#### Post-Irradiation Changes and Complications of Nasopharyngeal Carcinoma: A Review of Imaging Features

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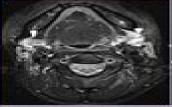
#### Objective:

To review the imaging features of common irradiation changes at various stages of treatment and the broad spectrum of post-irradiation complications in NPC patients

#### Methods and Materials:

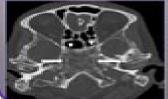
Retrospective review of post-irradiation NPC patients with follow-up imaging performed in our institution between the period 2012 to 2018, excluding patients with active disease encourage designations.

#### Common Post Irradiation Changes



Glandular damage-T2 hyperintense signals (arrowheads) at bilateral submandibular glands,

compatible with statudenitis.



Sinomastoditismucosal thickening at left. emacolitary service. (arrowhead), Effusion at biliateral mastold air cells

fabricowesh.

Radiation induced osteitis-Patietry scienotic and lytic characes at the skull base. on exist CT bone window. compatible with RIO (arrows). Mocosal thickening at both sphenoid sinuses. (aerowheads).

#### Temporal Lobe Necrosis (TLN)



TLN with haemonrhage (below)-A lobulated T2W hyperintense lesion

with hypointense rim (arrow) at the medial left temporal lobe, compatible with hemosiderin deposition related to prior hemorehage.



TUN with abscess formation (above)-

Cystic lesion with fluid-fluid level at the left temporal lobe (arrow), with surrounding vasogenic oedema and mass effect (arrowheads). Rim enhancement (arrowheads) and internal thin enhancing septum (arrow) are shown. Surgical drainage was performed and specimen grew Bacillus species.

TLN with cost formation-

Cystic structure at left temporal lobe

(arrows) on background TLN as shown on T2W and post contrast. T1W with fat

saturation sequences. Surgical drainage

and excision was performed with histology confirming radionecrosis.

#### Cranial Nerve Palsy & Brachial Plexopathy



CN XIII palsy (right)-Coronal TTW shows atrophy of left hemitoneue (arrow)

Brachial plexopathy (left)-Diffuse fusiform thickening with STIR-hyperintense. signal, involving bilateral brachial plexuses, worse on the left (arrows).



#### Osteoradionecrosis

Heterogeneous signal with cortical disruption at the anterior aspect of clivus (arrows) on this sagittal TIW sequence. Findings were persistent with no evidence of recurrence up to 3-year in beryal.



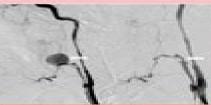
#### Secondary Osteosarcoma

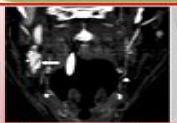
Histology proven high-grade sarcoma on axial CT in bone and soft tissue windows (arrows) with mastold and maxillary effusions: Corrowtveads):

#### Pseudoaneurysm Formation

Large pseudoaneurysm of right tonillar artery on CT angiogram (CTA) and digital subtraction angiography (DSA), with successful coil embolization performed. (arrows):







**Carotid Artery Dissection** Right common carotid artery dissection on CTA and DSA with successful stenting performed (arrows). Long segment of severe left CCA stenosis on CTA (arrowhead):

#### Conclusion:

Radiologists" knowledge and familiarization of the imaging. features is essential in postirradiation imaging surveillance: Imaging features. atypical of post irradiation changes and complications should raise suspicions of disease recurrence.

Terry R. Yochum, Jolie V. Haug, Lindsay J. Rowe

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