## Case Scenario 1

**HNP**: A 70 year old white male presents with dysphagia. The patient is a current smoker, current user of alcohol and is HPV positive. A CT of the Neck showed mass in the left pyriform sinus. Multiple lymph nodes were identified in the mid jugulodigastric chain. The largest measured 2cm with central necrosis. Findings are suspicious for malignancy.

**PHYSICAL EXAM:** Oral cavity: Shows normal lips. He is edentulous. Normal buccal mucosa. Tongue and floor of mouth seems to be free of irregularity. Posterior pharyngeal wall is within normal limits. Neck: Shows palpable lymphadenopathy on the left side in levels III and possibly even level IV. A fine needle aspiration was done on an enlarged lymph node.

**FLEXIBLE LARYNGOSCOPY:** Right naris was sprayed with Afrin and lidocaine and flexible scope was entered into the nasal cavity showing normal nasopharynx, the left base of tongue and vallecula was within normal limits. A 3cm lesion was noted in the left pyriform sinus. The lesion appeared to be confined to the sinus without extending to any of the surrounding tissues. A biopsy was taken. An inspection of the larynx showed both supraglottic and glottic structures were all normal with full vocal cord movement.

**FINE NEEDLE ASPIRATION OF ENLARGED LYMPH NODE:** Metastatic squamous cell carcinoma

**LEFT PYRIFORM SINUS BIOPSY:** Invasive squamous cell carcinoma, mod-poorly diff

**PET/CT:** 1. Markedly increased FDG accumulation within the left pyriform sinus mass lesion and two mid cervical lymph nodes visualized on CT. These are consistent with malignancy. 2. No additional sites of abnormally increased FDG accumulation are visualized elsewhere in the neck, chest, abdomen, or pelvis.

**TREATMENT PLAN:** Weekly cisplatin with radiation

**SUMMARY OF TREATMENT:**

Patient has completed his definitive chemoradiation. The Planning Target Volume (PTV) includes the left pyriform sinus, left retropharyngeal and left level II/III lymph node. This area received 70Gy in 35 treatments utilizing RapidArc IMRT and 6 MV photons.

|  |  |
| --- | --- |
| * **What is the primary site?**
* **What is the histology?**
 | * **What is the grade/differentiation?**
 |
| **Stage/ Prognostic Factors** |
| CS Tumor Size |  | CS SSF 9 |  |
| CS Extension |  | CS SSF 10 |  |
| CS Tumor Size/Ext Eval |  | CS SSF 11 | 988 |
| CS Lymph Nodes  |  | CS SSF 12 | 988 |
| CS Lymph Nodes Eval |  | CS SSF 13 | 988 |
| Regional Nodes Positive |  | CS SSF 14 | 988 |
| Regional Nodes Examined |  | CS SSF 15 | 988 |
| CS Mets at Dx |  | CS SSF 16 | 988 |
| CS Mets Eval |  | CS SSF 17 | 988 |
| CS SSF 1 |  | CS SSF 18 | 988 |
| CS SSF 2 |  | CS SSF 19 | 988 |
| CS SSF 3 |  | CS SSF 20 | 988 |
| CS SSF 4 |  | CS SSF 21 | 988 |
| CS SSF 5 |  | CS SSF 22 | 988 |
| CS SSF 6 |  | CS SSF 23 | 988 |
| CS SSF 7 | 988 | CS SSF 24 | 988 |
| CS SSF 8 | 988 | CS SSF 25 | 988 |
| **Treatment** |
| Diagnostic Staging Procedure |  |  |  |
| **Surgery Codes** |  | **Radiation Codes** |  |
| Surgical Procedure of Primary Site |  | Radiation Treatment Volume |  |
| Scope of Regional Lymph Node Surgery |  | Regional Treatment Modality |  |
| Surgical Procedure/ Other Site |  | Regional Dose |  |
| **Systemic Therapy Codes** |  | Boost Treatment Modality |  |
| Chemotherapy |  | Boost Dose |  |
| Hormone Therapy |  | Number of Treatments to Volume |  |
| Immunotherapy |  | Reason No Radiation |  |
| Hematologic Transplant/Endocrine Procedure |  | Radiation/Surgery Sequence |  |
| Systemic/Surgery Sequence |  |  |  |

## Case Scenario 2

68 year old black male presents with mass on lateral wall of oropharynx found during a dental procedure. Patient is a smoker and has a history of alcohol use.

**Physical Exam:** Pink lips with intact gingiva and soft floor of mouth. The tongue demonstrates unrestricted movement and is soft diffusely including the base of tongue. Tumor on right lateral wall of oropharynx appears to involve the posterior tonsillar pillar. The anterior tonsillar pillar is intact.

**Direct laryngoscopy:** A McIntosh laryngoscope blade was placed in his oral cavity and allowed visualization of the base of tongue and oropharyngeal region. The base of the tongue was soft as well, with no apparent abnormalities as was the posterior pharyngeal wall. The soft palate was unremarkable and the uvula was singular and demonstrated no mucosal masses, lesions or ulcerations. However, the right lateral wall of the oropharynx appeared to have a broad centrally ulcerated lesion with heaped up mucosal edges around it circumferentially. The lesion appeared to involve the posterior tonsillar pillar.

**Biopsy:** Invasive, poorly differentiated squamous cell carcinoma

**CT Larynx/Neck:** There is thickening along the right lateral wall of the oropharynx which likely correspond to the clinically known lateral wall cancer. The lesion is relatively sessile, limiting assessment of its true size. As can be visualized on these CT images, it measures up to 2.4 x 1.9 cm in cross section, and 2.2 cm craniocaudal. Two enlarged retropharyngeal lymph nodes were visualized. The largest measured 2.3 cm (image 72 of 165). These lymph nodes most likely represent metastasis from the known oropharyngeal primary.

**Operative Report:**

1. TRANSORAL RESECTION OF OR0PHARYNGEAL LESION ON THE RIGHT LATERAL WALL
2. RIGHT SELECTIVE NECK DISSECTION OF RETROPHARYNGEAL AND LEVELS 1-4.

**Pathology:**

A) LYMPH NODES RIGHT RETROPHARYNGEAL (3)

* TWO LYMPH NODES POSITIVE FOR METASTATIC SQUAMOUS CELL CARICNOMA.
	+ THE LARGEST METASTIC FOCUS IN THE LYMPH NODE WAS 2.1 CM. IN GREATEST DIMENSION WITH TUMOR INVASION THROUGH THE LYMPH NODE CAPSULE.
	+ THE LARGEST METASTIC FOCUS IN THE SECOND LYMPH NODE WAS 1.3 CM. IN GREATEST DIMENSION WITHOUT TUMOR INVASION THROUGH THE LYMPH NODE CAPSULE
	+ THE THIRD LYMPH NODE WAS NEGATIVE FOR TUMOR.

B) LYMPH NODES RIGHT NECK LEVEL II, EXCISION:

* MULTIPLE, 6, LYMPH NODES ARE NEGATIVE FOR TUMOR.

C) LYMPH NODES RIGHT NECK LEVEL III, EXCISION:

* MULTIPLE, 2, LYMPH NODES ARE NEGATIVE FOR TUMOR.

D) LYMPH NODES RIGHT NECK LEVEL IV, EXCISION:

* MULTIPLE, 3, LYMPH NODES ARE NEGATIVE FOR TUMOR.

E) OROPHARYNX, RIGHT LATERAL WALL:

* INVASIVE MODERATELY DIFFERENTIATED SQUAMOUS CELL CARCINOMA FORMING A 2.6 X 2.3 CM. ULCERATED MASS.
* THE TUMOR INVADES INTO POSTERIOR TONSILLAR PILLAR TO A DEPTH OF 1.1 CM.
* PERINEURAL INVASION IS PRESENT.
* LYMPHOVASCULAR INVASION IS IDENTIFIED.
* THE SURGICAL MARGINS ARE NEGATIVE FOR TUMOR.

**Treatment Summary:**

Patient completed his concurrent chemo/radiotherapy. He received 60 Gy in 30 sessions to initial neck lymph node region utilizing 6 MV photons, 3D conformal radiotherapy and opposing lateral fields. Patient concurrently received cisplatin.

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| --- | --- |
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| CS SSF 6 |  | CS SSF 23 | 988 |
| CS SSF 7 | 988 | CS SSF 24 | 988 |
| CS SSF 8 | 988 | CS SSF 25 | 988 |
| Summary Stage |  |  |  |
| Clinical Stage | T N M Stage | Path Stage | T N M Stage |
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