

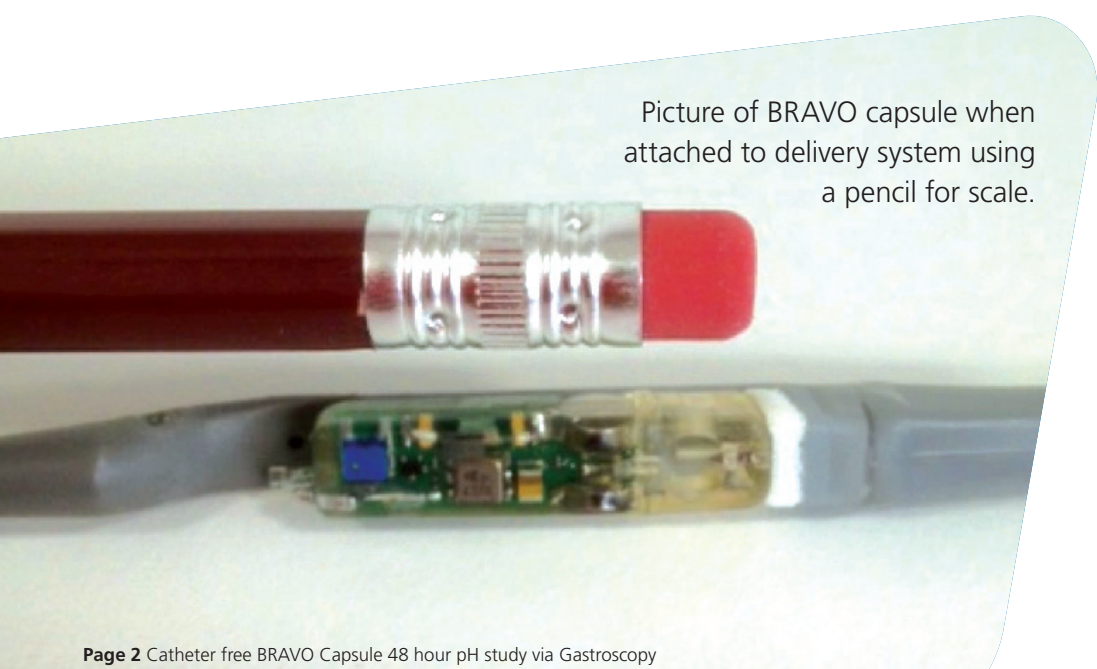
Catheter free BRAVO Capsule 48 hour pH study via Gastroscopy

Manchester Royal Infirmary
Gastrointestinal (G.I.) Investigations Unit



Introduction

Your consultant has referred you for a BRAVO capsule 48 hour pH study because you are having problems with your stomach. The most common reason for referral for this test is heartburn/ acid reflux.



Picture of BRAVO capsule when attached to delivery system using a pencil for scale.

What is a BRAVO capsule pH study?

This test is used to examine the amount of acid passing up from the stomach into the gullet. The BRAVO capsule is a small pill that attaches to the lining of the gullet above the valve for the stomach. The capsule sends wireless signals to a receiver to record the acid levels in the gullet over 48 hours.

What do I need to do before the test?

You will be sent a letter from the Endoscopy that will tell you how to prepare for a Gastroscopy Unit procedure. Please follow the instructions provided.

For the BRAVO study we need you to stop certain medications (see list below) before the test.

STOP 7 DAYS BEFORE TEST

Lansoprazole (Zoton)
Omeprazole (Losec)
Pantoprazole (Protium)
Rabeprazole (Pariet)
Esomeprazole (Nexium)

STOP 2 DAYS BEFORE THE TEST

Ranitidine (Zantac)
Cimetidine (Tagamet)
Dyspamet
Famotidine (Pepcid)
Axid (Nizatidine)
Metoclopramide
Domperidone
Gaviscon
Pyrogastrone
Maxalon
Maalox
Rennies
Settlers
Bisodol
Magnesium Trisilicate
Gastrocote

What does the test involve?

You will be asked to attend the Endoscopy Unit, where they will prepare you for a Gastroscopy procedure (see Gastroscopy leaflet). During the gastroscopy, the endoscopist will assess the lining of the gullet by inserting a camera down the gullet and into the stomach. They will also measure where to place the BRAVO capsule.

The camera will then be removed and the BRAVO capsule will be inserted through the mouth and down the throat to the required position. The capsule is pinned to

the lining of the gullet and it will then transmit signals to a receiver. The receiver is about the size of a mobile phone and can either be carried in an over shoulder pouch or clipped onto your belt.

The capsule will send signals to the receiver for 48 hours, when the receiver will stop recording automatically. The capsule will stay attached to the lining of the gullet for between 5–12 days where it will drop off and pass naturally through your digestive system.

Will it be painful?

No. It will be uncomfortable during the procedure and you may feel a strange sensation between your ribs where the capsule is attached. Some patients have reported discomfort when swallowing. If you experience this, chewing carefully and drinking liquids may help minimise this sensation.

You also might have chest pain. You can take pain relief medication such as paracetamol and ibuprofen to help ease this. However if the pain becomes severe, please contact the Endoscopy department (between 8.00 am – 6.00 pm) or go to your nearest A&E department.

What do I do during the test?

Before you leave the Endoscopy department, a Clinical Physiologist will discuss a diary sheet with you. Over the 48 hour test period, you will be asked to complete a diary listing your activities. You can eat and drink as normal and can continue your normal activities.

You can shower/bathe during the test but DO NOT take the receiver in with you as it is not waterproof. The receiver can pick up signals from the capsule up to 3 feet (1 metre) away so you can leave it in a safe, dry place nearby when you bathe and put it back on when you are dry.

How do I care for the receiver?

During the 48 hour study period, you need to ensure the receiver is with you at all times. Please ensure you keep it dry.

The receiver may beep during the procedure and show a flashing 'C1' on the screen on top. This can be due to:

1. The receiver being out of range from the capsule
2. External interference – Wireless broadband, Wifi, Bluetooth devices and mobile phones may use the same frequency as the capsule.

If this happens:

1. Bring the receiver close to your chest bone and keep it there until the flashing C1 message disappears. Then keep the receiver within 3 feet distance of your chest.
2. Stop using your wifi/wireless broadband and move away from any potential source of interference.
3. If these actions do not work, please ring the department on 0161 276 4612.

Will I be able to take any medicine for indigestion during the test?

No. All medications have the effect of masking or reducing acid levels and therefore give an inaccurate result. You will be able to resume taking indigestion medication after the study.

Is the test suitable for all patients?

The test is not suitable for everyone. If you have bleeding disorders, strictures, severe oesophagitis, varices, obstructions, pacemaker or implantable cardiac defibrillator, you should not undergo a BRAVO procedure.

Additionally because the capsule contains a magnet, you should not have an MRI study within 30 days of undergoing a BRAVO pH study.

Benefits and Risks

The BRAVO study is a good alternative to measure acid reflux in patients who cannot tolerate a tube down the nose for 24 hours.

Complications are very rare and those associated with gastroscopy are documented in the leaflets sent with your appointment letter. Potential complications with the BRAVO pH capsule include:

- Tears in the oesophageal lining, causing bleeding and possibly requiring medical attention

- Perforation of the oesophagus
- Premature detachment of the capsule

You can read more about this test at the following website:

www.diagmed.co.uk/download.pdf

www.givenimaging.com/en-us/PressKitDocuments/Bravo%20Patient%20Brochure.pdf

What happens next?

Once the study has been completed, you will be asked to return the receiver and your diary sheet to the GI Investigations Unit. It is very important that you return the receiver promptly on the day agreed with the Clinical Physiologist as the receiver is needed for use by other patients.

The recording will be uploaded and the results sent to your consultant. The consultant will write to you to arrange an out-patient appointment where they will explain the results to you and discuss further treatment.

Any questions?

If you have any questions please contact us using the details below.

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Please protect our patients, visitors and staff by adhering to our no smoking policy. Smoking is not permitted in any of our hospital buildings or grounds, except in the dedicated smoking shelters in the grounds of our Hospital site.

For advice and support on how to give up smoking, go to www.nhs.uk/smokefree.

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بماری یہ پالیسی ہے کہ خاندان ، رشتہ دار اور دوست مریضوں کے لئے ترجمہ نہیں کر سکتے۔ اگر آپ کو مترجم کی ضرورت ہے تو عملے کے کسی رکن سے کہیں کہ وہ آپ کے لئے اس کا بندوبست کر دے۔

ইহা আমাদের নীতি যে, একজন রোগীর জন্য তার পরিবারের সদস্য, আত্মীয় বা কোন বন্ধু অনুবাদক হতে পারবেন না। আপনার একজন অনুবাদকের প্রয়োজন হলে তা একজন কর্মচারীকে জানান অনুবাদকের ব্যবস্থা করার জন্য।

Nasze zasady nie pozwalają na korzystanie z pomocy członków rodzin pacjentów, ich przyjaciół lub ich krewnych jako tłumaczy. Jeśli potrzebują Państwo tłumacza, prosimy o kontakt z członkiem personelu, który zorganizuje go dla Państwa.

Waa nidaamkeena in qoys, qaraaboamasaaxiiboaysanu tarjumikarinbukaanka. Haddiiad u baahatotarjumaankacodsoxubinka mid ah shaqaalahainaykuusameeyaan.

我们的方针是，家属，亲戚和朋友不能为病人做口译。如果您需要口译员，请叫员工给您安排。



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