

allowing healing. The name of this procedure is called tympanoplasty. Surgery is typically quite successful in closing the perforation permanently and improving hearing. It is usually done on an outpatient basis.

Your doctor will advise you regarding the proper management of a perforated eardrum.

Before attempting any correction of the perforation, a hearing test should be performed. The benefits of closing a perforation include prevention of water entering the ear while showering, bathing or swimming (which could cause ear infection), improved hearing, and diminished tinnitus. It also may prevent the development of cholesteatoma (skin cyst in the middle ear), which can cause chronic infection and destruction of ear structures.

If the perforation is very small, otolaryngologists may choose to observe the perforation over time to see if it will close spontaneously. They also might try to patch a cooperative patient's eardrum in the office. Working with a microscope, your doctor may touch the edges of the eardrum with a chemical to stimulate growth and then place a thin paper patch on the eardrum. Usually with closure of the tympanic membrane improvement in hearing is noted. Several applications of a patch (up to three or four) may be required before the perforation closes completely. If your physician feels that a paper patch will not provide prompt or adequate closure of the hole in the eardrum, or attempts with paper patching do not promote healing, surgery is considered.

There are a variety of surgical techniques but all basically place tissue across the perforation.

Dr. D. S. Deenadayal, MS, DLO
 Specialist in Ear, Nose and Throat Diseases &
 Head and Neck Surgery

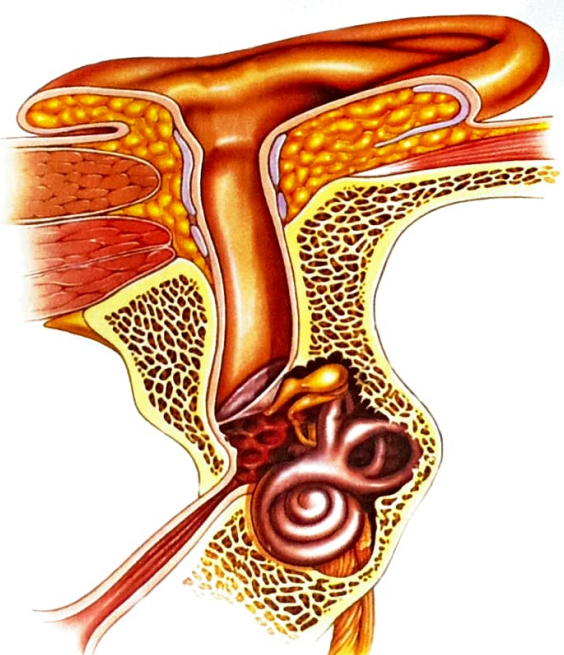
Email: aartclinic@yahoo.com

For Appointments Call: 27712700
 Between 10 am and 7 pm on weekdays

Timings

| | Yashoda Hospital | Aarthi Clinic |
|-----------|--------------------------|-------------------------|
| Monday | 10 am to 2 pm Surgery | 4 pm to 7 pm Surgery |
| Tuesday | 10 am to 2 pm Surgery | 4 pm to 7 pm Surgery |
| Wednesday | 10 am to 2 pm Surgery | 4 pm to 7 pm Surgery |
| Thursday | 10 am to 2 pm Surgery | 4 pm to 7 pm Surgery |
| Friday | 10 am to 2 pm Surgery | 4 pm to 7 pm Surgery |
| Saturday | 10 am to 2 pm Surgery | 4 pm to 7 pm Surgery |

Perforated Eardrum



Perforated Ear Drum

The causes of perforated eardrum are usually from trauma or infection. A perforated eardrum can occur

- if the ear is struck squarely with an open hand with a skull fracture
- after a sudden explosion

- if an object (such as a bobby pin, Q-tip, or stick) is pushed too far into the ear canal.
- as a result of hot slag (from welding) or acid entering the ear canal

Middle ear infections may cause pain, hearing loss and spontaneous rupture (tear) of the eardrum resulting in a perforation. In this circumstance, there may be infected or bloody drainage from the ear. In medical terms, this is called otitis media with perforation.

On rare occasions a small hole may remain in the eardrum after a previously placed PE tube (pressure equalizing) either falls out or is removed by the physician.

Most eardrum perforations heal spontaneously within weeks after rupture, although some may take up to several months. During the healing process the ear must be protected from water and

trauma. Those eardrum perforations which do not heal on their own may require surgery.

Usually the larger the perforation the greater the loss of hearing. The location of the hole



(perforation) in the eardrum also affects the degree of hearing loss. If severe trauma (e.g. skull fracture) disrupts the bones in the middle ear which transmit sound or causes injury to the inner ear structures, the loss of hearing may be quite severe.

If the perforated eardrum is due to a sudden traumatic or explosive event, the loss of hearing can be great and ringing in the ear (tinnitus) may be severe. In this case the hearing usually returns partially and the ringing diminishes in a few days. Chronic infection as a result of the perforation can cause major hearing loss.

A perforated eardrum is a hole or rupture in the eardrum, a thin membrane which separates the ear canal and the middle ear.

The medical term for eardrum is tympanic membrane. The middle ear is connected to the nose by the Eustachian tube, which equalizes pressure in the middle ear.

A perforated eardrum is often accompanied by decreased hearing and occasional discharge. Pain is usually not persistent.