



Study Protocol

Dislocation of TORP – middle ear implant

Neuro Interventions

The high spatial resolution of syngo DynaCT Micro supports diagnosis of complications after TORP implantations

Courtesy of

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Supported by

syngo DynaCT Micro

System & Software

Artis Q biplane VD11
syngo X Workplace VD10

Case Description

Patient history

35-year-old male with known conductive hearing loss; initially benefits after implantation of a total ossicular replacement prosthesis (TORP). After 3 months, he suddenly suffers under hearing loss again.

Diagnosis

TORP-dislocation

General comments

syngo DynaCT Micro provides higher spatial resolution compared to standard CT images. For the complex anatomy in the inner ear and especially with tiny prosthesis and implants, it helps to make the right diagnosis.

Dislocation of TORP – middle ear implant

Acquisition protocol	20s DCT Head Micro
Injection protocol	N/A
Reconstructions	DynaCT Micro
Name	DynaCT Micro
VOI size	Manual 47 mm × 47 mm × 35 mm
Slice matrix	512 × 512
Kernel type	HU
Image characteristics	Normal
Reconstruction mode	Nat fill
Viewing preset	DynaCT Head

Clinical Images

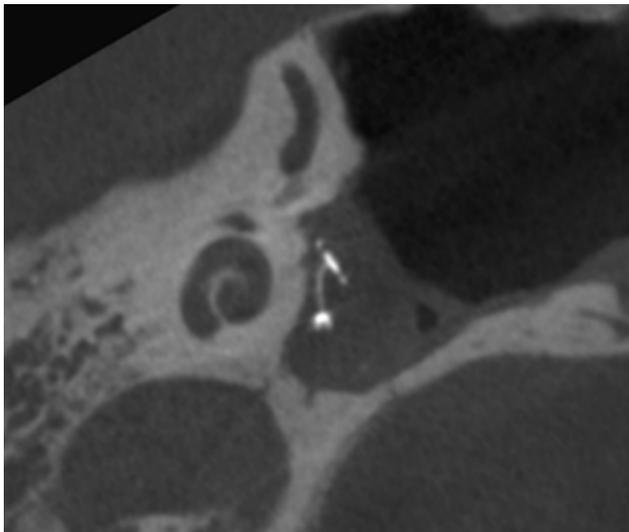


Figure 1: After tympanoplasty type III with titanium total ossicular replacement prosthesis the tympanum is filled with soft tissue isodense material; the TORP is dislocated and bent

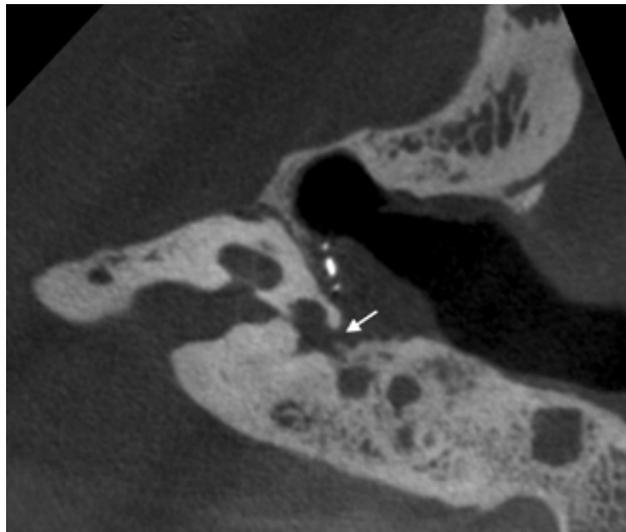


Figure 2: Dislocated TORP without contact to the oval window (indicated by arrow)

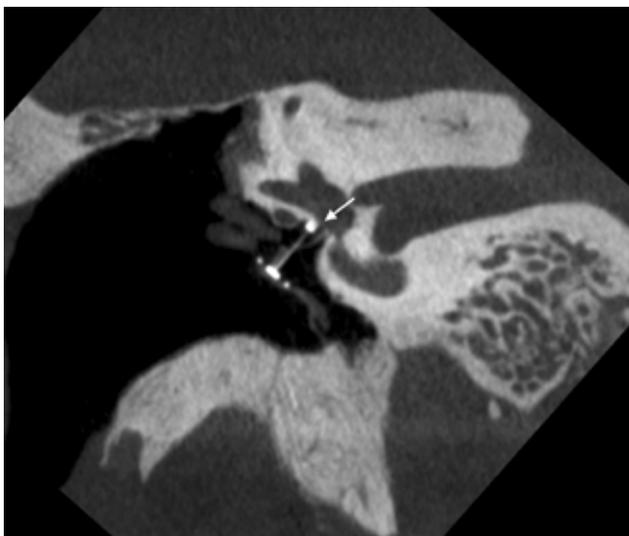


Figure 3: Image example for a correct positioned TORP in the oval window (indicated by arrow)

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