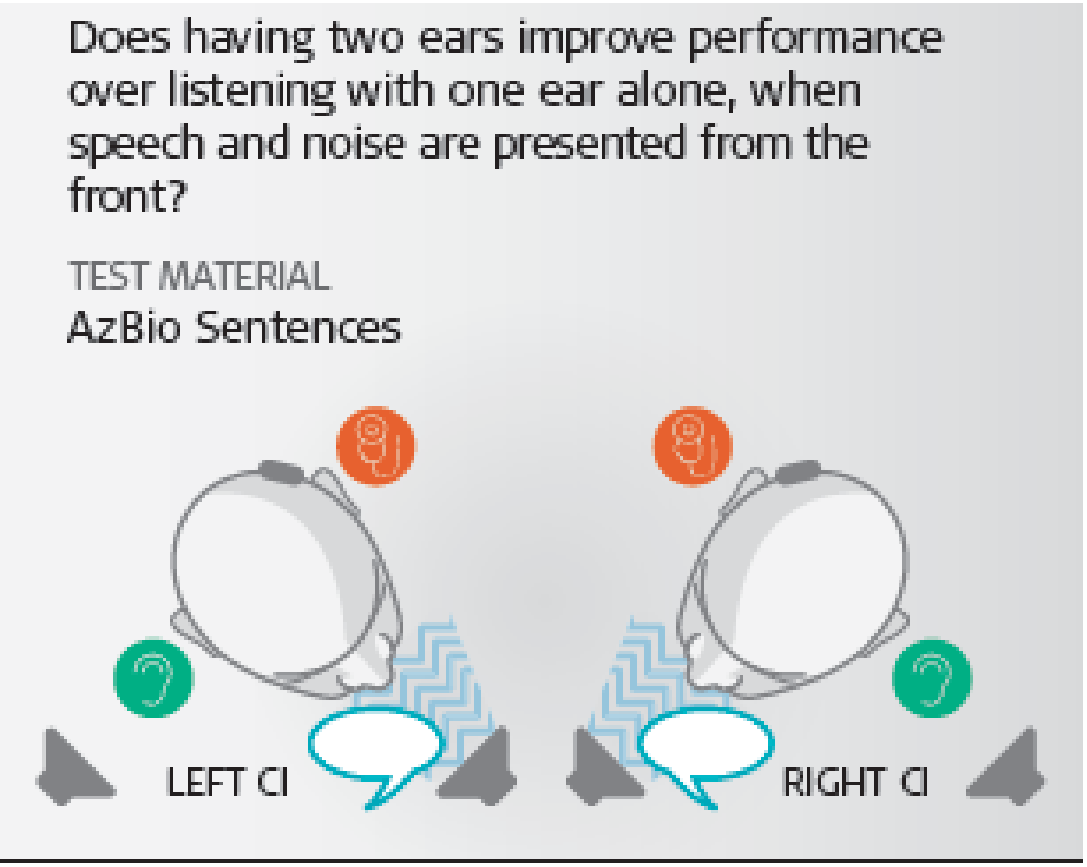
Binaural Summation

A function of central auditory processing in which the listener perceives increased sound intensity when both ears are presented with a similar signal versus either ear alone.



Summation is assessed by:

- Speech front, noise front with CI on
- Speech front, noise front with CI off
- Benefit is quantified as amount of improvement with CI on

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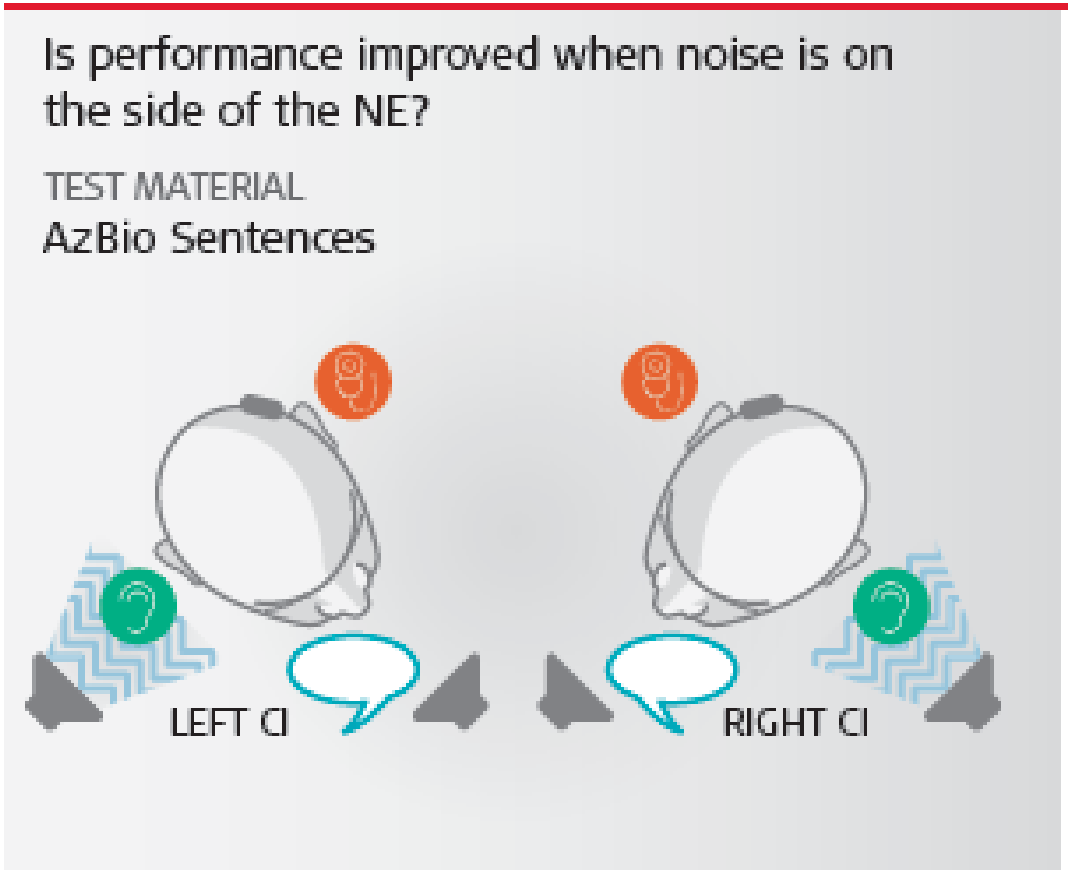
Head Shadow Benefit

Head shadow occurs when the mass of the head creates an acoustic shadow preventing sound presented on one side from reaching the opposite side.



The Head Shadow Effect is assessed by:

- Speech front, noise to NE with CI on
- Speech front, noise to NE side with CI off
- Benefit is quantified as the amount of improvement with the CI on

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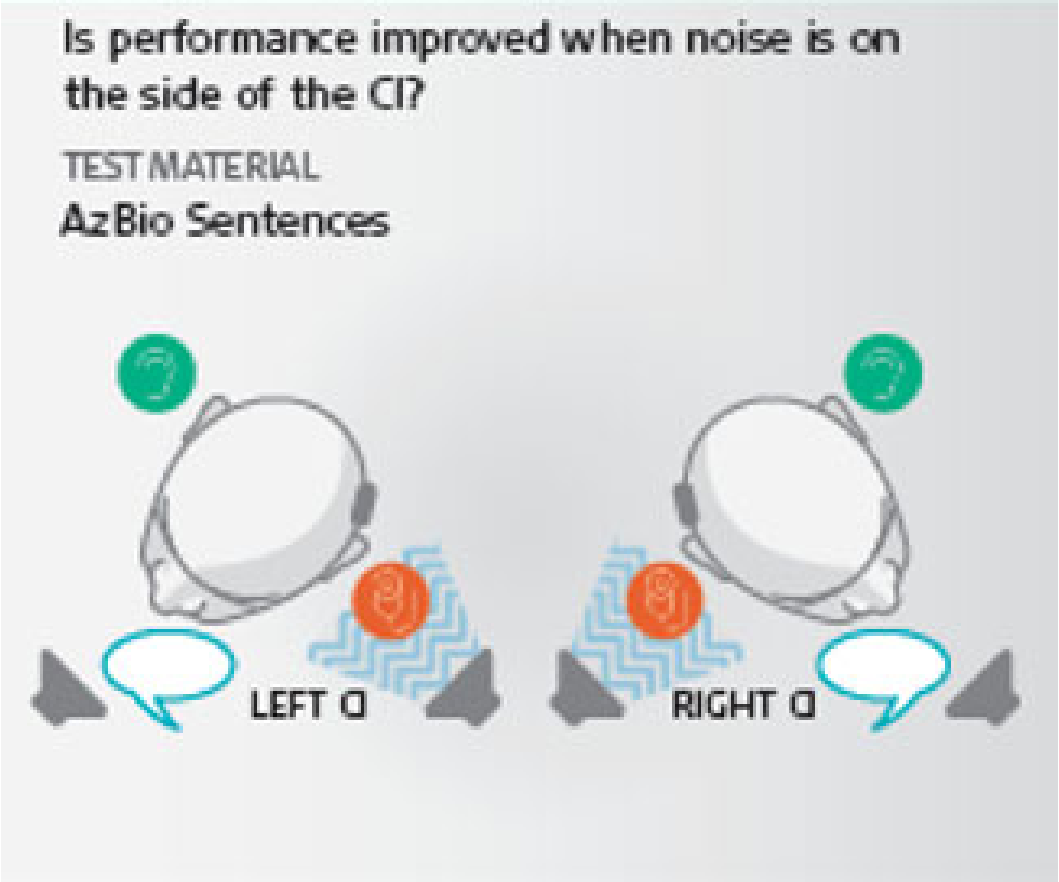
Squelch

Requires central auditory processing to differentiate meaningful sound from background noise by comparing input from both sides.



Squelch is assessed by:

- Speech front, noise to CI side with CI on
- Speech front, noise to CI side with CI off
- Benefit is quantified as the amount of improvement with the CI on

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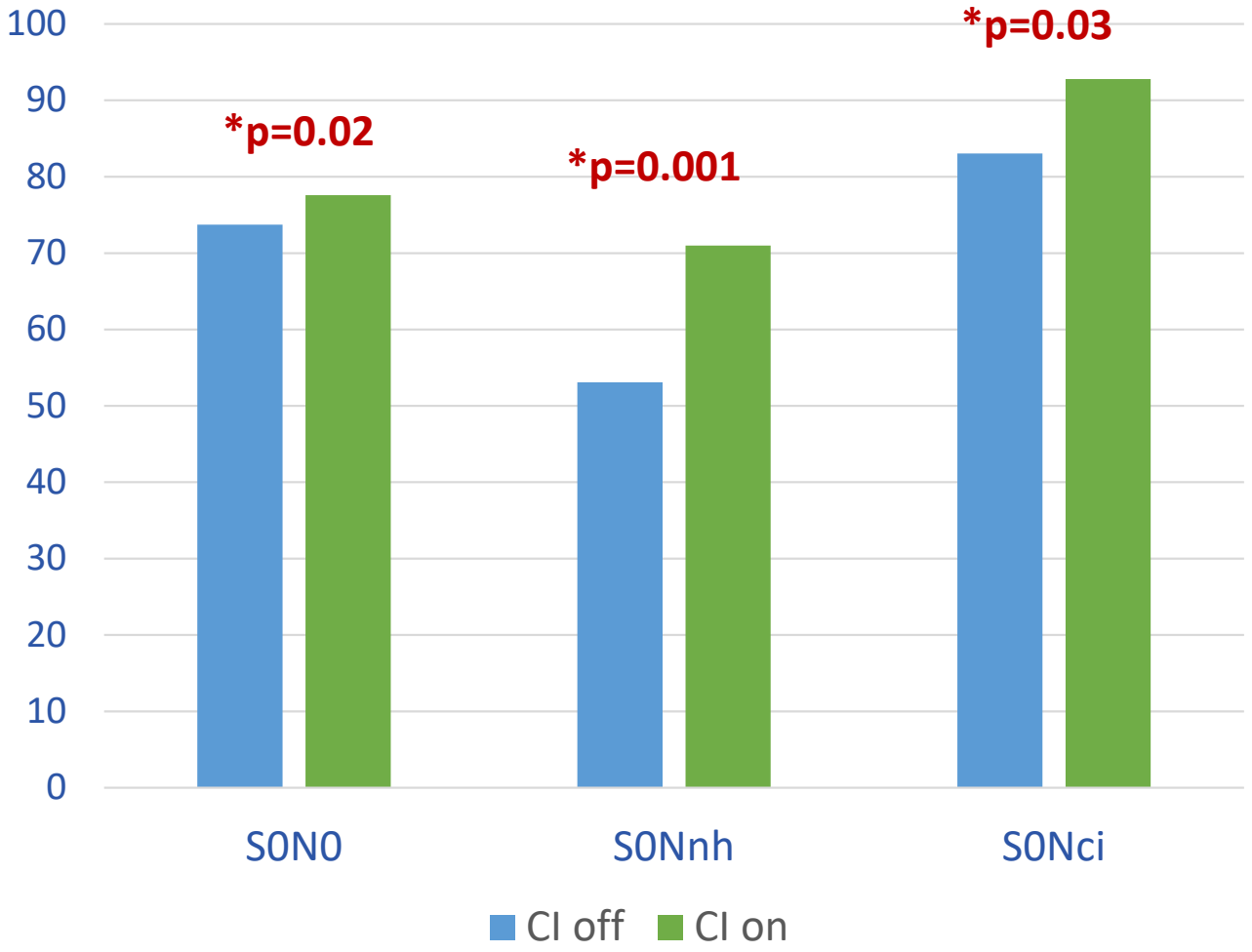
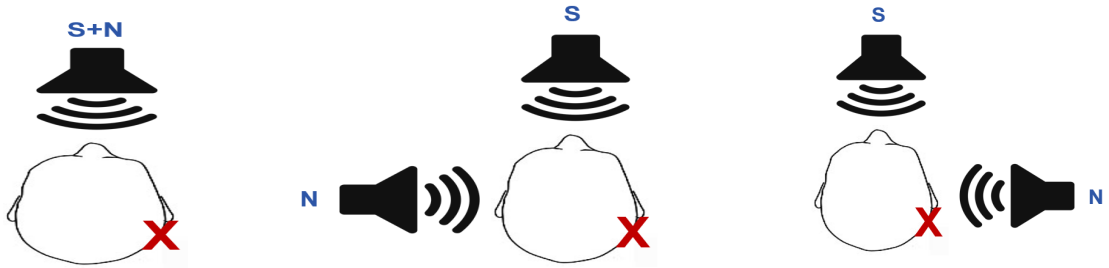
This document is part of a presentation and is incomplete without oral explanation. © MED-EL

Spatial Hearing





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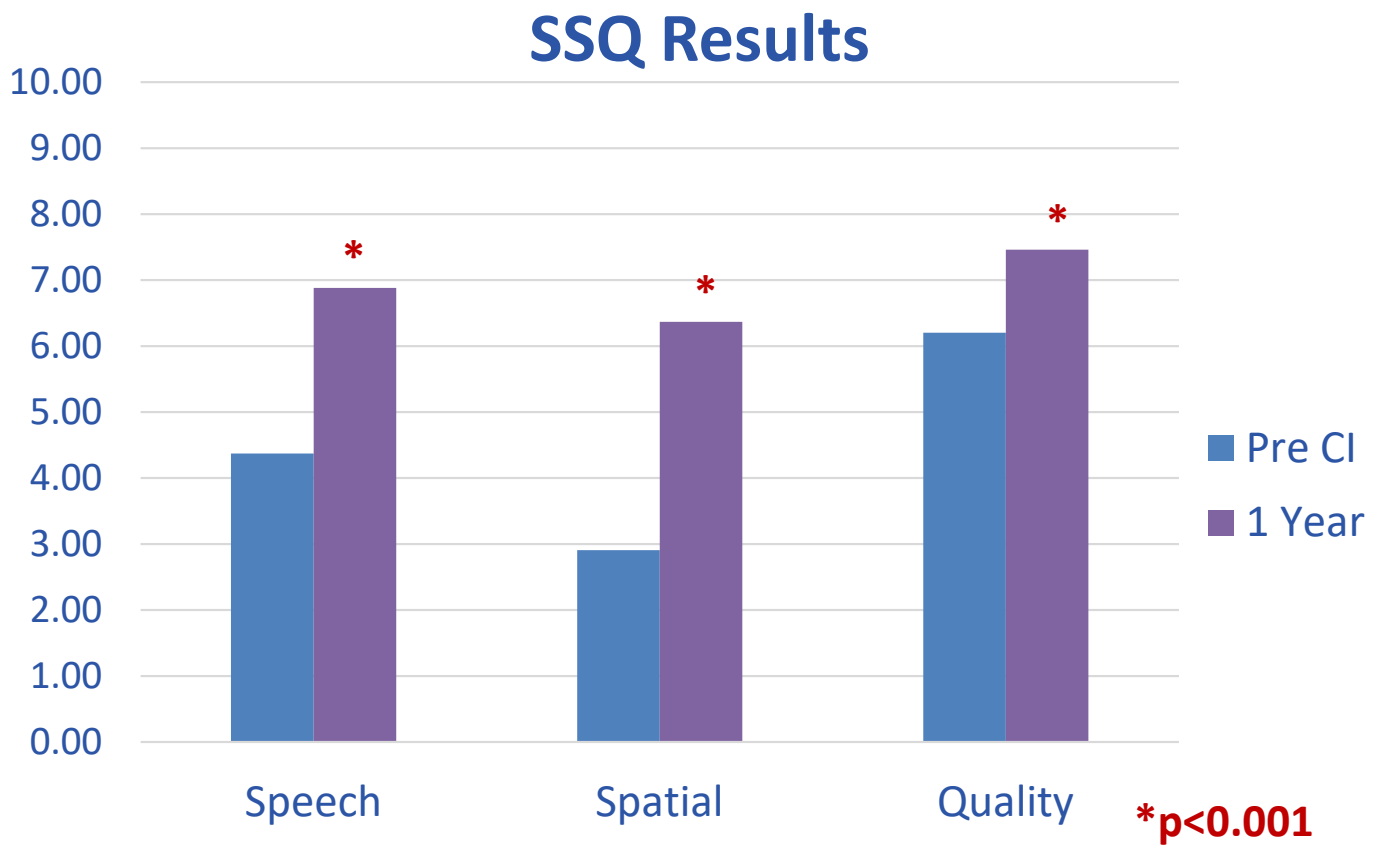
Speech, Spatial, Qualities Questionnaire



*p<0.001

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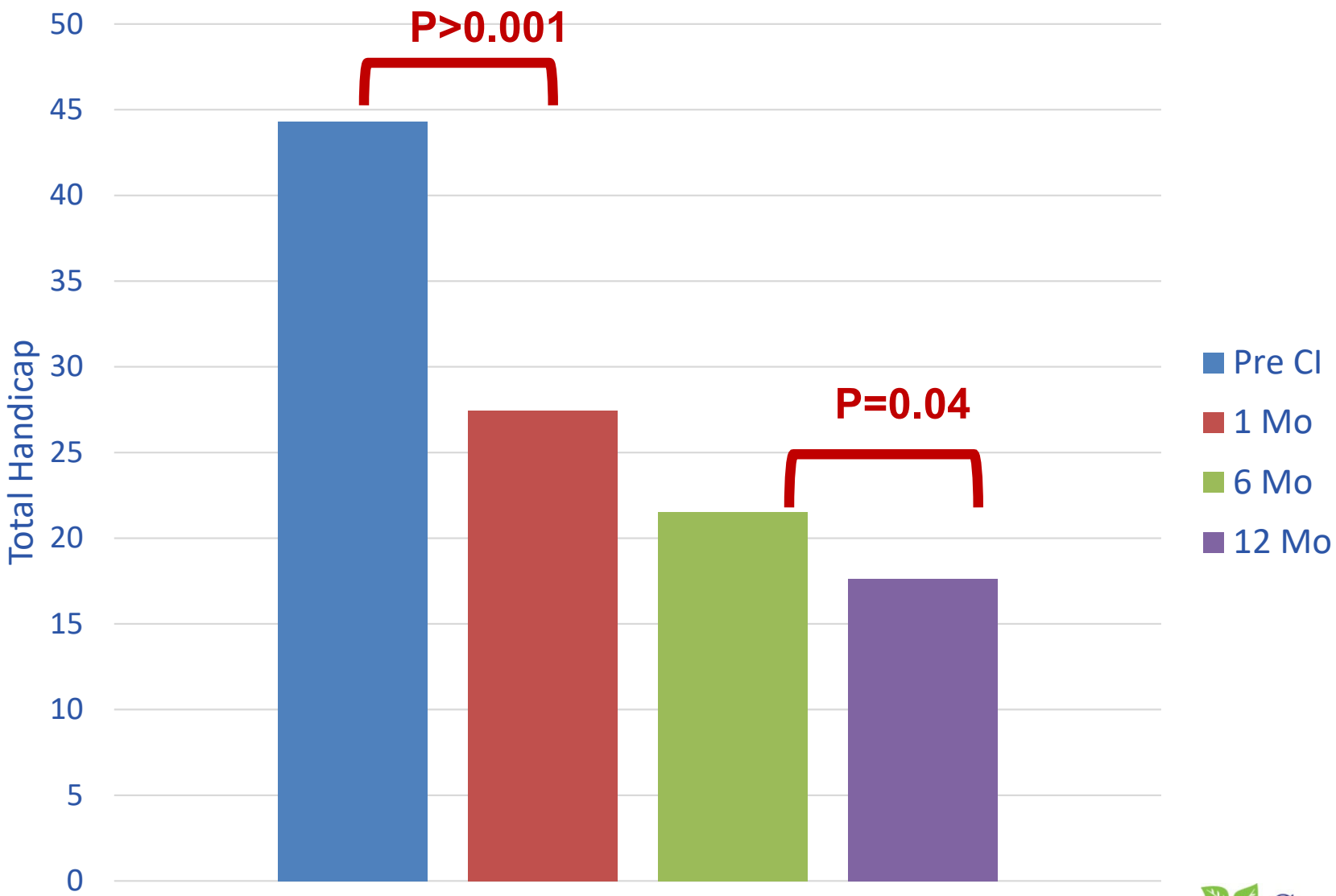
Tinnitus Handicap Inventory



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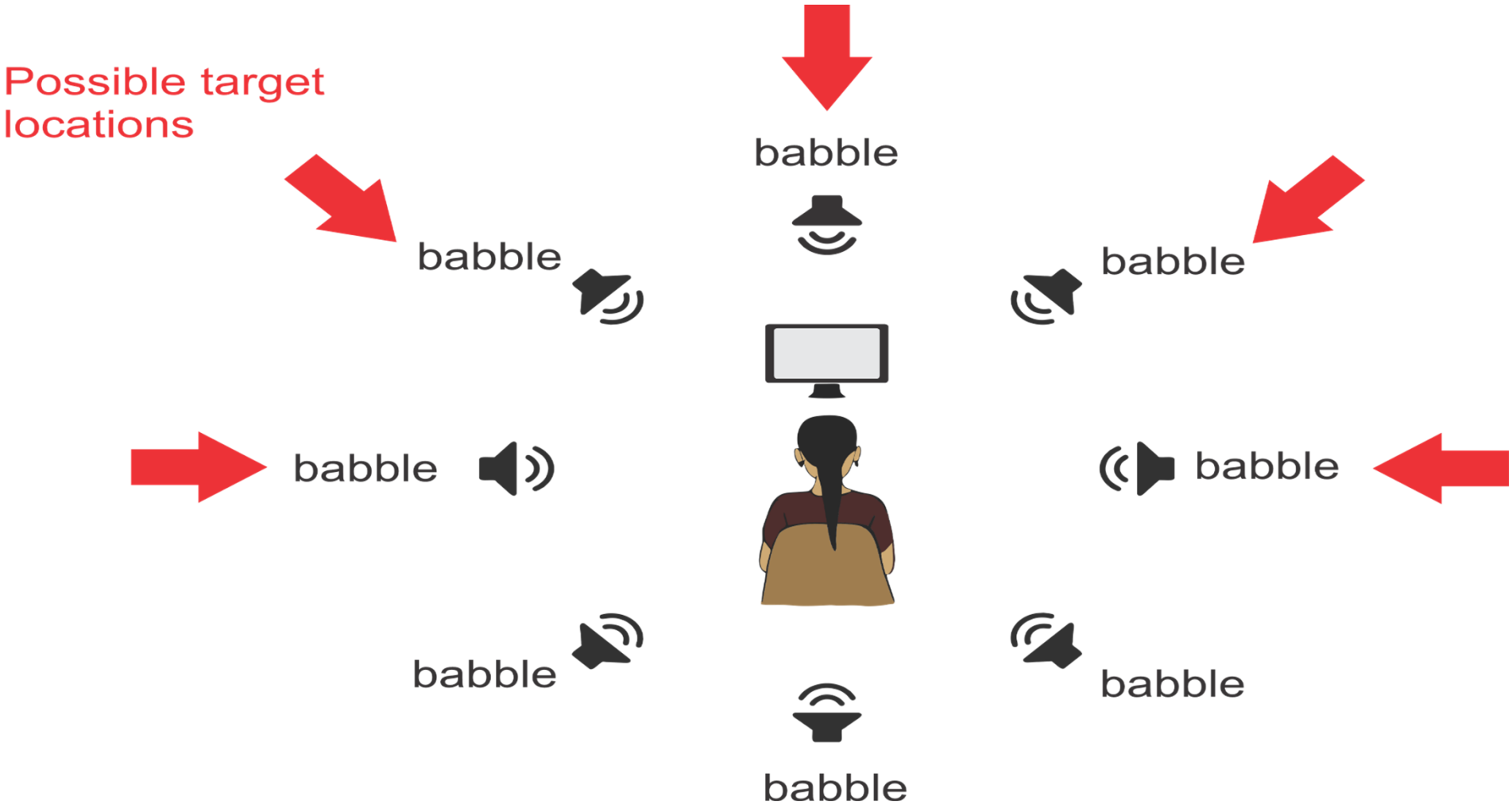
Listening Effort



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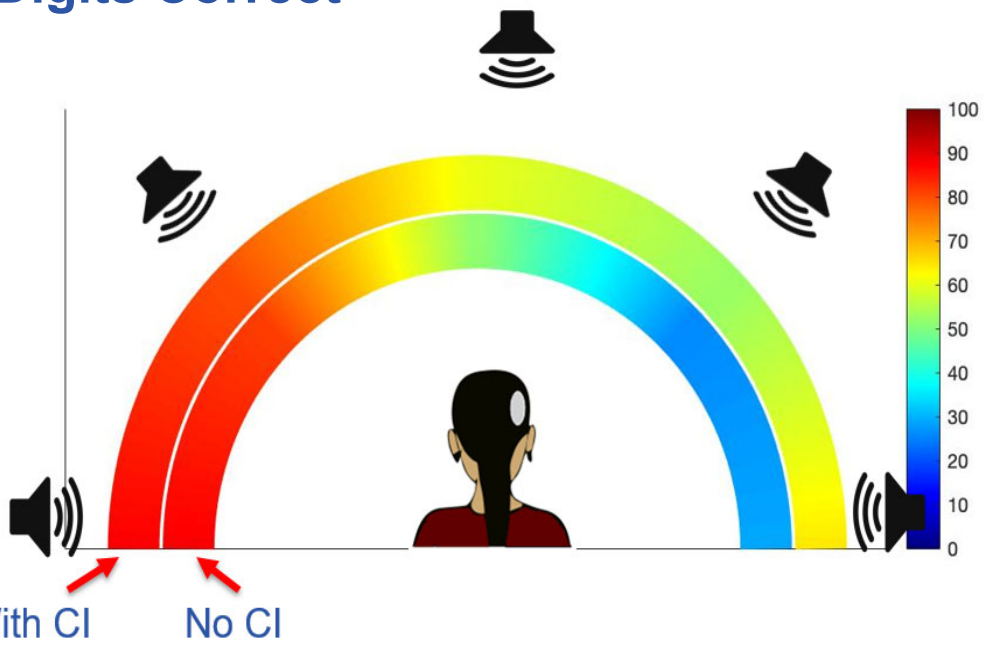
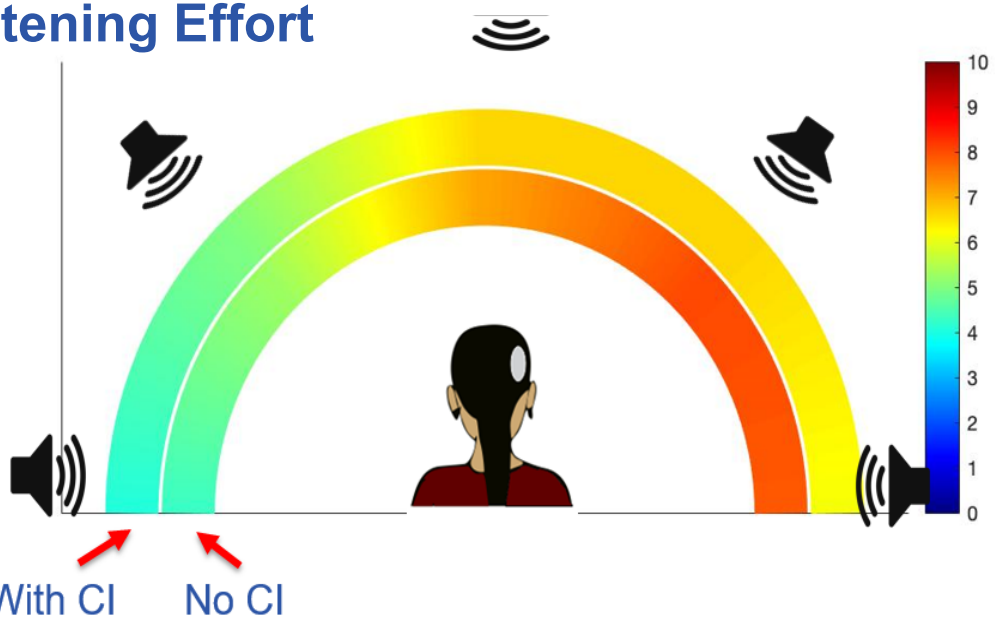
Hearing Performance and Listening Effort

Digits Correct



Listening Effort



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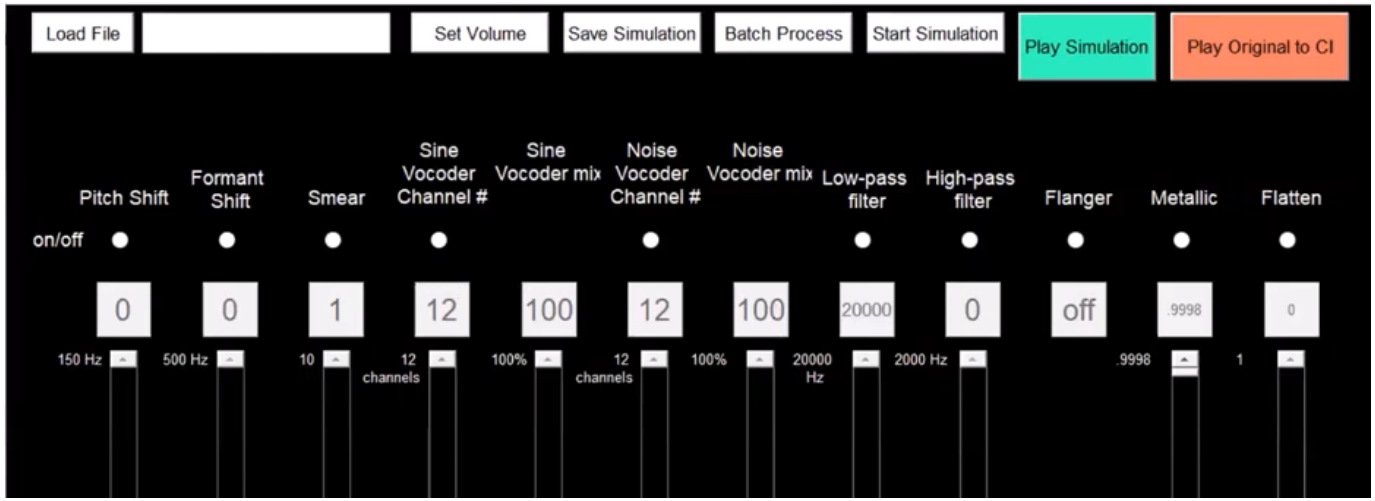
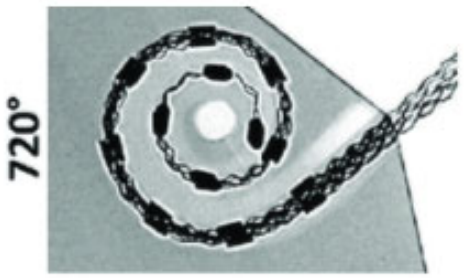
What Does a Cochlear Implant Sound Like?

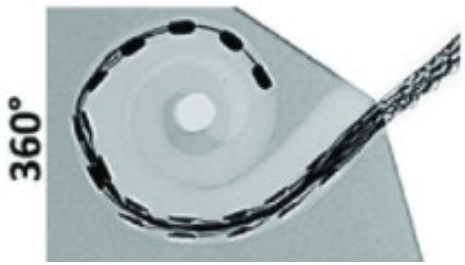
Experimenter's console



Do you like camping?

The sun is finally shining.





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Conclusion

The provision of cochlear implants for SSD has been proven to be a successful treatment option to restore the benefits of binaural sound processing

- better localization for most but not all – not to the same degree as natural hearing
- more balanced sound – improved listening effort
- Improved listening in noise but still challenging
- Improved hearing in the implant ear but not to the level of the normal ear (AzBio ranges 0%-98%)
- Potential of tinnitus suppression
- Need for longer term rehab.
- Importance of consistent use

Questions?

Contact - Contact@CanadianAudiology.ca

Webinar recording, and PDF will be posted to the CAA website within a few business days.

For those attending this session live you will receive a thank you for attending email. That is your record of attendance and CEU.

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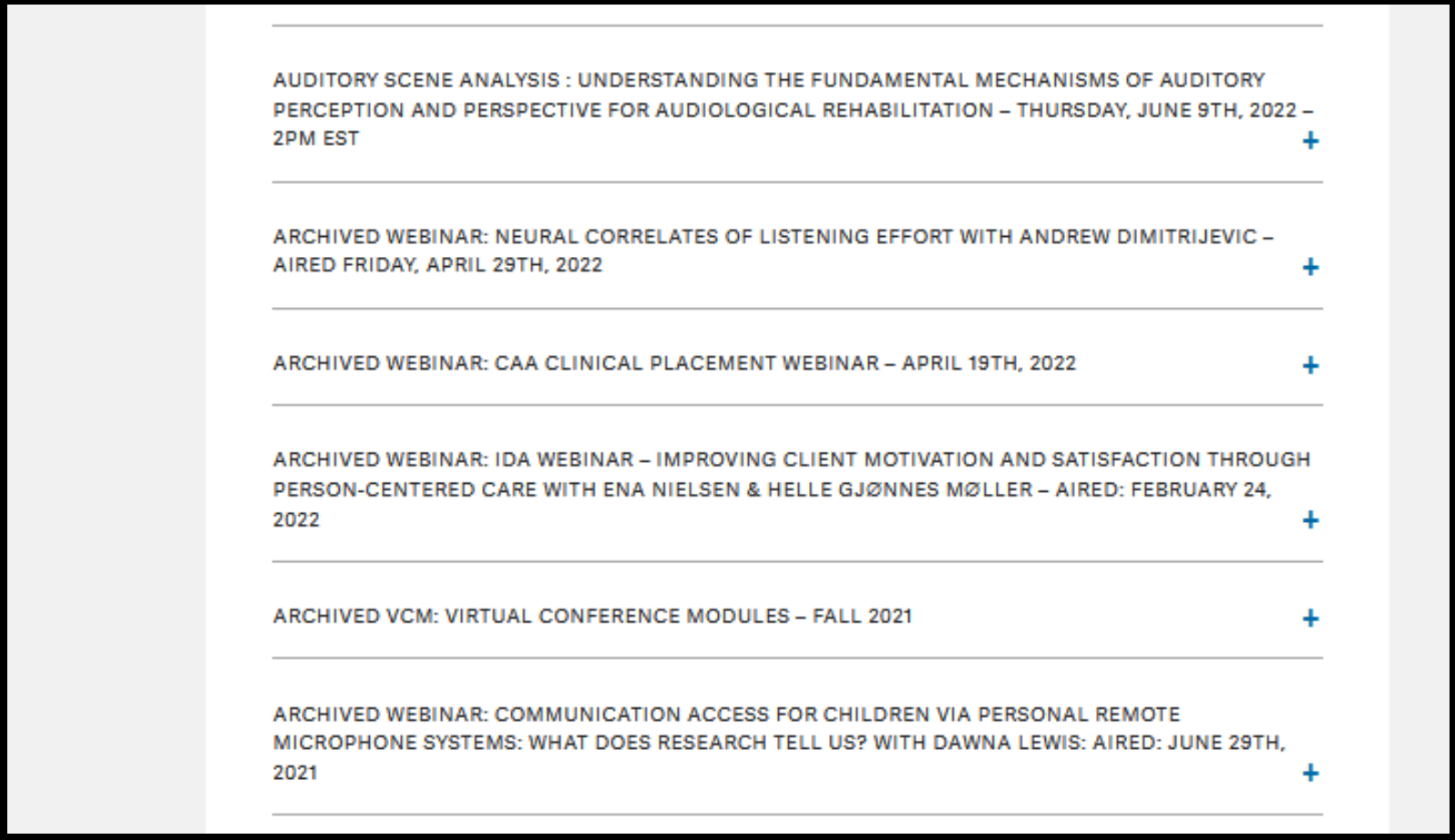

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Thank You