

A doctor in a white lab coat is looking at a computer monitor displaying MRI scans of a spine. A patient with curly hair is sitting in front of the monitor, looking at the scans. The background is a blurred clinical setting.

**PHILIPS**

O-MAR XD

MR Clinical application

# Efficient near-metal soft tissue and bone imaging

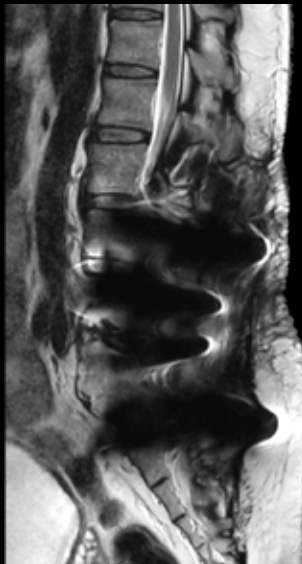
**O-MAR XD** (Metal Artifact Reduction for Orthopedic implants) allows you to improve visualization of more soft tissue and bone in the near vicinity of MR Conditional orthopedic implants<sup>1</sup> by reducing in- and through-plane susceptibility artifacts<sup>2</sup> caused by metal implants<sup>1</sup>. This allows you to offer post-operative MR imaging to patients with implants who could develop implant-related conditions.

<sup>1</sup> Only for use with MR Safe or MR Conditional implants by strictly following the Instructions for Use

<sup>2</sup> Compared to standard high bandwidth spin-echo based techniques

# O-MAR XD

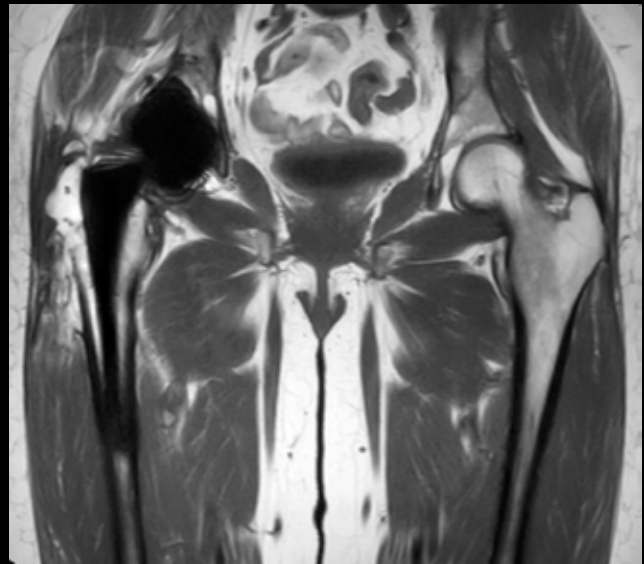
Field strength	1.5T, 3.0T.
Main applications	Spine, MSK. Also available for other anatomies.
Sequence	Extending MARS (Metal Artifact Reduction Sequence) with the View Angle Tilting (VAT) and Slice Encoding for Metal Artifact Correction (SEMAC) techniques.
Image contrast	Supporting most relevant image contrasts like T1w, T2w, PDw, STIR.
Speed	Leverages the efficient dS SENSE parallel imaging technology to provide superior speed performance.
Image quality	Optimal signal-to-noise due to dStream's digitization at the patient.



T2w TSE  
0.9 x 1.1 x 4.0 mm,  
2:51 min  
Ingenia 1.5T



T2w TSE – O-MAR XD  
1.1 x 1.4 x 4.0 mm,  
7:12 min  
Ingenia 1.5T



T1w TSE – O-MAR XD  
1.1 x 1.4 x 5.0 mm  
6:20 min  
Ingenia 1.5T