

CT & MRI IMAGING ORTHOPEDICS

THE FASTEST, SAFEST, MOST ADVANCED CT AND MRI IMAGING FOR ORTHOPEDIC PATIENTS AT CHARTER RADIOLOGY

At Charter Radiology, we offer the most advanced 3 Tesla SKYRA MRI equipped with advanced WARP, as well as the most advanced CT technology on the market today – the Siemens SOMATOM® Definition AS 128-slice CT Scanner. For the region's orthopedic specialists, this means enhanced diagnostic capabilities for comprehensive care planning for orthopedic patients.

CHARTER'S 3 TESLA MRI EQUIPPED WITH ADVANCED WARP/SEMAC

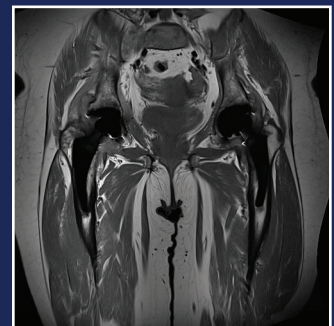
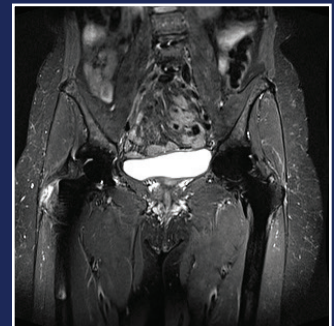
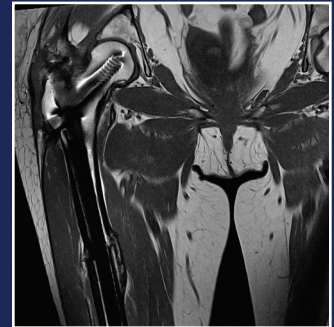
Now available at Charter Radiology's Reisterstown, MD location, 3 Tesla Skyra MRI technology utilizes metal artifact suppression reduction techniques and is equipped with advanced WARP. In our Columbia, MD location, we offer 3 Tesla Siemens MRI with WARP/SEMAC Slice Encoding for Metal Artifact Correction as well as the 128-slice CT Scanner.

Advanced WARP includes the following artifact reduction techniques:

- Slice Encoding for Metal Artifact Correction (SEMAC) technique for full distortion correction, in- and through-plane
- High-bandwidth RF pulses
- High readout gradient amplitude
- High-bandwidth IR-preparation for robust fat suppression (high-bandwidth STIR)
- View Angle Tilting (VAT) technique for in-plane distortion correction

Benefits include:

- Efficient correction of bulk metal artifacts
- Efficient workflow: Ready-to-use optimized protocols. Integrated Dot workflow with single-click changes to a scan strategy optimized for implant patients
- Robust image quality and fewer repeated scans, ensuring high patient throughput
- Potential to diagnose clinical conditions such as prosthesis loosening, infections, inflammations, and implant failure



CHARTER RADIOLOGY'S MR/CT CAPABILITIES

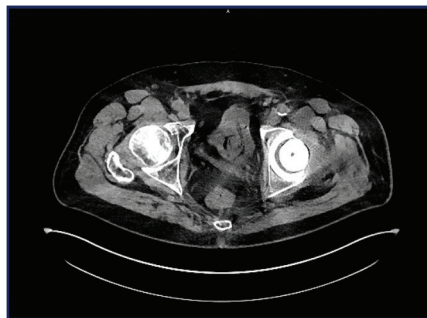
Charter Radiology's 128-slice CT scanner is the only CT to offer IMAR in a Maryland outpatient facility.

Charter Radiology's advanced MRI and CT technology offers the most advanced capabilities to perform pre-surgical prosthesis CT planning, including:

- Arthrex Shoulder
- Biomet Shoulder
- Biomet Hip
- Biomet Knee
- Biomet Custom Prosthesis
- Conformis Knee Prosthesis
- MAKO Hip
- MAKO Knee
- Tornier Wright Shoulder
- Zimmer Shoulder CT
- Zimmer Knee



WITHOUT iMAR



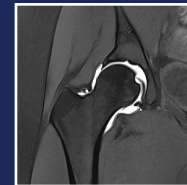
WITH iMAR

CHARTER RADIOLOGY ALSO OFFERS ADVANCED MR AND CT ARTHROGRAM CAPABILITIES INCLUDING:

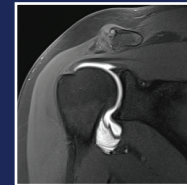
MR INTRA-ARTICULAR ARTHROGRAM



Elbow



Hip

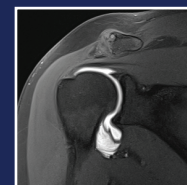


Shoulder



Wrist

CT INTRA-ARTICULAR ARTHROGRAM



Shoulder

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