SR Pulse 710™

1.5 T wide-bore

has never been this affordable

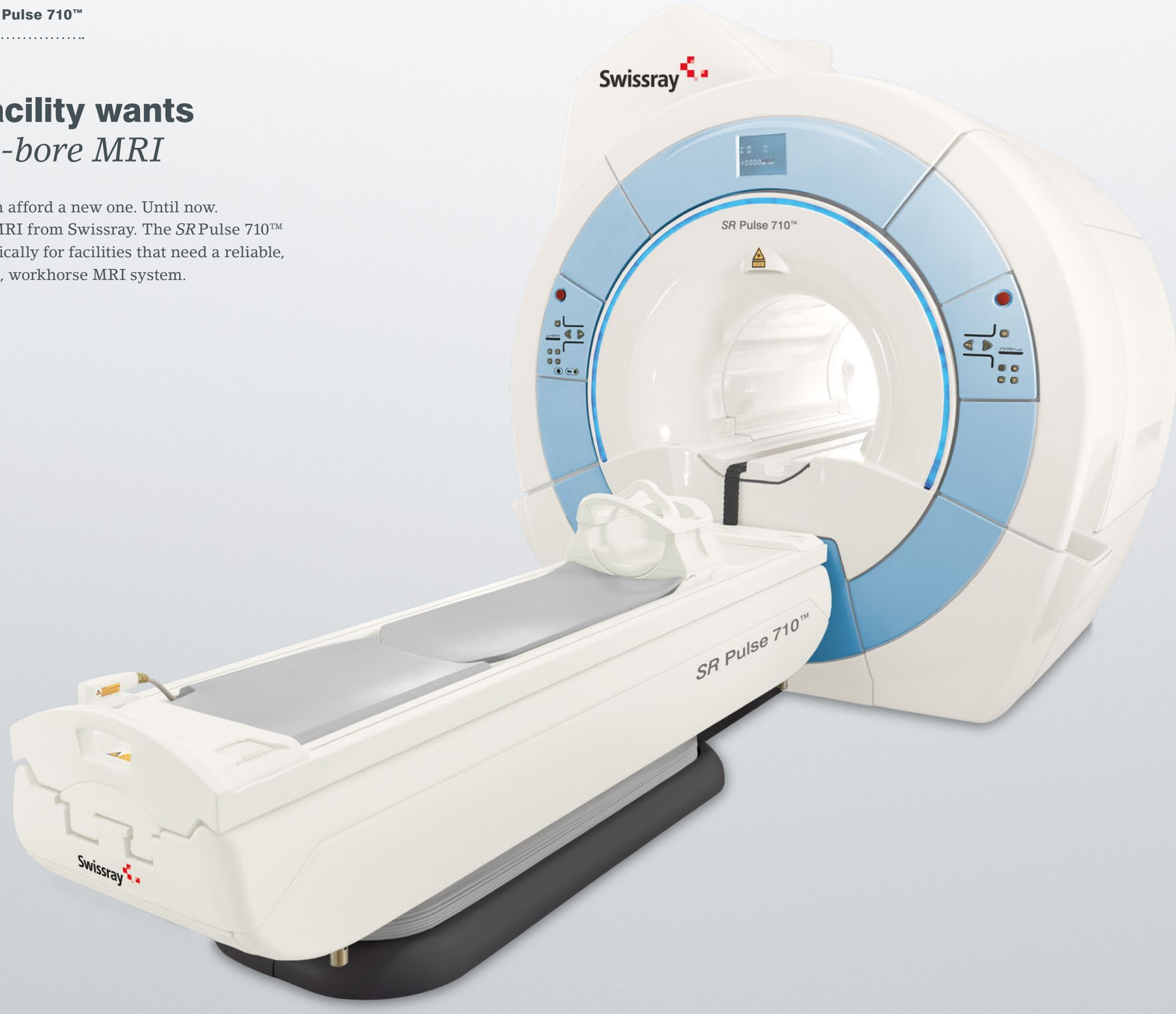
Swissray

Every facility wants
a wide-bore MRI

But not everyone can afford a new one. Until now.
Discover the *SR* Pulse 710™ MRI from Swissray. The *SR* Pulse 710™ was designed and built specifically for facilities that need a reliable, high throughput, workhorse MRI system.

The *SR* Pulse 710™ has everything you need in a new system

- A 71 cm wide-open bore
- High-resolution, exceptional image quality
- Lowest total cost of ownership
- Fastest break-even for new wide-bore



Don’t scare patients away

with fears about a narrow-bore MRI experience

Make sure every patient who walks through your door stays… to be scanned. The *SR* Pulse 710™ MRI system offers a 71 cm wide-bore that can accommodate patients of all sizes.

71 cm wide-bore and 550 lb table weight

With obesity on the rise, a 60 cm bore is a no-go for many patients – and that’s a problem for your staff and your bottom line. The *SR* Pulse 710™ features a 71 cm wide-bore and a wide couch that comfortably supports patient weights up to 550 lbs (250 kg), which means a better experience for everyone.

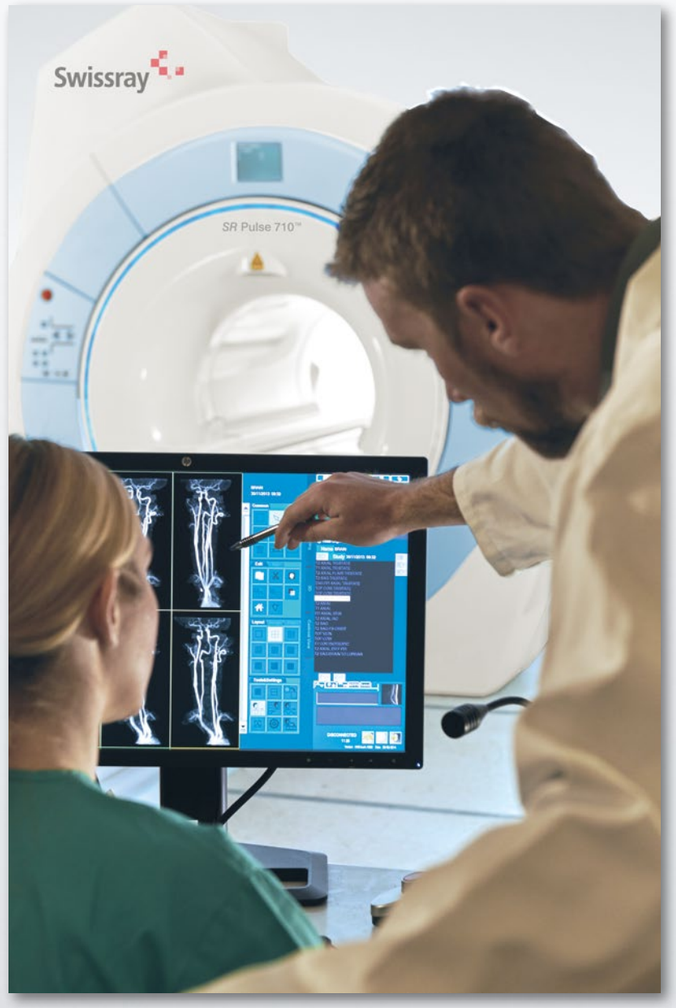
A better
patient experience

With automated protocols you'll increase efficiency and reduce the time the patient will spend on the table. With the *SR* Pulse 710™, your technologists control the patient environment. Variable lighting and airflow ensure optimal comfort for patients of all shapes and sizes. We also provide a built-in audio system option. A comfortable environment benefits all patients, while helping your staff optimize throughput.

The *SR* Pulse 710™'s 50 cm field of view allows more comfortable off-axis imaging, while still providing homogeneous fat suppression for clinical accuracy.

Quality images
drive clinical precision

SR Pulse 710™ components are designed and developed by a USA engineering team members, of which have been awarded 87 MR imaging patents.



Images that meet your clinicians' most rigorous demands

High-homogeneity magnet

The *SR* Pulse 710™ magnet provides a 50 × 50 × 50 cm usable field of view.

Better gradient performance

33 mT/m gradients drive to peak power in 0.25 milliseconds.

New multi-element coil arrays

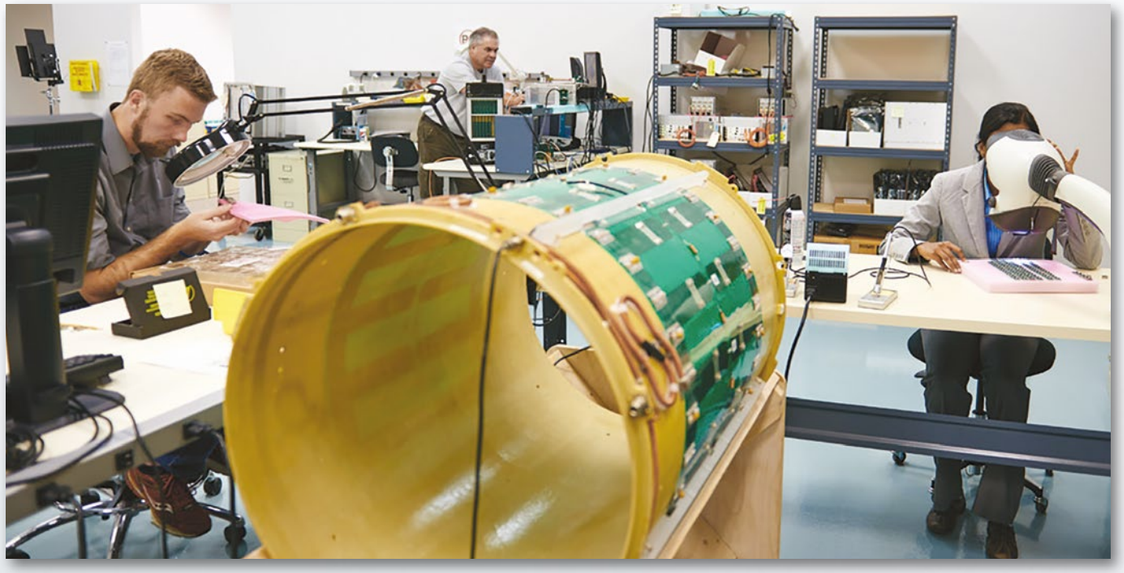
The *SR* Pulse 710™'s coil arrays, built into the tabletop and selected through programmed protocols, reduce the need for time-consuming repositioning.

Comprehensive software capabilities

The *SR* Pulse 710™'s user-friendly protocols optimize efficiency and support high-throughput scanning.

MRI engineering
expertise

We assist healthcare providers in reducing diagnostic imaging costs while delivering additional patient benefits and, in doing so, make a significant impact on the global healthcare industry.



Swissray focuses on imaging and MRI system performance and service

Our leadership: Recognized expertise in medical imaging and engineering

Our team: Industry experts in the design, manufacture and service of advanced imaging systems

SR Pulse 710™

A better
imaging value

SR Pulse 710™ is the high-value choice for facilities seeking to replace aging MRI systems with an industry-standard wide-bore MRI. *SR* Pulse 710™ meets patient demand for a wide-bore MRI system while providing the images and advanced capabilities your clinicians demand.

The *SR* Pulse 710™

Provides the highest value 1.5 T wide-bore solution for your facility.

Hardware and software components are designed and built through the collaboration of a U.S. R&D team.

The system is assembled and fully tested in an FDA-approved manufacturing facility in Northeast Ohio. It's how we deliver your wide-bore MRI at a surprisingly affordable cost of ownership.

Reduced service costs

With a ZBO (zero boil-off) magnet, the *SR* Pulse 710™ eliminates expensive cryogen replacement.

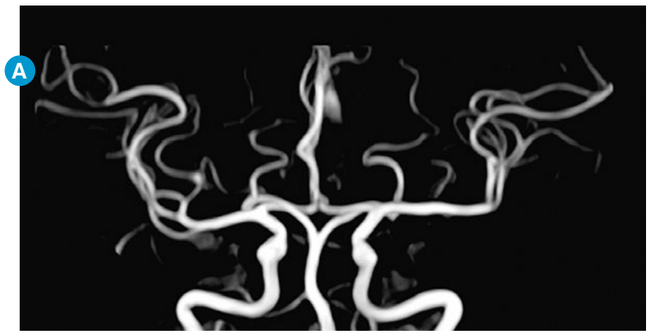
High throughput – low break even

The *SR* Pulse 710™'s intelligent, automated protocols offer high throughput. Combined with an attractive purchase price and low operational costs. The *SR* Pulse 710™ requires very low procedure numbers to break even.

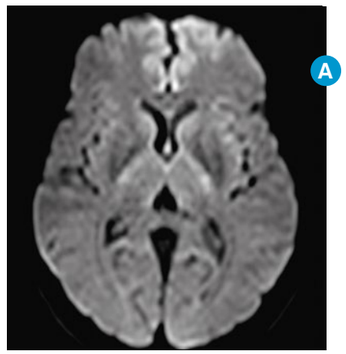
Reliable components

From the superconducting magnets to the RF coils, *SR* Pulse 710™'s components are designed for reliability.

SR Pulse 710™ images

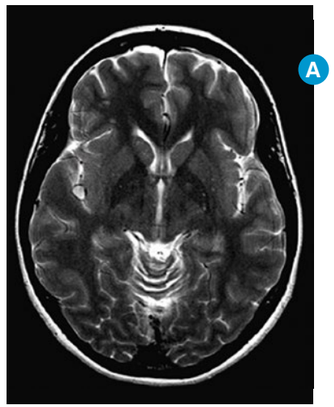


Circle of Willis time of flight angiography

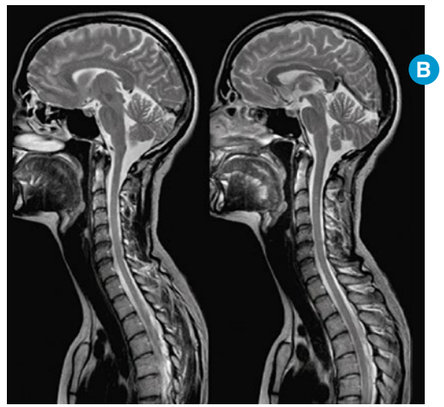


Diffusion weighted imaging

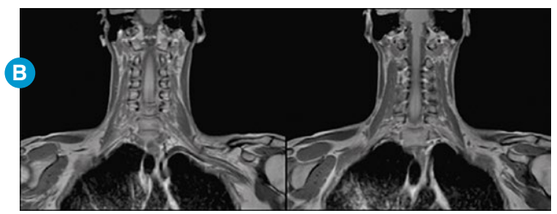
T1 Axial brain



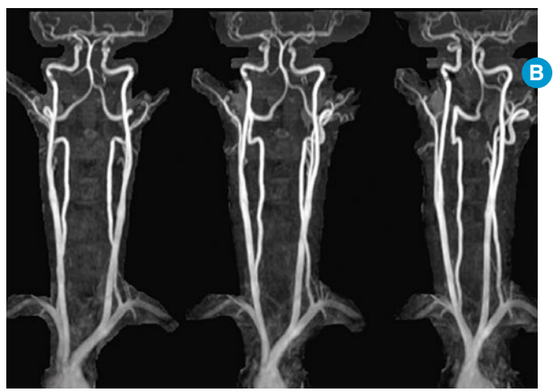
T2 Axial brain



T2 Fast spin echo full coverage – HNV array



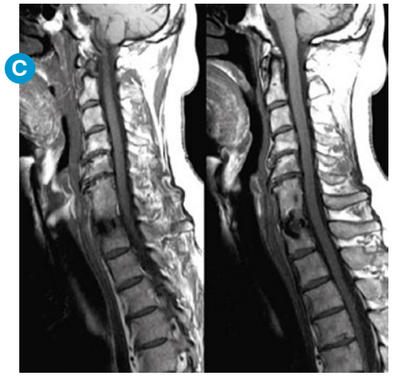
T1 Fast spin echo brachial plexus



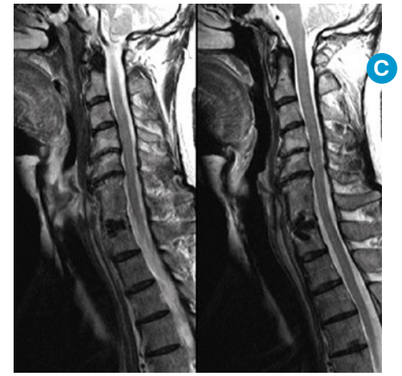
Time of flight angiography – HNV array

A Phased array head coil

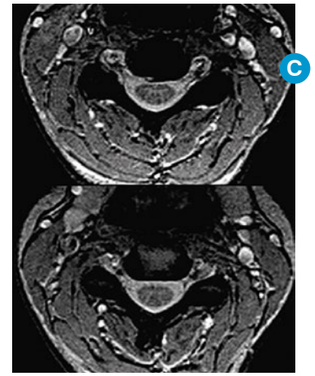
B Head/neck/vascular coil array



T1 Cervical spine



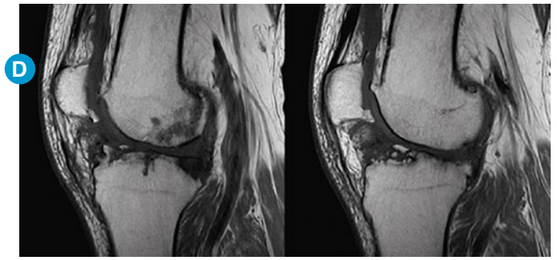
T2 Cervical spine



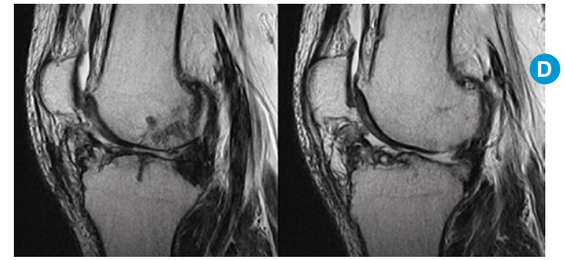
T2* Cervical spine

Thoracic spine – T2, T1 and FatSat

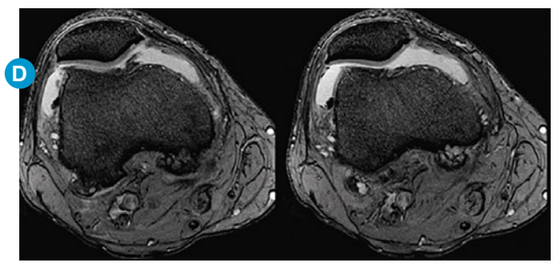
Lumbar spine – T2, T1 and FatSat



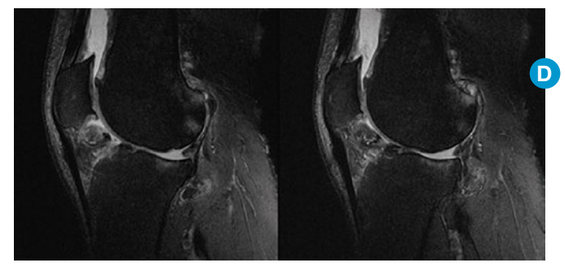
T1 Sagittal knee



T2 Sagittal knee



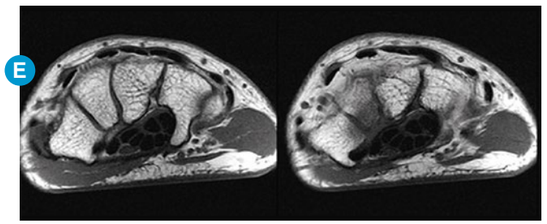
T2* Axial knee



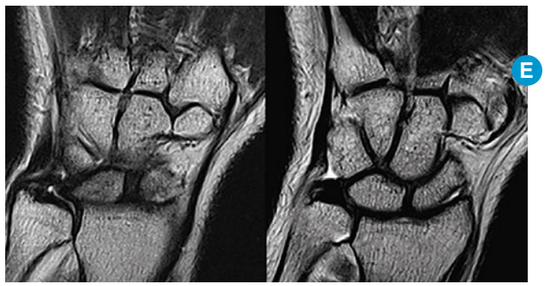
Proton density saggital knee with FatSat

C Integrated spine array

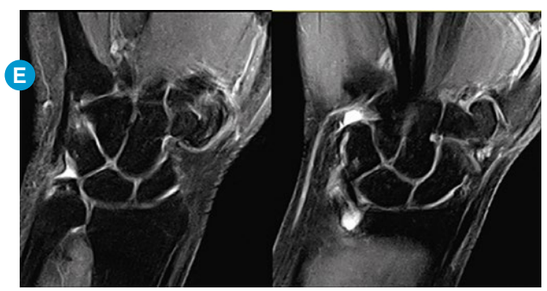
D Phased array knee



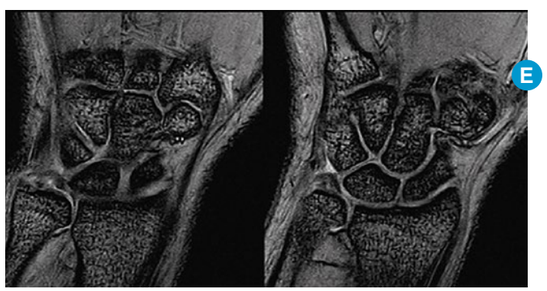
T1 Axial wrist



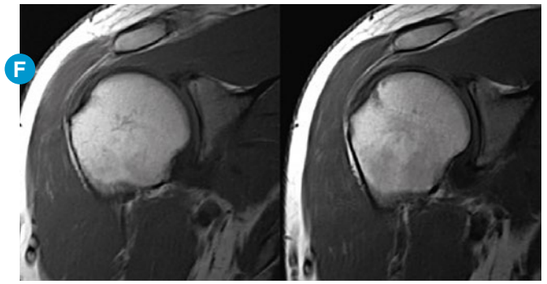
T2 Coronal wrist



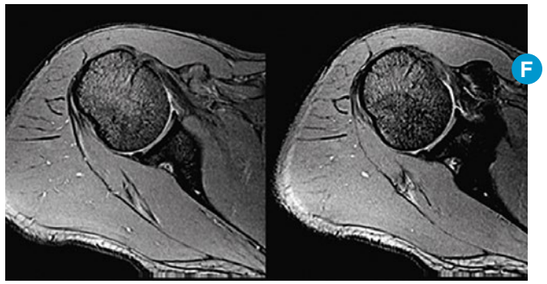
Proton density coronal wrist with FatSat



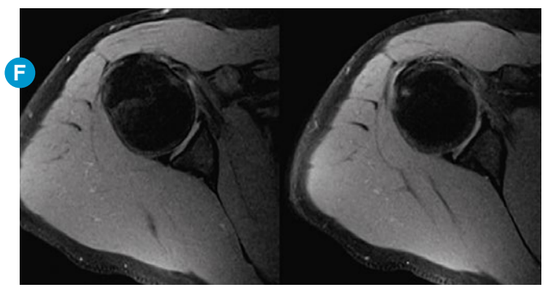
T2* Weighted coronal wrist



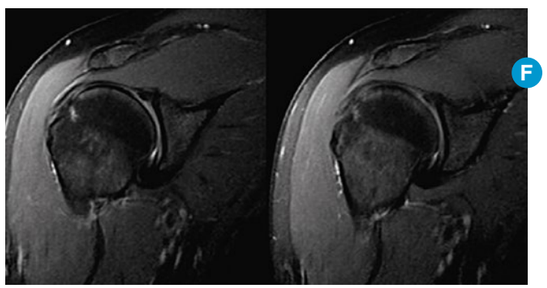
T1 Weighted coronal shoulder



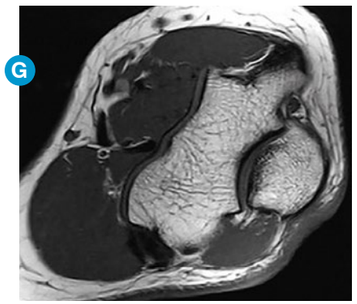
T2* Weighted axial shoulder



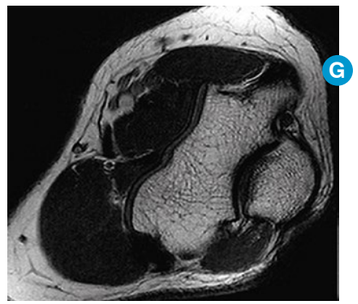
Proton density axial shoulder with FatSat



Proton density coronal shoulder with FatStat



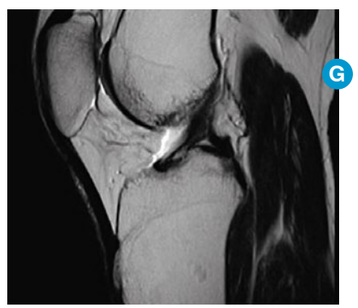
T1 Axial elbow – small flex



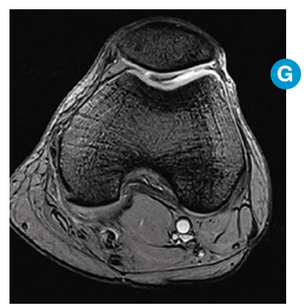
T2 Axial elbow – small flex

T2* Coronal elbow – small flex

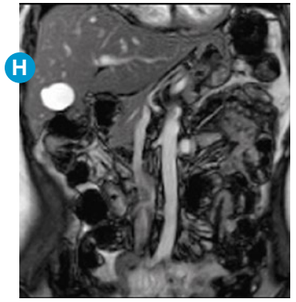
PD Sagittal knee w/FatSat – large flex



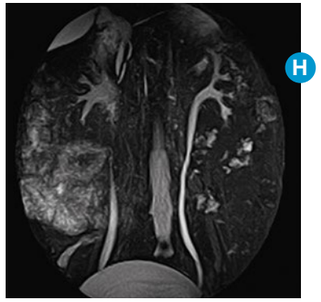
T2 Sagittal knee – large flex



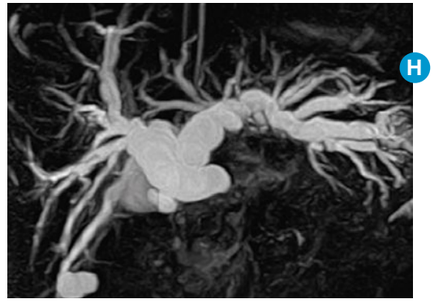
T2* Axial knee – large flex



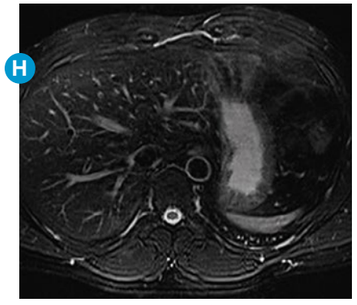
T2* Balanced abdomen



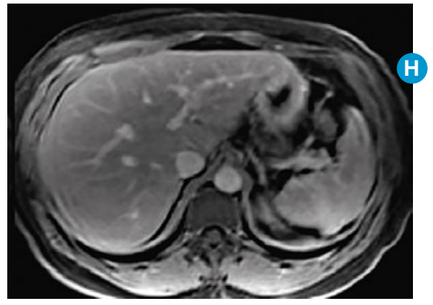
3D Single-shot fast spin echo MRU



T2 3D fast spin echo MRCP



T2 Abdomen with FatSat



3D T1 Axial abdomen with contrast

E Phased array hand/wrist

F Phased array shoulder

G Multiple purpose flexible arrays – small and large sizes

H Phased array torso coils – small, medium and large sizes

Product features

MAGNET

Ultra-homogeneous main magnet field
< 5 ppm over 45 cm DSV

Usable FOV of 50 cm in all directions

ZBO (zero boil-off) virtually eliminates cryogen consumption

Recommended helium refill interval of ten years

USER INTERFACE

Rapid start-up

One-button plan setup

High throughput protocols while retaining full user customization

Integration to PACS and HIS/RIS systems via DICOM 3.0 protocols

RF SYSTEM

Combination of integrated phased array high-density coil elements

Four distinct coil arrays can be connected simultaneously for whole body imaging without repositioning

DATA ACQUISITION AND API

16-channel data acquisition system

Latest generation parallel imaging (PPI) accelerates scan times while delivering the highest quality images

Multiple phased array coils collect signals simultaneously

SR Pulse 710™

Advanced Software Applications

NEUROLOGY

Protocols for head and spine exams optimized for high resolution and SNR, including protocols for fast and postcontrast exams

Advanced DWI
- Multiple b values (5)
- Multiple directions (21)
- Auto ADC Maps
- Single directional DWI
- Average DWI Maps
- Shorter ETL for improved DWI
- Flexible PPI factors from 1.0 to 2.0

Isotropic 3D T1
- Shorter scan time with increased resolution
- Reliable image quality

DTI
- Advanced Diffusion Tensor Imaging acquisition software for off-line processing

MUSCULOSKELETAL

Clinically optimized protocols for high resolution orthopedic exams

Full 50 cm FOV for high-quality off-center imaging with homogeneous fat suppression

MTC Plus T2* Flash
- Orthopedic and spine imaging
- Delivers excellent tissue contrast between cartilage, joint fluid, bone, muscles and ligaments

Dedicated anatomical coils deliver high resolution and SNRin joint imaging
- Dedicated and Multi-Purpose joint coils are available in a variety of sizes, specially designed to provide excellent image quality and flexibility with high resolution and SNR
- Optimal coil placement directly on the anatomy, providing excellent image quality

BODY

Clinically optimized protocols provide comprehensive capabilities ranging from routine imaging to specialized imaging strategies unique to oncology

Ultra-fast breath hold protocols such as single shot, balanced and in- and out-of-phase optimized sequences

Optimized free breathing protocols for uncooperative patients

3D T1 protocols optimized for excellent spatial and temporal resolution in dynamic post-contrast exams

MR Cholangiopancreatography and Urography protocols

Multiple b-value DWI imaging for pathological differentiation

Advanced Spectrum FatSat SPAIR/SPIR
- Advanced pulse selection to produce consistent FatSat results for large anatomy imaging

Magnitude Recovery
T2 weighted imaging using a shorter TR

T2 weighting, contrast enhanced, with the use of Magnitude Recovery

Partial Fourier Transformation (PFT)
- 40 percent scan time reduction
- Fast reconstruction
- Support for Gradient Echo and Spin Echo sequences

In- and Out-of-Phase Imaging
In- and out-of-phase in one breath hold for spatial consistency

Balance/MF-SSFP
True steady-state ultra-fast GRE protocol for motion-free abdominal imaging

Advanced Volume Imaging of Abdomen
- Fast uniform fat suppression
- Ultra short TR TE, very low FA, provides excellent T1 contrast
- Fast 14- to 18-second scan time for breath-hold exams
- Compatible with slice interpolation and PFT for high resolution and shorter scan times

Body DWI
- Rapid acquisition
- Multiple b values
- ADC map

ANGIOGRAPHY

Clinically optimized contrast or non-contrast angiography protocols for arterial and venous imaging

TOF 3D Multi-volume and 2D protocols with very high resolution for non-contrast angiography

2D fast bolus tracking interface for contrast enhanced angiography studies

Auto-MIP and background subtraction for optimal vessel visualization

CE-MRA Package
- Fast scan with very short TR and TE
- K-space center filling
- Automatic MIP processing
- Automatic subtraction processing

Interactive Bolus Detection
- Interactive real-time scan and display
- ROI signal intensity Auto-Switch
- Manual-Switch
- Subtraction for better bolus view
- User-friendly interactive design

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