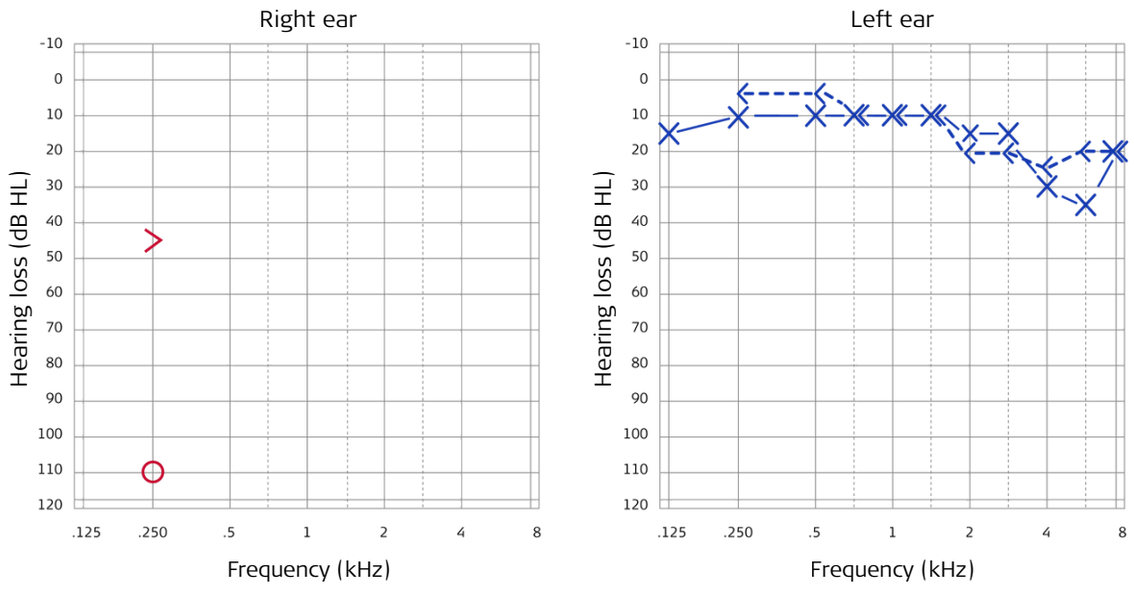
Patient case

Single-sided deafness – When directional hearing becomes possible again

1 Preoperative audiogram



2 Patient & Etiology

- male, 53 years old
- Deafness following sudden hearing loss in the right ear
- Severe sensorineural hearing loss
- Stapedius reflex, ABR and imaging reveal cochlear pathology
- No improvement after several months despite standard therapy

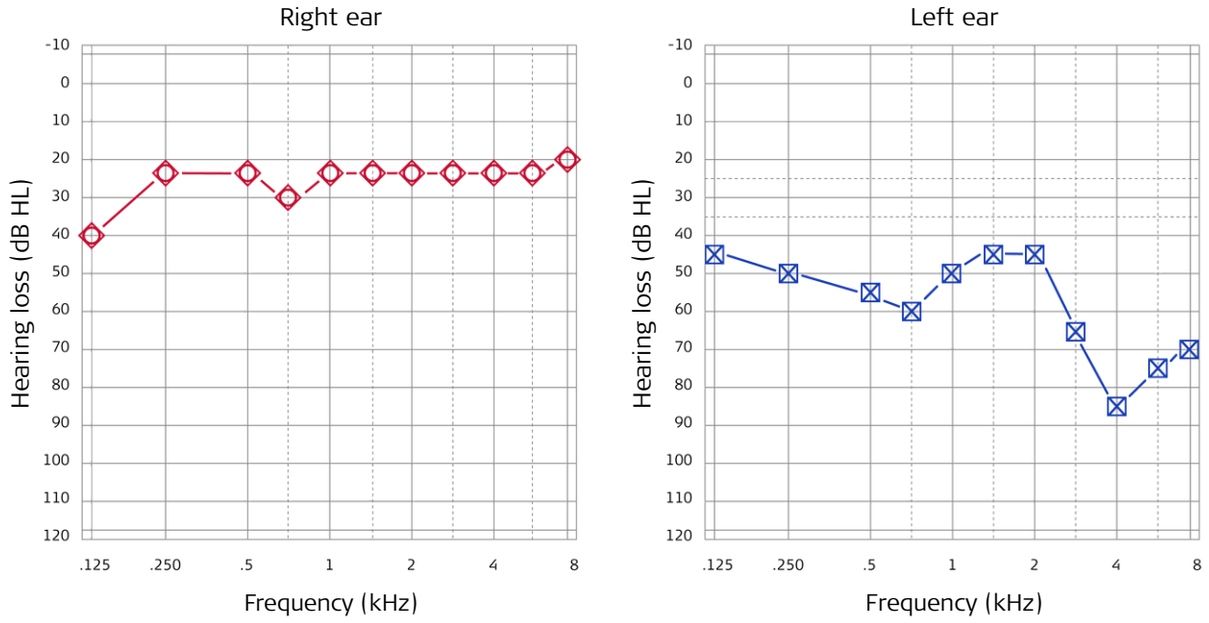
3 Temporary hearing aid

- CROS hearing aid (Contralateral Routing of Signal)
  - Inability to localize sounds
  - Increased listening effort

4 Hearing care

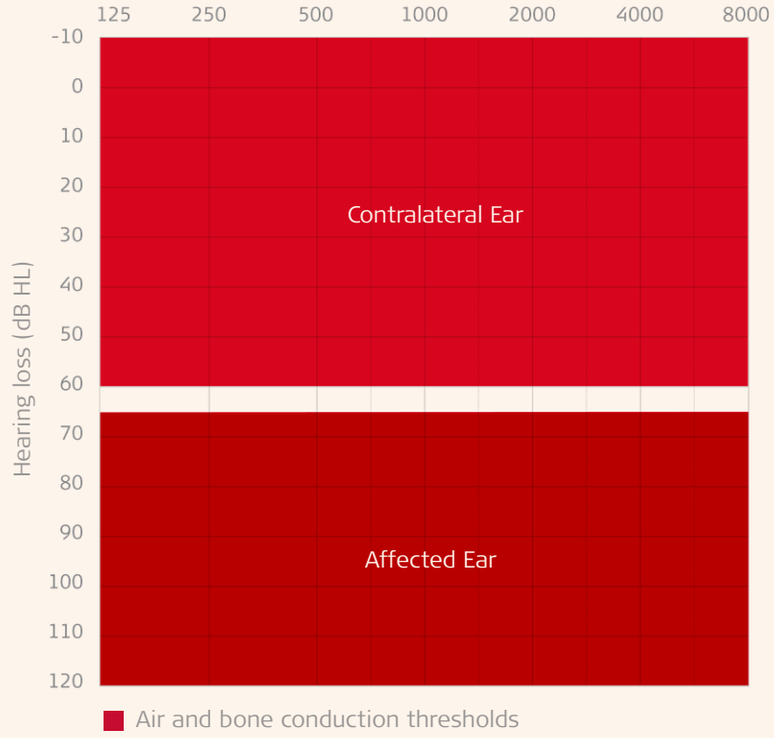
Cochlear implant on the right

Pure Tone audiogram 1 week after initial activation



First measurement on the right with cochlear implant, on the left with hearing protection headphones.
Second measurement: right side unplugged, left side with hearing protection headphones.
The damping curve demonstrates good performance with the CI.

Indication criteria for cochlear implants in unilateral deafness



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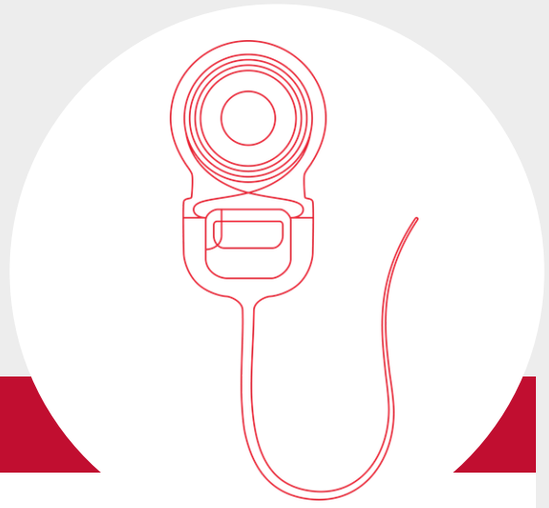
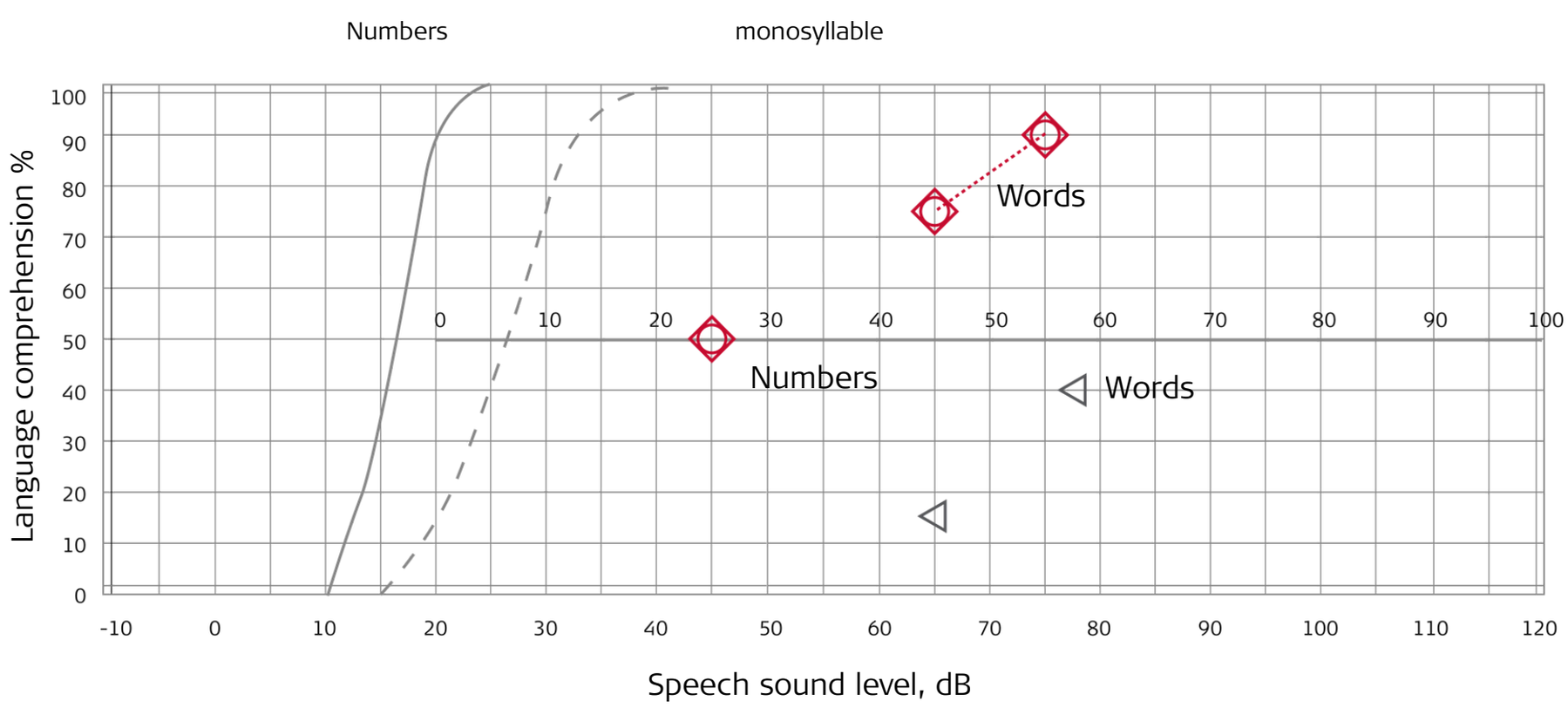
Patient case

Unilateral deafness – When directional hearing becomes possible again



5 Postoperative Audiogram

Speech audiogram 3 months post-operatively including attenuation values



◁ Word recognition on the right without headphones,
on the left with hearing protection headphones

Attending physician:

Patients with unilateral deafness can usually return to their jobs fully thanks to cochlear implants, without excessive strain on their hearing or a decline in performance. Furthermore, it alleviates their fear of losing their other ear.

I recommend that my colleagues in private practice suggest a cochlear implant to their patients who are deaf on one side!

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