CANON MEDICAL

Magnetic Resonance

High quality visualization of the anatomy is of great significance during diagnosis and treatment of Coronary Artery Disease (CAD).

Suboptimal image quality may lead to misdiagnosis or the need for additional tests.[1]

Enable Confident Diagnosis for Cardiology

"AiCE changes the way we think about MRI.
I'm impressed by the ease-of-use, how it maintains image contrast and structural detail, while at the same time eliminating noise."[2]

— Gary E. Gold
MD, PhD
Clinical radiologist and researcher

Image a wide range of cardiac patients

32ch Cardiac SPEEDER Coil[3]

32 channel cardiac coil

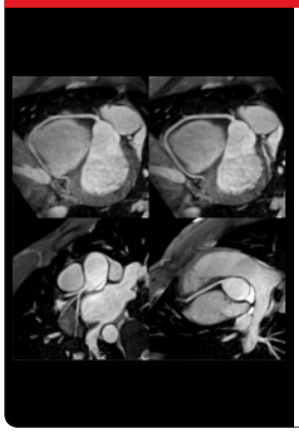
- High resolution
- High SPEEDER factors (parallel imaging)

Saturn X Gradient with PURERF

Stable and consistent imaging performance, increasing diagnostic confidence and shortening scan times

- 45mT/m high amplitude gradient with PURE Gradient digital gradient waveform control
- Improves Signal to Noise Ratio, achieves high RF stability and lower Time to Echo

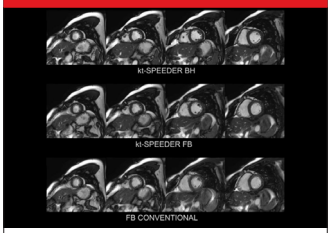
Real Time Motion Correction[3]



Obtain an image with reduced respiratory motion artifacts

- The changes in the position of the heart associated with breathing are estimated and corrected, even if the patient's breathing changes during image acquisition
- Allows for free-breathing acquisition

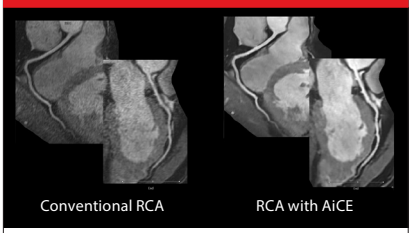
k-t SPEEDER[3]



High frame rate cardiac cine and perfusion imaging:

- Up to x8 accelerated
- Higher temporal resolution
- Fewer breath holds

AiCE[3,4]



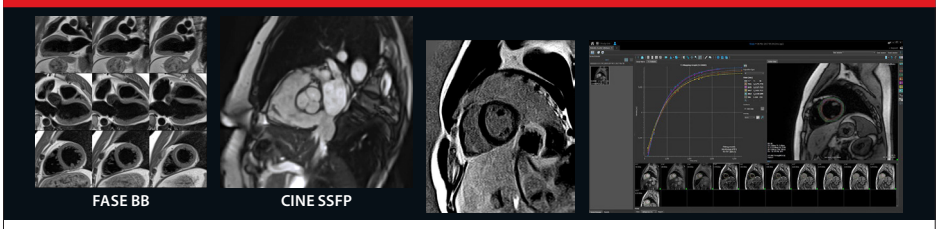
Intelligently removes noise, resulting in:

- Increased SNR[5]
- Enhanced resolution
- Enhanced anatomical detail

MR Coronary Arteries

- Whole heart coronary imaging sequence with Real Time Motion Correction and AiCE
- MR Coronary Tracking[6] application, image reformat and quantification tools help to efficiently analyze the coronary arteries

Cardiac Imaging Sequences[3]



Full portfolio of pulse sequences for cardiac imaging available. Sequence line-up contains:

- Fast Advanced Spin Echo Black Blood (FASE BB)
- Prospective and Retrospective Cine and R-Wave monitoring
- Cine Tagging
- 2D and 3D Delayed Enhanced
- Phase Sensitive Inversion Recovery (PSIR)
- Phase-Shift Flow for flow
- T1 MOLLI, T2* and T2 mapping
- Whole heart MR Coronary Artery (MRCA) Imaging

[1] P.F. Ferreira et al. Cardiovascular magnetic resonance artefacts. J Cardiovasc Magn Reson. 2013 May; 15(41). doi:10.1186/1532-429X-15-41
[2] The clinical results, performance and views described are the experience of the clinicians. Results may vary due to clinical setting, patient presentation and other factors.
[3] Optional
[4] Altivity feature
[5] AiCE provides higher SNR compared to typical low pass filters
[6] Optional, requires Vitrea™ Advanced Visualization applications, manufactured by Canon Medical Informatics, Inc.

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