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Cochlear Implants

A cochlear implant is a small, complex electronic device that can help to provide a sense of sound. People who are profoundly deaf [<https://medlineplus.gov/hearingdisordersanddeafness.html>] or severely hard-of-hearing can get help from them. The implant consists of two parts. One part sits on the outside of the body, behind the ear. A second part is surgically placed under the skin.

An implant does not restore normal hearing. It can help a person understand speech. Children and adults can benefit from them.

National Institute on Deafness and Other Communication Disorders


Start Here

- Cochlear Implants [<https://www.fda.gov/medical-devices/implants-and-prosthetics/cochlear-implants>] (Food and Drug Administration)
- Cochlear Implants [<https://www.nidcd.nih.gov/health/cochlear-implants>]  (National Institute on Deafness and Other Communication Disorders)
Also in Spanish [<https://www.nidcd.nih.gov/es/espanol/implantes-cocleares>]

Related Issues

- Benefits and Risks of Cochlear Implants [<https://www.fda.gov/medical-devices/cochlear-implants/benefits-and-risks-cochlear-implants>] (Food and Drug Administration)

Videos and Tutorials

- Hearing and the cochlea [<https://medlineplus.gov/ency/anatomyvideos/000063.htm>]  (Medical Encyclopedia)
Also in Spanish [<https://medlineplus.gov/spanish/ency/anatomyvideos/000063.htm>]

Statistics and Research

- Quick Statistics about Hearing [<https://www.nidcd.nih.gov/health/statistics/quick-statistics-hearing>]  (National Institute on Deafness and Other Communication Disorders)



Journal Articles

References and abstracts from MEDLINE/PubMed (National Library of Medicine)


- Article: Cochlear implant re-mapping informed by measures of viability of the electrode-neural... [<https://www.ncbi.nlm.nih.gov/pubmed/40739146>]
- Article: Computationally Efficient Impact Estimation of Coil Misalignment for Magnet-Free Cochlear Implants. [<https://www.ncbi.nlm.nih.gov/pubmed/40732507>]
- Article: An fNIRS dataset for Multimodal Speech Comprehension in Normal Hearing Individuals... [<https://www.ncbi.nlm.nih.gov/pubmed/40715172>]

Cochlear Implants -- see more articles [<https://pubmed.ncbi.nlm.nih.gov/?term=%22Cochlear+Implants%22%5Bmajr%3Anoexp%5D+AND+humans%5Bmh%5D+AND+english%5Bla%5D+AND+%22last+1+Year%22+%5Bedat%5D+NOT+%28letter%5Bpt%5D+OR+case+reports%5Bpt%5D+OR+editorial%5Bpt%5D+OR+comment%5Bpt%5D%29+AND+free+full+text%5Bsb%5D+>]

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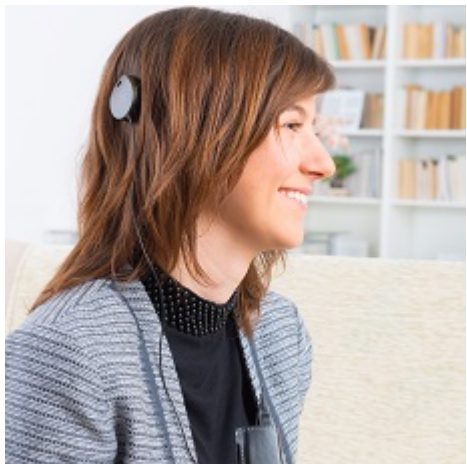
- Directory of Organizations [<https://www.nidcd.nih.gov/directory>]
 (National Institute on Deafness and Other Communication Disorders)
- Find an Audiologist [<https://members.audiology.org/cvweb/cgi-bin/memberdll.dll/info?wrp=find-an-audiologist.htm>]
(American Academy of Audiology)
- National Institute on Deafness and Other Communication Disorders [<https://www.nidcd.nih.gov>] 

Children

- Cochlear Implant (For Parents) [<https://kidshealth.org/en/parents/cochlear-implant-animation.html>]  (Nemours Foundation)
- Cochlear Implants (For Parents) [<https://kidshealth.org/en/parents/cochlear.html>] (Nemours Foundation)
- Vaccines and Cochlear Implants [<https://kidshealth.org/en/parents/cochlear-immunizations.html>] (Nemours Foundation)
Also in Spanish [<https://kidshealth.org/es/parents/cochlear-immunizations.html>]

Patient Handouts

- Cochlear implant [<https://medlineplus.gov/ency/article/007203.htm>] (Medical Encyclopedia)
Also in Spanish [<https://medlineplus.gov/spanish/ency/article/007203.htm>]



MEDICAL ENCYCLOPEDIA

- Cochlear implant [<https://medlineplus.gov/ency/article/007203.htm>]
- Hearing and the cochlea [<https://medlineplus.gov/ency/anatomyvideos/000063.htm>]

Related Health Topics

- Hearing Aids [<https://medlineplus.gov/hearingaids.html>]
- Hearing Disorders and Deafness [<https://medlineplus.gov/hearingdisordersanddeafness.html>]
- Hearing Problems in Children [<https://medlineplus.gov/hearingproblemsinchildren.html>]

The primary NIH organization for research on *Cochlear Implants* is the National Institute on Deafness and Other Communication Disorders [<https://www.nidcd.nih.gov/>]

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