

RADIATION THERAPY



Radiation therapy also known as radiotherapy is the use of ionising radiation in a controlled dosage in the treatment of malignant tumours. Successful outcomes from radiation therapy requires accurate alignment of the treatment beam to the target tissue, while avoiding normal tissues. A linear particle accelerator also known as LINAC is a particle accelerator that accelerates charged subatomic particles or ions by directing them at a high speed by subjecting them to a series of oscillating electric potentials along a linear beam-line. It is a system that is commonly used to deliver external beam radiation treatment to cancer patients. LINAC customises high energy x-rays or electrons towards the targeted tumour, destroying cancer cells while sparing surrounding normal tissues. The LINAC used in our department is used to treat all body sites, using conventional techniques (2D, 3D) and Intensity-Modulated Radiation Therapy (IMRT).

