

جامعة الإمام عبد الرحمن بن فيحثل IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY

مستشفى الملك فهد الجامعي King Fahad Hospital The University

Congenital Ear Differences



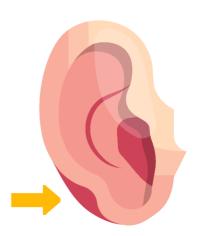
What are congenital ear differences?

It is the result of errors during the embryonic development of the fetus's auricular cartilage during the fifth to ninth weeks of pregnancy, which affects the normal growth of the ear.

They can be divided into two separate categories:

- Defects that occur early in fetus development
 (Such as microtia, hearing loss and cryptotia)
- Deformities that occur usually occur late in development and are related to external pressure.

(Such as low set ear, cupped ear, prominent ears)



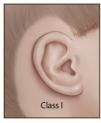
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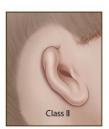
Because the human ear has important aesthetic and cultural values, external ear abnormalities can significantly impact a child's ability to communicate socially. As a result, a coordinated, experienced team is essential in order to treat these conditions appropriately.



1. Incomplete formation of the external Ear (Microtia):





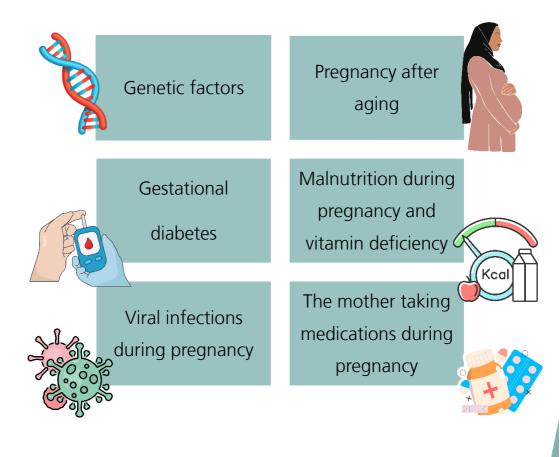






In these cases, the ear may be undeveloped or partially formed, and it usually affects males more than females, and is usually on one side. It may be associated by hearing loss, so in these cases it is necessary to ensure the presence of the middle ear and the child's ability to hear immediately after birth.

1. Incomplete formation of the external Ear (Microtia):



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Treatment ways include:

The child's hearing ability must be confirmed so the ear doctors perform a hearing test and a CT scan.

In case of hearing problems, ear doctors treat them using external hearing aids or cochlear implants, depending on the case.

Ear restoration methods:

Artificial cartilage implantation: The operation can be performed when the child reaches the age of 5 years.

1. Incomplete formation of the external Ear (Microtia):

Ear restoration methods:

- Using cartilage from the rib cage to form the ear: The operation is performed when the child reaches the age of 10 years and is done in several stages.
- Using an artificial ear.

2. Prominent ear:

It is called when the ears are protruded, which the child may be born with, and it may be the result of an injury to the ear. Prominent ears do not cause any harm to the function of the ear, but they affect the child's psychological state, because their shape is not appropriate for the shape of the face.

It is important to note that the need to correct the infant's prominent ear is primarily cosmetic, but it is very important to maintain the child's psychological health, because without correcting the prominent ear, the child will feel very embarrassed and lack self-confidence, in addition to his unwillingness to engage in many activities.

How can prominent ears be treated and when?

It is treated surgically, using permanent sutures to return the ear to its proper place. This procedure is performed after the age of 5 years.

The procedure can be performed under local or general anesthesia depending on the patient's age and cooperation with the plastic surgeon.







Notes:	

Sources and References:

All illustrations from Canva.com

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