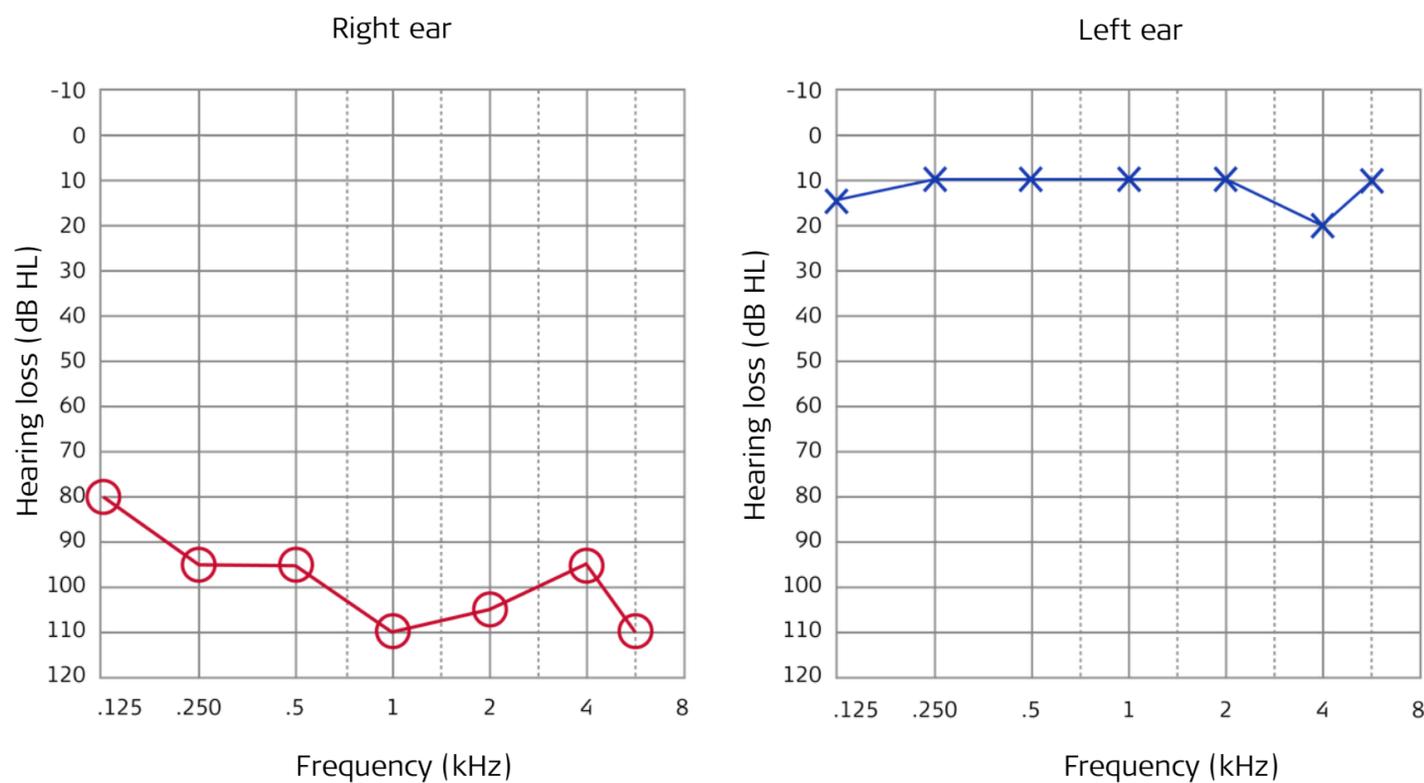




# Single-sided deafness following a fall

## 1 Preoperative audiogram



## 2 Patient

- Male, 58 years
- Banker, amateur musician, sound engineer

### Fall – Multiple Injuries:

- Temporal bone fracture, traumatic brain injury
- Radial fracture of the wrist
- Cerebrospinal fluid leak from nose and right ear
- Contusion hemorrhage, subarachnoid hemorrhage
- Tinnitus and deafness in right ear

## 3 Initial hearing treatment

- 4 months post-injury:
- CROS hearing aid (Contralateral Routing of Signal)
    - Inability to localize sounds
    - Persistent tinnitus remains



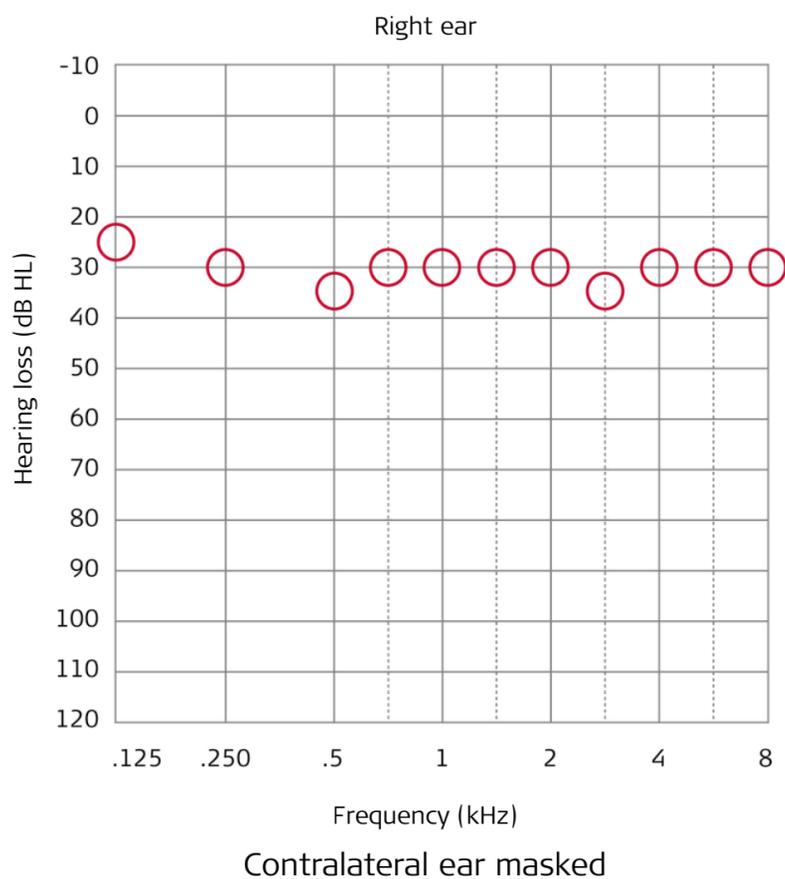


# Single-sided deafness following a fall

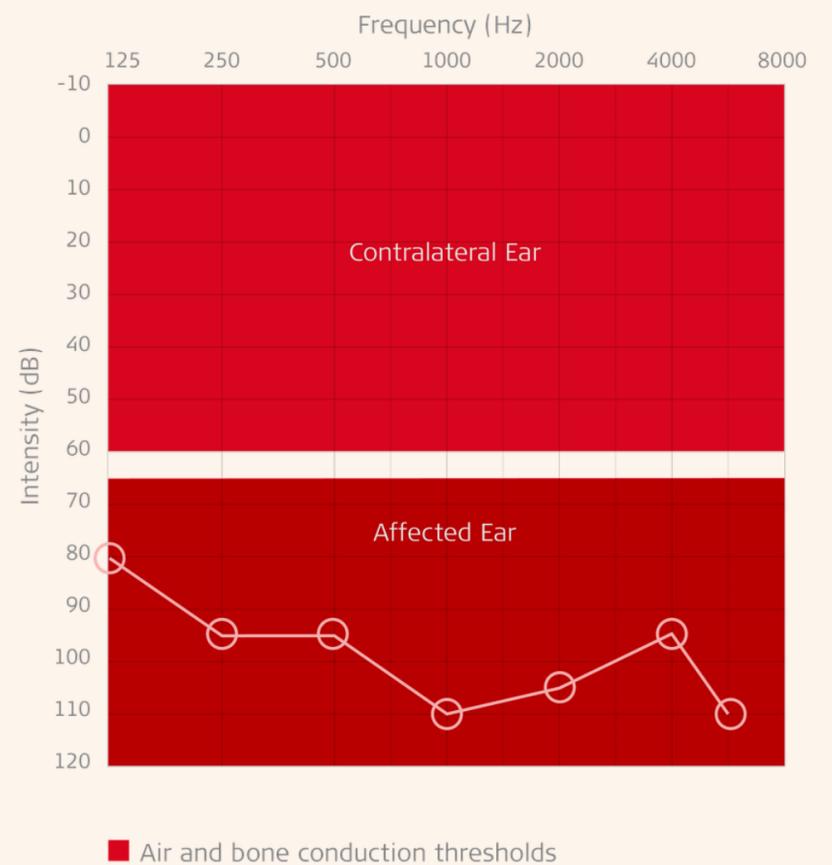
## 4 Hearing rehabilitation

22 months after accident:  
Cochlear Implant Surgery

Pure tone audiometry with cochlear implant:  
10 months postoperative



Indications for Cochlear Implantation in Single-Sided Deafness (SSD)



## 5 Outcome 10 months postoperative

- Significant improvement in speech understanding and sound quality
- Spatial hearing restored
- Reduced tinnitus
- Self-training rehabilitation with music and speech

## 6 Patient

*I am really happy with my cochlear implant and the bilateral hearing I regained. Plus, my tinnitus has decreased.*

*Speech, communication and music have become much better and more balanced again.*