

# Bronchoscopy with EBUS (Endobronchial ultrasound)

An information guide



# **Bronchoscopy with EBUS (Endobronchial ultrasound)**

## **What is a Bronchoscopy with EBUS (Endobronchial ultrasound)?**

Bronchoscopy with EBUS (Endobronchial ultrasound) is a test which enables the doctor to examine the air passages with a special camera. In the EBUS test an additional special telescope is used which has a small ultrasound probe at its tip which enables the doctor to see the lymph glands in the chest, and take small samples from them using a needle.

The EBUS test is done with sedation. This means that you will need to arrange for someone to pick you up from the day case unit and stay with you overnight. If there are any problems with this, please contact the respiratory secretaries. You **should not** drive, drink alcohol, sign any legal documents or operate machinery for **24 hours afterwards**.

## **Do I take my tablets on the day of the test?**

If you are on any blood thinning tablets or injections (Warfarin, Synthron, Clopidogrel, Ticagrelor, Prasugrel, Rivaroxaban, Apixaban, Dabigatran, Edoxaban or Dalteparin) then these will need to have been stopped prior to the procedure and you may be need to be issued with alternative medicine. The doctor in clinic should have checked your medicines with you.

If you are taking any of these medicines and you have not been advised when to stop them or you are unsure please can you contact the lung nurses or respiratory secretaries to be advised when to stop these prior to the procedure.

You should take all other tablets as normal

## **ALLERGIES**

It is important that you tell us if you are allergic to **latex (rubber compounds)**. We use a small rubber balloon on the tip of the EBUS telescope and if you have an allergy to it we will not be able to use the balloon.

We also use lignocaine, midazolam and fentanyl.

## **What happens on the day of the test?**

You will be seen by a nurse on the admitting ward who will ask some basic questions about your health. You will be seen by a doctor who will explain the procedure and ask you to sign the consent form.

A small needle will be placed in your arm through which we will administer a sedative. A probe will be placed on your finger to measure the oxygen level in your blood. Extra oxygen will be given to you through a fine tube placed at the entrance to your nose and your mouth will be sprayed with a local anaesthetic.

The standard bronchoscope will be passed through your mouth into your lungs. Local anaesthetic will be sprayed onto your voice box and airways to make them numb, this may make you cough. The procedure is not painful and does not restrict your breathing. Samples may be taken using the standard bronchoscope. You will then lie down flat and the EBUS camera will be passed through your mouth and specimens taken from the lymph glands with a needle.

The procedure will take about 30-45 minutes.

After the procedure you will be taken to the recovery area to wait until the sedation and local anaesthetic have worn off. The recovery time will be about 1 hour.

## Are there any risks?

Bronchoscopy with EBUS is extremely safe. During the test you will be closely monitored by experienced staff. Minor side effects can include mild sore throat for a few days and mild fever which settles with paracetamol. If you start to cough up green phlegm or feel especially "chesty" in the few days following the test this may be a sign of a chest infection. Your GP can advise you about the need for antibiotics.

Coughing up a small amount of blood after the test is to be expected and should settle in a day or two. More serious side effects are very rare :-

1. **Bleeding.** With all biopsy procedures there is a small risk of bleeding – however this is rare as the ultrasound shows where the main blood vessels are so that puncturing them with the needle can be avoided.

2. **Puncture of the lung (pneumothorax).** Very rarely the needle can puncture and collapse the lung, this is called a pneumothorax. It can be easily treated once recognised, either by simply observing you overnight in hospital or, very occasionally, by putting a small tube into the lung to allow the air to escape and the lung to re-expand.

3. **Respiratory depression.** The drugs we give to sedate you can slow your breathing down. For this reason your oxygen levels are monitored throughout the test. If the doctor performing the test thinks your breathing is too slow they can give you drugs to reverse the sedation.

4. There is a very tiny risk of death of less than 1 in 3000.

## **What are the benefits?**

The purpose of this test is to take samples from lymph glands inside the lungs in a safe and effective manner. By doing an EBUS we may be able to avoid the need for a more complicated surgical procedure called a mediastinoscopy. This is a surgical procedure done under general anaesthetic to sample the lymph nodes in the chest.

## **When will I get the results?**

Most patients will be given an appointment to come to the clinic one week after the test. If the test has been arranged by another team or another hospital your follow-up will be arranged by them.

## **Who do I contact if I have a problem?**

In the event of an emergency please dial 999 or contact the Emergency department. In the event of other queries prior to or following the procedure, please contact the respiratory secretaries or the lung specialist nurses. If you have a particular anxiety about this procedure before it is done please let us know and we will do our best to reassure you.

## **Contact numbers**

**Respiratory Secretaries** – ask for the consultant’s secretary via switchboard

### **Lung specialist Nurse Team**

Amanda Dand - 0161 627 8527

Chrissie Charlesworth - 0161 778 5481

Paula Hall - 0161 656 1943

Lisa Taylor - 0161 604 5814

Carol Telford - 0161 778 2693 (Tues - Wed)

Lesley Valentine - 0161 918 8583

Yasmin Hamdan - 0161 778 3789

Zoe Nichol - 0161 778 3789

Booking and Scheduling Department – 0161 778 2233

**Your Bronchoscopy with EBUS has been arranged for -**

Time and Date.....

Location - Day Services Unit, C Block, North Manchester General Hospital,

Delaunays Rd, Crumpsall, Manchester, M8 5RB

On the day of the test do not have anything to eat after -

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You may have some water after this time until 2 hours before the test.

Do not have anything to drink after -

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Please note that the timing of your procedure is not precise and there may be a delay due to a number of different factors such as the number and type of cases to be done.

**If English is not your first language and you need help, please contact the Interpretation and Translation Service**

Jeśli angielski nie jest twoim pierwszym językiem i potrzebujesz pomocy, skontaktuj się z działem tłumaczeń ustnych i pisemnych

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☎ : 0161 627 8770

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**For general enquiries please contact the Patient Advice and Liaison Service (PALS) on 0161 604 5897**

**For enquiries regarding clinic appointments, clinical care and treatment please contact 0161 624 0420 and the Switchboard Operator will put you through to the correct department / service**

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