

Clinical Policy: Cochlear Implant Replacements

Reference Number: LA.CP.MP.14

Revision Log

~~Date of Last Revision~~ ~~Date: 09/8/2020~~

Coding Implications

See [Important Reminder](#) at the end of this policy for important regulatory and legal information.

Description

This policy outlines medical necessity criteria for the replacement of cochlear implants and/or cochlear implant components. The cochlear implant has 4 basic components: a microphone, worn externally behind the ear, which picks up sounds; an external speech processor which converts sounds to electrical signals; a transmitter and receiver/stimulator which forward the signals; and implanted electrodes, which stimulate the fibers of the auditory nerve.⁶

Policy/Criteria

- I. It is the policy of Louisiana Healthcare Connections that **replacement** of a cochlear implant(s) and/or its external components (external speech processor, controller, etc.) is considered **medically necessary** when any one of the following is present:
 - A. The existing device(s) is no longer functional and cannot be repaired; ~~or~~
 - B. A change in the member/enrollee's condition makes the existing unit(s) inadequate for the hearing-related activities of daily living and improvement is expected with a replacement unit(s); ~~or~~
 - C. A sound processor replacement if the current processor is at least five years old.
- II. It is the policy of Louisiana Healthcare Connections that **replacement or upgrade** of an existing, properly functioning cochlear implant and/or its external components (external speech processor, controller, etc.) is considered **not medically necessary** when requested only for convenience or to simply upgrade to a newer technology.

Background

Sensorineural hearing loss, or nerve deafness, is a type of hearing loss that results from problems with the inner ear, related to the cochlea, eighth nerve, internal auditory canal, or brain. A common cause of hearing loss in adults is presbycusis, a progressive condition caused by the loss of function of hair cells in the inner ear.⁷ Severe to profound hearing loss in children most often is caused by genetics, prenatal, perinatal, or postnatal causes.⁵ A cochlear implant, an electronic device surgically placed under the skin, bypasses the hair cells and directly transmits sounds through multiple electrodes, which stimulate the auditory nerve.⁷ Once the auditory nerve is activated, signals are sent to the brain. The brain learns to recognize these signals and the person experiences this as hearing.²

Cochlear implants have been studied since the 1950s and were approved by the FDA in adults in the mid-1980s.^{2,5} National Institute of Health (NIH) scientists determined cochlear implants to be cost beneficial. ~~The cost of cochlear implantation, adjustments and training averages \$60,000 whereas the services, special education and adaptation related to a child that is deaf before age three costs more than \$1 million.~~

Recent studies have been conducted evaluating the use of bilateral cochlear implants compared to unilateral implants. -Many of these studies have shown that children obtained significantly higher hearing thresholds in the bilateral implants. -Speech recognition scores in quiet and noisy conditions were also improved in bilateral users. -Studies also have shown better scores on sentence and word recognition tests for bilateral users.¹

Very little data has been published comparing differences between bilateral cochlear implants and cochlear implant with a hearing aid on the opposite ear. -One small study showed improved localization abilities and speech perception scores for two former users of cochlear implant/hearing aid within the first 6 months after the second implant was activated. -However, performance showed a slight decline after 6 months of use. - Further studies are needed in this area to determine efficacy for bilateral cochlear implants in adults.¹

While evidence is increasing regarding the use of bilateral implants, bilateral implantation is not without problems. -Limited nerve survival that remains may be asymmetrical, resulting in an unnatural pattern of neural activity in stimulation with electrical pulses. -This asynchronous stimulation across devices might result in individual neural impulses which are unlikely to result in useful cues related to interaural differences. -Also, bilateral implantation doubles the risks associated with surgical intervention and is very costly.²

Coding Implications

This clinical policy references Current Procedural Terminology (CPT®). CPT® is a registered trademark of the American Medical Association. All CPT codes and descriptions are copyrighted 2019, American Medical Association. All rights reserved. CPT codes and CPT descriptions are from the current manuals and those included herein are not intended to be all-inclusive and are included for informational purposes only. Codes referenced in this clinical policy are for informational purposes only and may not support medical necessity. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

| CPT®* Codes | Description |
|------------------------------|-------------------------------|
| 69949 | Unlisted procedure, inner ear |

| HCPCS Codes | Description |
|------------------------------|---|
| L8615 | Headset/headpiece for use with cochlear implant device, replacement |
| L8616 | Microphone for use with cochlear implant device, replacement |
| L8617 | Transmitting coil for use with cochlear implant device, replacement |
| L8618 | Transmitter cable for use with cochlear implant device, replacement |
| L6819 | Cochlear implant, external speech processor and controller, integrated system, replacement |
| <u>L8621</u> | <u>Zinc air battery for use with cochlear implant device and auditory osseointegrated sound processors, replacement</u> |
| <u>L8622</u> | <u>Alkaline battery for use with cochlear implant device, any size, replacement</u> |

| HCPCS Codes | Description |
|-------------|--|
| L8623 | Lithium ion battery for use with cochlear implant device speech processor, other than ear level, replacement |
| L8624 | Lithium ion battery for use with cochlear implant device speech-processor, ear level replacement, each |
| L8627 | Cochlear implant, external speech processor, component, replacement |
| L8628 | Cochlear implant, external controller component, replacement |
| L8629 | Transmitting coil and cable, integrated, for use with cochlear implant device, replacement |

ICD-10-CM Diagnosis Codes that Support Coverage Criteria

| ICD-10-CM Code | Description |
|----------------|--|
| H90.3 | Sensorineural hearing loss, bilateral |
| H90.41 | Sensorineural hearing loss, unilateral, right ear, with unrestricted hearing on the contralateral side |
| H90.42 | Sensorineural hearing loss, unilateral, left ear, with unrestricted hearing on the contralateral side |
| H90.5 | Unspecified sensorineural hearing loss |
| Q85.00 | Neurofibromatosis, unspecified |
| Q85.02 | Neurofibromatosis, type 2 |
| Z96.21 | Cochlear implant status |

| Reviews, Revisions, and Approvals | Revision Date | Approval Date |
|--|---------------|---------------|
| Converted corporate to local policy. | 08/15/2020 | |
| <u>Annual review. Coding reviewed, added codes L8621 and L8622. Replaced all instance of “member” with “member/enrollee.” Changed “review date” in the header to “date of last revision” and “date” in the revision log header to “revision date.” Sent for specialist review. Removed “or” in I.A. and I.B. Background updated with no impact to criteria. References reviewed and updated.</u> | 9/22 | |

References

1. American Academy of Audiology. American Academy of Audiology Clinical Practice Guidelines: Pediatric amplification. ~~June 2013.~~
~~<https://www.audiology.org/sites/default/files/publications/PediatricAmplificationGuidelines.pdf>~~~~https://audiology-web.s3.amazonaws.com/migrated/PediatricAmplificationGuidelines.pdf_539975b3e7e9f1.74471798.pdf~~ Published June 2013. Accessed June 3, 2022.
2. ~~American Academy of Audiology Position Statement. Cochlear implants in children. 1995. Accessed at: <http://www.audiology.org/publications-resources/document-library/cochlear-implants-children>~~
3. ~~U.S. Food and Drug Administration. Medical Devices, Cochlear Implant. 200. U.S. Food and Drug Administration. Accessed 06/24/2020 at:~~

- <http://www.fda.gov/MedicalDevices/ProductsandMedicalProcedures/ImplantsandProsthetics/CochlearImplants/default.htm>
2. Fedoseev VI, Mileshina NA, Bakhshinyan VV, et al. United States Food and Drug Administration. Cochlear implants.
<http://www.fda.gov/MedicalDevices/ProductsandMedicalProcedures/ImplantsandProsthetics/CochlearImplants/default.htm>. Published February 3, 2022. Accessed June 3, 2022.
 - 4.3. Ribári O, Répássy G, Küstel M. Reoperations after cochlear implantation. *Vestn Otorinolaringol.* 2016;81(6):9-12. Accessed 06/24/2020. *Acta Otolaryngol.* 2000;120(2):160-163. doi:10.1080/000164800750000829
 - 5.4. North HJD, Lloyd SKW. Hearing ~~Rehabilitation~~ rehabilitation in Neurofibromatosis Type neurofibromatosis type 2.- *Adv Otorhinolaryngol.* 2018;81:93-104. doi:10.1159/000485526.
 - 6.5. ~~The Joint Committee on Infant Hearing. Year 2019 position statement: Principles and Guidelines~~ guidelines for early hearing detection and intervention programs. *J Early Hearing Detection and Intervention Programs. The Journal of Early Hearing Detection and Intervention. Hear Detect Interv.* 2019; 4(2):-1-44.
https://www.audiology.org/sites/default/files/publications/resources/2019_JointCommitteeInfantHearing_Principles_Guidelines4EarlyHearingDetectionInterventionProgrs.pdf
 6. Local coverage article: billing and coding: external components for cochlear implants (A53708). Centers for Medicare and Medicaid Services Web site.
<http://www.cms.hhs.gov/mcd/search.asp>. Published October 1, 2015 (revised November 7, 2019). Accessed June 3, 2022.
 7. Blevins NH. Presbycusis. UpToDate. www.uptodate.com. Updated April 18, 2022. Accessed June 3, 2022.

Important Reminder

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. LHCC makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved.

The purpose of this clinical policy is to provide a guide to medical necessity, which is a component of the guidelines used to assist in making coverage decisions and administering benefits. It does not constitute a contract or guarantee regarding payment or results. Coverage decisions and the administration of benefits are subject to all terms, conditions, exclusions and limitations of the coverage documents (e.g., evidence of coverage, certificate of coverage, policy, contract of insurance, etc.), as well as to state and federal requirements and applicable LHCC administrative policies and procedures.

This clinical policy is effective as of the date determined by LHCC. The date of posting may not be the effective date of this clinical policy. This clinical policy may be subject to applicable legal

and regulatory requirements relating to provider notification. If there is a discrepancy between the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. LHCC retains the right to change, amend or withdraw this clinical policy, and additional clinical policies may be developed and adopted as needed, at any time.

This clinical policy does not constitute medical advice, medical treatment or medical care. It is not intended to dictate to providers how to practice medicine. Providers are expected to exercise professional medical judgment in providing the most appropriate care, and are solely responsible for the medical advice and treatment of members/enrollees. This clinical policy is not intended to recommend treatment for members/enrollees. Members/enrollees should consult with their treating physician in connection with diagnosis and treatment decisions.

Providers referred to in this clinical policy are independent contractors who exercise independent judgment and over whom LHCC has no control or right of control. Providers are not agents or employees of LHCC.

This clinical policy is the property of LHCC. Unauthorized copying, use, and distribution of this clinical policy or any information contained herein are strictly prohibited. Providers, members/enrollees and their representatives are bound to the terms and conditions expressed herein through the terms of their contracts. Where no such contract exists, providers, members/enrollees and their representatives agree to be bound by such terms and conditions by providing services to members/enrollees and/or submitting claims for payment for such services.

©2020 Louisiana Healthcare Connections. All rights reserved. All materials are exclusively owned by Louisiana Healthcare Connections and are protected by United States copyright law and international copyright law. No part of this publication may be reproduced, copied, modified, distributed, displayed, stored in a retrieval system, transmitted in any form or by any means, or otherwise published without the prior written permission of Louisiana Healthcare Connections. You may not alter or remove any trademark, copyright or other notice contained herein. Louisiana Healthcare Connections is a registered trademark exclusively owned by Louisiana Healthcare Connections.