



Colorectal and peritoneal oncology centre

Colorectal cancer & cytoreductive surgery with heated intraoperative intraperitoneal chemotherapy (HIPEC)

More than 95% of colorectal cancers start in the inner surface (mucosa) of the bowel wall. A small number of patients (5 -10%) with colorectal cancer the disease spreads into the abdominal cavity, affecting the surface which is called the peritoneum.¹ The peritoneum is a thin layer that covers all of the surfaces inside the abdomen and pelvis. For 20-50% of patients with a recurrence of their bowel cancer will have disease in the peritoneum². Traditionally the treatment of the cancer which affects the peritoneum has not been very effective and can lead to a poor outlook. The treatment described here is designed specifically to manage this problem and is known to be effective in some patients with this condition.

Signs and symptoms

The spread of bowel cancer to the peritoneum can be difficult to detect, with often few early symptoms or signs. In many cases this spread to the abdomen is only discovered at surgery. In a few cases patients may experience an increase in their abdominal girth or sometimes abdominal pain. In others the disease is identified at the time of routine surveillance scans after the bowel cancer has been initially treated.

How is it diagnosed?

It may be diagnosed at point of surgery or at a later date after a surveillance CT scan.

Treatment

Surgery has traditionally not been used with the intention of curing the cancer when it spreads to the peritoneum. However there is evidence that if the size and spread of the cancer is limited then a special surgical technique called "Cytoreductive Surgery" that removes all the visible disease can be helpful^{3,4}. This treatment can involve major surgery to remove organs in the abdomen and the peritoneum.

If the surgeon has removed all or most of the cancer, heated chemotherapy drugs are put in the abdomen while you are under the anaesthetic to kill any cancer cells that cannot be seen. This is a process called hyperthermic intraperitoneal chemotherapy or "HIPEC". A combination of using a chemotherapy drug in a heated fluid that is circulated through the abdominal cavity helps to destroy and remove any cancer cells that could otherwise grow into further tumours. The treatment we can offer will vary depending on the extent that the cancer has spread.

Agreeing to treatment

Consent

The colorectal and peritoneal oncology team will discuss the treatment that is recommended for you and explain how it will affect you.

We will ask you to sign a consent form agreeing to accept the treatment that you are being offered. The basis of the agreement is that you have had The Christie's written description of the proposed treatment and that you have been given an opportunity to discuss any concerns. You are entitled to request a second opinion from another doctor who specialises in treating this cancer. You can ask your own consultant or your GP to refer you. Your consent may be withdrawn at any time before or during this treatment. Should you decide to withdraw your consent then a member of your treating team will discuss the possible consequences with you.

What are the benefits of cytoreductive surgery?

The benefit of treatment will depend on whether the surgeon can remove all the visible disease and give intraperitoneal chemotherapy. The aim would be to cure the disease or reduce the chances of the disease coming back.

Are there any alternatives to cytoreductive surgery?

Cytoreductive surgery and HIPEC is the best treatment if cancer has spread to peritoneal cavity. However if surgery is not possible then in selected cases, chemotherapy might be of help.

Watch and wait: Monitor the situation closely. If the tumour continues to grow we may suggest that you have chemotherapy or surgery.

The colorectal and peritoneal oncology centre

The colorectal and peritoneal oncology centre has an international reputation for treating advanced and early colorectal cancer, appendix tumours, peritoneal tumours, anal cancer and tumours within the pelvis.

If you have a query regarding our service, please contact **0161 446 8051**.

The service will provide:

- Ongoing advice and support for patients, their partners and families.
- Information and advice about treatment and treatment options.
- A point of contact should problems arise.
- A link with other health care professionals involved in your care at home and in hospital.
- Referral to specialist services.

Who can contact us?

Any health care professional who requires information or advice and any patient coming for assessment or treatment for cytoreductive surgery and intraoperative intraperitoneal chemotherapy for colorectal cancer can contact the service themselves or by referral from another health care professional. We are also happy to speak to partners, friends and family, providing the patient has given consent.

References

1. Sugarbaker PH, Cuncliffe WJ, Belliveau J, de Bruijn EA, Graves T, Mullins RE, et al. (1989) Rationale for integrating early postoperative intraperitoneal chemotherapy into the surgical treatment of gastrointestinal cancer. *Semin Oncol*; 16:83-97
2. Minsky BD, Mies C, Rich TA, Recht A, Chaffey JT (1988) Potential curative surgery of colon cancer: patterns of failure and survival. *Journal of Clinical Oncology*; 6: 106-18
3. Verwaal VJ, van Ruth S, Witkamp A, Boot H, van Slooten G, Zoetmulder FA (2005) Long-term survival of peritoneal carcinomatosis of colorectal origin. *Annals of Surgical Oncology*. Jan;12 (1): 65-71.
4. National Institute for Clinical Excellence (2005) *Complete cytoreduction and heated intraoperative intraperitoneal chemotherapy (Sugarbaker technique) for peritoneal carcinomatosis*. Guidance: March 2005

If you know the name of your consultant, please contact their secretary directly:

<p>Consultants: Miss S T O'Dwyer Mr M S Wilson Mr P E Fulford Prof A Renehan Mr C R Selvasekar Mr O Aziz Miss A Minicozzi</p>	<p>Contact: Eve Kennerley 0161 446 8311 Gill Harrison 0161 446 3366 Rebecca Brown 0161 918 7352 Bev Tyrrell 0161 918 2189 John Lupea 0161 918 2310 Laura Elliott 0161 918 2057 Marion McKenna 0161 918 2391</p>
<p>Clinical Nurse Specialists: Rebecca Halstead Rachel Connolly Lisa Wardlow Sarah Wemyss</p>	<p>Contact: 0161 918 7096 / 07766 780952 rebecca.halstead@christie.nhs.uk 0161 918 7859 / 07785 725629 rachel.connolly@christie.nhs.uk 0161 918 7183 / 07826 892213 lisa.wardlow@christie.nhs.uk 0161 918 2097 / 07824 373 785 sarah.wemyss@christie.nhs.uk Fax: 0161 918 7078</p>
<p>Service Manager: Hannah Rogers</p>	

Working hours are 8am to 4pm (at other times please leave a message).

Key worker

Your key worker (nurse) can be contacted on

If your key worker is not available, please leave a message on the answering machine with your name, date of birth and telephone number. All messages will be responded to as quickly as possible, but this may not always be on the same day.

If you have any problems after your operation, please contact Ward 10 on 0161 446 3860.

Further information

For information about the colorectal and peritoneal oncology centre visit www.christie.nhs.uk/cpoc

Christie information

The cancer information centre at The Christie in Withington stocks a wide range of booklets free to patients, their families and carers and offers a free confidential service for anyone affected by cancer. Contact **0161 446 8100**.

Complementary therapy and smoking cessation

There is an outpatient drop-in service at The Christie on Tuesday and Thursday from 4pm.
Contact directly by calling **0161 446 8236** or **0161 918 7175**.

Maggie's centre

The centre provides a full programme of practical and emotional support, including psychological support, benefits advice, nutrition and head care workshops, relaxation and stress management.
Contact Maggie's on **0161 641 4848** or email **manchester@maggiescentres.org**

Macmillan Cancer Support

This is a national charity offering advice and support. Call the freephone helpline **0808 808 0000** (Monday to Friday, 9am to 8pm) or if you are hard of hearing, use the textphone **0808 808 0121**.
Macmillan Cancer Support publish booklets which are free and available on their website
www.macmillan.org.uk

If you need information in a different format, such as easy read, large print, BSL, braille, email, SMS text or other communication support, please tell your ward or clinic nurse.

We try to ensure that all our information given to patients is accurate, balanced and based on the most up-to-date scientific evidence. If you would like to have details about the sources used please contact **patient.information@christie.nhs.uk**

For more information about The Christie and our services, please visit **www.christie.nhs.uk** or visit the cancer information centres at Withington, Oldham or Salford.

Contact The Christie Hotline for
urgent support and specialist advice

The Christie Hotline:
0161 446 3658

Open 24 hours a day, 7 days a week

The Christie NHS Foundation Trust
Wilmslow Road
Manchester M20 4BX
T: 0161 446 3000
www.christie.nhs.uk

The Christie Patient Information Service
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