Screening and Symptomatic Testing for Bowel Cancer - *A Single Solution*

Hitachi Chemical

alpha laboratories
supplying quality to science

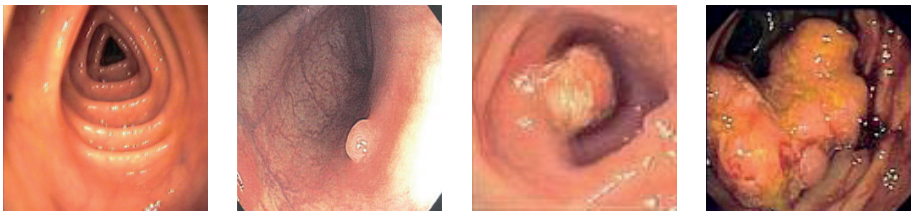
Quantitative Faecal Immunochemical Testing for Haemoglobin with Flexible Cut-off Results

FIT for Clinicians -
Symptomatic Patients and Screening Programmes

Why use FIT?

Evidence based

The NHS spent approximately £178.4 million during 2014 in England on performing colonoscopies, yet with approximately 40% of those no pathology is found. [Based on NHS tariff price] Identifying and prioritising those patients more likely to require urgent intervention could save significant costs, reduce waiting times and improve care.



Publications support the Faecal Immunochemical Test (FIT) for Haemoglobin (Hb) as a rule out test (NPV of FIT at 10μg Hb/g faeces is 100% for Cancer, 94.6% High-Risk Adenoma (HRA), 93.5% Low-Risk Adenoma (LRA) and Inflammatory Bowel Disease 94%[1]), and demonstrate that with an increased severity of disease a higher faecal Haemaglobin (F-Hb) concentration is detected. Thus FIT enables management of the patient pathway and most effective use of resources based on appropriate evidence.

- **Personalised Medicine**
  All patients are different and present with a range of symptoms and risk factors. The additional information provided by FIT testing can help determine the optimum management of each individual.

- **Resource Management**
  Waiting times for endoscopy resources are increasing. Performing an initial FIT test to categorise the patient could, with confidence, predict those for whom colonoscopy is not appropriate. This would remove 40% of patients from waiting lists, significantly improving the turn-around time for those remaining, and ensuring their treatment is optimised and actioned sooner.

- **Screening in the Asymptomatic Population**
  Using FIT technology, such as the HM-JACKarc automated system, within a screening programme, enables the adjustment of positive cut off concentration. This helps to control the number of referrals for colonoscopy within the limits of available resources. In addition, the specificity of FIT eliminates false positives caused by dietary factors, ensuring positive results are a true indicator of pathology.

1. Low faecal haemoglobin concentration potentially rules out significant colorectal disease
PJ McDonald, et al: . Accepted Article' doi:10.1111/codi.12087

Visit our website to view the full Patient Pathway diagram at www.alphalabs.co.uk/patientpathway

FIT for Patients

Informed choice
Concerned about their condition, patients want quick answers, with minimal intervention. With FIT testing they can have access to more information about the symptoms they exhibit and the possible causes for them.
Unfortunately IBS and other benign bowel disorders can exhibit similar symptoms to more serious conditions, such as colorectal cancers. As a consequence the longer it takes to resolve these concerns the more anxious patients become.

- **Rapid Response**
  For most, having a rapid non-invasive faecal test to get a faster diagnosis would be the preferred choice. Using a FIT result, about 40% of patients would be informed that no further follow up is necessary and hence relieved straight away. The remaining 60% would have the option of a prioritised process for colonoscopy and get their treatment solutions started sooner.

- **Risk Management**
  Invasive procedures are not without risk, and this is true of colonoscopy. 1 in 1,000 patients may suffer a perforated bowel during this procedure, with additional risk of morbidity. So with a non-invasive alternative now available shouldn't that be the first choice.

Additionally, delays in identifying any abnormal bowel pathology, also carries a higher risk of mortality. Hence, the ability to identify those at greater risk and then fast track these patients for appropriate colonoscopy and treatment is highly desirable. Treated early before it becomes invasive, bowel cancer has a 95% 5 year survival rate.

FIT for Laboratory testing

The Automated Quantitative Faecal Immunochemical Testing (FIT) system from Hitachi Chemical integrates Analyser technology, with Reagent and Collection device (arc), to provide a rapid and consistent, high throughput solution for both screening and symptomatic Faecal Occult Blood testing.

It combines the qualities of a state of the art automated analyser, a bespoke faecal collection device and dedicated, sensitive, latex agglutination reagents. This combination provides a high throughput solution for the detection and quantification of Faecal Occult Blood.

Key features:

- Sensitivity: Limit of detection 0.6μg Hb/g Faeces[2]
- Easy to use collection device
- Fully automated
- Compact and light
- No prozone effect up to 200,000μg Hb/g Faeces
- High speed performance: 200 samples/hour

2. Evaluation of quantitative faecal immunochemical tests for haemoglobin. GMEC evaluation report Sept. 2013.

Sampling at its Simplest

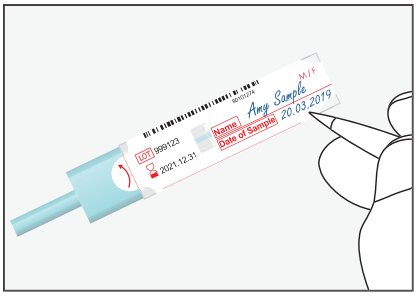
Faecal Immunochemical Test (FIT)

How to Complete Your Test

NHS
Your Logo Here

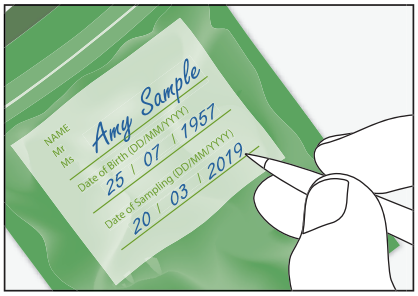
READ AND FULLY UNDERSTAND THESE INSTRUCTIONS BEFORE YOU BEGIN....

Your GP requires you to complete this **essential test.**
It is important that you do this **as soon as possible** and post **without delay** in the prepaid addressed envelope provided.



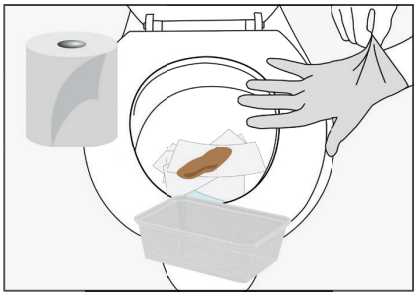
1 LABEL THE COLLECTION DEVICE

It is essential that you write **your name** and the **date the sample was taken** using **a ball point pen,** on the FIT collection device label.



2 LABEL THE GREEN BAG

On the green bag label write **your name, date of birth AND the date that your poo sample was taken**, using **a ball point pen.**

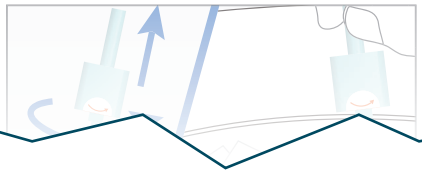


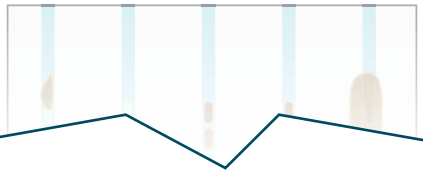
3 COLLECT YOUR POO

There are different ways to collect your poo, try:

A. Several layers of folded toilet paper
B. Hand inside a small plastic bag/glove
C. A clean disposable container

It is essential that your poo **does not come in contact with the toilet water** as this may affect the result.
If this happens, **DO NOT CONTINUE**. Store your device in a cool, dry place until you have another poo.
If necessary update the 'Date of Sample' on the collection device.





Demonstration Video available

View our video:
www.faecal-immunochemical-test.co.uk/how-to
or scan the QR code below.

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