

Information for patients and carers

Lumbar Puncture



Division of Medicine - Neurology



What is a lumbar puncture?

This is a procedure to obtain a sample of the fluid which surrounds the brain and spinal cord.

This fluid is called cerebrospinal fluid (CSF).

A needle is inserted into the space between two vertebrae (the bones in the back) to obtain a sample of the cerebrospinal fluid.

Why do I need a lumbar puncture?

The specimen of CSF obtained can be tested to give the neurologist more information, which may be helpful in the process of diagnosing specific neurological conditions.

In some neurological conditions, removal of a volume of CSF is undertaken as a treatment.

How will I need to prepare for this procedure?

You will be asked to give your consent for this procedure. It is important to let a member of the neurology team know beforehand if you are allergic to anything, such as local anaesthetic, antiseptic solution or plaster dressings.

You should also inform the clinician undertaking the procedure if you are taking any anti-coagulation or anti-platelet medications.

You can eat and drink normally before this procedure.

How will the procedure be carried out?

If you are an outpatient the procedure will often be done as a day case. You will be asked to lie on your side on a bed or coach. A member of staff will assist the clinician performing the procedure to position you in

the correct way. Typically your legs are brought upwards and your head is flexed slightly forwards. This helps to open up the natural gaps in your spinal vertebrae.

The clinician will locate an adequate spinal space by feeling the structures in your lower back. Once an adequate space has been identified the clinician will clean the lower back with antiseptic solution and infiltrate local anaesthetic in order to numb the skin and surrounding soft tissue.

The spinal needle is then gently advanced into the space between the vertebrae. It is normal to feel a pressure sensation during this part of the procedure.

The CSF pressure is measured and then a small volume of CSF is collected into specimen bottles. Once this has been completed, the spinal needle is removed and a skin dressing is placed over the puncture site.

This dressing can be removed after 24 hours.

What happens afterwards?

You will be asked to stay within the department for 30 minutes to an hour, so the team can monitor for any immediate complications.

Some patients can develop a headache a few hours after the procedure, which is worse on standing or sitting upright.

You will be advised to drink plenty of water after the procedure. If you develop a headache we advise taking simple painkillers such as paracetamol and consuming caffeinated beverages as these can help improve symptoms.

The results of the procedure are can take a few days to a few weeks to be finalised. Your neurologist will update you with the results once these are available. Following completion of the procedure you will normally be allowed to drive home yourself.

Are there any complications?

Around 1 in 10 people develop a headache and 40% complain of backache after the procedure. This usually resolves after 72 hours. Lying flat and drinking plenty of fluids are thought to minimise this. If the headache persists contact your GP or NHS 111 for further advice.

Other possible complications include:

- Infection
- Leakage from the puncture site
- Bleeding into the spinal canal and around the brain
- Damage to the spinal nerve roots, but this is very rare.

Should your headache becomes very severe, you develop a rash and/or temperature please attend your local emergency department and inform them you have had a lumbar puncture.

Contact details

Should you require further advice or information please contact our Neurology Admissions Coordinator on 01772 522317.

Sources of further information

www.lancsteachinghospitals.nhs.uk www.nhs.uk www.patient.co.uk www.accessable.co.uk All our patient information leaflets are available on our website for patients to access and download:

www.lancsteachinghospitals.nhs.uk/patient-information-leaflets

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If you want to stop smoking you can also contact the Quit Squad Freephone 0800 328 6297.

Please ask if you would like help in understanding this information. This information can be made available in large print and in other languages.

Gujarati:

આ માહિતીને સમજવામાં સહાયતા જોઇતી હોય તો કૃપા કરીને પૂછો. આ માહિતી મોટા છપાણ માં અને અન્ય ભાષામાં ઉપલબ્ધ કરી શકાય છે.

Romanian:

Vă rugăm să întrebați dacă aveți nevoie de ajutor pentru înțelegerea acestor informații. Aceste informații pot fi puse la dispoziție în format mare și în alte limbi."

Polish:

Poinformuj nas, jeśli potrzebna jest ci pomoc w zrozumieniu tych informacji. Informacje te można również udostępnić dużym drukiem oraz w innych językach

Punjabi:

ਜੇ ਤੁਸੀਂ ਇਹ ਜਾਣਕਾਰੀ ਸਮਝਣ ਵੀੱਚ ਮਦਦ ਲੈਣੀ ਚਾਹੋਗੇ ਤਾਂ ਕਰਿਪਾ ਕਰਕੇ ਇਸ ਬਾਰੇ ਪੁੱਛੋ। ਇਹ ਜਾਣਕਾਰੀ ਵੱਡੇ ਪ੍ਰਗੈਂਟ ਅਤੇ ਹੋਰਨਾਂ ਭਾਸ਼ਾਵਾਂ ਵੀੱਚ ਮਹੱਈਆ ਕੀਤੀ ਜਾ ਸਕਦੀ ਹੈ।

Urdu:

پوچھے۔یه معلومات دوسری ضرورت ہے تو براۓ مہربانیسمجھنے کے لئے مدد کی اگر آپ کو یه معلومات بھی دستیاب ہو سکتی ہے زبانوں اور بڑی چھپائی میں

Arabic:

بأحرف مطبوعةً المعلومات هذه توفسير يمكن .تطلب أن يُرجى المعلومات هذه فهم في مساعدةً تربد كنتَ إذا أ

Department: Neurology

Division: Medicine

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