



Stereotactic Ablative Body Radiotherapy (SABR) for Lymph node Metastases

This leaflet has been given to you to provide some written information about the treatment that is being planned for you in addition to the explanations that you have received from your doctor. If you have any questions, please get in touch with the specialist radiographers (contact details can be found at the end of this leaflet).

Throughout your care there may be different health professionals who can guide and support you during and after treatment. To help you manage your care you will be allocated a 'key worker' during your treatment. Your key worker is a named person who can act as a point of contact. The key worker will be a member of the team who is currently involved in your care and so may change during the course of your treatment as appropriate. The key worker will not provide all the care and support you need but will be able to put you in touch with the right people to help you or will help you to get the information you need.

The key worker will always be a trained health professional who may also have another role to play in your care. For example, it may be a clinical nurse specialist (CNS), radiographer, Macmillan nurse, doctor, community nurse, psychologist, physiotherapist or social worker.

What are Lymph Node Metastases?

Our bodies have a network of lymph vessels and lymph nodes. (Lymph is pronounced as 'limf'.) This network is part of our body's immune system. It collects fluid, waste material and other things (like viruses and bacteria) that are in the body tissues, outside the bloodstream.

Sometimes cancer cells can spread from where the cancer started. They may travel through the lymphatic system to lymph nodes in another part of the body.

Symptoms depend on which lymph nodes are affected. The most common symptom is enlarged or swollen lymph nodes. Other symptoms might include breathlessness or sometimes there are no symptoms, and the secondary cancer might be picked up by a routine scan.

You may have a computerised tomography (CT) scan, magnetic resonance imaging (MRI) scan, or positron emission tomography (PET) scan to diagnose secondary cancer in the lymph nodes. Some people will also have a lymph node biopsy.

What are the treatment options for lymph node metastases?

Treatment depends on your general health and the type of primary cancer you had. You may have:

- Chemotherapy
- Hormonal therapy
- Targeted therapy
- Surgery
- The CyberKnife machine or a linear accelerator can be used to deliver stereotactic ablative body radiotherapy (SABR)

Information for Patients

CyberKnife and linear accelerator treatments are described below. You may have a combination of these treatments. Your team of doctors (surgeons and oncologists) will decide which treatment or combination of treatments is right for you based on the size and shape of your metastases. Your doctor will discuss the options with you in clinic. Occasionally, we may recommend starting the radiotherapy planning process and then, based on findings, decide the best option for you. If this is the case, we will ask you to come back to clinic so we can update you prior to your treatment starting.

What is stereotactic ablative body radiotherapy (SABR)?

Stereotactic ablative radiotherapy (SABR) is a way of giving radiotherapy. It is used to precisely target certain cancers. It is only suitable for some people, usually those with smaller cancers. SABR is given over fewer treatment sessions than conventional/standard radiotherapy which may increase the chances of controlling the tumour at the treatment site and reducing pain more effectively than standard radiotherapy. In the same way that having a normal X-ray does not hurt, you will not feel anything whilst you are having radiotherapy.

It is extremely important that you are not pregnant or become pregnant during your course of radiotherapy. Even a small amount of radiation may damage an unborn foetus so it is very important to let the radiographers know at once if you think there is even a possibility that you may be pregnant before any radiation exposures are given on the CT scanner or radiotherapy treatment units. Having radiotherapy does not make you radioactive. There is no need to restrict your contact with other people, including children and pregnant women.

Why do I need to have SABR?

SABR (using CyberKnife or a linear accelerator) for lymph node metastases has been recommended for you as a treatment option by your team of doctors to try and stop the cancer cells growing.

When is SABR given?

SABR is given in three or five alternate day treatments on a weekday. The treatment is delivered in the Radiotherapy Department in the Heritage Building, Queen Elizabeth Hospital Birmingham.

What needs to happen before I start SABR?

SABR requires careful planning and preparation. You will need to have a further scan done to plan your treatment appropriately. This will be a planning CT scan with contrast (dye) which is done within the Radiotherapy Department. The contrast may be injected, drank, or both. Expect to be in department for at least an hour for the planning scan. The scan that is undertaken to plan your radiotherapy is solely aimed to give enough information to plan the radiotherapy accurately. The scan is not diagnostic and therefore does not give sufficient information to assess the status of your cancer or any other abnormalities. The planning scan will be performed with you lay in the position you will be treated.

After the CT scan, with your permission, you will be given three permanent marks on the skin around the area of treatment (one on either side and one on your front). These are very small, around the size of a freckle but are permanent (pin-sized tattoos). We need these markers to ensure you are in the same position for treatment as you were for your planning scans.

The radiographers will give you the details of your first radiotherapy treatment appointment and show you where your treatment room is. They will try to accommodate you if you have a

Information for Patients

preference for morning or afternoon appointments and can provide information on hospital transport for your treatment if necessary.

After your CT scan, the team will plan your treatment. The planning is complex and time consuming so you will not start your treatment until approximately a fortnight after your CT scan.

What happens when I attend SABR treatment?

Your treatment will be on an outpatient basis on alternate weekdays. You go home each day after treatment and each appointment normally takes up to an hour.

The radiographers will explain what is going to happen and show you the radiotherapy machine. When all your questions have been answered, the radiographers will ask you to lie on the treatment couch and then move you into the correct position using the small permanent marks made at CT as a guide.

The radiographers will then take some images to confirm your position before they start the treatment. The treatment machine does not touch you at any point and you do not feel anything whilst the treatment is being delivered but you may hear and see the machine moving. You must stay as still as possible.

During your treatment, the radiographers will continue to take and assess images to ensure your position remains perfect. Assessing these images may take some time and need discussion with other members of the team. These images involve a very small additional radiation dose but are essential to ensure accurate treatment.



CyberKnife



Linear accelerator

The radiographers cannot stay in the room with you whilst the machine is on, but they are operating the machine and watching you at all times on CCTV cameras. If for any reason you need the radiographers, simply call out and they will immediately stop the treatment and come in. You are welcome to bring some music with you on an MP3 player, iPod or CD so you have something to listen to whilst you have your treatment.

CCTV

The treatment room is monitored during your preparation for treatment, positioning and treatment delivery by television cameras. This is part of ensuring the accuracy of your treatment and your safety and wellbeing in the rooms at all times. We assure you that the camera image feed is live, and it is not possible to make a recording. The images are viewable on screens situated in the machine control areas. The control areas are only accessed by authorised staff, some of whom may not be directly involved in your care at that time. If you have any concerns about your privacy or dignity that you have not already discussed, then please do not hesitate to highlight your concerns during the information discussion with the radiographers at your first appointment.

What side effects may occur after my SABR treatment?

SABR treatment has relatively few side effects, and the side effects that do occur can differ between patients:

- Commonly patients experience tiredness.
- Pain is another common side effect, but you can take painkillers you are used to taking.
- You may experience nausea, sickness or diarrhoea and chest pain/rib fracture depending on the location of the lymph gland which is being treated.

Long term side effect:

- Small long-term risk of bowel damage which might need surgical or non-surgical management.

Your consultant will discuss the possible side effects in more detail before you consent to treatment. If you have any concerns with side effects, either those mentioned above or those that may arise through discussion, please do contact your consultant or key worker.

Following treatment

You will have a follow-up appointment with your consultant 4–6 weeks after your SABR treatment.

Other information

Car parking

Car Park D is directly opposite the doors to the Cancer Centre on the hospital drive. If you park here and bring in the ticket you have taken to access the car park, the radiographers on the treatment room will exchange this for a prepaid one so you can exit the car park. This has only been negotiated for patients who are attending for radiotherapy planning or treatment appointments so unfortunately the radiographers will not be able to give you a ticket if you are attending for a follow-up appointment.

Contact details:

CyberKnife radiographers: Tel 0121 371 5060

If there is no answer, then please leave a message so one of the radiographers can call you back. This telephone will be checked regularly throughout the week but not checked at weekends.

Linear Accelerator treatments

Your treatment appointment card given on the day of your planning CT scan will have the number of the treatment room you will have SABR on.

Radiotherapy department reception:

Queen Elizabeth Hospital Birmingham
Mindelsohn Way, Edgbaston
Birmingham, B15 2TH
Telephone: 0121 371 5081

If you require this information in another format, such as a different language, large print, braille or audio version please ask a member of staff or email interpreting.service@uhb.nhs.uk