

E09 PEG

**Please note that the time on your appointment letter is the time you need to arrive at the Unit and not the time you will have your procedure.**

**You may have to wait for several hours from arrival to the start of your procedure, so please be prepared with, e.g. reading material.**

**You will not have a formal consultation, although we will inform you briefly of any pertinent findings and then return you to your referring doctor or nurse.**

**Please inform the department beforehand if you need a translator/interpreter.**

Please contact the Booking Services Team on **0207 288 3822** or email them on [whh-tr.endoscopy@nhs.net](mailto:whh-tr.endoscopy@nhs.net) for any queries or change of appointment.

If you have a question about your procedure or medications, please contact the hospital switchboard on **0207 272 3070** and ask for **bleep number 2711** from Monday to Friday 8:30 to 17:30 or alternatively contact your Doctor.

The Whittington Health is a teaching Hospital and sometimes a medical/nursing student can be asked to observe or participate in your procedure.

**If you have any problems after your procedure** please contact the endoscopy unit between 8:30 and 17:30, Monday – Friday, on 0207 288 3811/3812. Outside these times contact your GP or go to your nearest Accident & Emergency department, please remember to take a copy of your endoscopy report.



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## What is a PEG?

A percutaneous endoscopic gastrostomy (PEG) is a procedure to insert a feeding tube through your skin and into your stomach (see figure 1).

Your doctor has recommended a PEG. However, it is your decision to go ahead with the procedure or not.

This document will give you information about the benefits and risks to help you to make an informed decision. If you have any questions that this document does not answer, ask your doctor or the healthcare team.

## What are the benefits of a PEG?

The healthcare team is concerned that you are not able to eat or drink enough in the normal way. This is usually caused by a problem that makes it difficult for you to swallow such as a stroke (loss of brain function resulting from an interruption of the blood supply to your brain) or a growth in the wall of the pharynx (throat). A PEG should allow the healthcare team to give you the nutrients and fluid you need to stay alive. They can also give you medication through the tube.

A PEG will help you if you have a condition, such as cystic fibrosis, that increases the amount of nutrients you need to maintain your energy levels.

## Are there any alternatives to a PEG?

It is possible for the healthcare team to give you nutrients and fluid through a tube (nasogastric or NG tube) that is placed in your nostrils and down into your stomach. However, an NG tube is suitable only if you need help for a short time (less than 3 to 4 weeks) and if your throat is healthy. If you need help for longer or if there is a problem with your throat, your doctor will usually recommend a PEG.

The feeding tube can be inserted directly into your stomach by an operation (surgical gastrostomy) but this involves an anaesthetic and has a higher risk of complications.

The tube may be guided into your stomach using x-rays. This procedure has similar benefits and risks to a PEG.

It is also possible for the healthcare team to give you nutrients and fluid directly into your bloodstream (parenteral nutrition – PN). However, PN has more possible complications and is usually recommended only if you cannot take food through your digestive system.

Your doctor will tell you why a PEG has been recommended for you.

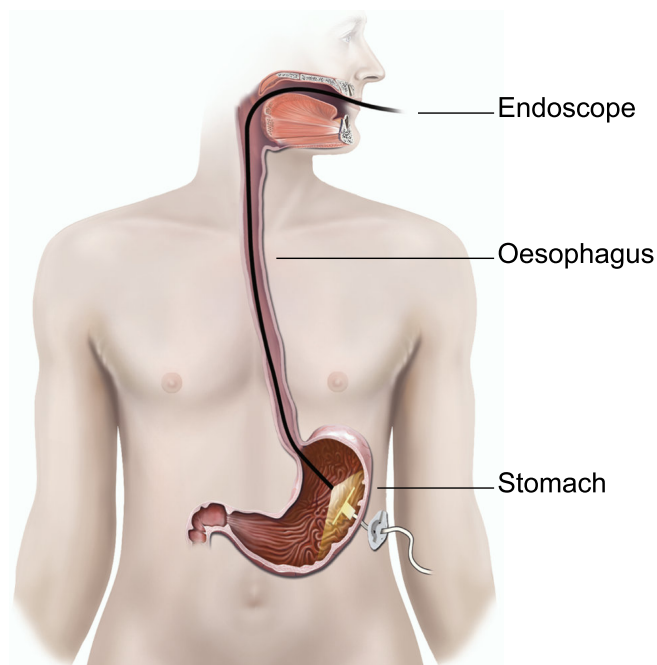


Figure 1  
A feeding tube in the stomach

## What will happen if I decide not to have a PEG?

Your doctor may be able to recommend another way of feeding you.

However, if a PEG is the only dependable way to give you fluid and nutrients, you may lose weight and become seriously ill.

If you decide not to have a PEG, you should discuss this carefully with your doctor.

## What does the procedure involve?

### Before the procedure

If you take warfarin, clopidogrel or other blood-thinning medication, let the endoscopist know at least 7 days before the procedure.

Do not eat or drink in the 6 hours before the procedure, even if you are already being fed using a tube. This is to make sure your stomach is empty so the endoscopist can have a clear view of your stomach. It will also make the procedure more comfortable. If you have diabetes, let the healthcare team know as soon as possible. You will need special advice depending on the treatment you receive for your diabetes.

The healthcare team will carry out a number of checks to make sure you have the procedure you came in for. You can help by confirming to the endoscopist (the person doing the PEG) and the healthcare team your name and the procedure you are having.

The healthcare team will ask you to sign the consent form once you have read this document and they have answered your questions.

## In the endoscopy room

The endoscopist may offer you a sedative to help you to relax. They will give it to you through a small needle in your arm or the back of your hand. The endoscopist will usually give you antibiotics through a small needle into a vein.

Once you have removed any false teeth or plates, they may spray your throat with some local anaesthetic and ask you to swallow it. This can taste unpleasant.

The endoscopist will ask you to lie on your left side and will place a plastic mouthpiece in your mouth.

The healthcare team will monitor your oxygen levels and heart rate using a finger or toe clip. If you need oxygen, they will give it to you through a mask or small tube under your nostrils.

If at any time you want the procedure to stop, raise your hand. The endoscopist will end the procedure as soon as it is safe to do so.

A PEG usually takes 15 to 20 minutes. It involves placing a flexible telescope (endoscope) into the back of your throat and down into your stomach. The endoscopist will use the endoscope to guide them while they insert the feeding tube.

The endoscopist may ask you to swallow when the endoscope is in your throat. This will help the endoscope to pass easily into your oesophagus (gullet) and down into your stomach. The endoscope will be used to blow air into your stomach to improve the view and to expand your stomach so that it presses against your abdominal wall.

The endoscopist will inject local anaesthetic into the area on your abdomen where they plan to insert the tube. This stings for a moment but will make the area numb, allowing the endoscopist to insert the tube into your stomach with much less discomfort for you.

They will press on your stomach to help them make sure that they insert the tube in the right position. The endoscopist may need to use a special device to attach your stomach to your abdominal wall.

The endoscopist will make a small cut on your abdominal wall so they can insert a hollow needle into your stomach. The endoscopist will pass a fine wire through the needle and into your stomach. They will use the endoscope to get hold of the end of the wire and will remove the endoscope, bringing the wire out of your mouth.

The endoscopist will attach the feeding tube to the wire and use the wire to pull the tube down into your stomach. They will use the needle as a guide while they bring the wire and tube out of your stomach and through the hole in your abdominal wall (exit site). The endoscopist will remove the needle to leave one end of the feeding tube in your stomach with about 8 to 10 centimetres of tube outside of your abdomen.

The tube has a bolster (cross-piece or internal flange) that sits inside your stomach and helps to prevent the tube from coming out. Over the next few months your stomach and abdominal wall will join together.

The procedure is not usually painful but you may feel bloated because of the air blown into your stomach.

## What complications can happen?

The healthcare team will try to reduce the risk of complications.

Any numbers which relate to risk are from studies of people who have had this procedure. Your doctor may be able to tell you if the risk of a complication is higher or lower for you.

Some complications can be serious.

You should ask your doctor if there is anything you do not understand.

The possible complications of a PEG are listed below.

## Early complications

- Bleeding during or after the procedure. This can usually be stopped by using the tube to put pressure on your wound.
- Damage to teeth or bridgework. The endoscopist will place a plastic mouthpiece in your mouth to help protect your teeth. Let the endoscopist know if you have any loose teeth.
- Allergic reaction to the equipment, materials or medication. The healthcare team is trained to detect and treat any reactions that might happen. Let the endoscopist know if you have any allergies or if you have reacted to any medication or tests in the past.
- Breathing difficulties or heart irregularities, as a result of reacting to the sedative or inhaling secretions such as saliva. To help prevent this from happening, your oxygen levels will be monitored and a suction device will be used to clear any secretions from your mouth.
- Making a hole in your oesophagus or stomach. You will need further treatment which may include surgery.
- Infection. Any infection is usually mild and affects only the area around the exit site (risk: 1 in 10). However, the tissues of your abdomen can get infected (risk: 1 in 1,000). Your doctor may give you antibiotics to reduce this risk. It is possible to get an infection from the equipment used, or if bacteria enter your blood. The equipment is disinfected so the risk is low but let the endoscopist know if you have a heart abnormality or a weak immune system. You may need treatment with antibiotics. Let your doctor know if you get a high temperature or feel unwell.

- Damage to your liver or intestine, if your liver or intestine is stuck close to your stomach as a result of previous surgery (risk: less than 1 in 500). This can be life-threatening.

- Inflammation of the lining of your abdomen (peritonitis), if some air or bowel contents leak into your abdominal cavity. Peritonitis can usually be treated with antibiotics and settles within 2 to 3 days. It may delay the time until the healthcare team can feed you using the tube.

- PEG tube falling out before your stomach properly joins to your abdominal wall. This is serious. Do not try to put the tube back. Call an ambulance or go immediately to your nearest Emergency department.

- Chest infection. The risk is higher if you already have problems swallowing and you need a sedative or the local anaesthetic spray. A chest infection can also be caused by reflux, where some of the food from the tube travels up into your oesophagus.

- Death which does sometimes happen with a PEG (risk: less than 2 in 100). The risk is less the fitter you are. The risk will increase if any other complications, such as a chest infection, happen following the PEG.

## Late complications

- Tissue granulation around the exit site, where moist tissue, dark pink or red in colour, develops around the tube as your body tries to heal your wound. A small amount is normal but a lot of granulation tissue can cause pain and make it difficult to care for the PEG tube. Follow your doctor's advice about using silver nitrate to treat the tissue.

- Blocked PEG tube. This can happen at any time but usually happens after a number of months as the tube deteriorates. You may need another PEG to replace the tube.

- Buried internal bolster. The bolster can sometimes get attached to the lining of your stomach. It is important to follow the advice from the healthcare team to help prevent this from happening.

- Leaking from the exit site, if over time the hole in your stomach gets larger than the tube. Sometimes the healthcare team will need to remove the tube for up to a few days to allow the hole to get smaller.

## How soon will I recover?

### In hospital

After the procedure you will be transferred to the recovery area and then to the ward.

If you were given a sedative, you will usually recover in about an hour but this depends on how much sedative you were given.

You may feel a bit bloated for a few hours but this will pass. You will usually have a tight feeling in the area where the feeding tube is. This settles within 1 to 2 days.

You (or your carer) will usually be trained by a specialist nurse or dietician who will show you how to feed yourself using the tube. It is important to follow the advice you are given to prevent infection and the tube becoming blocked.

Depending on how much support you need, you may not be able to look after yourself at home and may need to go to a care home. The healthcare team will support you. If you do go home the same day, a responsible adult should take you home in a car or taxi and stay with you for at least 24 hours. Be near a telephone in case of an emergency.

### Returning to normal activities

Do not drive, operate machinery or do any potentially dangerous activities (this includes cooking) for at least 24 hours and not until you have fully recovered feeling, movement and co-ordination. If you were given a sedative, you should also not sign legal documents or drink alcohol for at least 24 hours.

If you have a lot of pain when feeding, or if you have bleeding or leaking from the exit site within 3 days of having the feeding tube, it is important that you stop feeding and contact the healthcare team.

Depending on the problem that made it difficult for you to swallow, you should be able to return to your normal activities after 1 to 2 weeks. If you swim, use a waterproof dressing.

If you have any problems with the PEG tube or exit site, contact the healthcare team. In an emergency, call an ambulance or go immediately to your nearest Emergency department.

Do not drive until you are confident about controlling your vehicle and always check your insurance policy and with your doctor.

### Lifestyle changes

If you smoke, stopping smoking will improve your long-term health.

Regular exercise should improve your long-term health. Before you start exercising, ask the healthcare team or your GP for advice.

### The future

The healthcare team will monitor you closely. Your doctor will advise you on how long you need to have the tube. This will depend on the problem that made it difficult for you to swallow. If you no longer need the tube, your doctor will discuss this with you.

Once the PEG tube is removed, the hole in your stomach may leak for a few days but then usually heals by itself. If the hole does not heal properly, contents of your stomach can leak onto your skin (gastrocutaneous fistula). This is more likely if the PEG tube has been in place for longer than 8 months. You may need an operation.

### Summary

A PEG is usually a safe and effective way of allowing you to get the nutrients and fluid you need to stay alive. However, complications can happen. You need to know about them to help you to make an informed decision about the procedure. Knowing about them will also help to detect and treat any problems early.

**Keep this information document. Use it to help you if you need to talk to the healthcare team.**

#### Acknowledgements

Reviewer: Dr Kathy Teahon MD FRCP  
Illustrator: Medical Illustration Copyright ©  
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**This document is intended for information purposes only and should not replace advice that your relevant healthcare team would give you.**