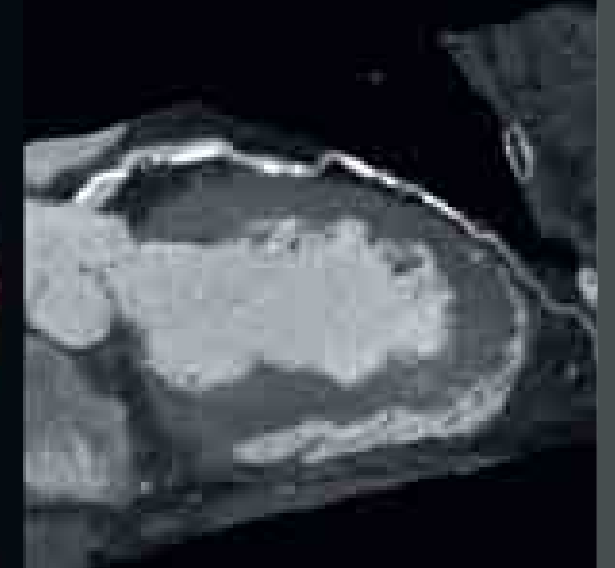
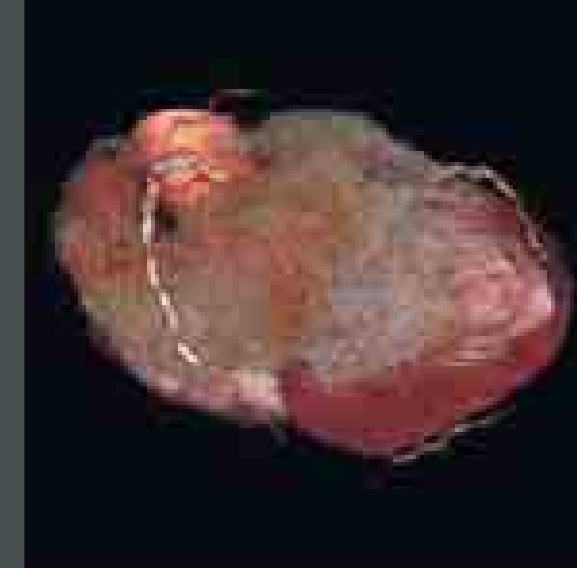
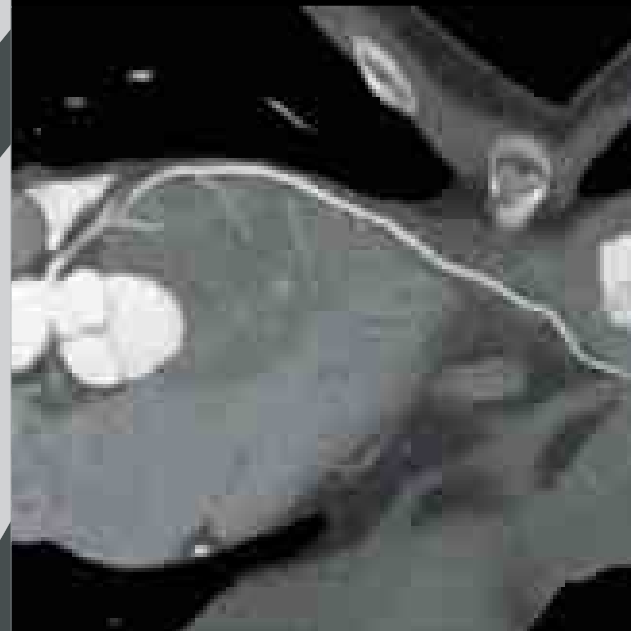
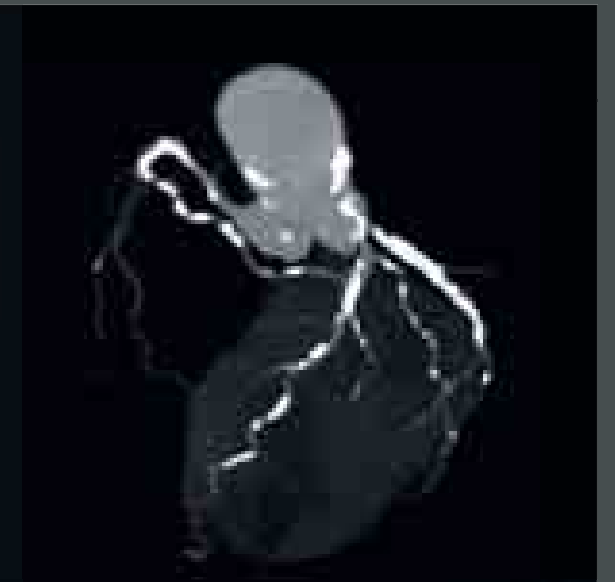
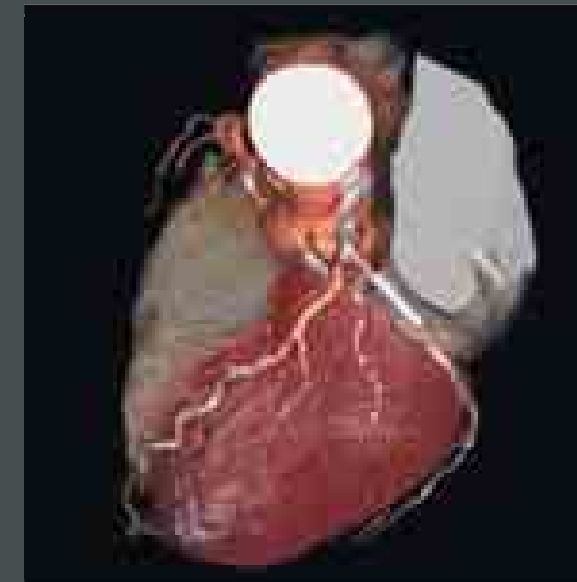
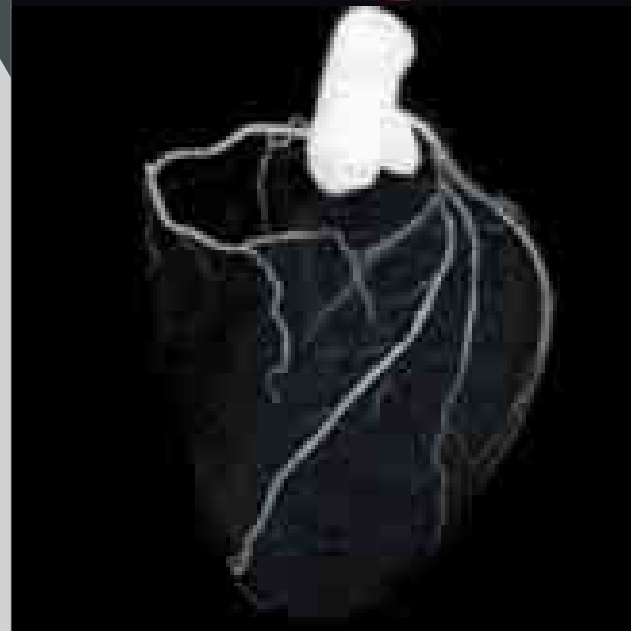
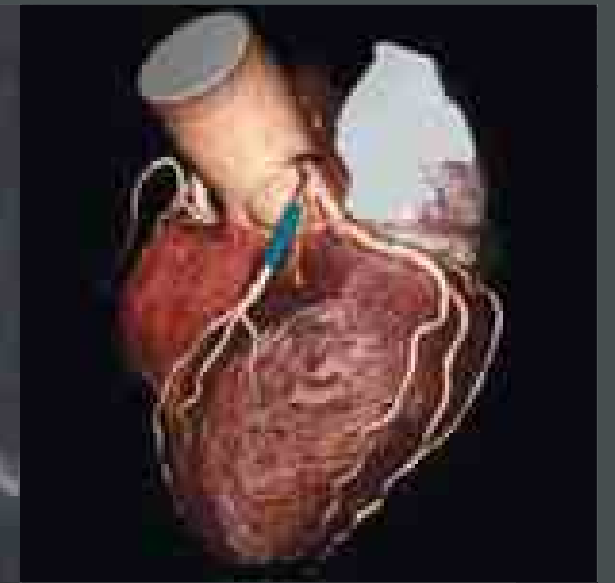
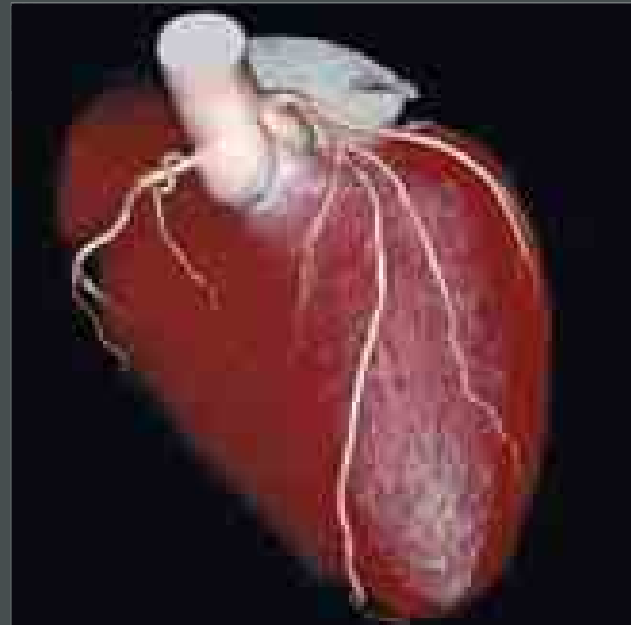
Aquilion ONE takes cardiac imaging with CT to a completely new level. The entire heart can be captured in an instant, providing the perfect view of motion-free coronary arteries in exactly the same cardiac phase. Volumetric acquisition allows reduction of both contrast medium dose and exposure dose.

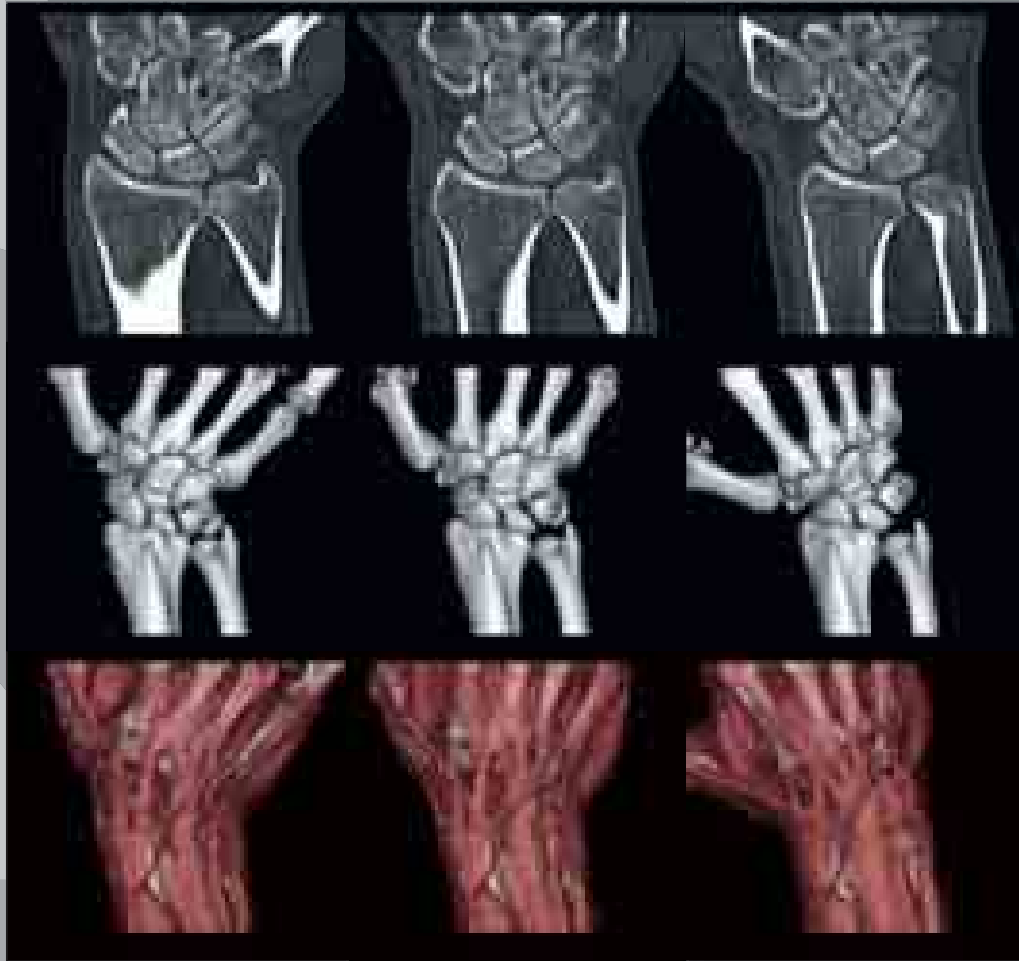




3D-CTDSA





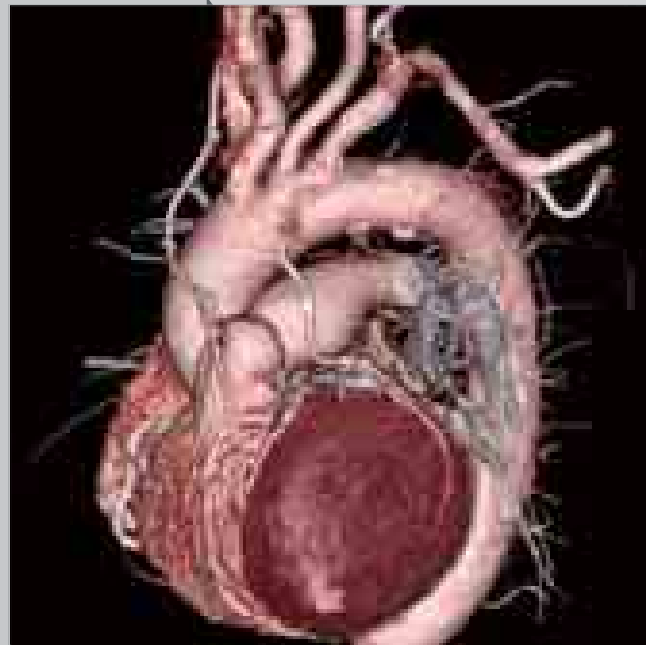


Dynamic evaluation using dynamic scanning allows joint motion and peripheral structures to be observed from any viewpoint as 4D data.



Toshiba innovation, making dreams come true.

ONE
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Aquilion ONE enables flexible scanning of a wide range in a short time.