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## Modern Radiotherapy Techniques

### IGRT (Image Guided Radiotherapy)

- Image guided radiotherapy is a broad concept whereby frequent imaging is done in the treatment room for more accurate treatment delivery.
- IGRT is mainly to ensure **accurate patient positioning** and overcoming problems due to **organ motion**.
- Due to variations in patient setup & organ motion, an **extra margin** of tissue has to be radiated to deliver adequate dose to the tumor
- IGRT can help us to **eliminate** or at least, **reduce** this margin
- This results in **much less** normal tissue being irradiated to high doses