

Radiotherapy one of major cancer treatment modality

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3ed lecture

Radiotherapy for CNS tumors

Gliomas

- HGG, GBM

- some types of LGG

Ependymoma

- STR, WHO III , Posterior fossa WHO II

Primitive cell tumors

- Medulloblastoma, PNET, pinoblastoma

CNS lymphoma

Metastatic disease, relapsed glioma

- WBRT or SRS

Benin brain tumors

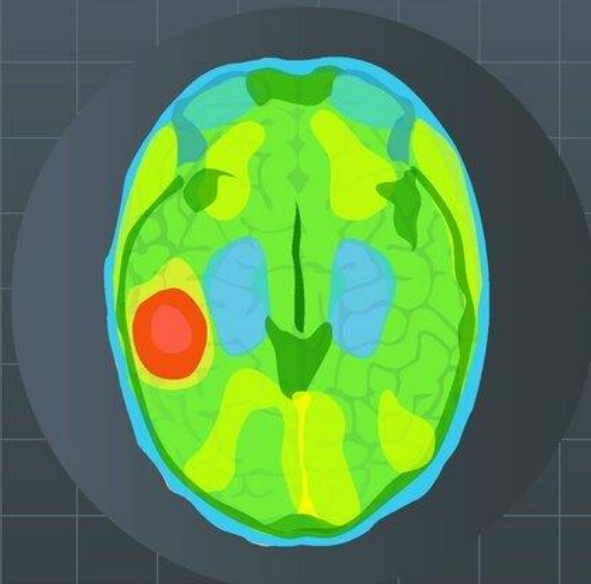
Acoustic neuroma

Craniopharyngioma

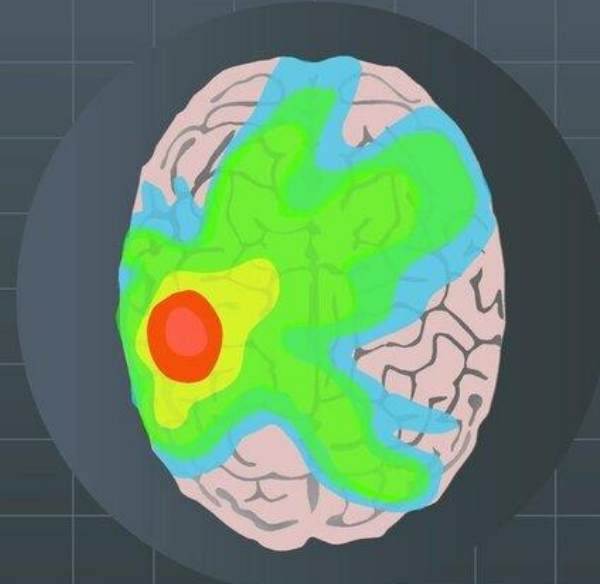
Trigeminal neuralgia

Terminal pain

Different Types of Brain Radiation

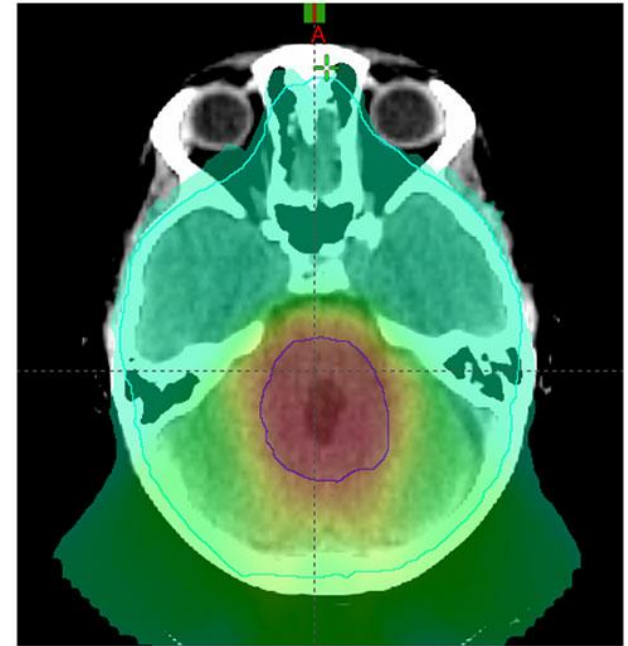
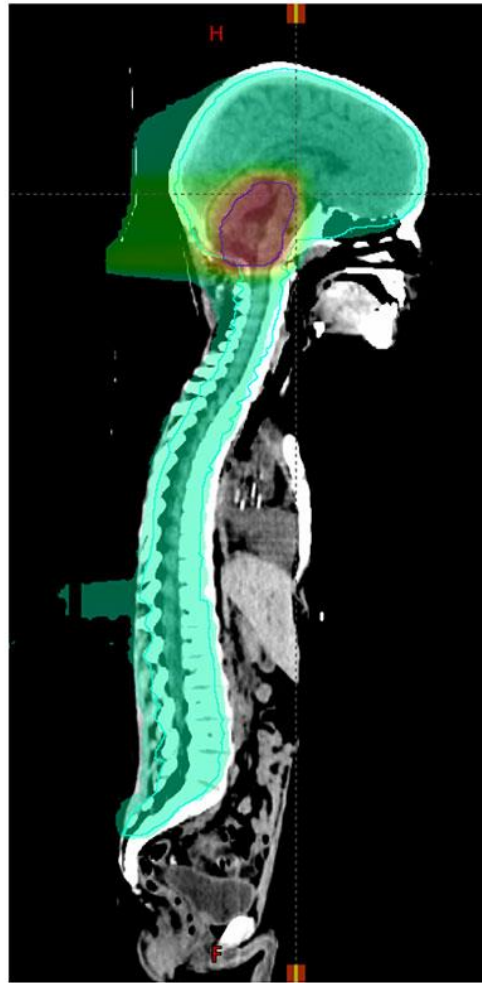


Whole Brain



Traditional

MB



Hippocampus sparing



Radiotherapy for Head and Neck cancers

Nasopharyngeal cancer

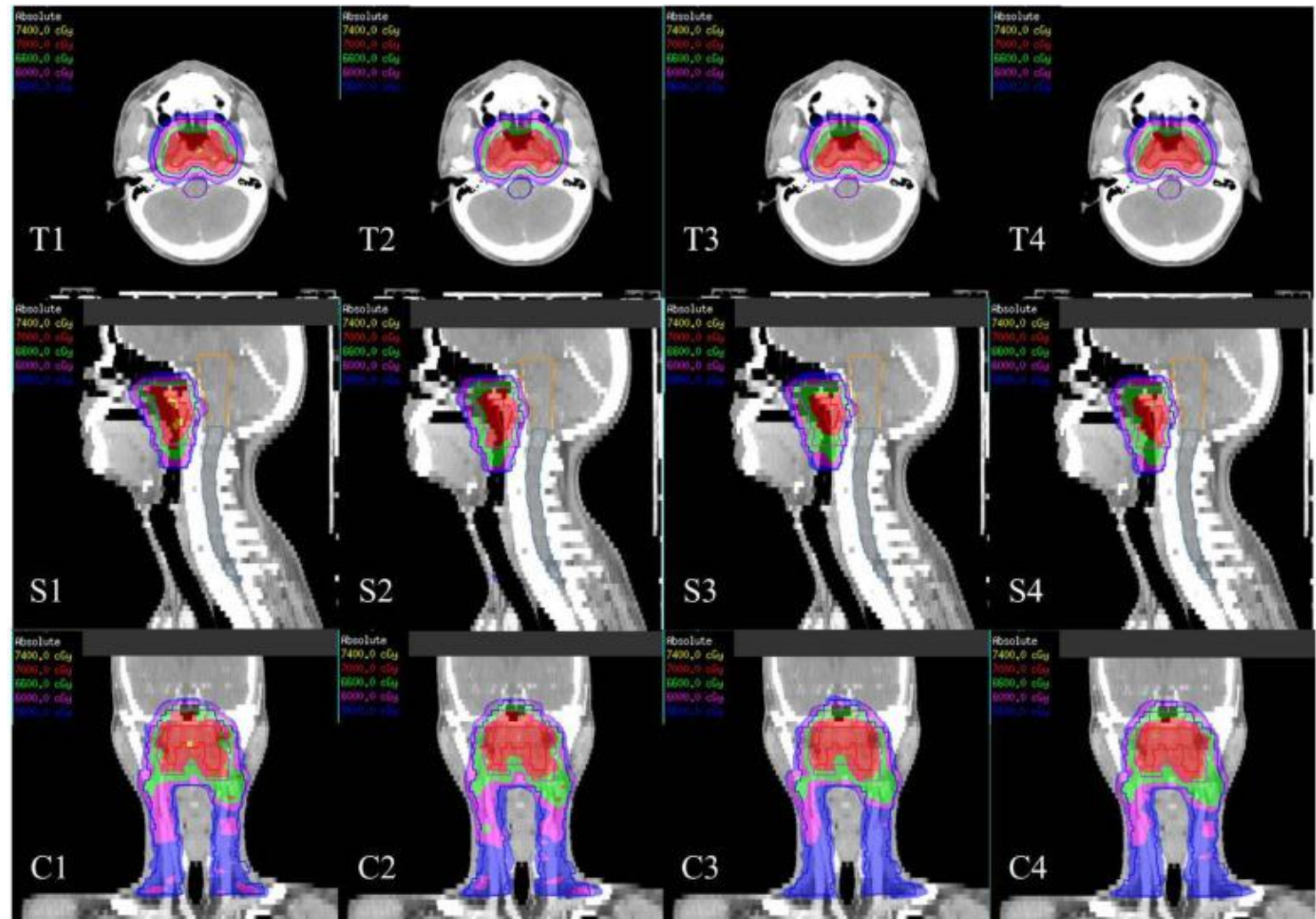
Oropharyngeal cancer

Oral cancer

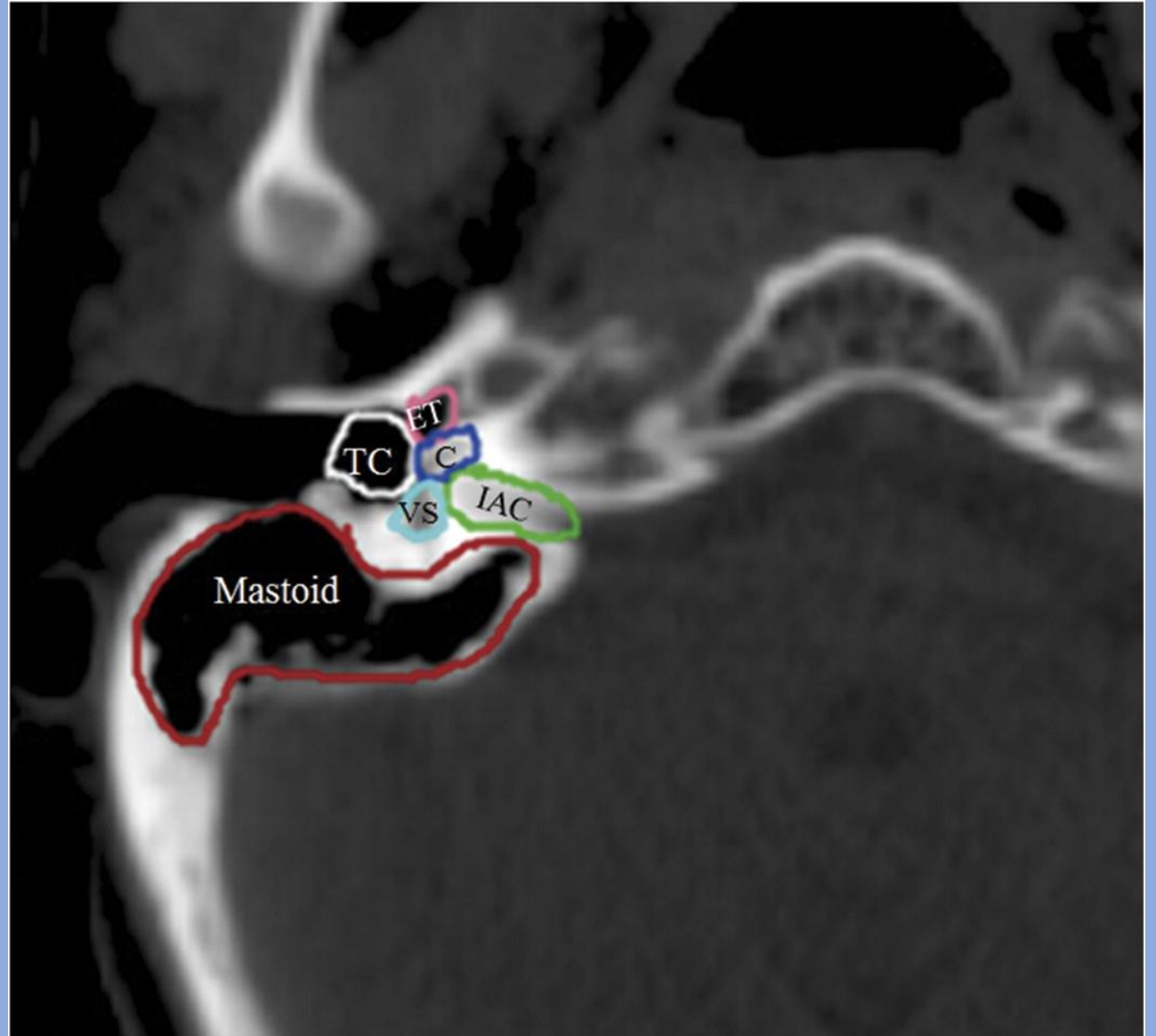
Laryngeal cancer

Parotid cancer

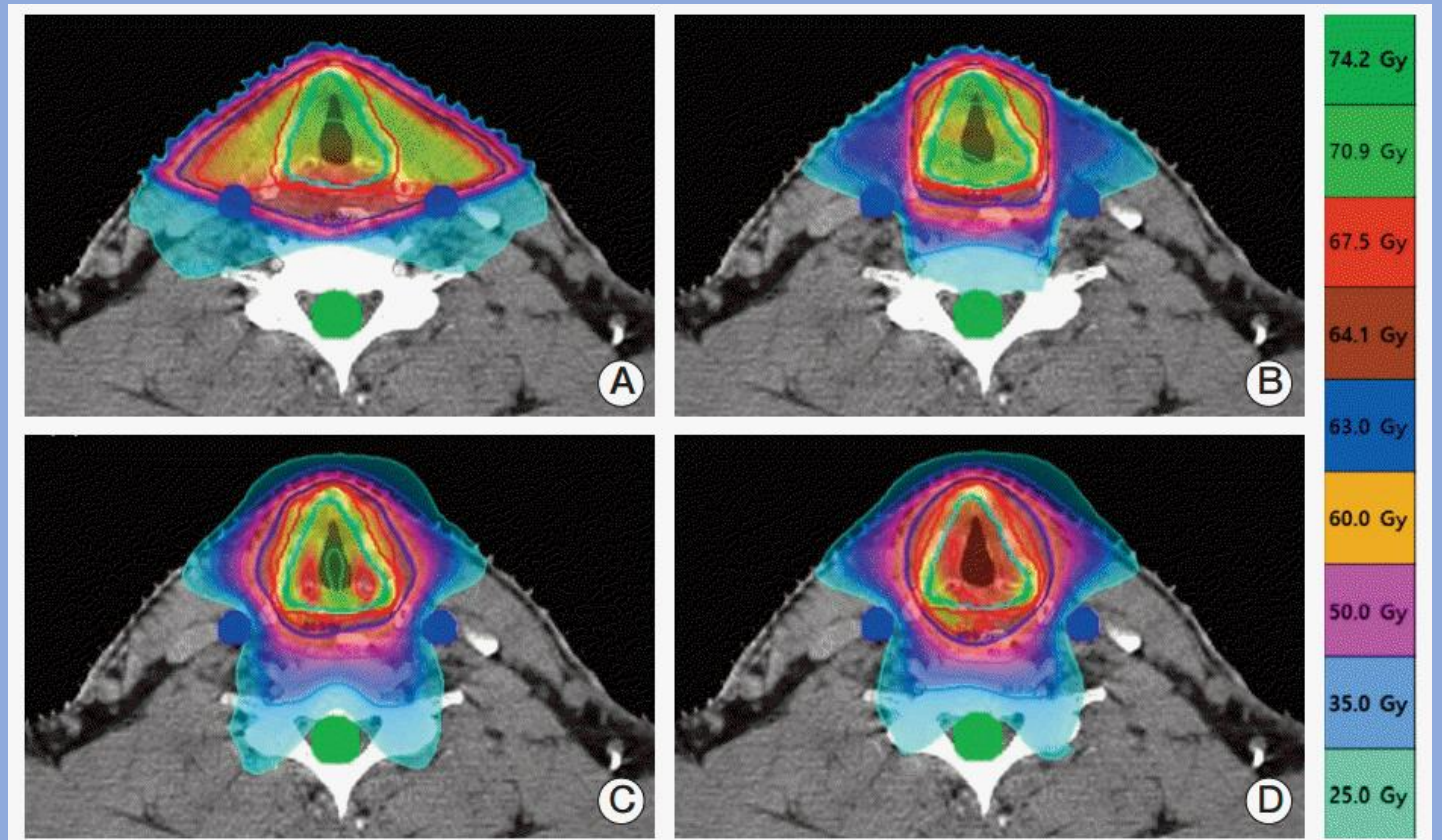
NPC



Critical
organs



Ca larynx 3D Vs IMRT



Lung cancer

Small cell lung cancer

CCRT for limited stage disease

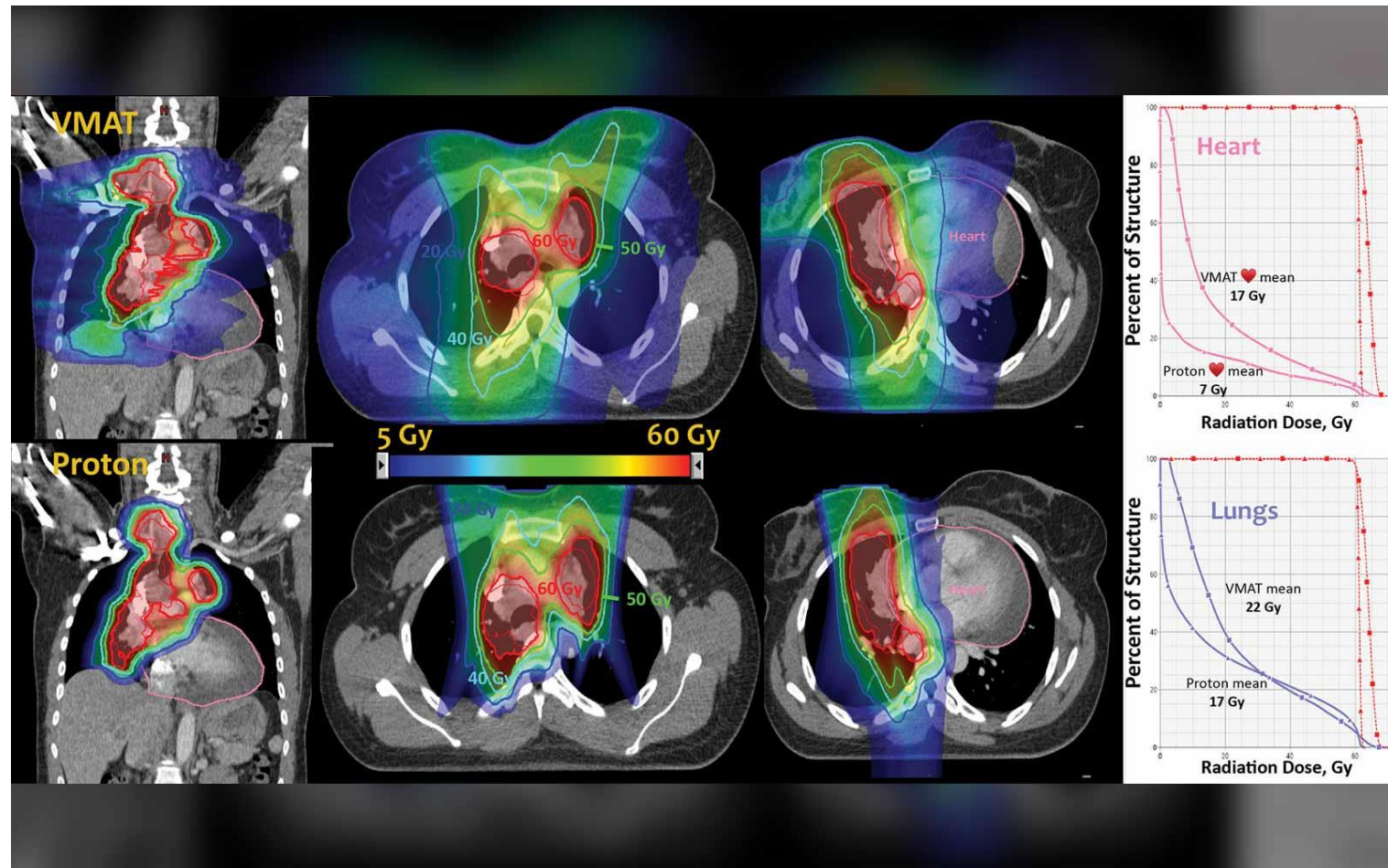
Non small cell lung cancer

CCRT for stage III

SBRT for I & II

Mesothelioma as adjuvant treatment

Advanced lung cancer



GIT

Esophageal cancer

radical CCRT

Neoadjuvant

adjuvant

Gastric cancer

Adjuvant

Pancreatic cancer

Radical

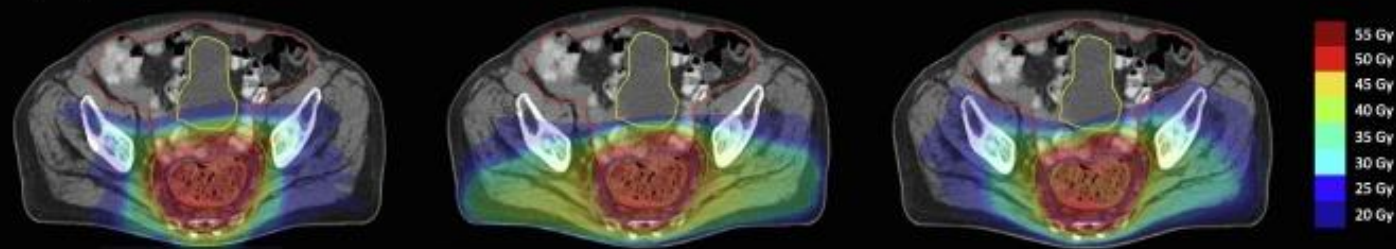
adjuvant

Rectal cancer , neo adjuvant CCRT

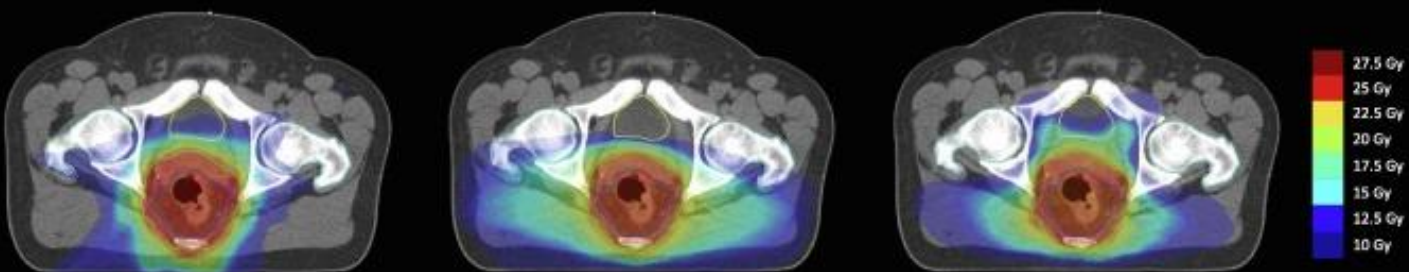
Anal cancer, Radical treatment

Rectal cancer

Example patient 1 – LCRT



Example patient 2 – SCRT



Centre 1

Centre 2

Centre 3

Hematology

Lymphomas

- HL

 - stage I, II and bulky disease

- NHL, low grade lymphoma and DLBCL

Multiple myeloma

Plasmacytoma

Leukemia

- CNS involvement

- testicular involvement

Gyneoncology

Ca Cx

Adjuvant CCRT

Radical RT

EBRT and brachytherapy

Endometrial cancer

adjuvant RT

EBRT or Brachytherapy or both

Geneto urinary cancer

Bladder cancer

- radical CCRT

- adjuvant

Prostate cancer

- radical RT

- Adjuvant

Testicular cancer

- Adjuvant RT or chemotherapy