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For Public and Patients

For Health Professionals

News & Events

ENT Conditions and Procedures

Submandibular gland excision - Surgery for **Quick Links**

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infection and/or recurrent blockage - NEW

ABOUT THE CONDITION Back to top What is the submandibular gland?

SIENTUK

The submandibular gland is the second largest of the main salivary glands (see Figure 1). It is the size of a walnut and sits just below the jawbone on either side of the neck. The gland produces saliva, which drains

through a duct (tube) into the front of the mouth under the tongue.

1. Parotid gland 2. Submandibular gland 3. Sublingual gland Figure 1. The position of the main salivary glands What symptoms may I develop from the

antibiotics (antibiotics delivered into the veins with a drip). Rarely, a patient may develop an abscess (collection of pus) which needs to be drained, usually under a general anaesthetic.

submandibular gland?

completely. The submandibular gland may swell when you eat or drink, then shrink afterwards if the duct has an obstruction to the flow of saliva. The obstruction may be caused by a narrowing of the duct due to scar

Sometimes the gland suffers repeated infections and the treatment for this may be to remove the gland

An **infection** may cause swelling of the submandibular gland. The gland may feel hot and sore, or tender, to

touch. This can be treated with antibiotics. Sometimes patients need to go to hospital for intravenous

tissue formed after repeated inflammation. Sometimes a growth or tumour can develop in one of the glands, but this is rare. Please refer to the leaflet Submandibular gland excision – surgery to remove a lump.

ABOUT THE OPERATION - BENEFITS AND Back to top **ALTERNATIVES**

Will I need any tests? Back to top

If your doctor thinks you have an enlarged submandibular gland, they may organise an ultrasound scan to

obtain more information about the swelling. Sometimes the person performing the ultrasound will take a

Your surgeon has recommended surgery because you have had a lot of swelling and/or infections, which are

sample of cells (called a biopsy) from the gland with a small needle. This is called fine needle aspiration (FNA). Sometimes a sample of tissue is taken with a larger needle. This is called a core biopsy. Biopsies are usually taken when there is a lump in the submandibular gland.

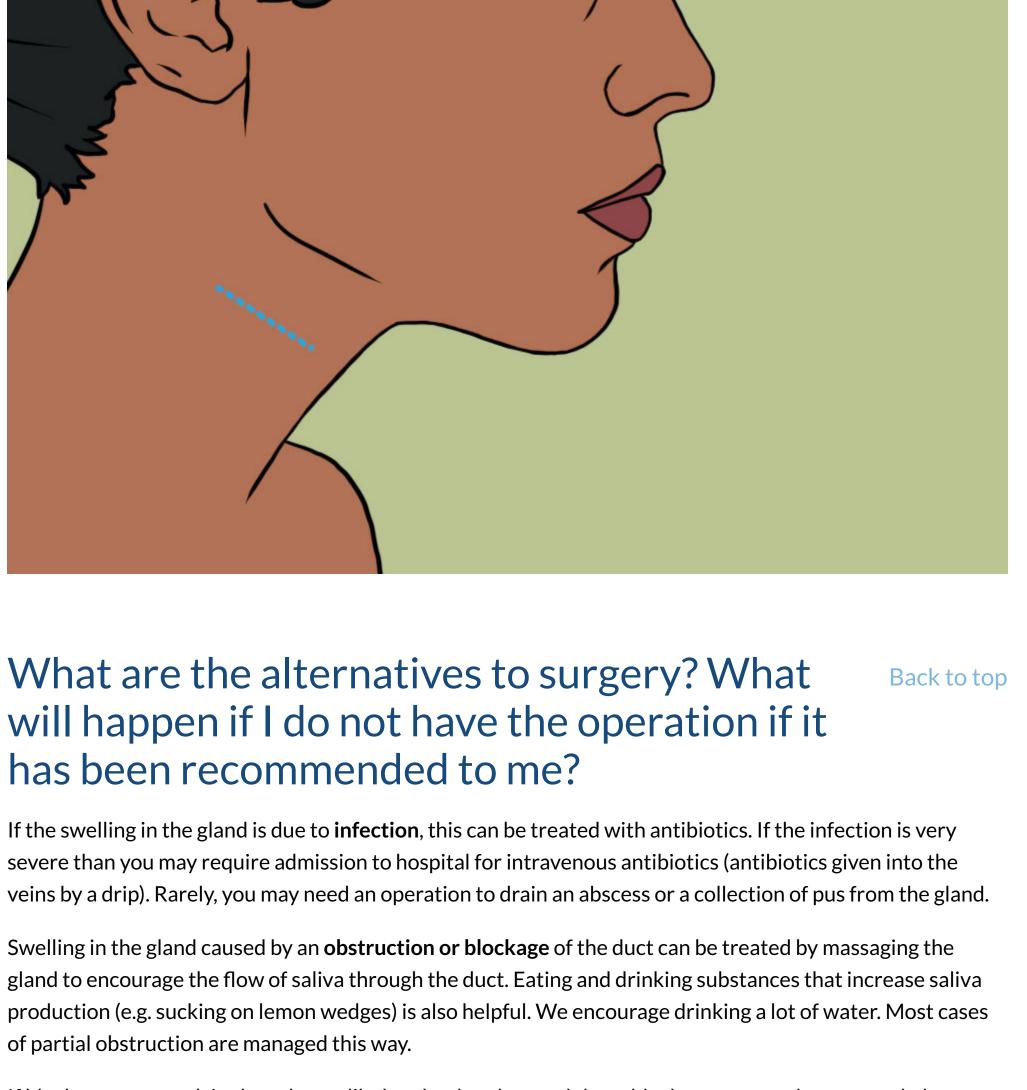
A tiny telescope may be used to see if there is a blockage in the duct. This is called **sialendoscopy**. This service is not available in every hospital. Only certain people with a blocked duct will benefit from this test.

tied off. A wound drain may be required if the gland was large or if you had a lot of infections of the gland. This is a plastic tube inserted through the skin, which prevents blood and fluid from collecting by allowing it to drain

The operation is performed while you are asleep under a general anaesthetic. A cut is made below the jaw

line. The cut is about five cm long and we try to hide it in a skin crease or wrinkle in your neck. The gland is

disconnected from its blood vessels and nerves. The gland is removed, and the stump of the salivary duct is



you are asleep). Your surgeon will carry out this procedure only after the worst of the swelling has settled down.

Sometimes the obstruction needs to be treated by dilating or stretching a narrowed duct, removing a

blockage from the duct or opening the duct surgically. This may be done in the outpatient clinic under local

anaesthetic (while you are awake) or sometimes it requires an operation under general anaesthetic (while

Complications are grouped into the following categories:

Nerve damage can occur, as there are a lot of important nerves right next to the gland. The tissue around the gland can be very inflamed and scarred if you have had a lot of infections. Your surgeon will be working as carefully as possible around the nerves, but they can be bruised or cut. Skin numbness It is very common to have some numbness of the skin around the scar. This may improve slightly over time but will not return to normal.

causing a blood clot or collection of blood under the skin. This is called a haematoma. Injury to larger blood vessels nearby is rare. if this happens the wound may need to be drained and washed. Wound infection and abscess Routine antibiotics are not provided after this operation, unless your surgeon saw during surgery that the

gland was infected. A wound infection might develop after the operation. The wound will be red, swollen and

hot, and you may develop a temperature. If this happens, please contact your GP for a prescription for

may require the wound to be re-opened and washed if an infection or an abscess develops.

WHAT SHOULD I EXPECT AFTER

What happens after the operation?

will be taken back to the ward or day surgery unit.

Will I have a drain in my neck?

antibiotics. Sometimes you may need to be admitted to hospital for antibiotics through the vein. You also

Bleeding is controlled during surgery. However, one of the small blood vessels might ooze afterwards,

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

A wound drain may be required, especially if the wound oozed a lot during surgery. The nursing staff will

monitor your neck and drain. You will be reviewed on the ward round and a decision will be made regarding

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when the drain can be removed. How long will I stay in hospital? Back to top

Some operations can be done as a day case, which means you can be discharged a few hours after your

If you are staying in hospital because a drain has been inserted during surgery, you will be discharged once

the drain has been removed. This is usually the day after the operation. Your surgeon will need to be satisfied

What is the recovery period? We recommend a couple of weeks to recover from the operation. If you need a sick note, please ask your surgical team.

A pathologist in a laboratory examines the gland after it has been removed. It may take a few weeks for you to get the result. You will be advised by your surgical team, who will either write to you with the result of your pathology

(what the lump is) or organise to tell you about the result in person, in clinic.

glands in the mouth which will still produce saliva and keep your mouth moist.

The skin on your upper neck, around the scar, maybe numb after surgery. Gentlemen should be careful

The nerve to the corner of your mouth may be temporarily weak after surgery. Sometimes the weakness

No. Removing a salivary gland does not significantly affect the production of saliva. There are other salivary

Altered tongue movement (tongue to one side)

to ensure accuracy, the information contained may not be comprehensive and patients should not act upon it without seeking professional advice

What is the submandibular gland? What symptoms may I develop from the

ABOUT THE CONDITION

submandibular gland?

involve?

- ABOUT THE OPERATION BENEFITS AND
- **ALTERNATIVES** What is the benefit of having surgery to
- remove the submandibular gland? ■ Will I need any tests? What does submandibular gland surgery
- What are the alternatives to surgery? What will happen if I do not have the operation if it
- has been recommended to me?
- ABOUT THE RISKS
- Are there any complications to this operation?
- WHAT SHOULD I EXPECT AFTER **SURGERY?**
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not getting better or less frequent with other treatments. Removing the gland should stop any further swelling and infections.

What is the benefit of having surgery to

remove the submandibular gland?

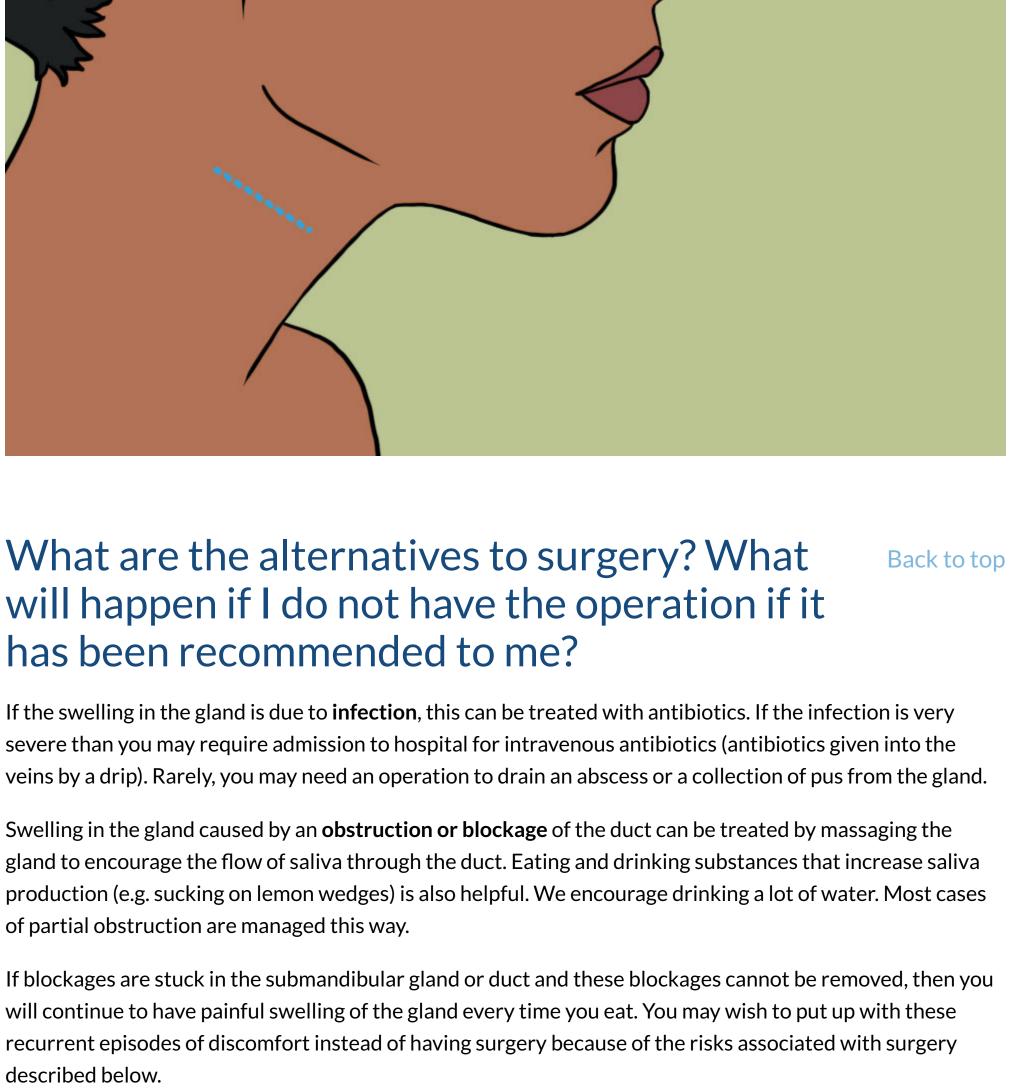
Other scans (such as an x-ray, a CT scan, or an MRI scan) may be required to give your specialist more information about the enlarged salivary gland. These scans will only be organised if your specialist thinks

that they are is necessary.

involve?

away. The skin will be closed with stitches or tissue glue.

What does submandibular gland surgery Back to top



ABOUT THE RISKS Back to top Are there any complications to this Back to top operation? All operations have an intended benefit but also have risks. Some of the risks described may be more

common if there have been a lot of infections of the submandibular salivary gland, as this means it will be

surrounded by scar tissue. Scar tissue can make important structures such as nerves and blood vessels

More than 1 in 10

1 in 10

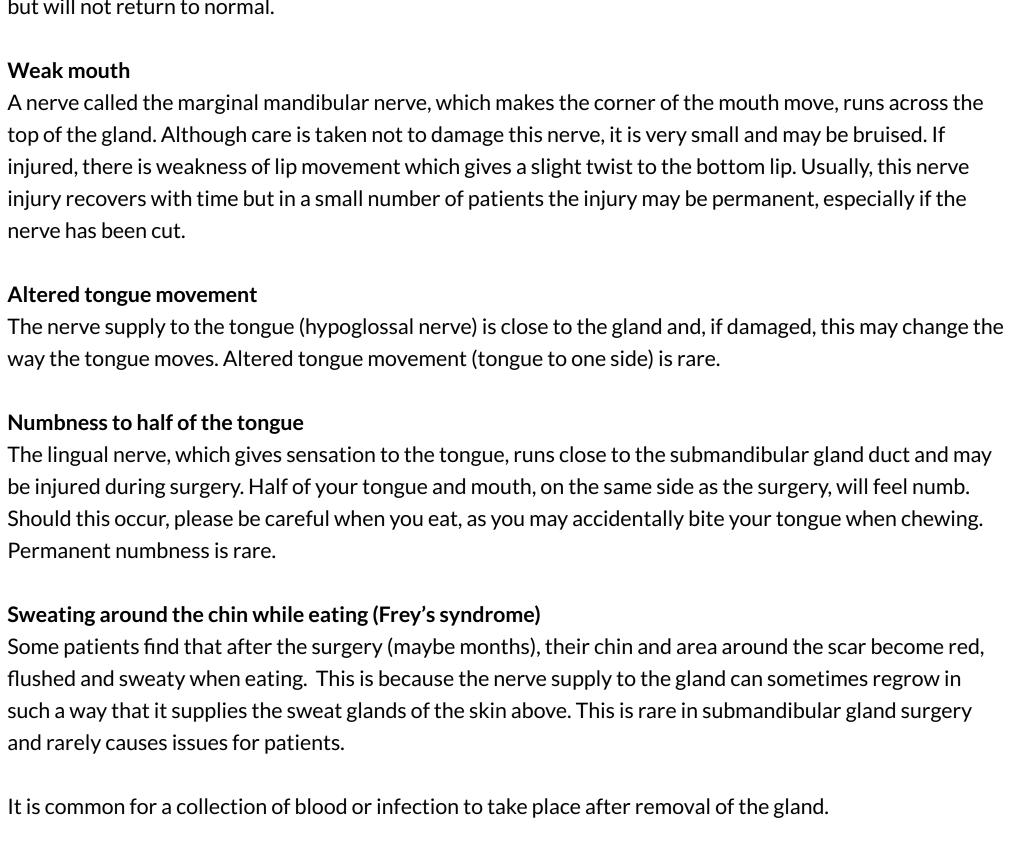
Rare: 1 in 1,000. One person in a village

Very rare: 1 in 10,000. One person in a small town

difficult to identify.

Nerve damage

Uncommon: 1 in 100. One person in a street



Bleeding and haematoma

General anaesthetic

SURGERY?

surgery.

Do I have stitches?

operation, or in the ENT outpatient department.

Will my mouth be dry?

QUICK FACTS

when shaving.

is permanent.

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These complications are rare. However, some patients have other medical conditions that predispose them to increased risks from a general anaesthetic. The pre-assessment team and anaesthetist will explain what happens during a general anaesthetic and the risks that are relevant to you. This link summarises the common events and risks of general anaesthetic.

The operation is performed under general anaesthetic. Complications include blood clots in the legs (known

as deep vein thrombosis) or lungs (pulmonary embolism), heart attack, chest infection, stroke, and death.

that your neck wound is healthy, and you are fit enough to go home. If for any reason, there is a complication following surgery, then you might need to stay in hospital for longer.

Follow-up Back to top

Some surgeons will close the wound with staples, stitches or skin glue. If you have staples or stitches, the

ward nurse will organise for these to be removed either at your GP practice, usually seven days after the

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