## The ROYAL MARSDEN NHS Foundation Trust

# CT Colonography (CTC) with Microcat preparation

**CT Scanning Department** 

**Patient Information** 



#### **Table of Contents**

What is a CT Colonography?		
What does the examination involve?		
After the examination	2	
Are there any risks?	2	
Alternatives to CT Colonography	3	
What preparation will I need?		
What will the bowel preparation do?	4	
When do I start to prepare for my CT Colonography?	4	
Seven days before your procedure	4	
Four days before your procedure	5	
Two days before your procedure	5	
One day before your procedure	8	
What about my regular medication?	9	
What happens afterwards?	9	
Contact details		
Sources of information and support		

### What is a CT Colonography?

Your doctor has asked us to carry out an examination of your large bowel (colon) using a CT scanner. This is called a CT Colonography (CTC) which is a specialised type of test.

CT stands for computed tomography and is a specialised type of scan that uses x-rays to produce an image. To obtain the images, you will lie on a bed, which moves you through the centre of the scanner. Most of the time you can see out of either one side or the other side of the scanner, and therefore it is much less of a problem for people who feel claustrophobic. To prevent blurred images, you will be asked to hold your breath and keep still for a short time during the scan.

As CT scans involve a small radiation dose, women who are pregnant, or think they may be pregnant, should contact the department before starting the preparation.

#### What does the examination involve?

In the privacy of the CT scanning room, the radiographer will insert a small tube (catheter) into your back passage. This tube allows the radiographer to inflate the bowel with carbon dioxide so that the bowel and lining can be seen more clearly. We will ask you to hold this gas in which may cause a bloating sensation. This may be a little uncomfortable, but should not be painful.

During the scan you will be given two injections. The first is a muscle relaxant (an anti-spasmodic drug) that reduces the natural movement of your bowel for the short duration of the scan to make you more comfortable. We will inject this into the muscle in the top of your arm. This injection may cause slight blurred vision - this is temporary but we advise that you do not drive yourself home after the examination.

The second injection is an x-ray dye (contrast medium) given during the scan to outline your blood vessels. We will give this through a cannula inserted into a vein in your arm or hand. Some possible side effects from this injection include a warm sensation through the body and a metallic taste in the back of the throat.

A scan will then be carried out with you lying first on your back and then on your front. The test should take about half an hour but you should plan to be in the department for up to two hours.

### After the examination

At the end of the examination the tube will be removed. You may want to visit the toilet to expel some air, although the gas will be expelled from your bowel naturally over the course of the next few hours. The gas may cause some bloating and discomfort, but this should pass as it is released.

We will check that you are comfortable before you leave and you will be able to eat and drink as normal.

The results will be sent to the consultant caring for you at The Royal Marsden and will be discussed with you when you have your next clinic appointment.

### Are there any risks?

CT Colonography is generally regarded as a very safe test and everything will be done to ensure your safety and comfort, but there are risks associated with any procedure. Problems can occur, but they are rare. These include:

- Abdominal discomfort this should resolve as soon as the test is finished
- A small tear to the bowel wall the risk of this is one in 3000; we will advise you of the possible signs and symptoms and what to do if this occurs
- Reaction to the contrast media injected
- There is a risk that the injection given to relax the bowel can cause eye pain and blurred vision within the first 24 hours, however this is very rare.

If this happens, you should contact your GP or your local A&E department.

• There is a small risk with exposure to radiation, as in any x-ray examination. We will keep the dose as low as possible.

If you have any queries, please do not hesitate to call either the CT scanning department, or your own medical team.

### **Alternatives to CT Colonography (CTC)**

CTC is an alternative to having an optical colonoscopy, the standard way to examining the large bowel. In this, a thin tube with a camera on the end (colonoscope) is passed into the back passage and moved up and around the bowel. The procedure is more invasive than CT Colonography and usually requires sedation. However, it does allow tissue to be removed for testing (biopsy) or polyp removal, if needed.

Often, CT colonography is used where the optical colonoscopy has not been able to be successfully completed, which can happen for a variety of reasons. A colonoscopy can only tell the doctors information about the inside of the bowel, whereas CT colonography can also give information about the other structures inside your abdomen.

#### What preparation will I need?

Your bowel must be completely empty of waste material (faeces) to have a clear view. If it is not, the procedure may have to be repeated. This leaflet explains how you should prepare for your CTC examination.

Enclosed are two bottles of a medication called Microcat. You will need to take this as directed below, and must also follow the special low fibre diet set out in this leaflet for two days before the procedure. If you feel unable to follow any of the dietary or medication instructions, or you have any questions, please contact the CT Scanning Department (contact details on page 9).

### What will the bowel preparation do?

The Microcat is a barium based solution and is designed to line your bowel, and cover any faeces remaining in the bowel. This makes it easier to identify on the scan.

You will need to complete the preparation, otherwise your bowels may not be clear enough to perform the procedure and it would have to be repeated. There is a small possibility that the medication could affect you by causing you to develop:

- Dehydration
- Light headedness
- Low blood pressure
- Kidney problems.

You should continue to drink clear fluids to prevent becoming dehydrated and if you feel light headed, you could have a glucose drink such as Lucozade sports energy drink or other sugary drinks.

Nausea and diarrhoea are known uncommon side effects of taking Microcat.

### When do I start to prepare for my CT Colonography?

The following section describes how to take the preparation as well as the special diet which needs to be followed. There is also a section on how to take your regular medication including the contraceptive pill, where appropriate.

#### Seven days before your procedure

- Stop taking iron tablets or any vitamin tablets containing iron iron makes everything inside your bowel black, making it difficult for the doctor or nurse examining your bowel to see everything.
- Stop taking any laxatives that will cause bulk in your bowels (such as Fybogel or Normacol).

#### Four days before your procedure

- Stop taking any medications that may cause you to become constipated, for example lomotil, loperamide (Imodium), or codeine phosphate.
- Unless you have been told otherwise, you should continue to take your other regular medicines as usual, including on the day of the procedure, but with only a little sip of water on the day of the test.

#### Two days before your procedure, follow the diet as below

If you are taking any nutritional supplements or are on tube feeding, please discuss this with the CT scanning Department.

On this day you will need to take the Microcat preparation (the white bottle enclosed with these instructions).

**2pm:** Make up the first bottle of Microcat by filling the bottle with water to line on the outside near the top, around 500mls. Shake the bottle and drink one cup of the Microcat.

**4pm:** Shake the bottle and drink one cup of the Microcat.

**6pm:** Shake the bottle of Microcat and drink the remaining contents.

You must follow the low residue diet shown on page 6, only eating and drinking from the allowed list.

Food Group	Allowed	Avoid
Meat, fish, eggs	All meat, poultry, fish and eggs	None
Starchy foodsWhite bread, rice, pasta, cous cous, noodles, potatoes (no skins)Cornflakes, Rice Krispies, Coco Pops, FrostiesPlain biscuits 	pasta, cous cous, noodles, potatoes (no skins) Cornflakes, Rice Krispies,	Wholemeal, wholegrain and seeded or granary breads or breads containing fruit and nuts including some rotis, chapattis, naan, parathas Brown rice,
	wholegrain pasta Porridge, Branflakes, All Bran, Weetabix, Shredded Wheat, Shreddies, any cereal containing fruit, nuts or oats, wholegrain cereals such as Cheerios	
	5	Whole wheat biscuits such as Digestives
		Ryvita, oatcakes
		Any biscuits containing fruit, nuts or oats such as Garibaldi, Fruit Shortcake, Hobnobs
		Cakes containing fresh or dried fruit, vegetables, oats or nuts
Fruit and vegetables	None	All fresh, cooked, tinned and dried fruit and vegetables including beans, lentils and pulses

Dairy foods	Milk, plain yoghurt, cheese, ice cream, cream, butter and milky puddings	Any dairy foods containing fruit, nuts or herbs
Drinks	Fruit juice, squash, sparkling drinks, tea, coffee and coffee based drinks, hot chocolate, Ovaltine, Horlicks Have plenty of fluid to drink (aim for 2-3 litres).	Any drinks with red or purple colouring, such as Ribena, Vimto, Red Bull Smoothies and fruit juices containing pulp or bits
Others	Chocolate, sweets, spices, salt, pepper, consommé (clear soup)	Any chocolate or sweets containing fruit, nuts or seeds such as sesame snaps, nougat, Florentines Bombay mix or any snack made with chickpea flour Fresh and dried herbs All soups except consommé (clear soup) Any sweets containing red or purple food colouring

If you are taking any nutritional supplements or are on tube feeding, please discuss this with the CT scanning Department.

#### One day before your procedure

7am: Have a good breakfast of food from the list on pages 6 and 7.

After this, **do not eat any solid food until after your examination.** You should, however, drink plenty of clear fluids and drinks from the list above. This can include water, black tea and coffee, squash/cordial (not red or purple), fizzy drinks, clear jellies, clear soups and consommés, and meat extract drinks such as Bovril.

On this day you will need to take the Microcat preparation (the white bottle enclosed with these instructions).

**2pm:** Make up the second bottle of Microcat by filling the bottle with water to line on the outside near the top, around 500mls. Shake the bottle and drink one cup of the Microcat.

**4pm:** Shake the bottle and drink one cup of the Microcat.

**6pm:** Shake the bottle of Microcat and drink the remaining contents.

If you develop the symptoms of dehydration and cannot increase your fluid intake, then you should seek medical attention. These symptoms include:

- Dizziness or light headedness on standing up
- Thirst
- Reduced amount of urine passed.

### What about my regular medication?

You should continue to take your other regular medicines with a sip of water as usual and on the day of your procedure. You will be informed if you need to stop any of your medication.

Women taking the oral contraceptive should be aware that taking bowel preparation might prevent the absorption of the pill. Additional contraceptive precautions should be taken until the next period begins.

#### What happens afterwards?

You may experience some discomfort in your abdomen. This is common after the procedure due to the gas (carbon dioxide) that we have put into your bowel for the examination. This will be absorbed naturally by your bowel over time.

Please use the toilet facilities before you leave the imaging department, if needed.

You may now eat and drink as normal. Please make sure you have plenty of fluids in the next 24 hours to ensure that you stay well hydrated.

The results of this examination will be available from your consultant at The Royal Marsden in 7 - 14 days.

#### **Contact details**

For any queries or medical advice, telephone your GP surgery or out of hours service (your GP 24 hours number), or else go to your nearest A&E (Accident and Emergency). Then inform the CT Scanning Department at The Royal Marsden.

Chelsea	020 7808 2562
Sutton	020 8661 3222

The CT scanning department can be contacted routinely between 8am and 5pm, Monday to Friday.

Outside of working hours you can call the main switchboard number: **020 7352 8171** and ask to speak to the Clinical Site Practitioner at Chelsea.

Alternatively, please contact:

The Royal Marsden Macmillan Hotline:020 8915 6899(available 24 hours a day, 7 days a week)

Please attend the Accident and Emergency Department immediately at your nearest hospital if following the procedure you experience:

Discomfort in your abdomen that persists for more than a few hours, or becomes more severe.

and / or

After the muscle relaxant (Buscopan), you develop pain and redness in both eyes and blurred vision, which can occur in the 24 hours after the test.

Please take this information with you to the hospital.

Should you require information in an alternative format, please contact The Royal Marsden Help Centre.

#### Sources of information and support

Please talk to the clinical staff responsible for your care, or alternatively contact the Patient Advice and Liaison Service (PALS):

Telephone: Chelsea 020 7811 8438 / 020 7808 2083 Sutton 020 8661 3759 / 3951

#### References

This booklet is evidence based wherever the appropriate evidence is available, and represents an accumulation of expert opinion and professional interpretation.

Details of the references used in writing this booklet are available on request from:

The Royal Marsden Help Centre Telephone: Chelsea 020 7811 8438 / 020 7808 2083 Sutton 020 8661 3759 / 3951 Email: patientcentre@rmh.nhs.uk

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Should you require information in an alternative format, please contact The Royal Marsden Help Centre.

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