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Cholesteatoma

Cholesteatoma is a type of skin cyst located in the middle ear and skull bone (mastoid).

Causes

Cholesteatoma can be a birth defect (congenital), but it more commonly occurs as a complication of chronic ear infection.

Poor function in the eustachian tube leads to negative pressure in the middle ear. This pulls a part of the eardrum (tympanic membrane) into the middle ear, creating a pocket or cyst that fills with old skin cells and other waste material. The cyst can become infected. The cyst may get bigger and break down some of the middle ear bones or other structures of the ear, affecting hearing, balance, and possibly function of the facial muscles.

Symptoms

- Dizziness
- Drainage from the ear
- Hearing loss in one ear

Exams and Tests

An ear exam may show a pocket or perforation (opening) in the eardrum, often with drainage. The deposit of old skin cells may be visible with a microscope or an otoscope, a special instrument to view the ear. Sometimes a mass of blood vessels may be seen in the ear.

The following tests may be performed to rule out other causes of dizziness.

- CT scan
- Electronystagmography

Treatment

Surgery is needed to remove the cyst.

Outlook (Prognosis)

Cholesteatomas usually continue to grow if not removed. Surgery usually works, but you may occasionally need the ear cleaned by a health care provider. Additional surgery may be needed if the cholesteatoma comes back.

Possible Complications

- Brain abscess
- Deafness in one ear
- Dizziness (vertigo)
- Erosion into the facial nerve (causing facial paralysis)
- Labyrinthitis

- Meningitis
- Persistent ear drainage
- Spread of the cyst into the brain

When to Contact a Medical Professional

Call your health care provider if ear pain, drainage from the ear, or other symptoms occur or worsen, or if hearing loss occurs.

Prevention

Prompt and complete treatment of chronic ear infection may help to prevent some cases of cholesteatoma.

References

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