


Roger NeckLoop: improved speech understanding for non-Phonak hearing aids*

Despite advanced hearing aid technology and custom settings, **following a conversation in background noise is sometimes still a challenge** for many hearing aid users.

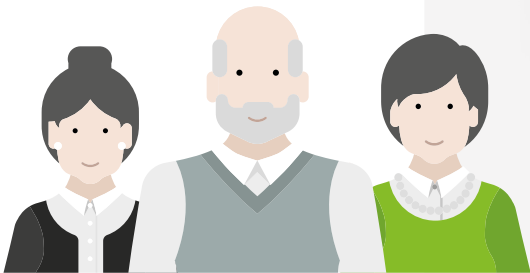
► Roger technology can be a solution.

- **Roger technology:**
- Digital adaptive microphone technology that wirelessly transmits a speaker's voice directly to a listener's hearing aids via a Roger receiver
 - Compatible with virtually any hearing aid or cochlear implant with a t-coil



Understand the improvement of speech intelligibility and subjective preference using a Roger system with non-Phonak hearing aids in background noise

- **14** participants
- Average age: **55**
- Mild to moderate hearing loss
- Fitted with 1 pair of Phonak and 2 pairs of non-Phonak hearing aids with t-coil



Equipped with a Roger system:

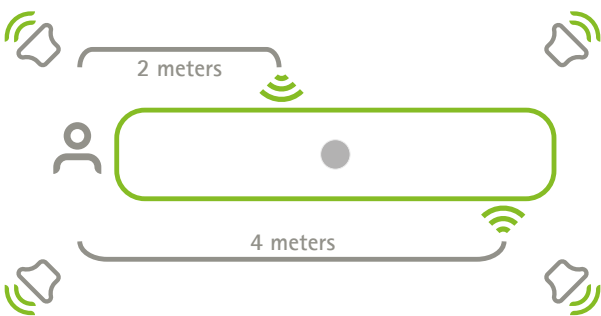


Roger NeckLoop



Roger Table Mic II

Setting: lab situation simulating complex workplace listening environment



- Level of target speech: 65 dB
- Level of background noise: 60 dB
- Target speech: HINT sentences randomly played from loudspeakers

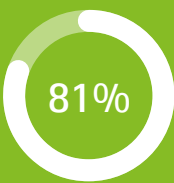
1 Objective measurement of speech intelligibility

2 Subjective preference of listening condition

1 Roger plus hearing aids vs. hearing aids only: **speech intelligibility improved from 27% to 81%**



With hearing aids alone



With hearing aids and Roger system

2 100% of participants preferred Roger plus hearing aids vs. hearing aids alone

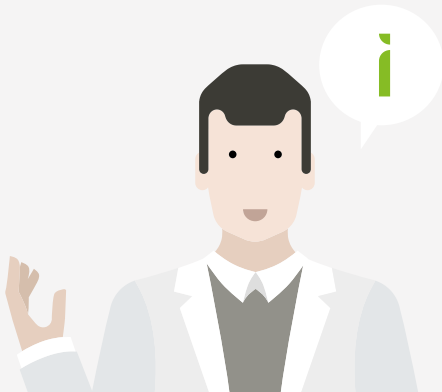


Preferred Roger system



Considerations for practice

- Regardless of which brand of hearing aids your clients wear, **Roger can help improve their hearing outcomes** in noise and over distance.
- **Demonstrating Roger in the clinic** is a great way to **show clients the benefit** they will experience in real-world listening environments.
- Use **Roger NeckLoop with headphones** to allow friends and family to experience a **Roger demo** alongside your clients.



*Lejon, A., & Smith, C. (2021). Speech improvement using Roger NeckLoop with different brands of hearing aids. Phonak Field Study News, retrieved from www.phonakpro.com/evidence, accessed March 20th, 2021.