

Total ossicular replacement prosthesis (TORP) dislocation

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

Neuro Interventions

Study Protocol

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 from hearing loss again.

Diagnosis

TORP dislocation

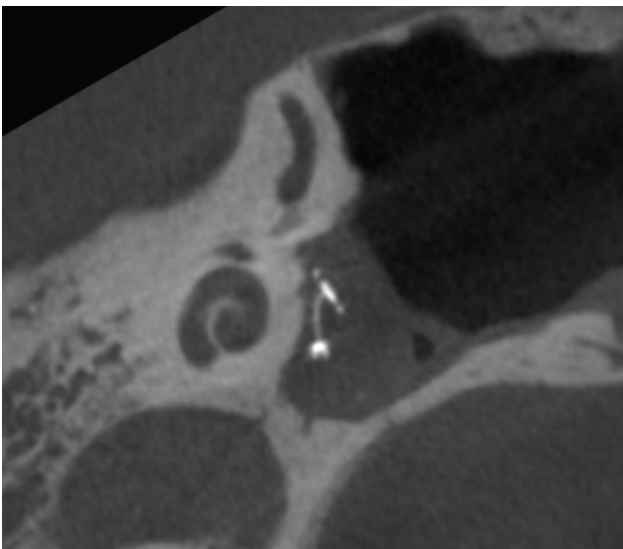
General comments

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

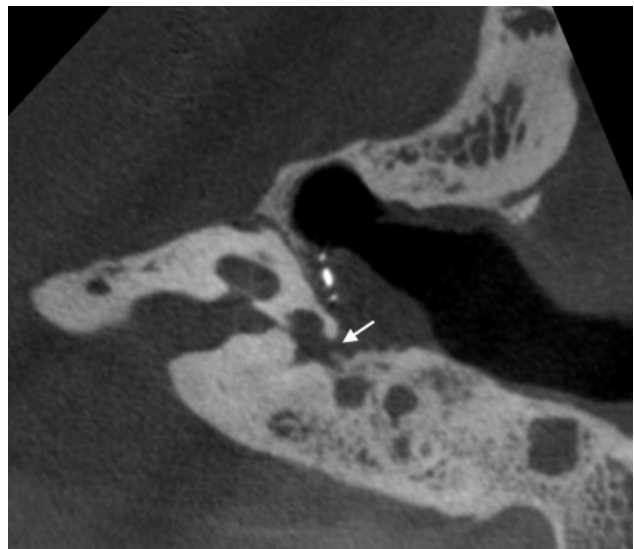
Total ossicular replacement prosthesis (TORP) dislocation

Acquisition protocol	20s DCT Head Micro
Injection protocol	N/A

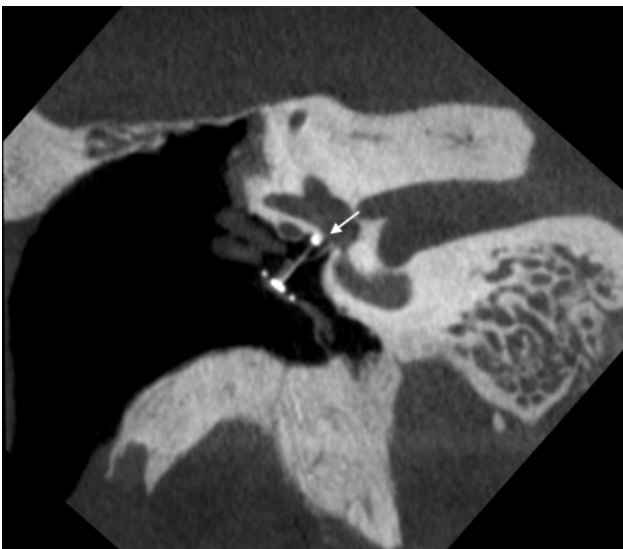
Reconstructions	DynaCT Micro
Name	DynaCT Micro
VOI size	Manual 47 mm × 47 mm × 35 mm
Slice matrix	512 × 512
Kernel type	HU
Image characteristics	Normal
Reconstruction mode	Nat fill
Viewing preset	DynaCT Head



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



Dislocated TORP without contact with the oval window (indicated by arrow)



Sample image of a TORP correctly positioned in the oval window (indicated by arrow)

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