



SELECTIVE INTERNAL RADIATION THERAPY (SIRT)

PATIENT EDUCATION



Selective Internal Radiation Therapy (SIRT)

What is SIRT?



SIRT is known as Selective Internal Radiation Therapy. It is a targeted treatment for **liver tumours** that delivers millions of tiny radioactive beads called SIR-Spheres Y-90 resin microspheres directly to the liver tumours. It involved two stages, namely planning stage and treatment stage.

Planning and Treatment Procedures

*Small amount of radioactive substances are injected to check the amount of blood that flows from liver to the lungs



Lung shunt study at Cath Lab by Interventional Radiologist



SPECT scan

*Scanning time: 30-40mins



You are required to pay deposit for SIRT treatment and Post-SIRT scan



If suitable, the dose of SIR-Spheres will be determined



Interventional Radiologist and Nuclear Medicine Physician to decide suitability of treatment

3 weeks



SIRT Treatment



Post-SIRT scan on the same day or next day

Before SIRT Treatment

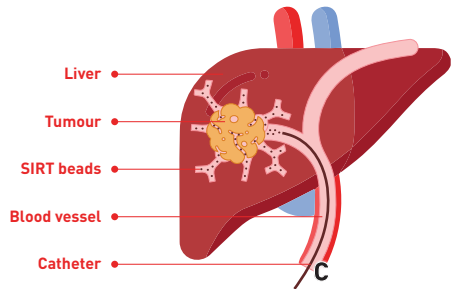
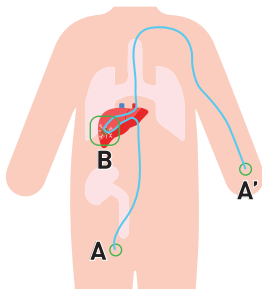


You will be seeing an oncologist and an interventional radiologist before the treatment to assess your previous cancer history and any other medical conditions.



You will go through a series of tests, including angiograms, to ensure that you are suitable to receive SIRT Treatment safely.

How Does SIRT Treatment Work?



A small flexible tube, known as a catheter, is inserted into the blood vessel into your groin (A). The SIR-Spheres Y-90 resin microspheres are administered into the liver (B). The whole procedure may take about 90 minutes. Your doctor will discuss medication and anesthesia that may be used during the procedure.

The SIRT procedure enables radiation – which is often used to treat cancer – to be sent directly into the liver tumours through the hepatic artery (C) supplying blood to the liver so exposure to the remaining healthy liver tissue is minimized. Since they are delivered directly to the tumours, this allows a larger dose of radiation to be given locally than is possible with conventional external radiotherapy.

Potential Benefits of SIRT

1

When combined with chemotherapy, SIR-Spheres may shrink liver tumours more effectively than chemotherapy alone.

2

In some patients, SIR-Spheres may shrink the tumors enough that they can be removed by surgery at a later date.

3

This treatment may help patients to feel better and live longer.

SIRT Side Effects



Abdominal pain and/or nausea

normally subsides after a short period and/or with routine medication



Mild fever

up to one week



Loss of energy

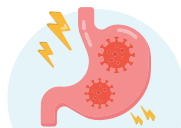
for several weeks

If small number of microspheres reach other organs in the body, they may cause:



Cholecystitis

gall bladder



Gastritis

stomach



Duodenitis

intestine

Special Precaution for SIRT



Both men and women **must not plan a pregnancy** with their partners **within 2 months** after treatment.



Effective contraception must be used at all times during this period.



Avoid SIRT treatment if you are **pregnant**.



Women **must not breastfeed** during the **first two weeks** after treatment.



Women **must not use any expressed breastmilk** during this period for bottle feeding of your baby.

**The Nuclear Medicine Centre is located at:
Basement, Tower C**

Operation Hours

Mondays-Fridays 8.30am - 5.30pm

Saturdays 8.30am - 12.30pm

Closed on Sundays and Public Holidays

For more information, kindly contact us at:



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