

(Times New Roman, Font Size 11 Bold, Center)
Changing Paradigm In Precision Radiation Technology (Title)

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Abstract(300 words)

There has been dramatic and rapid advancement in Radiation therapy (RT) in the past few decades. The list of advancement is endless ranging from CT imaging for planning, use of multileaf collimators, 3D Conformal treatment, Intensity modulated treatment (IMRT), Image guided treatment (IGRT). There has been innovations in physics dosimetry also. The result of these innovations is precision in dose delivery to the target and better sparing of critical organs. Precision radiotherapy targets to deliver maximum possible dose to the tumour, at the same time sparing normal tissue. This has been achieved with the help of advances in technology involving newer imaging modalities, more powerful computers and software, and newer delivery systems.

Keywords – Radiotherapy, Conformal Radiation Oncology, IMRT, Tomotherapy, Cyberknife, IGRT.