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News & Events

Hole in the Eardrum & Myringoplasty -

ENT Conditions and Procedures

UPDATE

ABOUT THE CONDITION

How does the ear work?

Middle Ear

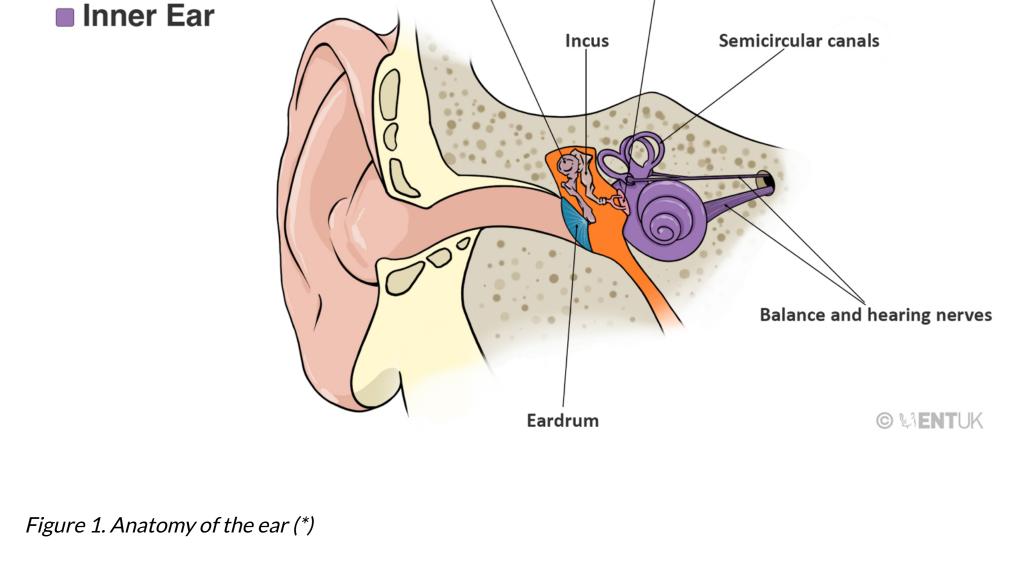
The ear consists of the outer, middle and inner ear. Sound travels through the outer ear and reaches the

stapes) in the middle ear. The vibration then enters the inner ear, where nerve cells produce signals that are carried to the brain, where they are interpreted as sound. See figure 1 for the anatomy of the ear. Outer Ear

Malleus

Stapes

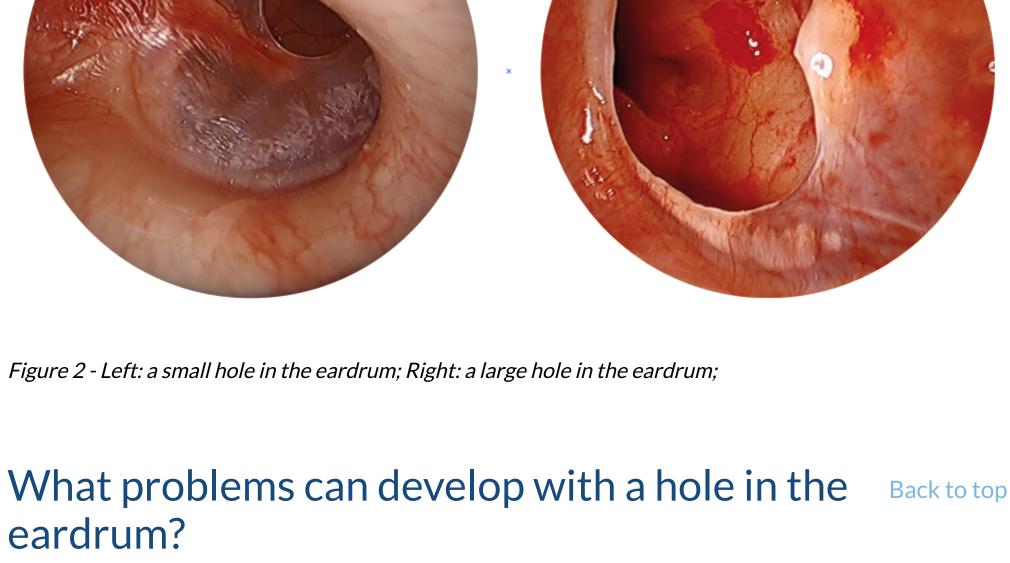
eardrum, causing it to vibrate. The vibration is transmitted through three tiny bones (the malleus, incus and



to affect the entire eardrum.

Holes in the eardrum are known as 'perforations' (see figure 2).

They can be caused by an infection or injury to the eardrum, and can be small, medium-sized or large enough



can cause a discharge from the ear, and large holes may reduce your hearing.

What symptoms may I develop? Back to top Often, small holes do not cause any problems. But you can develop infections that keep coming back, discharge from the ear (especially if you get water in your ear), and hearing loss.

Quite often, holes in the eardrum heal by themselves, and some do not cause any problems. However, they

Will I need any tests? You will need an examination by an otolaryngologist (ear, nose and throat specialist) to rule out an infection. They will look at the hole using a special instrument called an otoscope, which has a magnifying lens and a

light. An examination with an otoscope does not usually hurt. Sometimes you will need a more detailed

examination using a microscope and suction tool (a small vacuum cleaner). Some surgeons may use a small

telescope with a camera attached, called an endoscope. If your hearing is affected, you will need to have a

hearing test (called an audiogram) to measure the level of hearing loss. If you have severe hearing loss this

usually means that the tiny bones in the middle ear are not working properly or the inner ear is damaged.

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When you are showering or bathing, put a large piece of cotton wool covered in petroleum jelly (for example, Vaseline) in the outer part of your ear to stop water getting in. Once you have finished washing, remove the

What does surgery involve?

cotton wool and throw it away.

ABOUT THE PROCEDURE

Non-surgical management

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If you go swimming, swimming earplugs are helpful but they may not completely stop water getting into your ear. A swimming cap may also be useful.

holes can heal on their own without treatment. Many smaller holes may not cause any symptoms. But it is

important to prevent water from getting into your ear to reduce the chance of infection.

What is the benefit of having surgery?

ear (the part of the ear behind the eardrum). This reduces the chance of infection and stops the ear from leaking discharge. This surgery can be done as part of a mastoid operation (see our separate leaflet on mastoid surgery). Repairing the eardrum alone does not usually lead to a great improvement in hearing.

The benefits of surgery to close a hole in the eardrum include preventing water from getting in the middle

done under general anaesthetic. Some surgeons prefer to do them under local anaesthetic. A cut is made behind the ear or above the opening in the ear. Some surgeons may perform the operation

through the ear canal with the help of an endoscope or microscope. Occasionally, your surgeon may need to

The operation to close a hole in the eardrum is called a myringoplasty. Most myringoplasties in the UK are

The material used to patch the hole (called a graft) is taken from under the skin or the lining and cartilage in front of the ear canal. Some surgeons prefer to use manmade eardrum grafts. The eardrum graft is placed

Dressings are placed in the ear canal. These can be a removable pack or absorbent sponge dressings. You

may have a dressing on the outside of your ear and a bandage on your head for a few hours.

What are the alternatives to surgery? Back to top If the hole in your eardrum is not causing any symptoms (such as discharge from the ear, hearing loss or infections), you may decide not to have surgery. You may not be able to go swimming and will have to avoid

for this procedure. If your hearing is affected and you do not want to have surgery, you could consider using a hearing aid.

surgery? The complications and risks of any surgery are grouped into the following categories.

Uncommon: 1 in 100. One person in a street

Are there any complications after this

More than 1 in 10

1 in 10

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Rare: 1 in 1,000. One person in a village

Very rare: 1 in 10,000. One person in a small town Altered taste: One of the nerves responsible for taste runs close to the eardrum and may occasionally be damaged during surgery. This can cause an abnormal taste on one side of the tongue, which is usually temporary. Permanent taste disturbance is uncommon. Dizziness: This is common for a few hours following surgery. The dizziness can last for months or even years if the inner ear is damaged during surgery, but this is rare. **Hearing loss:** In most people, the hearing improves or stays the same after surgery. Rarely, severe deafness can happen if the inner ear is damaged. **Tinnitus:** Sometimes you may notice an extra noise in your ear after surgery, especially if the surgery causes your hearing loss to worsen. This is called tinnitus and is uncommon. **Facial weakness:** The nerve which moves the muscles of the face runs through the ear. There is a slight chance of temporary facial weakness after ear surgery. However, permanent weakness of the face following a myringoplasty operation is very rare. Facial weakness affects the movement of muscles in the face, making it difficult to close your eye, smile and raise your eyebrows. The weakness can vary, from mild to total paralysis. It may develop immediately after surgery or there may be a delay. Recovery can be complete or partial. Allergic reaction: The ear dressings contain medication to prevent infection. Some patients may develop a skin reaction to the ear dressings. If your ear becomes itchy or swollen, ask your surgeon for advice. **Complications of general anaesthetic:** The operation is usually performed under a general anaesthetic.

AFTER THE PROCEDURE

be taken back to the ward or day-case unit.

What happens after the operation?

attack, chest infection, stroke and death. The pre-assessment team and anaesthetist will explain to you what

How long will I stay in hospital? Back to top Many hospitals perform myringoplasty as day surgery. You will be able to go home once the operating team is satisfied that you have recovered from the anaesthetic. If for any reason there is a complication following surgery, you might need to stay in hospital for longer.

After the operation, you will be transferred to the recovery area. When your anaesthetic wears off, you will

holes. Other factors, such as whether or not you smoke, can affect the success rate.

ear canal. This usually comes from the antiseptic solutions in the ear dressings.

guide you may need to take up to one or two weeks off work.

What is the success rate?

doctor's surgery one to two weeks after the operation. There may be a small amount of discharge from the

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ear dressings with scissors and leave the rest in place. If the dressings in the ear canal are not dissolvable, they will be removed after two or three weeks by your surgeon at the hospital. You should keep your ear dry and avoid blowing your nose too hard. Put a cotton wool ball coated with Vaseline in your outer ear when you are having a shower or washing your hair. If your ear becomes more painful or is swollen, you should call

Some of the ear dressings may fall out. Don't worry if this happens. It is sensible to trim the loose end of the

Follow up care Back to top Your surgical team will tell you about any follow-up appointments you might need.

Permanent damage is uncommon.

QUICK FACTS

rare.

You may have an allergic reaction to the medication in the ear dressings.

Disclaimer: This publication is designed for the information of patients. Whilst every effort has been made

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ABOUT THE CONDITION

Hole in the Eardrum & Myringoplasty - UPDATE

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■ How does the ear work?

the eardrum?

- What problems can develop with a hole in
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What is the benefit of having surgery?

■ What is the recovery period? ■ What is the success rate? What else should I expect after surgery? Follow up care QUICK FACTS

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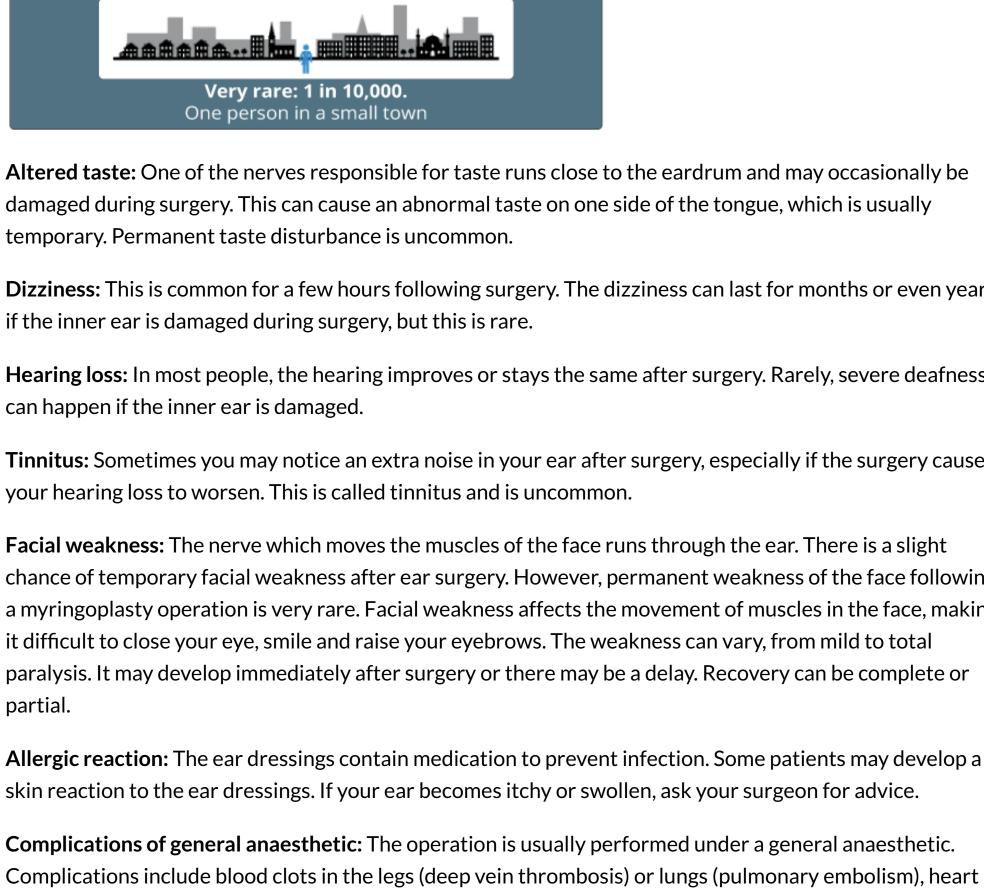
use a drill to widen the ear canal so they can get to the hole in order to repair it. against the eardrum.

water getting into your ear, to reduce the risk of infections.

Discharge and infections that keep getting better then coming back may be treated by regularly cleaning the

ear under a microscope and using antibiotic drops. You generally have to go to an ear, nose and throat clinic

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11/Risk-infographics_2019web.pdf

happens during a general anaesthetic and the associated risks that are relevant to you. The link below

summarises the common events and risks: https://www.rcoa.ac.uk/sites/default/files/documents/2019-

What is the recovery period? Back to top

Recovery time is usually only a few days. The exact time needed off work varies between patients, but as a

What else should I expect after surgery? Back to top Your ear may ache a little, but you can take painkillers to help with this. You may have a bandage on your head. If you do, you will usually go home after this has been removed. The stitches will be removed at your

For small holes, the operation works well nine times out of ten. The success rate is not quite so good for large

the ear, nose and throat department at your local hospital or your GP for advice.

A hole in the eardrum may not need any treatment. It is common to feel dizzy for a few hours after the operation. Rarely, the dizziness can last for months. After myringoplasty, your sense of taste may be different on the same side as you had the operation.

Very rarely, the facial muscles may be permanently weakened after the operation. Sometimes the weakness is temporary and recovers. Tinnitus can develop after the operation, but this is not common.

to ensure accuracy, the information contained may not be comprehensive and patients should not act upon it

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Your hearing may stay the same or improve after the operation. It could also become worse, but this is

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EAR, NOSE AND THROAT SURGERY

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