# MRI Checklist for MED-EL Bone Conduction Implant BCI 601

If the conditions or instructions herein are NOT followed, INJURY to the patient and/or DAMAGE to the implant may result!

→ VALID for all body regions

The BCI 601 has not been tested for safety in combination with other implants. In case of additional implants, e.g. a hearing implant in the other ear: MRI safety guidelines for this implant need to be considered in addition.

## GENERAL CONDITIONS

- **PERMITTED STATIC MAGNETIC FIELD STRENGTH**
  - 1.5 T

- **PERMITTED SPATIAL FIELD GRADIENT**
  - Up to including 3000 Gauss/cm (30 T/m)

- **MAXIMUM PERMITTED SAR at 1.5 T**
  - During body imaging < 4 W/kg (First Level Operating Mode)
  - During head imaging < 3.2 W/kg (Normal and First Level Operating Mode)

## PREPARATION

- **USER IDENTIFICATION CARD**
  - Ask patient for User Identification Card to check implant type.  
  - ◀ OK

- **IMAGE ARTIFACT**
  - Is accurate diagnostic possible even with the image artifact (approximately 15 cm (6 in) around the implant)?
  - ◀ YES → continue (next bullet point)
  - ◀ NO → consider MARS sequences, alternative imaging technologies

- **AUDITORY SENSATIONS**
  - Inform the patient about possible auditory sensations during the examination.
  - NOTE: The likelihood and intensity of auditory sensations can be reduced by selecting sequences with a lower SAR and slower gradient slew rates. Auditory sensations may also be reduced by putting on noise protection headphones.
  - ◀ OK

- **HEAD ORIENTATION**
  - No restrictions
  - ◀ OK

- **EXTERNAL COMPONENTS**
  - Remove audio processor and accessories before entering the scanner room.
  - ◀ OK

- **OPTIONAL HEAD BANDAGE**
  - A supportive headband over the implant is not needed.
  - ◀ OK

## EXECUTION

- **PATIENT POSITIONING**
  - NOTE: When lower extremities are to be examined, it is recommended that patient's legs are positioned in the scanner first.
  - ◀ OK

Under the scan conditions defined above, the BCI 601 is expected to produce a maximum temperature rise of less than 4°C (7.2°F) after 15 minutes of continuous scanning.

Please also refer to the webpage [www.medel.com/us/isi-bci-601](http://www.medel.com/us/isi-bci-601)

Help and assistance are always available from your local office. Please visit us at [www.medel.com](http://www.medel.com)

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