

# Radiotherapy for Sarcoma of the Limb

Information for patients



This leaflet aims to help you and your family understand more about your radiotherapy treatment. It will be given to you in addition to the information you will receive from your clinical oncologist and the Leeds Soft Tissue Sarcoma Team.

Their team will be caring for you during your treatment. This team will include therapeutic radiographers and clinical nurse specialists but may also include physiotherapists and occupational therapists.

The leaflet describes radiotherapy planning and treatment. It also explains the side-effects which you may experience during and after treatment.

Each person's treatment will vary, so the information given is a general guide. The sarcoma team looking after you will explain your treatment and the side-effects in detail. If you have any questions after reading this leaflet, please speak to the team looking after you or ring the numbers at the end of leaflet.

Staff will make every effort to meet your individual needs or will direct you to the person who can help.

All your radiotherapy planning and treatment will take place in the Radiotherapy Department on Level -2, Bexley Wing, Leeds Cancer Centre (LS9 7TF).

Radiotherapy Reception Desk Tel: 0113 206 8940.

Please do not bring any valuables into hospital with you as the Trust cannot accept liability for loss or theft.

# What is radiotherapy?



Radiotherapy is the use of high energy X-rays to treat cancer. Radiotherapy causes damage to the cancer cells in the treated area. Although normal cells are also affected, they can repair themselves and are able to recover.

Radiotherapy is a local treatment. This means it only affects the part of the body that is treated.

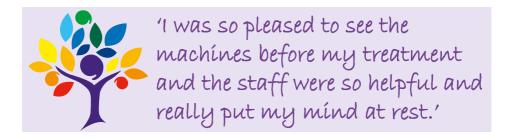
When you are having your radiotherapy you do not feel anything and it does not make you radioactive. You may hear a buzzing noise when the machine is switched on.

It is perfectly safe for you to be around others, including children and anyone who may be pregnant, throughout your treatment.

You will have your radiotherapy on a treatment machine called a Linear Accelerator as shown above.

# Visiting us before your treatment

If you would like to visit the radiotherapy department before starting treatment, please call **0113 206 7603**. This visit can be very useful as you can find out more information about radiotherapy and ask questions.



#### Who will I meet?

# Therapeutic radiographers

Radiotherapy is given by therapeutic radiographers of any gender who are highly trained in the accurate planning and delivery of radiotherapy treatment. You will see your radiographers at each treatment session and they will be happy to answer any questions you may have.

### **Student radiographers**

The radiotherapy department is a training centre for therapeutic radiographers. They are supervised at all times. If you do not wish students to be present, please speak to a member of staff. This will not affect your treatment or care.

#### Others involved in your care

You may meet other staff whilst you are coming for radiotherapy. Everyone you meet will introduce themselves, tell you their job title and explain the role they have in your care.

# Important advice before your treatment

#### **Pregnancy**

It is important that patients who are of child bearing potential are **not** pregnant at the start of a course of radiotherapy and that they **do not become pregnant** during a course of radiotherapy while having cancer treatment because the radiotherapy and chemotherapy can have an effect on the unborn child. It is suggested that you use a barrier form of contraception (for example condoms). For more information see the **'Contraception and pregnancy during cancer treatment'** leaflet. Please do not hesitate to ask your doctor or nurse if you have any questions or concerns about these issues.

## **Fertility preservation**

Sometimes, treatment may involve some unavoidable radiotherapy dose to the testicles. This may permanently affect sperm production and fertility (ability to father children). If there is a possibility this may happen, your clinical oncologist will discuss this with you.

Further information about sperm storage can be found at: http://www.leedsfertilityclinic.co.uk/

# Planning your treatment

Your first appointment for radiotherapy will be a planning appointment. This will be used to gather all the information we need to accurately plan your treatment. You will be contacted by phone, with an appointment for your radiotherapy planning session. Some tests and scans may be needed to help plan your treatment. We will explain which of these you will need when your appointment is made. Directions to the hospital and transport arrangements will be discussed with you at this point.

You may see your clinical oncologist (or a member of their team) at this appointment. This is an ideal opportunity for you to ask questions. If you have not previously consented to your treatment you will be asked to sign a consent form.

#### What to bring with you:

- a list of all questions you may have;
- an up-to-date list of all the medications you are taking (including inhalers, sprays, vitamins or herbal products);
- any medication that you may need during your visit;
- something to eat and drink and something to occupy yourself with, as this first visit can be quite lengthy (up to two hours).

Radiotherapy involves the careful positioning of the radiation beam to ensure accurate treatment delivery. There are many different things we have to consider when deciding upon the best treatment position for you. We need to make sure other parts of your body are not in the way. We also need to ensure the treated area is kept very still and that you are as comfortable as possible.

# Here are two examples of custom made equipment

Photo (a) shows how we keep joints still during treatment, whereas photo (b) shows how we support the whole limb using a bean bag.





When you arrive for your planning appointment, the radiographers will explain to you which piece of equipment may be best for your position and comfort.

# Your planning scan

In order to plan your treatment you will have a planning CT scan. This is done on a machine called a CT Scanner, shown here in the photograph. It allows the images to be sent to the radiotherapy computer planning system. There will be several members of staff present at your scan. These will include therapeutic



radiographers, and possibly a mould room technician and a dosimetrist (the person who will produce the computer plan for your treatment).

# Planning scans are not diagnostic examinations and will not be reported on as such.

The scan will be taken with you lying in the same position as for your treatment. The radiographers will then draw some marks on you, to be used as a reference for your treatment. You will then be scanned, which will only take a few minutes and at the end of the scan the mark will be replaced by a permanent mark (tattoo).

These permanent marks help us to ensure that you are in the same position each day. It also means that you can wash as normal without worrying about your marks coming off.



## Permanent mark next to 5 pence piece

Following the scan the radiographers will give you the time of your first appointment on the treatment machine. This is most likely to be a couple of weeks after the planning visit. The radiographers will talk to you about any further appointments you have.

Some sarcomas will be treated with chemotherapy given at the same time as radiotherapy. Your oncologist will inform you if this is the case and you will be given further information. The radiotherapy department and the chemotherapy day unit work together to arrange your appointments.

# **Having your treatment**

When you arrive for your treatment you should go to the radiotherapy main reception desk at the entrance of the radiotherapy department.

On the first occasion you will be given a list of all your appointments and be escorted to the waiting area for your machine. The radiographers will explain what will happen and answer any questions that you may have.



A course of treatment may last between 2-6 weeks. Treatment is normally given daily, Monday to Friday however your treatment may start on any day of the week. Treatment times vary from 10-20 minutes each day depending on the type of treatment you are having. Whenever possible you will be treated at the time of day that suits you, but this cannot always be arranged or guaranteed. There may be occasions when you may have a longer stay in the department or be asked to attend at a different time, e.g. to see your oncologist.

You may need to undress and put on a gown, the radiographers discuss this with you when you first attend the department.

The radiographers will position you, and adjust the treatment couch and machine to the correct positions.

Although you have the small permanent marks on your skin, the radiographers may need to draw around them each time you come for treatment. This is part of the quality checking procedure for your treatment. If you have pen marks on your skin you may prefer to wear older clothing as the marks may discolour fabric. It is also generally advisable to wear loose clothing around the treated area.

Once you are in the correct position (the same as when you came for your 'planning') the radiographers will leave the room to switch on the machine. You will only be alone for a few minutes at a time.

The radiographers will be watching you on a closed circuit TV monitor (CCTV) during treatment.

The CCTV camera is not recording or saving any images.



There is also an intercom system so the radiographers can talk to you. Please let the radiographers know if you would like to use the intercom system. If you would like to listen to music during your treatment, please let us know.

The treatment only takes a few minutes but you will be in the treatment room for about 10-20 minutes. The machine stops automatically after your prescribed dose of treatment has been given. The radiographers can stop the machine at any time if needed. The treatment machine makes a buzzing sound when switched on. You do not feel anything.

The radiographers may need to come in and out part way through each treatment.

After the treatment is complete the radiographers will come back into the room and help you off the couch.

For the first few treatments and also intermittently during treatment we will also take images to check the accuracy of the treatment. This will take a few more minutes.

These images do not monitor your condition but are purely for treatment accuracy.

During the treatment course, please tell the radiographers how you are feeling. If you have any problems or questions, please let them know. Your clinical oncologist, or a member of the radiotherapy team will see you regularly in the radiotherapy review clinic to see how you are getting on.

They will also monitor any side-effects you may be experiencing. You can expect to be in the department longer than usual on these days.

Some days the radiotherapy department may be very busy and your appointment time may be delayed. We will keep you informed of any delays, please see the delay signs in the waiting areas.

It may be a good idea to bring something to eat and drink with you, including any supplement drinks you have been asked to have and any medication you may need.

Your appointments for radiotherapy may not be at the same time each day and may need to change. Occasionally, you may miss a day's treatment due to bank holidays or unavoidable machine maintenance. It is therefore important to speak to a health care professional before booking a holiday immediately following your radiotherapy.

It is very important that you do not miss treatment days as it may make your treatment less effective. If you feel you are unable to attend for any reason please telephone us so that we can discuss this with you. If you have any queries about your appointment times please discuss these with the radiotherapy coordinators on your treatment unit.



For appointment queries please telephone the Radiotherapy Reception Desk on 0113 206 8940

#### **Side-effects**

Side-effects can be divided into short term (acute) effects that happen during or soon after your treatment, and long term side-effects occurring months or years later. Some side-effects are common, whilst others are rare. As your treatment progresses you may experience some side-effects.

Not everyone will experience all of these reactions. If you do experience any of the following side-effects, do not worry, they are normal reactions to treatment and are temporary. They usually begin about half way through the course of treatment, may last for several weeks after it has finished and then slowly settle down. Please tell us how you are feeling, particularly if your symptoms worsen, so that we can advise and treat you.

#### **Tiredness (fatigue)**

Nearly all patients having radiotherapy will feel tired. Be prepared to take things easy during treatment and allow for extra rests. Try to continue with some of your normal routines and activities if possible. If you usually work you may find this can help maintain your mood, but you may find it better to reduce your hours or take some time off.

Fatigue usually improves in the weeks to months after treatment

#### Things you can do to help yourself:

- Gentle exercise can help reduce the symptoms of fatigue.
- Having enough to drink can prevent tiredness from dehydration.
- Small meals or snacks eaten more often than three times a day may be easier to face.

- Try to get a good night's sleep where possible, a daytime nap may help.
- Try to 'pace' yourself, listen to what your body is telling you, rest if you need to.
- Pick out the things that you enjoy, and try to ask others for help with other tasks.
- Little and often is the rule of thumb.

There is a Macmillan information leaflet available 'Coping with fatigue'. If you would like a copy, or support with your fatigue please ask a member of staff.

#### Skin reaction

The skin in the treated area may start to redden or darken around 10 days after starting your radiotherapy. It may become dry and itchy. For a very small number of patients, it may peel and become weepy. Avoid hair removal where possible, including shaving, waxing, cream and lasers unless advised otherwise by your consultant, nurse or radiographer.

Before you go in for your treatment the radiographer will explain what will happen to your skin and how to look after it. They will also give you a leaflet to take home.

If you are concerned about your skin reaction please talk to your radiographers or contact the review clinic nursing staff in the Princess Royal Suite, telephone: **0113 206 7587**.

# **Further information and support**

If you have any questions please ask your hospital team. We all have our own ways of coping with difficulties. Some people have a close network of family and friends who provide emotional support. Others would rather seek help from people who are not involved with their illness.

The following are also available as sources of information and support that you may wish to use.

#### **Clinical Nurse Specialists (CNS)**

Your CNS is available to discuss any aspect of your treatment with you. You will be seen by a CNS before your treatment. This is to offer support and advice about the practicalities and effects of your treatment and answer any questions you may want to ask.

Your CNS will also assess and discuss any physical, psychological, social, occupational and spiritual needs that you may have. They can refer you to other services if needed, for instance, benefits advice.

You should be given a 'key worker' as a contact for support through your treatment; this is usually your CNS.

# Macmillan Specialist Radiographer and Macmillan Radiotherapy Nurse Specialist

Sometimes people need more help if they are feeling depressed, very anxious or are having problems with their Radiotherapy. If this is the case you may benefit from seeing the Macmillan radiographer or nurse specialist. Your clinical oncologist, radiographer or nurse can refer you at any point before or during your treatment.

#### Late side-effects

The risk of late side-effects will be discussed with you before you consent to treatment. It depends on the area that has been treated. Please do not hesitate to ask any questions if you are worried about side-effects.

# Stiffness of limbs and reduced mobility

The combination of surgery and radiotherapy may affect how the affected area can move. This may happen soon after, or develop over the months following treatment. It is important to continue to move the area as much as possible. You may need to see a physiotherapist to help with this. The treated area may not recover the full sensation and function that it had before. This will depend on the site and the operation you have had. This means that your problems will also vary. The physiotherapist will make an individual care plan for you.

#### Some of the common problems you may experience are:

- muscle weakness,
- muscle tightness,
- reduced joint movement and
- swelling.

Any combination of these may affect you in everyday activities. The aim of the physiotherapy is to restore your normal movement and activities as much as possible.

#### Lymphoedema

After surgery and radiotherapy for sarcoma of a limb you may develop lymphoedema. Lymphoedema is a swelling caused by a build-up of lymph fluid in the tissues.

The lymphatic system is made up of lymphatic vessels that are rather like veins. The lymph system drains the fluid away from the tissues and returns it back into the big blood vessels. Scarring of the tissues can develop because of treatment, and this can damage the lymph system which disrupts the movement of fluid out of the tissues.

If you notice any swelling around your treatment area, you need to tell your consultant, specialist nurse or physiotherapist. You will be referred to a team of nurses who will be able to help you to reduce and control the swelling.

#### Secondary cancer

As radiotherapy is an X-ray treatment, there is a very slight risk that it could cause a cancer to develop in the treatment area in the future. This risk is very small and is far outweighed by the benefits of its ability to prevent the sarcoma coming back in the future.

#### Weakness of the bones

There is a small risk of bones in the area being treated becoming weak and more likely to break. This can happen many years after treatment.

#### After treatment has finished

Your consultant or a member of their team will see you in the clinic of your local hospital or at Leeds Cancer Centre approximately six weeks after your treatment. You will then be seen every three months for the first year, four monthly for the second year, six monthly for the next five years then annually up until 10 years after treatment. There is a risk that soft tissue sarcomas can spread to other parts of your body. The main area where this could occur is in your lungs, so part of your follow up includes regular chest X-rays.

The doctor will also examine the area that has been treated at each appointment. It is important that you tell your consultant or specialist nurse if you see or feel any changes in the treated area such as a swelling or lump. You can also contact them if you have any other concerns or worries in between appointments.

#### **Useful contact numbers**

Main office administration	0113 392 2033
Sarcoma Nurse Specialist	0113 206 8902
	0113 206 8988
	0113 206 7646
Sarcoma Physiotherapist	0113 206 8117
Macmillan Specialist	0113 206 7616
Radiographer	
Dr Turner (Secretary)	0113 206 7406
Dr Sun (Secretary)	0113 206 7406

# **Local Support Services**

#### **Leeds Cancer Support**

Leeds Cancer Support complements care provided by your clinical team. We offer access to information and a wide range of support, in a welcoming environment for you, your family and friends. We can be found in the information lounges in Bexley Wing and also in the purpose built Sir Robert Ogden Macmillan Centre.

#### The Sir Robert Ogden Macmillan Centre

This centre offers a variety of free health & wellbeing and supportive therapies for patients, their family members and carers. These include hypnotherapy, mindfulness coaching, acupuncture (for hot flushes) and pilates.

# **Contact numbers for Leeds Cancer Support**

Open from 9.00am - 4.00pm. Tel: (0113) 206 8816

Information Lounge Level -2 Radiotherapy Department Open from 8.00am - 6.00pm Tel: (0113) 206 7603

Sir Robert Ogden Macmillan Centre
Open from 9.00am - 4.00pm. Tel: (0113) 206 6498

All the above services can be emailed on: leedsth-tr.cancersupport@nhs.net

# Maggie's Centre

If you or someone you love has cancer you may have lots of questions. Maggie's is a warm, welcoming place where you can meet people who are experiencing similar things to you.

You may also be able to find support groups specific to your needs and get advice and information from their professional staff. You don't need an appointment and all support is free.

Open Monday to Friday 9.00 am - 5.00pm.

Tel: (0113) 457 8364

Address: St James's Hospital (next to the multi storey car park),

Alma Street, Leeds LS9 7BE

Email: leeds@maggiescentres.org

Website: maggiescentres.org

# **Useful Organisations**

# **Macmillan Cancer Support**

Freephone 0808 808 0000, 8am to 8pm seven days a week. A textphone service for deaf and hard of hearing people is available on: 18001 0808 808 0000

Website: www.macmillan.org.uk

#### Live Through This **\&**



A cancer support and advocacy charity for the LGBTIQ+ community.

Email: contact@livethroughthis.co.uk

Website: https://livethroughthis.co.uk

#### **Stopping smoking**

NHS Free Smoking Helpline: **0300 123 1044** Monday to Friday 9am to 8pm, Saturday and Sunday 11am to 4pm.

Website: www.nhs.uk/smokefree

# **Car Parking**

When you are coming for radiotherapy planning and treatment your parking is **free** in the on-site multi-storey car park. Please ask for more information at the radiotherapy main reception desk.

#### Refreshments

There is a restaurant and coffee shop available on Level 0, which are open daily. They serve drinks, light snacks and hot meals.

Vending machines are also available in the main radiotherapy waiting room and Level 0. There is also a shop on Level 0 with books, papers and snacks.

# **Hotel Bexley Wing**

The hotel is located on the 8th floor of Bexley Wing and offers 19 twin rooms and 1 single room. All have en-suite, tea and coffee making facilities, a minifridge, towels, hairdryer and digital television.

There are two rooms with wheelchair access and a wet room.



Patients are able to stay free of charge. There is a charge for relatives if they are staying in their own room.

Meals can be purchased (at breakfast and lunch) if you are able to make your way to the restaurant in the Bexley atrium. At other times you will need to have something you have brought from home or purchased. There is a very small fridge for your personal use. There are no staff after 4pm until the next morning in this facility.

For further details please contact the Hotel Co-ordinator on 0113 206 7687. Out of hours please contact the Non-Surgical Oncology Nurse Practitioner through main switch board on 0113 243 3144.

#### Research at Leeds Cancer Centre

Leeds Cancer Centre is a major centre for cancer research. You may be asked if you would like to help with some of the clinical studies. You are under no obligation to take part in any trials, and your treatment will not be affected in any way if you do not wish to take part.

If you do take part in a clinical trial you may meet a research nurse or radiographer who will be helping to run the trial.

# Planning a return to work

If you find that you are tired after your treatment has ended you may consider taking a break from work or working parttime. It can be useful to talk to your employer about returning to work gradually, i.e. shorter or fewer days at first.

Your GP can recommend this on your fitness to work note. The Macmillan booklet 'Work and Cancer', offers help and advice on all areas of work during your cancer treatment.

# **Holidays**

The Information Lounge has travel information which includes a list of companies who offer travel insurance for patients.

# **Vaccinations or flu jabs**

Please ask your consultant for the latest advice on having vaccinations or flu jabs.

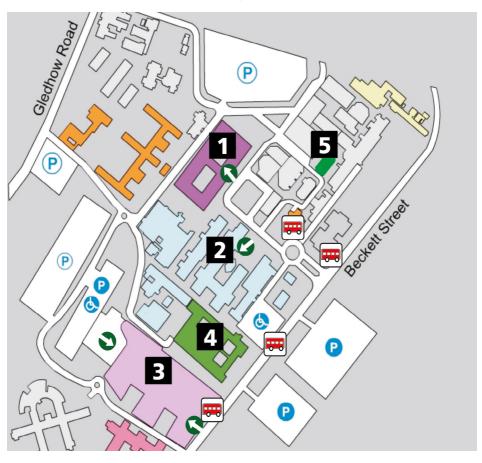
# Leisure or physical activities

Whatever physical activities you wish to take part in, remember to start slowly and build up the amount of exercise gradually.

# How to find us



# St James's University Hospital - site plan



- 1 Gledhow Wing
- 2 Lincoln Wing
- 3 Bexley Wing
- 4 Chancellors Wing
- 5 Robert Ogden Centre
- **1** Entrances
- P Visitor parking
- Disabled parking
- (P) Staff parking
- Bus stops

A space for your notes						




# What did you think of your care? Scan the QR code or visit <u>bit.ly/nhsleedsfft</u> Your views matter



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