



Stereotactic Radiosurgery Treatment in the Brain



Contact Information

Units in our group

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Sandton Oncology

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West Rand Oncology Centre

Tel.: 011 991 3500 | wroc.reception@cancersa.co.za

Visit us online at www.cancersa.co.za

Treatment can be provided at any of the above locations, by the same Doctors within our group, whichever location may be more convenient to you.

Any appointment related enquiries can be made on the above numbers. In Pretoria, our administration teams are available from 08:00 until 16:30 and in Johannesburg our administration teams are available from 08:00 to 17:00.

In case of a medical emergency outside of the above listed hours, contact our Oncologist on call at:

If you are on treatment in Pretoria, please call: **(+27) 82 373 2148**

If you are on treatment in Johannesburg, please call: **(+27) 82 307 5565**

What is Stereotactic Radiosurgery?

Stereotactic Radiosurgery (SRS) or Stereotactic radiotherapy (SRT) is a non-surgical radiation therapy used to treat functional abnormalities and small tumours of the brain.

SRS/SRT fundamentally works in the same way as other forms of external beam radiation treatment only with ultra-precise focused beams to destroy tumours / cancer cells with higher accuracy. Part of the higher accuracy of SRS/SRT is achieved by immobilization of the head/body during treatment, this is done by using a tight-fitting mask and/or bite block. You will be required to have a planning CT and planning MRI for optimal localization of the lesion.

Radiation therapy is the use of high energy x-rays. It works by damaging the DNA of cells preventing them to divide and reproduce. Abnormal cancer cells are more sensitive to radiation because they divide more quickly than normal cells. Over time, the abnormal cells die, and the tumour shrinks. Normal cells can also be damaged by radiation, but they can repair themselves more effectively.

The benefit of SRS/SRT is that the total radiation dose (which can be higher than standard radiation) is delivered in less fractions with very little radiation to the surrounding healthy tissue. The number of fractions needed depends on the size, type and location of the tumour. This may be changed as originally said by the radiation oncologist for your own benefit and wellbeing.

Throughout SRS/SRT treatment you will be awake and not experience any pain, it will not make you radioactive. It is performed on an outpatient basis.

The effects of radiation are not immediate; the treatment benefit occurs over time.

Radiation therapy is delivered with a linear accelerator (LINAC) as shown in the picture below which may or may not be used with an extra attachment called an APEX.



What happens next?

After the planning scan is done the pre-treatment process must follow. This is a multi-disciplinary process and can take up to several working days to ensure that optimal and precise treatment is given.

This is a timeous process so please be patient.

Once all these processes are completed you will receive a phone call with your first treatment date and time.

Appointment times are subjected to availability, but we will try to accommodate you to the best of our abilities.

If you are late for your appointment, please understand that we are working according to a schedule and will treat patients that are on time first. You will be attended to as soon as an opening is available.

On the first day of treatment you will receive a schedule with **all** your treatment appointments. Please be here 10 minutes before the scheduled time.

The radiotherapists assess you every day on which you receive treatment, so please tell them if you have any difficulties or queries. They can offer you considerable advice.

You can also see our counsellor for a **free** counselling session. Please inform us if you would like to make use of this service for us to arrange a session for you.

After your treatment is completed you must make a follow up appointment with your radiation oncologist. This is still part of the treatment and will not have any extra charges. Please check with your doctor when this appointment needs to be made, it can differ from 2 weeks to 3/6 months.

Possible side effects

All patients differ, so please do not compare yourself to others.

During your treatment you may experience irritation, dryness or itchiness of the skin as well as other side-effects as listed below.

You should try the following advice from the start of your treatment until 2 weeks after the radiotherapy is completed.

- ❖ Temporary hair loss may occur, but only in the area being treated and the size of the treatment field.
- ❖ You can gently wash the treatment area with plain dove soap or baby shampoo without rubbing it vigorously or using too hot water.
- ❖ Headaches are a common side effect of treatment in the brain. You might need a prescription for some cortisone pills to help reduce swelling that causes headaches.
- ❖ Nausea can also accompany the headaches due to swelling, any anti-nausea medication can be taken to reduce nausea.
- ❖ Do not use any other products (lotions, gels, creams) unless advised by the radiotherapists or doctor, as they may irritate the skin.
- ❖ Aqueous cream (no colourants or scents) may be used on treatment area.

During your treatment you can continue eating, drinking and exercising as normal.

