

COCHLEAR IMPLANTS

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How is a Cochlear implant different to a hearing aid?



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Hearing Aids

- Hearing aids improve hearing by amplifying sound.

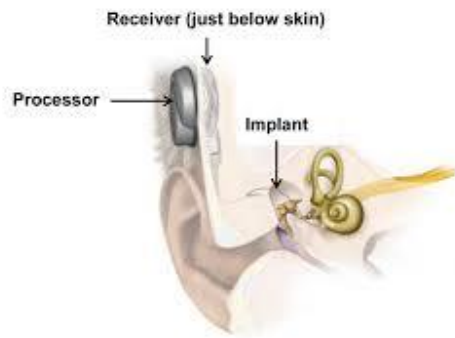


How does a Cochlear implant work?

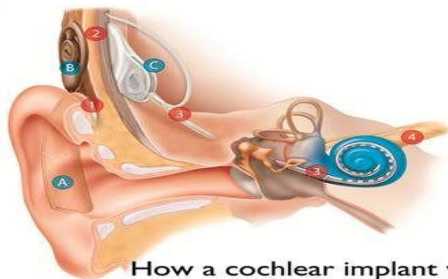
- Unlike a hearing aid which make sounds louder, a cochlear implant does not just amplify sound.
- A Cochlear implant directly stimulates the hearing nerve fibres directly



- Cochlear implant system has both an external and internal part



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How a cochlear implant works

1. The sound processor (A) captures sound and converts it into digital code.
2. The sound processor transmits the digitally coded sound through the coil (B) to the implant (C) just under the skin.
3. The implant converts the digitally coded sound to electrical signals and sends them along the electrode array, which is positioned in the cochlea.
4. The implant's electrodes stimulate the cochlea's hearing nerve fibres, which relay the sound signals to the brain to produce hearing sensations.

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How do Cochlear Implants work?

- <https://www.cochlear.com/au/home/understand/hearing-and-hl/hl-treatments/cochlear-implant>

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Cochlear Implant Candidacy

Many people suffer hearing loss because the hair cells in the inner ear are damaged.

Cochlear implants can help people who:

- Have moderate to profound hearing loss in both ears or have profound hearing in one ear.
- Receive little or no benefit from hearing aids.

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Cochlear Implant Stories

- www.ridbc.org.au/CochlearImplantStories
- <https://www.youtube.com/watch?v=wqpiCY9ytEQ>
- <https://www.youtube.com/watch?v=s-DvHvj00xk>
- www.ridbc.org.au/slideshow/victorias-cochlear-implant-journey



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Elsie's Cochlear Implant Switch On! Today Tonight



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Victoria's Cochlear Implant Story



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Cochlear Mini Mic

- Cochlear™ Wireless Mini Microphone 2 & 2+ are designed to give CI recipients the freedom to hear more clearly no matter where they are.
- The Mini Microphones extend the hearing range well beyond the reach of their Speech processor.



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Cochlear Mini Microphones

- The Mini Microphones optimize signal-to-noise ratio in settings ranging from lecture halls to one-on-one conversations
- The portable wireless clip-on microphone is used to transmit speech and sound directly to the sound processor without the need for any extra devices – no cables, cords or necklaces.



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Other Benefits of Mini Mic

- Being able to go to noisy places like restaurants
- Being able to keep up with conversations
- Having the freedom to sit where you like at school or at a meeting (25- metre range)
- Provides complete connectivity (Bluetooth, telecoil, audio-jack)



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Charging Cochlear Mini Mic 2+

- Mini Mic 2 Charging
- <https://www.youtube.com/watch?v=SoJliCTB4JA&app=desktop#fauxfullscreen>

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Cochlear Implant Product Information

- <https://www.cochlear.com/au/home/discover/cochlear-implants>
- http://www.hearyourway.com/wps/wcm/connect/au/n7/home?gclid=EA1aIQobChMIlqeM_cqc1wIViAsrCh2x3QNiEAAYAiAAEgKlrfD_BwE
- www.medel.com/au/

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