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**Subject:** **MRI Compatibility**

Zimmer confirms that all metal we are using today for medical implants have ferromagnetic behaviour. Magnetic behaviour in general is quite complex phenomenon and is well understood. Ferromagnetic material has a spontaneous magnetic moment. In metals, the crystalline structure of ferrite may result in ferromagnetic behaviour.

**Austenitic crystal structure like implantable metal alloys CoCr and stainless steel have non-ferromagnetic behaviour as well as titanium alloys.**

Following metals and implants have non-ferromagnetic behaviour :

- Protasul 1/2 CoCrMo cast alloy
- Protasul 10 CoNiCrMo alloy
- Protasul 20 CoCrMo alloy
- Protasul 21WF CoCrMo alloy
- Zimaloy CoCrMo alloy
- Tivanium TiAl alloy
- Protasul 64WF TiAlV alloy
- Protasul 100 TiAlNb alloy
- Protasul S30 FeCrNi alloy
- TM Tantalum metal

Following implants have non-ferromagnetic behaviour :

- ALLOCLASSIC SL stem
- TRILOGY acetabular
- TRILOGY AB acetabular
- TMT modular cup
- TRILOGY insert PE
- TRILOGY LONGEVITY insert PE
- TRILOGY AB insert
- VERSYS AB head
- VERSYS femoral head
- VERSYS ET
- VERSYS FMT
- HIP SYSTEM screw
- ALLOCLASIC VARIAL SLV stem
- ALLOCLASIC SL HAC stem
- ALLOFIT cup



- SULENE insert PE
- DURASUL insert PE
- DURASUL head
- BIOLOX head
- ALLOFIT screw
- METABLOC stem
- LOW PROFILE CUP DURASUL
- DURASUL head
- NEXGEN CR FLEX femoral
- NEXGEN LPS-FLEX femoral
- NEXGEN tibial component
- NEXGEN CR FLEX insert
- NEXGEN LPS-FLEX insert
- NEXGEN patella
- NEXGEN LPS POROUS femoral
- NEXGEN LPS tibial monoblock
- NEXGEN LCCK femoral
- NEXGEN tibial component
- NEXGEN LCCK insert
- NEXGEN stem –straight
- NEXGEN stem – offset
- NEXGEN LCCK-femoral distal
- NEXGEN LCCK BLOCK-tibial
- Z.U.K. femoral
- Z.U.K. tibial
- Z.U.K. articular surface
- MUELLER ring
- BURCH SCHNEIDER ring
- GANZ ring
- BIGLIANI/FLATOW stem
- BIGLIANI/FLATOW head
- BIGLIANI/FLATOW insert
- ALLOCLASSIC SLL Revision Stem
- ALLOFIT-S IT shell
- ALLOFIT-S IT BioloX Delta Ceramic Liner
- CONTINUUM SHELL, Multi Hole
- TRABECULAR METAL REVISION Shell
- Acetabular Augment
- Acetabular Restrictor
- Buttress Augment
- Shim Augment
- Trabecular Metal Acetabular Revision System Cage
- LONGEVITY Revision Shell Liner
- NEXGEN CR-FLEX POROUS femoral
- NEXGEN CR tibial monobloc
- NEXGEN LCCK-femoral proximal



Studies indicated that MRI procedure has minimal effects on most Zimmer Orthopaedic implant devices up to 3 Tesla.

Patient should note, that there are several different manufacturers and generations of MRI equipment available, and Zimmer cannot make claims regarding compatibility of Zimmer implants with any specific MRI unit. It is recommended that the patient contact the surgeons or the manufacturer of the MRI devices to discuss the compatibility of Zimmer implants with the MRI equipment before undergoing any test.

Kind regards,

  
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