The ROYAL MARSDEN NHS Foundation Trust

Radioiodine treatment for thyrotoxicosis

Nuclear Medicine

Patient Information



Contents

What is radioiodine treatment?	1
Why do I need this treatment?	1
Is there an alternative treatment?	1
How is the iodine given?	1
Will I have a reaction?	1
Where else does the radioiodine go?	1
What preparation will I need?	2
Are there any fertility risks?	2
What if I am pregnant?	2
Can I continue to breastfeed?	2
Will there be any danger to my family?	3
What precautions are necessary?	3
Will I need to see a doctor after the radioiodine treatment?	3
How many treatments will I need?	4
Are there any long term effects?	4
Further information	4
Contact details	4
Instructions for patients receiving radioiodine	5

What is radioiodine treatment?

Radioiodine is a radioactive form of iodine. Iodine is part of everyone's diet and is necessary for the normal functioning of the thyroid gland. The thyroid controls the speed at which the body works (metabolism), for example the rate of breathing or heartbeat. Like ordinary iodine, radioiodine is taken up by the thyroid cells and will therefore destroy a part of the thyroid gland. The treatment is painless.

Why do I need this treatment?

You have a condition called thyrotoxicosis. This means that your thyroid gland is overactive. The gland is situated in the neck and controls the rate at which many body processes take place. If it is not properly treated, your health may be affected.

Is there an alternative treatment?

You may have been given tablets to suppress the activity of your thyroid. However, these can cause side effects if taken long term.

How is the iodine given?

Radioiodine is usually given as a capsule with some water and should be followed by a warm drink. Please tell us in advance if you have difficulty swallowing capsules. In some circumstances, radioiodine may be given as an injection.

Will I have a reaction?

This would be very unusual.

Where else does the radioiodine go?

Most of the radioiodine is taken up by your thyroid. The rest of the radioiodine passes out of your body mainly through the urine. A small amount is present in your saliva and sweat.

What preparation will I need?

If you are taking tablets to suppress your thyroid activity, we will ask you to stop taking these for a few days before and after the radioiodine treatment.

You will also need to deprive your thyroid of normal iodine to increase the effectiveness of the radioiodine. Therefore you will need to avoid foods that are rich in iodine.

Do not eat: fish, seafood or foods that are artificially coloured red or pink (E127) such as canned and glacé cherries, canned strawberries, Spam, salami, some pasties and sweets.

Do not take: cough medicine, iodised salt, sea salt, cod liver oil, vitamin and mineral supplements.

Do eat: fresh meat, vegetables, fresh fruit, pasta and rice. These are all low in iodine.

Are there any fertility risks?

No. Fifty years of experience of using radioiodine shows no effect on the health of the children of patients who have had radioiodine. However, we do advise you to avoid pregnancy or fathering a child for at least four months after the radioiodine treatment.

What if I am pregnant?

Radioiodine must not be given during pregnancy. If there is any possibility that you may be pregnant, a pregnancy test must be carried out before radioiodine is given.

Can I continue to breastfeed?

No. Breastfeeding must stop prior and following radioiodine treatment.

Will there be any danger to my family?

In this treatment, radiation will be used for your benefit and is considered to outweigh any possible risk. However, there are a few simple precautions that you can follow to minimise any possible exposure to other people. We will give you written guidelines detailing these precautions before your treatment.

What precautions are necessary?

The precautions described in the written guidelines (given to you separately) will take account of your personal circumstances and are very similar to what you would do if, for example, you had influenza (flu).

You should avoid spending a lot of time with any people and avoid staying close (less than one metre) to anybody for a few days after taking radioiodine. This may mean that you should not return to work, sleep with your partner or go to a cinema or restaurant during the specified period. You may also need to restrict journeys on public transport and only undertake long journeys (two hours or more) if unavoidable. Close contact with pregnant individuals and children under 16 years should be avoided wherever possible. Children under two years should be looked after by someone else for a couple of weeks. If possible, arrange for them to stay with relatives or friends.

It will help to wash your hands frequently, especially before preparing food. Cutlery, crockery, towels and bed linen should not be shared with others. However, after washing they are completely safe. There is no need to wash them separately.

Will I need to see a doctor after the radioiodine treatment?

Yes. You will need to contact your endocrinologist to arrange an appointment six to eight weeks after the radioiodine treatment. You will also need to have a blood test to check how your thyroid gland has responded to the treatment. This will be organised by your endocrinologist.

How many treatments will I need?

Often only one treatment is needed to control the thyroid gland. Occasionally, a second or third treatment is necessary.

Are there any long term effects?

Radioiodine is a very safe treatment. However, your thyroid gland may become underactive after your treatment. This could happen within a few months or many years after the treatment. That is why blood tests to check the function of your thyroid are important and should be carried out regularly for the rest of your life. If your thyroid becomes underactive, you will be given thyroxine. This is the same hormone that is normally produced by the thyroid and has no side effects.

Further information

For more information about thyroid disease and its treatment you can contact:

The British Thyroid Foundation

Tel: 01423 810 093 *www.btf-thyroid.org*

Contact details

If you have any questions please contact us:

Nuclear Medicine Department

Tel: 020 8661 3762 / 3286

Alternatively, please call

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

Instructions for patients receiving radioiodine

Stop your carbimazole (Neomercazole) or propylthiouracil (PTU) on: All other medicines should be	
taken as instructed.	
Avoid adding sea salt to your food or eating fish, seafood, vitamin tablets or cough linctus on:	
Please report to the Nuclear Medicine Department, Sutton for radioiodine capsule on:	
Restart your carbimazole (Neomercazole) or propylthiouracil (PTU) on:	

Notes and questions

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

No conflicts of interest were declared in the production of this booklet.

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

The patient information service is generously supported by The Royal Marsden Charity. royalmarsden.org Registered Charity No.1095197



Revised July 2024. Planned review July 2027 © The Royal Marsden NHS Foundation Trust NM-1329-05







bsi



U KAS MANAGEMENT SYSTEMS

003