



مدينة الملك فهد الطبية
King Fahad Medical City



Radiotherapy Treatment Planning (RTP)

What is Radiotherapy Treatment Planning?

RTP is a complex process that takes few to many days of work in which a specialized team plan and evaluate the optimum treatment technique and modality for each individual patient.

Who is in the Specialized Team?

**Radiation
Oncologist**

**Radiation
Therapist**

**Medical
Dosimetrist**

**Medical
Physicist**



How RTP process is done?

Body & Organ Mapping

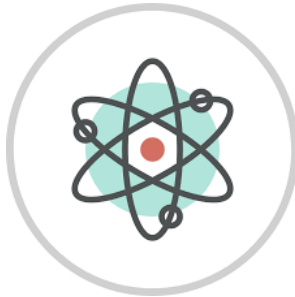
- **This process includes acquiring a 3D (some time 4D) scan of the patient's body shape and anatomy (CT Simulation).**
- **Other imaging modalities are being used also for better target volumes delineation (MRI and/or PET scans).**

Dose Calculation

- **Aided by a sophisticated planning software, the number and radiation doses needed to achieve the appropriate plan are determined and calculated.**

Why is RTP needed?

The main objective of RTP is to deliver the prescribed radiation dose to the target volume while keeping surrounding normal tissue at safe radiation level.



لأن الوعي وقاية ..

إدارة التثقيف الصحي

Radiation Oncology Department



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