

EX-PRESS® Device Displacement and Temperature Changes

The EX-PRESS® Glaucoma Filtration Device was also evaluated to measure potential magnetic field-induced displacement and radiofrequency heating during an MRI. Although it did demonstrate ferromagnetic properties, the EX-PRESS® device showed:

- No rotation up to 3 Tesla MR³
- No displacement up to 3 Tesla MR³
- No temperature change³

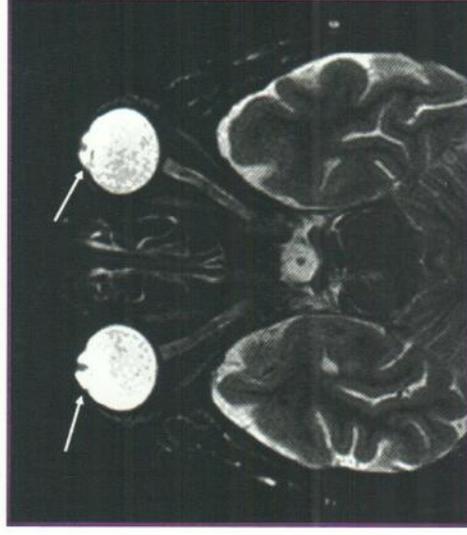
MRI Strength (T)	Rotation	Displacement (mm)	ΔT (°C)
1.5	0	0	$+0.1 \pm 0.1$
3.0	0	0	0.0 ± 0.3

The EX-PRESS® device does not exhibit movement or temperature change up to 3 Tesla.³

MRI Visualization with the EX-PRESS® Device

MRI scans of the orbit and brain were evaluated to determine if artifacts caused by the EX-PRESS® device affected imaging of the optic nerve and visual pathways. The study concluded that:

- Brain imaging was of good quality for radiologic evaluation⁴
- Optic nerve imaging was sufficient for radiologic evaluation⁴



MRI scan with the EX-PRESS® device.
Photo provided by Dr. Alessandro Bagnis and Professor Carlo E. Traverso.

The EX-PRESS® device does not prevent MRI evaluation.⁴