Surgery of the basal turn ossification

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Ossification of the descending part of the basal turn

Our Experience:

3000 CTs of deaf patients
77 cases of ossification
61 – basal turn ossification (79.2%)
Our data

Cochleostomy common site

“U-turn” The change of descending to ascending portion of the basal turn

1- site of the round window membrane

U-turn to RW membrane distance is $8 \pm 0.6$ mm.

Distance between cochleostomy common site and U-turn point is $-5.9 \pm 0.4$ mm.
Cochleostomy controversies

- Different sites: anterior, anterior-inferior, RW widening

- Variability of the hook region

- Ossification more than 2-3 mm
Cl in basal turn ossification

• Drill from the RW
• Follow the scala
• Use color difference as the main landmark
• Myths of Cl:
  ✓ cochleostomy can bypass the ossification area
  ✓ in any case of ossification shorter electrode is needed – IT IS WRONG for descending part of the basal turn ossification! Use the STANDARD!
Cl in basal turn ossification
Case report
Case report

Now the patient is left-side implant user
Thank you for your attention!

Photo – courtesy of Prof. H. Rask-Andersen