

MEDICAL POLICY – 7.01.586

Cochlear Implant

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RELATED MEDICAL POLICIES:

1.01.528 Hearing Aids (Excludes Implantable Devices)


7.01.83 Auditory Brainstem Implant

7.01.84 Semi-Implantable and Fully Implantable Middle Ear Hearing Aids

7.01.547 Implantable Bone Conduction and Bone-Anchored Hearing Aids

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Introduction

The cochlea is part of the inner ear. Its job is to help convert vibrations from sound into nerve signals. The signals then travel along the auditory nerve to the brain, and we interpret the signals as sound. A cochlear implant is a hearing device that may be used for certain types of severe or profound hearing loss. Cochlear implants work differently than typical hearing aids. Hearing aids amplify or increase sounds. A cochlear implant, however, bypasses certain hearing parts of the ear and instead directly stimulates the auditory nerve. A cochlear implant has internal and external parts. The external parts include a microphone, sound processor, and a transmitter. The internal components include a receiver and an electrode-type device that stimulates the auditory nerve. The external microphone picks up sound and carries it to the external sound processor, which then transmits it to the internal receiver. The internal receiver converts the signals into electrical impulses. The impulses then travel to the electrode-type device to stimulate the auditory nerve. This policy describes when a cochlear implant may be considered medically necessary.

Note: The Introduction section is for your general knowledge and is not to be taken as policy coverage criteria. The rest of the policy uses specific words and concepts familiar to medical professionals. It is intended for providers. A provider can be a person, such as a doctor, nurse, psychologist, or dentist. A provider also can be a place where medical care is given, like a hospital, clinic, or lab. This policy informs them about when a service may be covered.

Policy Coverage Criteria

Subject	Medical Necessity
<p>Bilateral Hearing Loss</p>	<p>Unilateral or bilateral cochlear implantation of a US Food and Drug Administration (FDA)-approved cochlear implant device may be considered medically necessary in individuals with bilateral severe-to-profound pre- or post-lingual (sensorineural) hearing loss when ALL of the following criteria are met:</p> <ul style="list-style-type: none"> • Individual is aged 9 months and older <p>AND</p> <ul style="list-style-type: none"> • The individual has a hearing threshold pure-tone average (PTA) of 70 dB (decibels) hearing loss or greater at 500 Hz (hertz), 1,000 Hz, and 2,000 Hz <p>AND</p> <ul style="list-style-type: none"> • The individual has tried standard hearing aids but had limited or no benefit from their use
<p>Single-sided deafness (SSD) and asymmetrical sensorineural hearing loss (AHL)</p>	<p>Unilateral cochlear implantation of a FDA approved, non-hybrid cochlear implant device may be considered medically necessary when ALL of the following criteria are met:</p> <ul style="list-style-type: none"> • Individual is aged 5 years and older <p>AND</p> <ul style="list-style-type: none"> • The individual has limited or no benefit after a minimum one-month trial wearing a Contra Lateral Routing of Signal (CROS) hearing aid or other relevant device <p>AND</p> <ul style="list-style-type: none"> • One of the following: <ul style="list-style-type: none"> ○ Single-sided deafness (defined as profound sensorineural hearing loss in one ear and normal hearing or mild sensorineural hearing loss in the other ear) OR ○ Asymmetrical sensorineural hearing loss (defined as profound sensorineural hearing loss in one ear and mild to moderately severe sensorineural hearing loss in the other ear, with a difference of at least 15 dB in PTAs between ears)



Subject	Medical Necessity
	<p>Note: Profound hearing loss is defined as having a PTA of 90 dB HL or greater at 500 Hz, 1000 Hz, 2000 Hz and 4000 Hz</p> <p>Normal hearing is defined as having a PTA of up to 15 dB HL at 500 Hz, 1000 Hz, 2000 Hz and 4000 Hz</p> <p>Mild hearing loss is defined as having a PTA of up to 30 dB HL at 500 Hz, 1000 Hz, 2000 Hz and 4000 Hz</p> <p>Mild to moderately severe hearing loss is defined as having a PTA ranging from 31 to up to 55 dB HL at 500 Hz, 1000 Hz, 2000 Hz and 4000 Hz</p>
<p>Hybrid cochlear implant/hearing aid</p>	<p>Cochlear implantation with a hybrid cochlear implant/hearing aid device that includes the hearing aid integrated into the external sound processor of the cochlear implant (e.g., the Nucleus Hybrid L24 Cochlear Implant System) may be considered medically necessary when ALL of the following criteria are met:</p> <ul style="list-style-type: none"> • Individual is aged 18 years and older <p>AND</p> <ul style="list-style-type: none"> • The individual has bilateral severe-to-profound high-frequency sensorineural hearing loss with residual low-frequency hearing sensitivity <p>AND</p> <ul style="list-style-type: none"> • The individual receives limited benefit from appropriately fitted bilateral hearing aids <p>AND</p> <ul style="list-style-type: none"> • The individual has the following hearing thresholds: <ul style="list-style-type: none"> ○ Low-frequency hearing thresholds no poorer than 60 dB hearing level up to and including 500 Hz (averaged over 125, 250, and 500 Hz) in the ear selected for implantation <p>AND</p> <ul style="list-style-type: none"> ○ Severe to profound mid- to high-frequency hearing loss (threshold average of 2000, 3000, and 4000 Hz \geq75 dB hearing level) in the ear to be implanted <p>AND</p> <ul style="list-style-type: none"> ○ Moderately severe to profound mid- to high-frequency hearing loss (threshold average of 2000, 3000, and 4000 Hz \geq60 dB hearing level) in the contralateral ear



Subject	Medical Necessity
	<p>AND</p> <ul style="list-style-type: none"> ○ Aided consonant-nucleus-consonant word recognition score from 10% to 60% in the ear to be implanted in the preoperative aided condition and in the contralateral ear will be equal to or better than that of the ear to be implanted but not more than 80% correct
Replacements	<p>Replacement of internal and/or external components (speech controller or speech processor) may be considered medically necessary only in a small subset of individuals when:</p> <ul style="list-style-type: none"> • The processor is not working or broken (no longer functional) and cannot be repaired or replaced under a manufacturer's warranty. <p>OR</p> <ul style="list-style-type: none"> • Replacement is needed because the individual's condition has changed to the extent that the current components (e.g., processor) are inadequate and interfere with the individual's activities of daily living, and improvement is expected with a replacement device. <p>Replacement of internal and/or external components solely for the purpose of upgrading to a system with advanced technology or to a next-generation device is considered not medically necessary.</p>
Upgrades	<p>Upgrades of an existing, functioning external system to achieve aesthetic improvement, such as smaller profile components or a switch from a body-worn, external sound processor to a behind-the-ear model, are considered not medically necessary.</p>

Subject	Investigational
Tinnitus	Cochlear implantation as a treatment for individuals with tinnitus is considered investigational.



Limited Benefit from Hearing Aids

Hearing loss is rated on a scale based on the threshold of hearing. Severe hearing loss is defined as a bilateral hearing threshold of 70 to 90 dB, and profound hearing loss is defined as a bilateral hearing threshold of 90 dB and above.

In adults, limited benefit from hearing aids is defined as scores of 50% correct or less in the ear to be implanted on tape-recorded sets of open-set sentence recognition.

In children, limited benefit is defined as failure to develop basic auditory skills, and in older children, scores of 30% or less correct on open-set tests.

Bilateral Cochlear Implantation

Bilateral cochlear implantation (CI) should be considered only when it has been determined that the alternative of unilateral cochlear implantation plus a hearing aid in the contralateral ear will not result in a binaural benefit (i.e., in those individuals with hearing loss of a magnitude where a hearing aid will not produce the required amplification).

Post- Cochlear Implantation Rehabilitation

A post cochlear implant rehabilitation program is necessary to achieve benefit from the cochlear implant. The rehabilitation program consists of 6 to 10 sessions that last approximately 2.5 hours each. The rehabilitation program includes development of skills in understanding running speech, recognition of consonants and vowels, and tests of speech perception ability.

Contraindications to Cochlear Implantation

Contraindications to cochlear implantation may include:

- Absence of cochlear development as demonstrated on a computed tomography (CT) scan is an absolute contraindication
- Cochlear ossification, may prevent electrode insertion
- Deafness due to lesions of the eighth cranial (acoustic) nerve, central auditory pathway, or brainstem



- Infections, active or chronic, of the external or middle ear; or mastoid cavity
- Tympanic membrane perforation.

Children Less Than 12 Months of Age

In certain situations, implantation may be considered before 12 months of age. One scenario is post-meningitis when cochlear ossification may preclude implantation. Another is in cases with a strong family history because establishing a precise diagnosis is less uncertain.

Reasonable Useful Life Expectancy for External Cochlear Implant Parts

Parts	Life Expectancy	Comments
Batteries - Disposable	60 hours (1-3 days)	Replaced as needed
Batteries - Rechargeable	1 year or more	Many will last longer than 1 year
External speech processor	3 years or longer	Manufacturer's warranty is usually 3 years. The component may last longer depending on care & maintenance.
Headpieces/microphones	1-2 years	May last longer depending on care & maintenance.

Adapted from Gift of Hearing Foundation (GOHF).

Documentation Requirements

The individual's medical records submitted for review for all conditions should document that medical necessity criteria are met. The record should include the following:

- Office visit notes that contain the relevant history and physical

AND

- Manufacturer and Model Name of Cochlear Implant being requested

AND

- Audiology test results

Coding



Code	Description
CPT	
69930	Cochlear device implantation, with or without mastoidectomy
HCPCS	
L8614	Cochlear device, includes all internal and external components
L8619	Cochlear implant external speech processor and controller, integrated system, replacement
L8625	External recharging system for battery for use with cochlear implant or auditory osseointegrated device, replacement only, each

Note: CPT codes, descriptions and materials are copyrighted by the American Medical Association (AMA). HCPCS codes, descriptions and materials are copyrighted by Centers for Medicare Services (CMS).

Related Information

Consideration of Age

The ages in this policy for which cochlear implants are considered medically necessary is based on the FDA approved age and is varied for each device. The labeled indications from the FDA for currently marketed implant devices are summarized in [Table 2](#).

Benefit Application

Some facilities may negotiate a global fee for the implantation of the device and the associated auditory rehabilitation. However, charges for rehabilitation services may be subject to individual contractual limitations.

A cochlear implant is a surgically implanted hearing device. The implanted receiver and electrode system device and implantation surgery should be reimbursed under the medical benefit.

Evidence Review



Description

A cochlear implant is a device for treatment of severe-to-profound hearing loss in individuals who only receive limited benefit from amplification with hearing aids. A cochlear implant provides direct electrical stimulation to the auditory nerve, bypassing the usual transducer cells that are absent or nonfunctional in the deaf cochlea.

Background

The basic structure of a cochlear implant includes both external and internal components. The external components include a microphone, an external sound processor, and an external transmitter. The internal components are implanted surgically and include an internal receiver implanted within the temporal bone and an electrode array that extends from the receiver into the cochlea through a surgically created opening in the round window of the middle ear.

Sounds picked up by the microphone are carried to the external sound processor, which transforms sound into coded signals that are then transmitted transcutaneously to the implanted internal receiver. The receiver converts the incoming signals into electrical impulses that are then conveyed to the electrode array, ultimately resulting in stimulation of the auditory nerve.

Summary of Evidence

For individuals who have bilateral sensorineural hearing loss who receive cochlear implant(s), the evidence includes randomized controlled trials (RCTs) and multiple systematic reviews and technology assessments. The relevant outcomes are symptoms, functional outcomes, and treatment-related mortality and morbidity. The available studies have reported improvements in speech reception and quality-of-life measures. Although the available RCTs and other studies measured heterogeneous outcomes and included varying patient populations, the findings are consistent across multiple studies and settings. In addition to consistent improvement in speech reception (especially in noise), studies showed improvements in sound localization with bilateral devices. Studies have also suggested that earlier implantation may be preferred. The evidence is sufficient to determine that the technology results in an improvement in the net health outcome.



For individuals who have unilateral sensorineural hearing loss who receive cochlear implant(s), the evidence includes small open-label RCTs, a feasibility study, prospective and retrospective studies reporting within-subjects comparisons and systematic reviews of observational studies. The relevant outcomes are symptoms, functional outcomes, and treatment-related mortality and morbidity. Given the natural history of hearing loss, pre- and post-implantation comparisons may be appropriate for objectively measured outcomes. However, the available evidence for the use of cochlear implants in improving outcomes for individuals with unilateral hearing loss, with or without tinnitus, is limited by small sample sizes and heterogeneity in evaluation protocols and outcome measurements. A small feasibility study in adults with single-sided deafness or asymmetric hearing loss demonstrated improvements in sound perception, sound localization, and subjective measures of quality of life compared to baseline conditions. Inconsistent sound localization and binaural hearing outcomes have been reported in 2 small RCTs. Prospective studies assessing outcomes compared to best-aided hearing controls beyond six months are lacking. Ongoing post-marketing studies in adults and children may further elucidate outcomes. The evidence is insufficient to determine that the technology results in an improvement in the net health outcome.

For individuals who have high-frequency sensorineural hearing loss with preserved low-frequency hearing who receive a hybrid cochlear implant that includes a hearing aid integrated into the external sound processor of the cochlear implant, the evidence includes prospective and retrospective studies using single-arm, within-subject comparison pre- and postintervention and systematic reviews. The relevant outcomes are symptoms, functional outcomes, and treatment-related mortality and morbidity. The available evidence has suggested that a hybrid cochlear implant system is associated with improvements in hearing of speech in quiet and noise. The available evidence has also suggested that a hybrid cochlear implant improves speech recognition better than a hearing aid alone. Some studies have suggested that a shorter cochlear implant insertion depth may be associated with preserved residual low-frequency hearing, although there is uncertainty about the potential need for reoperation after a hybrid cochlear implantation if there is loss of residual hearing. Studies reporting on long-term outcomes and results of re-implantation are lacking. The evidence is insufficient to determine that the technology results in an improvement in the net on health outcome.

Clinical input obtained in 2016 supports the use of hybrid cochlear implants in patients with high-frequency hearing loss but preserved low frequency hearing.



Ongoing and Unpublished Clinical Trials

Some currently ongoing and unpublished trials that might influence this policy are listed in [Table 1](#).

Table 1. Summary of Key Trials

NCT No.	Trial Name	Planned Enrollment	Completion Date
Ongoing			
NCT03900897^a	Expanded Indications in the MED-EL Pediatric Cochlear Implant Population	60	Nov 2023 (active, not recruiting)
NCT04793412	Cochlear Implantation in Children With Asymmetric Hearing Loss or Single-Sided Deafness Clinical Trial	80	Dec 2025 (recruiting)
NCT04506853^a	Single-Sided Deafness and Asymmetric Hearing Loss Post-Approval Study	65	Sep 2026 (recruiting)
NCT05154188^a	Post Approval Study to Assure the Continued saFety and effectiveness of Neuro Cochlear Implant System in Adult Users (PACIFIC)	60	Feb 2028 (not yet recruiting)
NCT05318417^a	A Post-approval, Prospective, Nonrandomized, Single-arm Multicenter Investigation to Evaluate the Safety and Effectiveness of Cochlear Implantation in Children and Adults With Unilateral Hearing Loss/Single-sided Deafness	60	Jun 2027 (recruiting)
Unpublished			
NCT03236909^a	Expanded Indications in the Adult Cochlear Implant Population	44	Mar 2023 (completed)
NCT02203305^a	Cochlear Implantation in Cases of Single-Sided Deafness	43	Sep 2021 (completed)
NCT05052944	Single-sided Deafness and Cochlear Implantation	78	Nov 2023 (completed)
NCT02379819^a	Nucleus Hybrid L24 Implant System: New Enrollment Study	52	Apr 2022 (completed)
NCT03052920	Cochlear Implantation in Adults With Asymmetric Hearing Loss Clinical Trial	40	Mar 2021 (completed)
NCT02105441	Cochlear Implantation Among Adults and Older Children With Unilateral or Asymmetric Hearing Loss	40	Mar 2018 (completed)



NCT: national clinical trial.

^a Industry-sponsored or co-sponsored.

Clinical Input Received from Physician Specialty Societies and Academic Medical Centers

While the various physician specialty societies and academic medical centers may collaborate with and make recommendations during this process, through the provision of appropriate reviewers, input received does not represent an endorsement or position statement by the physician specialty societies or academic medical centers, unless otherwise noted.

2016 Input

In response to requests, input was received from two specialty societies, one of which provided four responses and one of which provided three responses, and three academic medical centers while this policy was under review in 2016. Input focused on the use of hybrid cochlear implants. Input was consistent that the use of a hybrid cochlear implant/hearing aid device that includes the hearing aid integrated into the external sound processor of the cochlear implant improves outcomes for individuals with high-frequency hearing loss but preserved low-frequency hearing.

2010 Input

In response to requests, input was received from two physician specialty societies and four academic medical centers while this policy was under review in 2010. Also, unsolicited input was received from a specialty society. Most providing input supported the use of cochlear implants in infants younger than 12 months of age; many supporting this use noted that there are major issues when determining hearing level in infants of this age group, and others commented that use could be considered in these young infants only in certain situations. Those providing input were divided on the medical necessity of upgrading functioning external systems; some agreed, and others did not.



Practice Guidelines and Position Statements

The purpose of the following information is to provide reference material. Inclusion does not imply endorsement or alignment with the policy conclusions.

Guidelines or position statements will be considered if they were issued by, or jointly by, a US professional society, an international society with US representation, or National Institute for Health and Care Excellence (NICE). Priority will be given to guidelines that are informed by a systematic review, include strength of evidence ratings, and include a description of management of conflict of interest.

American Academy of Otolaryngology-Head and Neck Surgery Foundation

In 2020, the American Academy of Otolaryngology-Head and Neck Surgery Foundation released an updated position statement on cochlear implants.⁵⁶ The Foundation "...considers unilateral and bilateral cochlear implantation as appropriate treatment for adults and children over 9 months of age with moderate to profound hearing loss who have failed a trial with appropriately fit hearing aids."

Agency for Health Care Research and Quality

In 2011, a technology assessment for the Agency for Health Care Research and Quality assessed the effectiveness of cochlear implants in adults.⁵⁷ The assessment conclusions are noted within the body of this policy.

National Institute for Health and Care Excellence

In 2019, the National Institute for Health and Care Excellence (NICE) released a technology appraisal guidance on cochlear implants for children and adults with severe-to-profound deafness.⁵⁸

The guidance included the following updated recommendations:



1.1 "Unilateral cochlear implantation is recommended as an option for people with severe to profound deafness who do not receive adequate benefit from acoustic hearing aids, as defined in 1.5

1.2 Simultaneous bilateral cochlear implantation is recommended as an option for the following groups of people with severe to profound deafness who do not receive adequate benefit from acoustic hearing aids.

- a. Children
- b. Adults who are blind or who have other disabilities that increase their reliance on auditory stimuli as a primary sensory mechanism for spatial awareness.

1.3 Sequential bilateral cochlear implantation is not recommended as an option for people with severe to profound deafness.

1.5 For the purposes of this guidance, severe to profound deafness is defined as hearing only sounds that are louder than 80 dB HL [hearing level] at 2 or more frequencies bilaterally (500 Hz, 1 kHz, 2 kHz, 3 kHz, 4 kHz) without acoustic hearing aids. Adequate benefit from acoustic hearing aids is defined for this guidance as:

- a. for adults, a phoneme score of 50% or greater on the Arthur Boothroyd word test presented at 70 dBA
- b. for children, speech, language and listening skills appropriate to age, developmental stage, and cognitive ability.

1.6 Cochlear implantation should be considered for children and adults only after an assessment by a multidisciplinary team. As part of the assessment, children and adults should also have had a valid trial of an acoustic hearing aid for at least 3 months (unless contraindicated or inappropriate)."

1.7 Cochlear implantation should be considered for ... adults only after an assessment by a multidisciplinary team. As part of the assessment ... [implant candidates] should also have had a valid trial of an acoustic hearing aid for at least 3 months (unless contraindicated or inappropriate)."



National Institutes of Health

Cochlear implants are recognized as an effective treatment of sensorineural deafness, as noted in a 1995 National Institutes of Health Consensus Development conference, which offered the following conclusions¹:

- "Cochlear implantation has a profound impact on hearing and speech reception in post-lingually deafened adults."
- "Prelingually deafened adults generally show little improvement in speech perception scores after cochlear implantation, but many of these individuals derive satisfaction from hearing environmental sounds and continue to use their implants. ". However, improvements in other basic benefits, such as sound awareness, may meet safety needs."
- "...training and educational intervention are fundamental for optimal post-implant benefit."

The conference offered the following conclusions regarding cochlear implantation in children:

- "Cochlear implantation outcomes are more variable in children. Nonetheless, gradual, steady improvement in speech perception, speech production, and language does occur. "

Cochlear implants in children under 2-years-old are complicated by the inability to perform detailed assessment of hearing and functional communication. However, "[a] younger age of implantation may limit the negative consequences of auditory deprivation and may allow more efficient acquisition of speech and language." Some children with a post meningitis hearing loss under the age of 2 years have received an implant due to "the risk of new bone formation associated with meningitis, which might preclude cochlear implantation at a later date."

Medicare National Coverage

Existing national coverage effective for services performed on or after April 4, 2005 states⁵⁹:

"...cochlear implantation may be covered for treatment of bilateral pre-or-post-linguistic, sensorineural, moderate-to-profound hearing loss in individuals who demonstrate limited benefit from amplification... [which is] defined by test scores of $\leq 40\%$ correct in the best-aided listening condition on tape-recorded tests of open-set sentence cognition."

Coverage for cochlear implants may also be provided when the patient has:

"...hearing test scores of greater than 40% and less than or equal to 60% only when the provider is participating in, and patients are enrolled in, either an FDA-approved category B



investigational device exemption (IDE) clinical trial...or a prospective, controlled comparative trial approved by CMS...".

Regulatory Status

Several cochlear implants are commercially available in the United States and are manufactured by Cochlear Americas, Advanced Bionics, and the MED-EL Corp. Over time, subsequent generations of the various components of the devices have been approved by the US Food and Drug Administration (FDA), focusing on improved electrode design and speech-processing capabilities. Furthermore, smaller devices and the accumulating experience in children have resulted in broadening of the selection criteria to include children as young as 12 months. The labeled indications from FDA for currently marketed implant devices are summarized in **Table 2**.

FDA Product Code: MCM.

Table 2. Cochlear Implant Systems Approved by the US Food and Drug Administration

Variables		Manufacturer and Currently Marketed Cochlear Implants		
Device	Advanced Bionics HiResolution Bionic Ear System (HiRes90K)	Cochlear Nucleus 22 and 24	Med El Maestro Combi 40+	Neuro Cochlear Implant System (Oticon Medical)
PMA	P960058	P840024, P970051	P000025	P200021
Indications				
Adults ≥ 18 y	<p>Postlingual onset of severe to profound bilateral SNHL (≥70 dB)</p> <p>Limited benefit from appropriately fitted hearing aids, defined as scoring ≤50% on a test of open-set HINT sentence recognition</p>	<p>Pre-, peri-, or postlingual onset of bilateral SNHL, usually characterized by:</p> <ul style="list-style-type: none"> ○ Moderate-to-profound HL in low frequencies; and ○ Profound (≥90 dB) HL in mid-to-high speech frequencies <p>Severe to profound unilateral SNHL (SSD or AHL)</p>	<p>Severe to profound bilateral SNHL (≥70 dB)</p> <p>≤40% correct HINT sentences with best-sided listening condition</p> <p>SSD (≥90 dB) or AHL (Δ15 dB PTA)</p> <ul style="list-style-type: none"> ○ Limited benefit from unilateral amplification, defined by test 	<p>Severe-to-profound bilateral SNHL (≥70 dB at 500, 1000, and 2000 Hz)</p> <p>Limited benefit from appropriately fit hearing aids, defined as scoring ≤50% correct HINT sentences in</p>



Variables		Manufacturer and Currently Marketed Cochlear Implants		
		<ul style="list-style-type: none"> ○ PTA at 500 Hz, 1000 Hz, 2000 Hz, and 4000 Hz of > 80 dB HL ○ Normal or near normal hearing in the contralateral ear defined as PTA at 500 Hz, 1000 Hz, 2000 Hz, and 4000 Hz of ≤ 30 dB HL ○ Limited benefit from an appropriately fitted unilateral hearing device 	<p>scores of 5% or less on monosyllabic CNC words in quiet when tested in the ear to be implanted alone</p> <ul style="list-style-type: none"> ○ Patients must have at least 1 month experience wearing a CROS hearing aid or other relevant device and not show any subjective benefit 	quiet or noise with best-sided listening condition
Children	<p>12 mo to 17 y of age</p> <p>Profound bilateral SNHL (>90 dB) Use of appropriately fitted hearing aids for at least 6 mo in children 2-17y or at least 3 mo in children 12-23 mo</p> <p>Lack of benefit in children <4 y defined as a failure to reach developmentally appropriate auditory milestones (eg, spontaneous response to name in quiet or to environmental sounds) measured using IT-MAIS or MAIS or <20% correct on a simple open-set word recognition test (MLNT) administered using monitored live voice (70 dB SPL)</p>	<p>25 mo to 17 y, 11 mo of age</p> <p>Severe to profound bilateral SNHL</p> <p>MLNT scores ≤30% in best-aided condition in children</p> <p>LNT scores ≤30% in best-aided condition in children</p> <p>9 to 24 mo of age</p> <p>Profound SNHL bilaterally</p> <p>Limited benefit from appropriate binaural hearing aids</p> <p>5 y to 18 y of age</p> <p>Severe to profound unilateral SNHL (SSD or AHL)</p> <ul style="list-style-type: none"> ○ PTA at 500 Hz, 1000 Hz, 2000 Hz, 	<p>12 mo to 18 y of age</p> <p>Profound SNHL (≥90 dB)</p> <p>In younger children, little or no benefit is defined by lack of progress in the development of simple auditory skills with hearing aids over 3 to 6-mo</p> <ul style="list-style-type: none"> ○ In older children, lack of aided benefit is defined as <20% correct on the MLNT or LNT, depending on child's cognitive ability and linguistic skills ○ A 3- to 6-mo trial with hearing aids is required if not previously experienced 	Not applicable



Variables	Manufacturer and Currently Marketed Cochlear Implants			
	Lack of hearing aid benefit in children >4 y defined as scoring <12% on a difficult open-set word recognition test (PBK test) or <30% on an open-set sentence test (HINT for Children) administered using recorded materials in the sound field (70 dB SPL)	<ul style="list-style-type: none"> and 4000 Hz of > 80 dB HL ○ Normal or near normal hearing in the contralateral ear defined as PTA at 500 Hz, 1000 Hz, 2000 Hz, and 4000 Hz of ≤ 30 dB HL Limited benefit from an appropriately fitted unilateral hearing device	5 y to 18 y of age	SSD (≥90 dB) or AHL (Δ15 dB PTA) Insufficient functional access to sound in the ear to be implanted must be determined by aided speech perception test scores of 5% or less on developmentally appropriate monosyllabic word lists when tested in the ear to be implanted Patients must have at least 1-month experience wearing a CROS hearing aid or other relevant device and not show any subjective benefit

AHL: asymmetric hearing loss; CNC: consonant-nucleus-consonant; CROS: contralateral routing of signal; HINT: Hearing in Noise Test; HL: hearing loss; IT-MAIS: Infant-Toddler Meaningful Auditory Integration Scale; LNT: Lexical Neighborhood Test; MAIS: Meaningful Auditory Integration Scale; MLNT: Multisyllabic Lexical Neighborhood Test; PBK: Phonetically Balanced-Kindergarten; PMA: premarket approval; PTA: pure tone average; SNHL: sensorineural hearing loss; SPL: sound pressure level; SSD: single-sided deafness.

Hybrid Cochlear Implant System

In 2014, the Nucleus Hybrid L24 Cochlear Implant System (Cochlear Americas) was approved by the FDA through the premarket approval (PMA) process. This system is a hybrid cochlear implant and hearing aid, with the hearing aid integrated into the external sound processor of the cochlear implant. It is indicated for unilateral use in individuals aged 18 years and older who have residual low-frequency hearing sensitivity and severe to profound high-frequency sensorineural hearing loss, and who obtain limited benefit from an appropriately fit bilateral hearing aid. The electrode array inserted into the cochlea is shorter than conventional cochlear implants. According to the FDA’s PMA notification, labeled indications for the device include:



- Preoperative hearing in the range from “normal to moderate hearing loss (HL) in the low frequencies (thresholds no poorer than 60 dB HL up to and including 500 Hz).”
- Preoperative hearing with “severe to profound mid- to high-frequency hearing loss (threshold average of 2000, 3000, and 4000 Hz \geq 75 dB HL) in the ear to be implanted.”
- Preoperative hearing with “moderately severe to profound mid- to high-frequency hearing loss (threshold average of 2000, 3000, and 4000 Hz \geq 60 dB HL) in the contralateral ear.”
- “The CNC (Consonant-Nucleus-Consonant) word recognition score will be between 10% and 60% (inclusively) in the ear to be implanted in the preoperative aided condition and in the contralateral ear equal to or better than that of the ear to be implanted but not more than 80% correct.”

In 2022, the Nucleus Hybrid L24 Cochlear Implant System received expanded approval for single-sided deafness or unilateral hearing loss in adults and children aged 5 or older (P970051/S205).

Other hybrid hearing devices have been developed. The Med-El EAS System received expanded premarket approval by the FDA in 2016 (PMA P000025/S084)

FDA product code: PGQ.

Bilateral Cochlear Implants

Although cochlear implants have typically been used unilaterally, interest in bilateral cochlear implantation has arisen in recent years. The proposed benefits of bilateral cochlear implants are to improve understanding of speech occurring in noisy environments and localization of sounds. Improvements in speech intelligibility with bilateral cochlear implants may occur through binaural summation (i.e., signal processing of sound input from two sides may provide a better representation of sound and allow the individual to separate noise from speech). Speech intelligibility and localization of sound or spatial hearing may also be improved with head shadow and squelch effects (i.e., the ear that is closest to the noise will receive it at a different frequency and with different intensity, allowing the individual to sort out the noise and identify the direction of sound). Bilateral cochlear implantation may be performed independently with separate implants and speech processors in each ear, or a single processor may be used. However, no single processor for bilateral cochlear implantation has been approved by the FDA for use in the United States. Also, single processors do not provide binaural benefit and may



impair sound localization and increase the signal-to-noise ratio received by the cochlear implant.

References

1. Cochlear Implants in Adults and Children. NIH Consens Statement Online. 1995;13(2):1-30.
2. Bond M, Mealing S, Anderson R, et al. The effectiveness and cost-effectiveness of cochlear implants for severe to profound deafness in children and adults: a systematic review and economic model. *Health Technol Assess.* Sep 2009; 13(44): 1-330. PMID 19799825
3. Gaylor JM, Raman G, Chung M, et al. Cochlear implantation in adults: a systematic review and meta-analysis. *JAMA Otolaryngol Head Neck Surg.* Mar 2013; 139(3): 265-72. PMID 23429927
4. McRackan TR, Bauschard M, Hatch JL, et al. Meta-analysis of quality-of-life improvement after cochlear implantation and associations with speech recognition abilities. *Laryngoscope.* Apr 2018; 128(4): 982-990. PMID 28731538
5. McRackan TR, Bauschard M, Hatch JL, et al. Meta-analysis of Cochlear Implantation Outcomes Evaluated With General Health-related Patient-reported Outcome Measures. *Otol Neurotol.* Jan 2018; 39(1): 29-36. PMID 29227446
6. Crathorne L, Bond M, Cooper C, et al. A systematic review of the effectiveness and cost-effectiveness of bilateral multichannel cochlear implants in adults with severe-to-profound hearing loss. *Clin Otolaryngol.* Oct 2012; 37(5): 342-54. PMID 22928754
7. Choi JS, Betz J, Li L, et al. Association of Using Hearing Aids or Cochlear Implants With Changes in Depressive Symptoms in Older Adults. *JAMA Otolaryngol Head Neck Surg.* Jul 01 2016; 142(7): 652-7. PMID 27258813
8. van Zon A, Smulders YE, Ramakers GG, et al. Effect of unilateral and simultaneous bilateral cochlear implantation on tinnitus: A Prospective Study. *Laryngoscope.* Apr 2016; 126(4): 956-61. PMID 26255618
9. Bond M, Elston J, Mealing S, et al. Effectiveness of multi-channel unilateral cochlear implants for profoundly deaf children: a systematic review. *Clin Otolaryngol.* Jun 2009; 34(3): 199-211. PMID 19531168
10. Baron S, Blanchard M, Parodi M, et al. Sequential bilateral cochlear implants in children and adolescents: Outcomes and prognostic factors. *Eur Ann Otorhinolaryngol Head Neck Dis.* Apr 2019; 136(2): 69-73. PMID 30314876
11. Food and Drug Administration. Summary of Safety and Effectiveness Data (SSED): Nucleus 24 Cochlear Implant System (P970051/S172). 2020; https://www.accessdata.fda.gov/cdrh_docs/pdf/P970051S172B.pdf. Accessed March 15, 2024.
12. Lyu J, Kong Y, Xu TQ, et al. Long-term follow-up of auditory performance and speech perception and effects of age on cochlear implantation in children with pre-lingual deafness. *Chin Med J (Engl).* Aug 20 2019; 132(16): 1925-1934. PMID 31365431
13. Karltorp E, Eklöf M, Östlund E, et al. Cochlear implants before 9 months of age led to more natural spoken language development without increased surgical risks. *Acta Paediatr.* Feb 2020; 109(2): 332-341. PMID 31350923
14. Sharma A, Dorman MF. Central auditory development in children with cochlear implants: clinical implications. *Adv Otorhinolaryngol.* 2006; 64: 66-88. PMID 16891837
15. Forli F, Arslan E, Bellelli S, et al. Systematic review of the literature on the clinical effectiveness of the cochlear implant procedure in paediatric patients. *Acta Otorhinolaryngol Ital.* Oct 2011; 31(5): 281-98. PMID 22287820
16. Sterkers F, Merklen F, Piron JP, et al. Outcomes after cochlear reimplantation in children. *Int J Pediatr Otorhinolaryngol.* Jun 2015; 79(6): 840-843. PMID 25843784
17. Black J, Hickson L, Black B, et al. Prognostic indicators in paediatric cochlear implant surgery: a systematic literature review. *Cochlear Implants Int.* May 2011; 12(2): 67-93. PMID 21756501



18. Pakdaman MN, Herrmann BS, Curtin HD, et al. Cochlear implantation in children with anomalous cochleovestibular anatomy: a systematic review. *Otolaryngol Head Neck Surg.* Feb 2012; 146(2): 180-90. PMID 22140206
19. Fernandes NF, Morettin M, Yamaguti EH, et al. Performance of hearing skills in children with auditory neuropathy spectrum disorder using cochlear implant: a systematic review. *Braz J Otorhinolaryngol.* 2015; 81(1): 85-96. PMID 25458263
20. Bo D, Huang Y, Wang B, et al. Auditory and Speech Outcomes of Cochlear Implantation in Children With Auditory Neuropathy Spectrum Disorder: A Systematic Review and Meta-Analysis. *Ann Otol Rhinol Laryngol.* Apr 2023; 132(4): 371-380. PMID 35499129
21. Vlastarakos PV, Proikas K, Papacharalampous G, et al. Cochlear implantation under the first year of age--the outcomes. A critical systematic review and meta-analysis. *Int J Pediatr Otorhinolaryngol.* Feb 2010; 74(2): 119-26. PMID 19896223
22. Ching TY, Dillon H, Day J, et al. Early language outcomes of children with cochlear implants: interim findings of the NAL study on longitudinal outcomes of children with hearing impairment. *Cochlear Implants Int.* 2009; 10 Suppl 1(Suppl 1): 28-32. PMID 19067433
23. Colletti L, Mandalà M, Zoccante L, et al. Infants versus older children fitted with cochlear implants: performance over 10 years. *Int J Pediatr Otorhinolaryngol.* Apr 2011; 75(4): 504-9. PMID 21277638
24. Guerzoni L, Murri A, Fabrizi E, et al. Social conversational skills development in early implanted children. *Laryngoscope.* Sep 2016; 126(9): 2098-105. PMID 26649815
25. Lammers MJ, van der Heijden GJ, Pourier VE, et al. Bilateral cochlear implantation in children: a systematic review and best-evidence synthesis. *Laryngoscope.* Jul 2014; 124(7): 1694-9. PMID 24390811
26. Broomfield SJ, Murphy J, Emmett S, et al. Results of a prospective surgical audit of bilateral paediatric cochlear implantation in the UK. *Cochlear Implants Int.* Nov 2013; 14 Suppl 4: S19-21. PMID 24533758
27. Sarant J, Harris D, Bennet L, et al. Bilateral versus unilateral cochlear implants in children: a study of spoken language outcomes. *Ear Hear.* 2014; 35(4): 396-409. PMID 24557003
28. Escorihuela García V, Pitarch Ribas MI, Llópez Carratalá I, et al. Comparative study between unilateral and bilateral cochlear implantation in children of 1 and 2 years of age. *Acta Otorrinolaringol Esp.* 2016; 67(3): 148-55. PMID 26632253
29. Friedmann DR, Green J, Fang Y, et al. Sequential bilateral cochlear implantation in the adolescent population. *Laryngoscope.* Aug 2015; 125(8): 1952-8. PMID 25946482
30. Illg A, Giourgas A, Kral A, et al. Speech comprehension in children and adolescents after sequential bilateral cochlear implantation with long interimplant interval. *Otol Neurotol.* Jun 2013; 34(4): 682-9. PMID 23640090
31. Oh SJ, Mavrommatis MA, Fan CJ, et al. Cochlear Implantation in Adults With Single-Sided Deafness: A Systematic Review and Meta-analysis. *Otolaryngol Head Neck Surg.* Feb 2023; 168(2): 131-142. PMID 35230924
32. Benchetrit L, Ronner EA, Anne S, et al. Cochlear Implantation in Children With Single-Sided Deafness: A Systematic Review and Meta-analysis. *JAMA Otolaryngol Head Neck Surg.* Jan 01 2021; 147(1): 58-69. PMID 33151295
33. Marx M, Mosnier I, Venail F, et al. Cochlear Implantation and Other Treatments in Single-Sided Deafness and Asymmetric Hearing Loss: Results of a National Multicenter Study Including a Randomized Controlled Trial. *Audiol Neurootol.* 2021; 26(6): 414-424. PMID 33789270
34. Peters JPM, van Heteren JAA, Wendrich AW, et al. Short-term outcomes of cochlear implantation for single-sided deafness compared to bone conduction devices and contralateral routing of sound hearing aids-Results of a Randomised controlled trial (CINGLE-trial). *PLoS One.* 2021; 16(10): e0257447. PMID 34644322
35. Buss E, Dillon MT, Rooth MA, et al. Effects of Cochlear Implantation on Binaural Hearing in Adults With Unilateral Hearing Loss. *Trends Hear.* 2018; 22: 2331216518771173. PMID 29732951
36. Dillon MT, Buss E, O'Connell BP, et al. Low-Frequency Hearing Preservation With Long Electrode Arrays: Inclusion of Unaided Hearing Threshold Assessment in the Postoperative Test Battery. *Am J Audiol.* Mar 05 2020; 29(1): 1-5. PMID 31835906



37. Galvin JJ, Fu QJ, Wilkinson EP, et al. Benefits of Cochlear Implantation for Single-Sided Deafness: Data From the House Clinic-University of Southern California-University of California, Los Angeles Clinical Trial. *Ear Hear.* 2019; 40(4): 766-781. PMID 30358655
38. Peter N, Kleinjung T, Probst R, et al. Cochlear implants in single-sided deafness - clinical results of a Swiss multicentre study. *Swiss Med Wkly.* Dec 16 2019; 149: w20171. PMID 31880806
39. Poncet-Wallet C, Mamelle E, Godey B, et al. Prospective Multicentric Follow-up Study of Cochlear Implantation in Adults With Single-Sided Deafness: Tinnitus and Audiological Outcomes. *Otol Neurotol.* Dec 20 2019. PMID 31868784
40. Dillon MT, Buss E, Rooth MA, et al. Cochlear Implantation in Cases of Asymmetric Hearing Loss: Subjective Benefit, Word Recognition, and Spatial Hearing. *Trends Hear.* 2020; 24: 2331216520945524. PMID 32808881
41. Food and Drug Administration. Summary of Safety and Effectiveness Data (SSED): MED-EL Cochlear Implant System (P000025/S104). 2019; https://www.accessdata.fda.gov/cdrh_docs/pdf/P000025S104B.pdf. Accessed March 15, 2024.
42. Food and Drug Administration. Post-Approval Studies (PAS): MED-EL New Enrollment SSD/AHL Study. 2020; https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpma/pma_pas.cfm?t_id=647845&c_id=5585. Accessed on March 15, 2024.
43. Food and Drug Administration. Summary of Safety and Effectiveness Data (SSED): Nucleus 24 Cochlear Implant System (P970051/S205). January 10, 2022; https://www.accessdata.fda.gov/cdrh_docs/pdf/P970051S205B.pdf. Accessed March 15, 2024.
44. Vlastarakos PV, Nazos K, Tavoulari EF, et al. Cochlear implantation for single-sided deafness: the outcomes. An evidence-based approach. *Eur Arch Otorhinolaryngol.* Aug 2014; 271(8): 2119-26. PMID 24096818
45. Ramos Macías A, Falcón González JC, Manrique M, et al. Cochlear implants as a treatment option for unilateral hearing loss, severe tinnitus and hyperacusis. *Audiol Neurootol.* 2015; 20 Suppl 1: 60-6. PMID 25997672
46. Távora-Vieira D, Marino R, Krishnaswamy J, et al. Cochlear implantation for unilateral deafness with and without tinnitus: a case series. *Laryngoscope.* May 2013; 123(5): 1251-5. PMID 23553411
47. Brown KD, Dillon MT, Park LR. Benefits of Cochlear Implantation in Childhood Unilateral Hearing Loss (CUHL Trial). *Laryngoscope.* Mar 2022; 132 Suppl 6(Suppl 6): S1-S18. PMID 34542181
48. Pillsbury HC, Dillon MT, Buchman CA, et al. Multicenter US Clinical Trial With an Electric-Acoustic Stimulation (EAS) System in Adults: Final Outcomes. *Otol Neurotol.* Mar 2018; 39(3): 299-305. PMID 29342054
49. Food and Drug Administration. Approval Letter: Nucleus Hybrid L24 Cochlear Implant System (P130016). 2014; https://www.accessdata.fda.gov/cdrh_docs/pdf13/P130016a.pdf. Accessed March 15, 2024.
50. Roland JT, Gantz BJ, Waltzman SB, et al. United States multicenter clinical trial of the cochlear nucleus hybrid implant system. *Laryngoscope.* Jan 2016; 126(1): 175-81. PMID 26152811
51. Roland JT, Gantz BJ, Waltzman SB, et al. Long-term outcomes of cochlear implantation in patients with high-frequency hearing loss. *Laryngoscope.* Aug 2018; 128(8): 1939-1945. PMID 29330858
52. Lenarz T, James C, Cuda D, et al. European multi-centre study of the Nucleus Hybrid L24 cochlear implant. *Int J Audiol.* Dec 2013; 52(12): 838-48. PMID 23992489
53. Santa Maria PL, Gluth MB, Yuan Y, et al. Hearing preservation surgery for cochlear implantation: a meta-analysis. *Otol Neurotol.* Dec 2014; 35(10): e256-69. PMID 25233333
54. Causon A, Verschuur C, Newman TA. A Retrospective Analysis of the Contribution of Reported Factors in Cochlear Implantation on Hearing Preservation Outcomes. *Otol Neurotol.* Aug 2015; 36(7): 1137-45. PMID 25853614
55. Gantz BJ, Dunn C, Oleson J, et al. Multicenter clinical trial of the Nucleus Hybrid S8 cochlear implant: Final outcomes. *Laryngoscope.* Apr 2016; 126(4): 962-73. PMID 26756395
56. American Academy of Otolaryngology -- Head and Neck Surgery. Position Statement: Cochlear Implants. November 10, 2020; <https://www.entnet.org/resource/position-statement-cochlear-implants/>. Accessed March 15, 2024.



57. Raman G, Lee J, Chung MG, et al. Technology Assessment Report: Effectiveness of Cochlear Implants in Adults with Sensorineural Hearing Loss Rockville, MD: Agency for Healthcare Research and Quality; 2011.
58. National Institute for Health and Care Excellence (NICE). Cochlear Implants for Children and Adults With Severe to Profound Deafness [TA566]. 2019; <https://www.nice.org.uk/guidance/ta566/>. Accessed March 15, 2024.
59. Centers for Medicare & Medicaid. Cochlear Implantation. 2005; <https://www.cms.gov/medicare-coverage-database/view/ncacal-decision-memo.aspx?proposed=N&NCAId=134>. Accessed March 15, 2024.

History

Date	Comments
01/97	Add to Surgery Section - New Policy
11/03/98	Replace Policy - Revised Description and Policy Guidelines
01/04/99	Replace Policy - Policy reviewed; new devices added.
10/09/01	Replace Policy - Policy reviewed; new devices and FDA approval status added.
10/08/02	Replace Policy - Policy reviewed; new FDA-approved device added (Med E1 Combi 40+).
03/11/03	Replace Policy - Policy Benefit Application section added. No change to Policy Statement.
05/13/03	Replace Policy - Update CPT code only.
05/11/04	Replace Policy - Policy reviewed without literature review; no change to policy statement.
07/13/04	Replace Policy - Policy reviewed; discussion of bilateral cochlear implants and its investigational status added.
08/09/05	Replace Policy - Policy reviewed with literature search; policy statement unchanged.
02/06/06	Codes updated - No other changes.
06/09/06	Disclaimer and Scope update - No other changes.
08/08/06	Replace Policy - Policy updated with literature review; no change in policy statement.
04/10/07	Replace Policy - Policy updated with literature review. Policy statement changed to indicate bilateral cochlear implants are medically necessary. Reference numbers added.
05/13/08	Replace Policy - Policy updated with literature search; no change to the policy statement. References and codes added.
04/13/10	Replace Policy - Policy updated with literature search. Policy statements modified for clarity, intent unchanged. References and codes added.



Date	Comments
08/09/11	Replace Policy – Policy updated with literature review; Rationale section and references reorganized. No changes in policy statements. Reference numbers 3-4, 6, 12, 16-17 added; numerous references to early, small studies removed. ICD-10 codes added to policy.
08/24/11	Benefit Application updated.
02/09/12	The CPT codes 92605 and 92606 were removed from the policy.
06/26/12	Related Policies update; title for 7.01.84 has been changed.
08/20/12	Replace policy. Clarification statement added to the policy guidelines second paragraph: In addition, unique clinical circumstance may justify individual consideration for implantation before 12 months of age, based on review of applicable medical records to verify the other pediatric criteria noted in this policy are met. Rationale section revised based on literature review through April 2012. Reference numbers 7-9, 13 and 22-24 added. Other references renumbered. CPT codes 92605 and 92606 added. Policy statements unchanged.
09/25/12	Update Coding Section – ICD-10 codes are now effective 10/01/2014.
10/18/12	Update Related Policies – 7.01.03 renumbered to 7.01.547.
08/12/13	Replace policy. Policy statement added: cochlear implantation as a treatment for patients with unilateral hearing loss with or without tinnitus is considered investigational. Rationale updated based on literature review through May 2013. References 7, 10, 11, 28-32 added; others renumbered/removed. Policy statement changed as noted.
03/11/14	Coding Update. Remove codes 20.96, 20.97, and 20.98 per ICD-10 mapping project; these codes are not utilized for adjudication of policy.
03/21/14	Update Related Policies. Add 1.01.528
05/15/14	Coding update. CPT codes 92607 and 92608 removed from the policy; these codes address the evaluation portion; this policy is specific to the device and evaluation is not addressed herein.
07/14/14	Annual Review. Policy statement added that cochlear implantation with a hybrid cochlear implant/ hearing aid system is considered investigational. Rationale section reorganized and policy updated with literature review through April 4, 2014. References reorganized, numbers 1, 20, 21, 27, 29, 30-32, 36-40 added, others renumbered/removed. Policy statement changed as noted. Coding update: Remove CPT codes 92507-92606 & 92626-92633 from policy. Remove ICD-9 and ICD-10 diagnosis codes and ICD-10-PCS codes.
07/14/15	Annual Review. Policy updated with literature review through April 19, 2015; references 17, 23-24, 36-37, and 45 added. Policy statements unchanged. CPT codes 92626, 92627, 92630 and 92633 removed; these are codes that fall under the rehabilitation benefit. HCPCS codes L8616, L8617, L8618, L8621, L8622, L8623 and L8624 removed; these are for replacement and do not fall within the scope of the policy.



Date	Comments
12/12/15	Policy statement formatted to differentiate between different types of hearing loss/implants.
10/01/16	Annual Review, changes approved September 13, 2016. Policy updated with results of clinical input. Policy statement changed to indicate that cochlear implantation with a hybrid cochlear implant/hearing aid system is considered medically necessary for patients meeting criteria. CPT codes 92601-92606, 92609 removed; these are not supportive of policy intent.
10/07/16	Update coding section. Changed code L8328 to L8628. Removed paragraph regarding codes 92601-92606, and 92609 as they were removed from policy.
01/01/17	Interim review, changes approved December 13, 2016. Removed age limit for policy statement about cochlear implants for bilateral hearing loss; added statement about replacement of cochlear implant components. Policy guidelines about individual review consideration for implantation in children under 12 months of age added. RUL table for cochlear implant components added to Policy Guidelines.
05/01/17	Annual Review, changes approved April 11, 2017. Policy updated with literature review through December 20, 2016; references 16 and 43-45 added. Coding updated; removed HCPCS codes L8627, L8628, and L8629. Policy statements unchanged.
10/24/17	Policy moved to new format, no changes to policy statement.
05/01/18	Annual Review, approved April 18, 2018. Policy updated with literature review through December 2017; references 35 and 38 updated. Policy statements unchanged; only minor edits made.
09/01/18	Minor update. Re-added the Consideration of Age information which was inadvertently deleted in a previous update.
05/01/19	Annual Review, approved April 2, 2019. Policy updated with literature review through January 2019. Policy statements unchanged. Removed HCPCS code L8615.
04/01/20	Delete policy, approved March 10, 2020. This policy will be deleted effective July 2, 2020, and replaced with InterQual criteria for dates of service on or after July 2, 2020.
05/01/20	Annual Review, approved April 7, 2020. Policy updated with literature review through November 2019; references added. Policy statements unchanged.
07/02/20	Delete policy.
11/01/20	Policy reinstated effective February 5, 2021, approved October 13, 2020. Policy updated with literature review through April 2020; references added. Policy statements updated to reflect expanded indications in children aged 9-12 months with profound bilateral sensorineural hearing loss.
01/12/21	Coding update. Added HCPCS L8625.
05/01/21	Annual Review, approved April 1, 2021. Policy updated with literature review through November 17, 2020; references added. Policy statements unchanged.



Date	Comments
05/01/22	Annual Review, approved April 11, 2022. Policy updated with literature review through January 7, 2022; references added. Policy statements unchanged.
02/01/23	Updated Related Policies. 7.01.03 is replaced by 7.01.547 Implantable Bone Conduction and Bone-Anchored Hearing Aids
05/01/23	Policy renumbered, approved April 11, 2023, from 7.01.05 to 7.01.586 Cochlear Implant. Policy updated with literature review through January 9, 2023; references added. Policy statements unchanged except for minor editorial refinements ; intent unchanged. Changed the wording from "patient" to "individual" throughout the policy for standardization.
05/01/24	Annual Review, approved April 8, 2024. Policy updated with literature review through January 2, 2024; references added. Policy statements unchanged.
01/01/25	Interim Review, approved December 10, 2024. Changed policy statement for cochlear implant for individuals with unilateral hearing loss from investigational to medically necessary when criteria are met.

Disclaimer: This medical policy is a guide in evaluating the medical necessity of a particular service or treatment. The Company adopts policies after careful review of published peer-reviewed scientific literature, national guidelines and local standards of practice. Since medical technology is constantly changing, the Company reserves the right to review and update policies as appropriate. Member contracts differ in their benefits. Always consult the member benefit booklet or contact a member service representative to determine coverage for a specific medical service or supply. CPT codes, descriptions and materials are copyrighted by the American Medical Association (AMA). ©2025 Premera All Rights Reserved.

Scope: Medical policies are systematically developed guidelines that serve as a resource for Company staff when determining coverage for specific medical procedures, drugs or devices. Coverage for medical services is subject to the limits and conditions of the member benefit plan. Members and their providers should consult the member benefit booklet or contact a customer service representative to determine whether there are any benefit limitations applicable to this service or supply. This medical policy does not apply to Medicare Advantage.

