Cigna Medical Coverage Policy

Effective Date ..................... 4/15/2017
Next Review Date .................. 4/15/2018
Coverage Policy Number ............. 0335

Subject  Otoplasty and External Ear Reconstruction

Table of Contents
Coverage Policy .............................................. 1
General Background ....................................... 2
Coding/Billing Information .............................. 5
References ..................................................... 5

Related Coverage Resources
Cochlear and Auditory Brainstem Implants
Prosthetic Devices: External, Facial, Internal Ocular Hearing Aids
Scar Revision

INSTRUCTIONS FOR USE
The following Coverage Policy applies to health benefit plans administered by Cigna companies. Coverage Policies are intended to provide guidance in interpreting certain standard Cigna benefit plans. Please note, the terms of a customer's particular benefit plan document [Group Service Agreement, Evidence of Coverage, Certificate of Coverage, Summary Plan Description (SPD) or similar plan document] may differ significantly from the standard benefit plans upon which these Coverage Policies are based. For example, a customer's benefit plan document may contain a specific exclusion related to a topic addressed in a Coverage Policy. In the event of a conflict, a customer's benefit plan document always supersedes the information in the Coverage Policies. In the absence of a controlling federal or state coverage mandate, benefits are ultimately determined by the terms of the applicable benefit plan document. Coverage determinations in each specific instance require consideration of 1) the terms of the applicable benefit plan document in effect on the date of service; 2) any applicable laws/regulations; 3) any relevant collateral source materials including Coverage Policies and; 4) the specific facts of the particular situation. Coverage Policies relate exclusively to the administration of health benefit plans. Coverage Policies are not recommendations for treatment and should never be used as treatment guidelines. In certain markets, delegated vendor guidelines may be used to support medical necessity and other coverage determinations. Proprietary information of Cigna. Copyright ©2017 Cigna

Coverage Policy

Coverage for otoplasty and/or external ear reconstruction is dependent on benefit plan language and may be subject to the provisions of a cosmetic and/or reconstructive surgery benefit. In addition, this service may be governed by state mandates.

Under many benefit plans formerly administered by Great-West Healthcare reconstructive services and surgery are covered when the reconstruction services are being performed for one of the following: 1) to relieve severe physical pain caused by an abnormal body structure; or 2) to treat a functional impairment caused by an abnormal body structure or to restore an individual's normal appearance, regardless of whether a functional impairment exists when the abnormality results from a documented illness that occurred within the preceding 12 months.

Please refer to the applicable benefit plan documents and schedule of copayments to determine benefit availability and the terms, conditions and limitations of coverage.

If coverage for otoplasty and/or external ear reconstruction is available, the following conditions of coverage apply.

Cigna covers external ear reconstruction as medically necessary for an external ear deformity or absence of an external ear if the surgery is expected to result in improvement of hearing.

Cigna does not cover EITHER of the following when performed solely to improve physical appearance because each is considered cosmetic in nature and not medically necessary:

• external ear reconstruction
• ear molding
Cigna does not cover otoplasty (CPT® code 69300) for any indication, including the following, because it is considered cosmetic in nature and not medically necessary (this list may not be all-inclusive):

- prominent/protruding ears
- lop ears
- cupped ears
- constricted ears

Cigna does not cover incisionless otoplasty for any indication, including treatment of prominent or protruding ears, because it is considered experimental, investigational or unproven.

General Background

Abnormal ear development may result from trauma or disease although most often the deformity is congenital. While some abnormalities require no intervention and will self-correct (e.g., caused by abnormal positioning in utero), some may be corrected non-surgically (e.g., ear molds), and others may require surgical correction. Nonsurgical treatment (e.g., ear molds) is generally employed as treatment shortly after birth when infant ear cartilage is soft and moldable. Ear molds are used to improve the appearance of the external ear and treatment is thus considered cosmetic.

External ear reconstruction is a surgical procedure that attempts to reconstruct the external ear to normal anatomical shape and appearance. Reconstruction involves various degrees of surgical repair and may be performed to correct the congenital absence of an external ear for conditions such as microtia and anotia or to correct an external ear that has been altered as a result of trauma or surgery. External ear deformities usually do not result in a functional deficit, such as hearing impairment (i.e., inability to hear normal conversation). In the absence of hearing impairment or other functional deficit external ear deformities generally do not require any intervention; treatment is considered cosmetic.

Otoplasty, a procedure to correct protruding ears, is performed to improve the appearance of ears and is performed solely for cosmetic purposes.

Congenital Abnormalities

Prominent/Protruding Ears: Prominent ears are a congenital abnormality in which the ears tend to project excessively from the skull. This condition may occur as a result of an inadequately formed antihelix (i.e., the outer frame of the auricle), an overdeveloped or excessively deep concha (i.e., hollow portion of the outer ear), or a combination of these conditions (American Society of Plastic Surgeons [ASPS], 2005). Normal prominence is defined as 1.2–2.0 cm from the post-auricular scalp to the lateral aspect of the superior helix. Ear prominence is typically defined as a protrusion of the helix 2 cm or more from the postauricular scalp. Otoplasty performed to correct prominent ears involves recreating an antihelical fold and possibly insetting or resecting the concha to decrease the prominence. The primary goal of surgical correction for prominent/protruding ears is improvement of physical appearance (i.e., cosmesis). In comparison to conventional methods which usually involve a post-auricular incision, incisionless otoplasty is a noninvasive method of correction under investigation that involves use of percutaneous sutures and scoring of the cartilage. It has been suggested incisionless otoplasty may result in fewer complications when compared to conventional methods. However, evidence in the peer-reviewed published scientific literature evaluating this technique is lacking and conclusions regarding safety and efficacy cannot be made at this time.

Microtia: Microtia describes an incompletely formed ear and is commonly associated with congenital aural atresia (Murakami, et al., 2010; Kelly and Scholes, 2007). It may occur as a single disorder, as a feature of hemifacial microsomia complex (i.e., one side of the face does not grow in proportion to the other side), or as part of a congenital syndrome, such as Treacher Collin’s syndrome. While there is no universally accepted classification system for microtia, a system that assigns grades based on the severity of the deformity has been adopted (Zim, 2003; Murakami, et al., 2010). Microtia may be divided into the following categories:
**Type I**  A mildly deformed ear that has a slightly dysmorphic helix and antihelix. The external auditory meatus is usually present.

**Type II**  Ears that have all major structures present to some degree, but with an absolute deficiency of tissue; surgical correction requires the addition of cartilage and skin; the external auditory meatus is present but may demonstrate some degree of deformity. The auricle is usually hook-, S- or question-mark shaped in appearance.

**Type III**  Few or no recognizable landmarks of the auricle or canal although the lobule is usually present and positioned anteriorly.

Microtia may result in subtle abnormalities of the size, shape and location of the pinna and ear canal, or it may occur as a major deformity, with small remnants of skin and cartilage, as well as absence of the ear canal opening. Mild ear deformities are associated with altered physical appearance and are usually not associated with a functional deficit. Deformities that may be considered Type I deformities include mildly constricted ears, lop-ear deformities (characterized by an absence of the antihedral fold causing the ear to fall forward) and cupped-ear deformities (excessive cartilage of the ear canal causing the ear to project outward). With these deformities, all major structures are present to some degree.

Type II deformities may include miniear and severe cup deformities. The external auditory meatus is present, although it may demonstrate some degree of stenosis.

Anotia is the complete absence of the external ear and auditory canal and may be considered Type III microtia, although a few sources consider this a fourth degree of severity.

The inner ear function of the affected ear usually remains adequate, resulting in some ability to hear on the affected side (Bonilla, 2009) and the contralateral ear is usually normal, allowing for normal development of speech. However, sensorineural, conductive, or mixed hearing loss may be present in the microtia patient (Beahm, Walton, 2002; Kelly, Scholes, 2007) and it has been reported that hearing impairment may be reduced by approximately 40% on the affected side. Congenital deformities of the ear may be coupled with abnormalities involving the external ear canal (EAC) and tympanic membrane; consequently, these abnormalities may affect sound conduction. Microtia has also been associated with middle ear abnormalities; patients with complete or partial stenosis of the EAC commonly have severe ossicular malformations (Kim, et al., 2002).

Ear reconstruction may be performed to improve physical appearance for patients with microtia, although, when considering surgery, emphasis is also placed on restoring sufficient hearing to allow normal speech development. Other operations, such as canal or middle ear reconstruction, may be performed to improve patient outcomes. Surgery performed to improve hearing is recommended if there are bilateral deformities resulting in conductive hearing loss (Haddad, 2011) or for unilateral microtia with impaired hearing of the normal ear (Medicare Services Advisory Committee [MSAC], 2000). In patients with bilateral microtia, bone conduction hearing aids are often recommended (Murakami, et al., 2010; Kelly, Scholes, 2007). Hearing amplification is not usually required for unilateral atresia, although binaural hearing is superior to monaural in terms of sound localization and speech perception.

Although it may be performed on adults, it is generally recommended that external ear reconstruction for treatment of ear deformities, more specifically microtia, be performed when the patient is between ages six and eight. By this age, the ear has reached 85–90% of its adult size. In addition, at this time, the patient's rib size is sufficient to allow a rib graft. Early surgery may also result in the avoidance of social problems for the child. In cases of bilateral microtia, reconstructions may begin as early as age four.

**Trauma/Neoplasm**
Trauma to the ear may result from burn injuries, human or animal bites, falls or motor vehicle accidents. The unavoidable exposure to sun of the helical rim of the ear contributes to the development of skin neoplasm and removal with precise margin control is recommended. Despite efforts to preserve healthy tissue in the presence of tissue injury or neoplasm, reconstruction is often necessary to improve physical appearance and function. For some patients, auricular prostheses may be considered an alternative to ear reconstruction. Nonetheless, reconstruction to improve physical appearance in the absence of improving function is considered cosmetic.

**Cochlear Implant**
Sensorineural hearing loss may occur as a result of congenital defects, disease or trauma of the inner ear, and can cause significant hearing impairment. When the hearing loss becomes profound and a hearing aid is ineffective, a cochlear implant may maximize hearing ability for patients.

Cochlear implants have two integral components:
- The internal component consists of a receiver-stimulator connected to an infracochlear electrode array made up of electrode rings that are integrated into a silicone carrier. The stimulator is implanted in the skull near the cochlea and is connected to the electrode array via a lead wire.
- The external component consists of a microphone worn on the external ear, a speech processor worn at ear-level or on the body, and a transmitter worn behind the ear.

Although considered rare, sensorineural hearing loss may occur with congenital ear anomalies such as aural atresia and microtia. Aural atresia is a congenital defect characterized by malformations of the external and middle ear structures. Consequently, otoplasty may be considered as part of the reconstructive process and implantation of a cochlear device. Cochlear microphone placement may be difficult in some cases and external ear reconstruction may be required to facilitate use of the device.

Treatment
Minor deformities in ear shape may be overcome by early splinting or taping of a newborn child’s ear (Burns, Blackwell, 2004). Nonsurgical treatment of microtia, involving a prosthetic device, is an alternative to surgical correction. Bone-anchored hearing aid devices are often used to improve conductive hearing loss for cases of bilateral microtia involving hearing impairment.

Surgical repair is generally performed for cosmetic purposes and in some rare situations, functional reasons. The overall goal is to reconstruct an ear that is normal in appearance and function. For some cases an incision is made behind the ear to reduce one or more components, for other more extensive cases reconstruction may involve cartilage reshaping and sculpturing. The reconstruction surgery for severe cases typically involves multiple stages that are performed at least three to six months apart. The initial stages involve the removal of scarred, deformed tissue and the implantation of costal cartilage (e.g., rib cartilage grafting); additional stages are performed for lobule transfer, postauricular skin grafting and tragus reconstruction (Murakami, et al., 2010). Although numerous implants are available for surgical reconstruction of the ear, the gold standard of therapy for treating microtia deformities is autologous rib cartilage grafting. In cases where there is associated aural atresia or decreased hearing in the contralateral normal ear, a separate surgery is indicated to restore hearing function.

Complications associated with otoplasty and/or external ear reconstructive procedures include bleeding, infection and possibly pneumothorax if a rib graft is used. Complications associated with middle ear surgery for improvement of hearing include restenosis of the external auditory canal and damage to the facial nerve (Bonilla, 2009).

Professional Societies/Organizations
Guidelines and/or position statements from the American Academy of Pediatrics do not comment on the performance of otoplasty for treatment of external ear deformities. According to the American Society of Plastic Surgeons (ASPS), otoplasty is considered a reconstructive surgery that may be performed in children or adults, although the procedure is more common in children (ASPS, 2005).

Use Outside of the US: The National Institute for Health and Care Excellence (NICE) issued a procedural guidance for incisionless otoplasty (NICE, 2012) using minimal percutaneous access for the treatment of protruding or prominent ears. Interventional procedure guidance documents were not found for conventional otoplasty or external ear reconstruction. According to the guidance, incisionless otoplasty should only be used with special arrangements for clinical governance, consent and audit, or research due to inadequate evidence.

Summary
Otoplasty, correction of protruding ears, is frequently performed to improve physical appearance. When the procedure is performed solely to improve physical appearance, treatment is considered cosmetic.

For severe ear deformities there may be associated loss of hearing requiring surgical reconstructive procedures to correct the functional deficit. The published, peer-reviewed scientific literature provides evidence to support that when performed in cases involving canal malformation for example external ear reconstruction in
 combination with auricular reconstruction and atresia repair can be effective in improving hearing impairment for selected cases. Although rare, external ear reconstruction may also be considered medically necessary when performed as part of a reconstructive process involving cochlear implantation if difficulties arise with cochlear microphone placement.

Coding/Billing Information

Note: 1) This list of codes may not be all-inclusive.
2) Deleted codes and codes which are not effective at the time the service is rendered may not be eligible for reimbursement.

External Ear Reconstruction

Covered when medically necessary:

<table>
<thead>
<tr>
<th>CPT® Codes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>69310</td>
<td>Reconstruction of external auditory canal (meatoplasty) (eg, for stenosis due to injury, infection) (separate procedure)</td>
</tr>
<tr>
<td>69320</td>
<td>Reconstruction external auditory canal for congenital atresia, single stage</td>
</tr>
<tr>
<td>69399</td>
<td>Unlisted procedure, external ear</td>
</tr>
</tbody>
</table>

Cosmetic/Not Medically Necessary/Not covered:

<table>
<thead>
<tr>
<th>CPT® Codes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>69310</td>
<td>Reconstruction of external auditory canal (meatoplasty) (eg, for stenosis due to injury, infection) (separate procedure)</td>
</tr>
<tr>
<td>69320</td>
<td>Reconstruction external auditory canal for congenital atresia, single stage</td>
</tr>
<tr>
<td>69399†</td>
<td>Unlisted procedure, external ear</td>
</tr>
</tbody>
</table>

†Note: Cosmetic/Not Medically Necessary/Not covered when used to report ear molding solely to improve physical appearance.

Otoplasty

Cosmetic/Not Medically Necessary/Not covered:

<table>
<thead>
<tr>
<th>CPT® Codes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>69300</td>
<td>Otoplasty, protruding ear, with or without size reduction</td>
</tr>
</tbody>
</table>

Incisionless Otoplasty

Experimental/Investigational/Unproven/Not Covered:

<table>
<thead>
<tr>
<th>CPT® Codes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>69399</td>
<td>Unlisted procedure, external ear</td>
</tr>
</tbody>
</table>


References


