



مدينة الملك فهد الطبية
King Fahad Medical City



CT SCAN

محاكاة الأشعة المقطعية

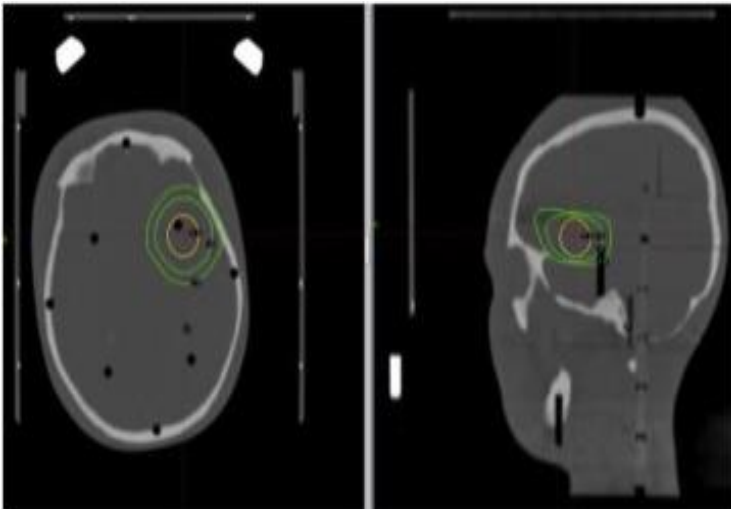
CT Simulation



What is CT Simulation?

This is a process used by the Radiation Therapy Team to determine the exact location, shape and size of the tumor to be treated.

This is done using special imaging equipment and a treatment table



How does CT Simulation preform?

1

The patient will lie on, then radiation therapist at this time will position the patient in the precise way the patient will be treated, often using immobilization devices and equipment to ensure that the patient will remain in the exact position required for accurate delivery of treatment on a daily basis.

2

The patient must be still during the simulation so that the exact area can be pinpointed.

3

A CT scan is taken of the body. Once the treatment area is located The patient's skin is marked with a small permanent tattoo (no bigger than a freckle), this will ensure the accurate position for each treatment session.

4

All images and information will be sent to medical physics department to start planning and dose calculations.

5

The patient will leave the CT Simulation with the date and time of your first treatment appointment.



What is an Immobilization Device?

This is a piece of equipment used to reduce Set up error and patient movement during treatment.



without proper immobilization the patient is at risk of improper treatment and unwanted side effects.



They are also used to increase the comfort of the patient whilst they are in the treatment position.



Many of the devices/ equipment are already manufactured, but there are some that are fabricated/ made by the Radiation Therapist which are specialized to your shape and size.

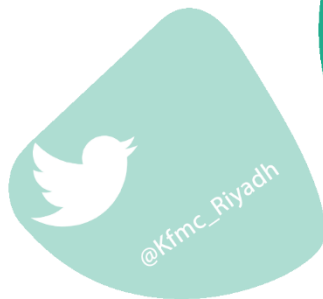


The immobilization device used for you is determined in the CT Simulation appointment, and will be used throughout the treatment course.

لأن الوعي وقاية ..

إدارة التثقيف الصحي

Radiation Oncology Department



HEM 2.18.000432

