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TCGA-TN-A7HL-01A-PR

Redacted



*ICD-O-3*

Carcinoma, squamous cell NOS  
8070.3

Site Hypopharynx NOS  
C13.9

*pw 9/26/13*

**Surgical Pathology Report**

**--- Clinical History ---**

Cancer of hypopharynx . Medical history: Smoking. Alcoholism.  
Chronic bronchitis with emphysema. Squamous cell carcinoma of larynx.

**---Final Pathologic Diagnosis---**

Right superior laryngeal nerve margin, biopsy:  
Negative for Invasive Squamous Cell Carcinoma.

Left hypopharynx margin, biopsy:  
Negative for Invasive Squamous Cell Carcinoma.

Right hypopharynx margin, biopsy:  
Negative for Invasive Squamous Cell Carcinoma.

Inferior hypopharynx margin, biopsy:  
Negative for Invasive Squamous Cell Carcinoma.

Right superior pharynx margin, biopsy:  
Negative for Invasive Squamous Cell Carcinoma.

Trachea margin, biopsy:  
Negative for Invasive Squamous Cell Carcinoma.

Tongue base margin, biopsy:  
Negative for Invasive Squamous Cell Carcinoma.

Cricoid lymph node, excision:  
One Lymph Node, Negative for Metastatic Squamous Cell Carcinoma  
(0/1).

Right neck, Levels II-IV, dissection:  
Metastatic Squamous Cell Carcinoma Involving Three of

Twenty-Nine Lymph Nodes (3/29).

- Level II: 2/6; Level III: 1/10; Level IV: 0/13.  
- The Largest Positive Lymph Node Measures 3.3cm in Greatest Dimension (Level II).  
- Extracapsular Nodal Extension is Present.

- Left neck, Levels II-IV, dissection:  
- Thirty-five Lymph Nodes, Negative for Metastatic Squamous Cell Carcinoma (0/35).  
- Level II: 0/15; Level III: 0/7; Level IV: 0/13.

- Additional left level IV lymph nodes, dissection:  
- Five Lymph Nodes, Negative for Metastatic Squamous Cell Carcinoma (0/5).

- Larynx, pharynx, right thyroid lobe, resection:  
- Invasive Moderately Differentiated HPV-Associated Squamous Cell Carcinoma, Located in the Right Hypopharynx with Involvements of the Right Piriform Sinus and Right Vocal Cord. (See Synoptic Report)  
- Tumor Measures 4.7 x 3.7 x 2.6cm in Size.  
- Tumor Abuts the Thyroid Cartilage But Does Not Violate It.  
- Thyroid Gland, Negative for Invasive Squamous Cell Carcinoma.  
- Tumor is at 0.09mm and .15mm from the Right Lateral Hypopharyngeal and Base of Tongue Soft Tissue Edges/Margins Respectively (See Note)

Note: Additional specimens designated as "Right Hypopharynx Margin" (part C) and "Tongue Base Margin" (part G) Are Negative for Malignancy.

- Additional right Level II lymph node, excision:  
- One Lymph Node, Negative for Metastatic Squamous Cell Carcinoma (0/1).

SYNOPTIC REPORT FOR CANCER OF THE PHARYNX:

Specimen type: Total Laryngectomy, Partial Pharyngectomy, Right Thyroid Lobectomy and Bilateral Neck Dissections (Levels II-IV)

Tumor site: Right Hypopharynx with Involvement of the Right Piriform and Ipsilateral Vocal Cords

Tumor focality (single focus/multifocal): Single Focus

Tumor size: 4.7 x 3.7 x 2.6cm

Tumor gross configuration: Exophytic and Ulcerative

Histologic type: HPV-Associated Squamous Cell Carcinoma

Tumor grade: Moderately Differentiated

Lymphatic/vascular invasion: Yes

Perineural invasion: Yes

Tumor extent:

Intramucosal lesion: Yes

Adjacent soft tissues and/or bone (primary tumor related):

Margins:

Mucosal margins: Negative

Soft tissue margins: Negative

Distance of tumor to nearest margin: Tumor is at 0.09mm and .15mm from the Closest Right Lateral Hypopharyngeal and Tongue Base Edges/Margins respectively. However, Additional Specimen Designated as "Right Hypopharynx Margin" (part C) and "Tongue Base Margin" (part G) Are Negative for Malignancy

Lymph nodes:

Total number examined: 71

Number positive: 3

Extranodal extension: Yes

Size of largest positive lymph node: 3.3cm

Necoadjuvant therapy: No

Ancillary Studies: Please refer to

for Results of p16/HPV-16

Status

pTNM: pT3 pN2b

\*\*\*The above synoptic report complies, in slightly modified form, with the guidelines of the College of American Pathologists Protocols and the AJCC Cancer Staging Manual, 7th edition, 2010, for the reporting of cancer specimens.\*\*\*

Primary Tumor (pT): Hypopharynx

pT1: Tumor limited to one subsite of hypopharynx and/or 2 cm or less in greatest dimension

pT2: Tumor invades more than one subsite of hypopharynx or an adjacent site, or measures more than 2 cm but not more than 4 cm in greatest dimension without fixation of hemilarynx

pT3: Tumor measures more than 4 cm in greatest dimension or with fixation of hemilarynx or extension to esophagus

pT4a: Moderately advanced local disease. Tumor invades thyroid/cricoid cartilage, hyoid bone, thyroid gland, or central compartment soft tissue#

pT4b: Very advanced local disease. Tumor invades prevertebral fascia, encases carotid artery, or involves mediastinal structures

#Note: Central compartment soft tissue includes prelaryngeal strap muscles and subcutaneous fat.

Regional Lymph Nodes (pN)

pNx: Cannot be assessed

pN0: No regional lymph node metastasis

Regional Lymph Nodes (pN): Oropharynx and Hypopharynx#

pN1: Metastasis in a single ipsilateral lymph node, 3 cm or less in greatest dimension

pN2: Metastasis in a single ipsilateral lymph node, more than 3 cm but not more than 6 cm in greatest dimension, or in multiple ipsilateral lymph nodes, none more than 6 cm in greatest dimension, or in bilateral or contralateral lymph nodes, none more than 6 cm in greatest dimension

pN2a: Metastasis in a single ipsilateral lymph node, more than 3 cm but not more than 6 cm in greatest dimension

pN2b: Metastasis in multiple ipsilateral lymph nodes, none more than 6cm in greatest dimension

pN2c: Metastasis in bilateral or contralateral lymph nodes, none more than 6 cm in greatest dimension

pN3: Metastasis in a lymph node more than 6 cm in greatest dimension

Specify: Number examined: 71

Number involved: 3

\*Size (greatest dimension) of the largest positive lymph node: 3.3cm

# Note: Metastases at level VII are considered regional lymph node metastases. Midline nodes are considered ipsilateral nodes.

Distant Metastasis (pM)

Not applicable

pM1: Distant metastasis

\*Specify site(s), if known: \_\_\_\_\_

\* Source of pathologic metastatic specimen (specify): \_\_\_\_\_

---INTRAOPERATIVE CONSULTATION DIAGNOSIS:---

AF1. Right superior laryngeal nerve margin (Frozen section performed):  
- Benign nerve.

Note: Reported to on at

BF1. Left hypopharynx margin (Frozen section performed):  
- Benign.

CF1. Right hypopharynx margin (Frozen section performed):  
- Benign.

DF1. Inferior hypopharynx margin (Frozen section performed):  
- Benign.

EF1. Right superior pharynx margin (Frozen section performed):  
- Benign.

FF1. Trachea margin (Frozen section performed):  
- Benign.

GF1. Tongue base margin (Frozen section performed):  
- Benign.

Note: BF through GF were reported to on at

Examining pathologist

---SPECIMEN(S) RECEIVED:---

- A: Surgical margin
- B: Surgical margin
- C: Surgical margin
- D: Surgical margin
- E: Surgical margin
- F: Surgical margin
- G: Surgical margin
- H: Lymph node, excision
- I: Lymph node, dissection

J: Lymph node, dissection  
K: Lymph node, dissection  
L: Larynx, partial/total without lymph nodes  
M: Lymph node, excision

---GROSS DESCRIPTION:---

The specimens are received in thirteen properly labeled containers with the patient's name and accession number, seven were submitted for frozen section.

A. The specimen is designated "right superior laryngeal nerve margin" and consists of a 0.2 x 0.2 x 0.1 cm soft tissue fragment. This specimen was submitted entirely for frozen section. All tissue was exhausted at the time of frozen section.

B. The specimen is designated "left hypopharynx margin" and consists of a 0.6 x 0.2 x 0.2 cm soft tissue fragment. This specimen was submitted entirely for frozen section. Frozen section cassette BF1 is resubmitted as received.

C. The specimen is designated "right hypopharynx margin" and consists of a 0.9 x 0.3 x 0.2 cm soft tissue fragment. This specimen was submitted entirely for frozen section. All tissue was exhausted at the time of frozen section.

D. The specimen is designated "inferior hypopharynx margin" and consists of a 0.5 x 0.3 x 0.2 cm soft tissue fragment. This specimen was submitted entirely for frozen section. Frozen section cassette DF1 is resubmitted as received.

E. The specimen is designated "right superior pharynx margin" and consists of a 0.5 x 0.4 x 0.3 cm soft tissue fragment. This specimen was submitted entirely for frozen section. Frozen section cassette EF1 is resubmitted as received.

F. The specimen is designated "trachea margin" and consists of a 0.5 x 0.3 x 0.1 cm soft tissue fragment. This specimen was submitted entirely for frozen section. All tissue was exhausted at the time of frozen section.

G. The specimen is designated "tongue base margin" and consists of a 0.8 x 0.4 x 0.3 cm soft tissue fragment. This specimen was submitted entirely for frozen section. All tissue was exhausted at the time of frozen section.

H. The specimen is designated "cricoid lymph node" and consists of a 0.3 x 0.2 x 0.2 cm lymph node.

I. The specimen is designated "right neck dissection lymph nodes levels 2-4 (stitches: 2 = level 2, 1 = level 4)" and consists of an 11.5 x 4.7 x 2.4 cm portion of fibrofatty tissue without skeletal muscle or segment of internal jugular vein. Two sutures are placed at Level II and one suture at Level IV. Levels II-IV are represented. Six lymph nodes are identified within Level II (one positive), 11 lymph nodes within Level III (one positive), and 14 lymph nodes within Level IV. The lymph nodes range from 0.2 cm in maximum dimension up to 3.3 x 2.8 x 1.4 cm. The largest lymph node is in Level II, and contains a 2.1 cm metastatic deposit.

Summary of Cassettes: I1, five Level II lymph nodes; I2-3, each cassette contains one section from largest (positive) Level II lymph node; I4, six Level III lymph nodes; I5, three Level III lymph nodes; I6, one bisected Level III lymph node; I7, section from positive Level III lymph node; I8-9, each cassette contains six Level IV lymph nodes; I10, two Level IV lymph nodes

J. The specimen is designated "left neck dissection lymph nodes x levels 2-4 (stitches: 2 - level 2, 1 - level 4)" and consists of an 11.0 x 5.0 x 2.0 cm portion of fibrofatty tissue without skeletal muscle or segment of internal jugular vein. Two sutures are placed at Level II and one suture at Level IV. Levels II-IV are represented. Twelve lymph nodes are identified within Level II, seven lymph nodes within Level III, and 12 lymph nodes within Level IV. The lymph nodes range from 0.3 cm in maximum dimension up to 1.7 x 0.6 x 0.3 cm. The largest lymph node is in Level II.

Summary of Cassettes: J1, six Level II lymph nodes; J2-3, each cassette contains three Level II lymph nodes; J4, four Level III lymph nodes; J5, three Level III lymph nodes; J6, six Level IV lymph nodes; J7, four Level IV lymph nodes; J8, two Level IV lymph nodes

K. The specimen is designated "additional left level 4 lymph nodes" and consists of a 3.0 x 1.5 x 1.0 cm portion of fibrofatty tissue. Five possible lymph nodes are identified, ranging from 0.2 cm in maximum dimension up to 1.7 x 1.4 x 0.6 cm.

Summary of Cassettes: K1, four lymph nodes; K2, one bisected lymph node

L. The specimen is designated "total larynx, partial pharynx, right thyroid lobe" and consists of an intact total laryngectomy with attached hyoid bone (8.4 x 6.7 x 6.4 cm), attached right thyroid lobe (5.2 x 3.1 x 2.7 cm), and portion of right hypopharynx. The soft tissue and mucosal margins are inked black. The right hypopharynx is extensively involved by a 4.7 x 3.7 x 2.6 cm gray-tan, feathery, irregularly marginated submucosal mass that manifests as a 2.8 x 1.1 cm ulcerated mucosal lesion within the right piriform sinus, involving the lateral border of the aryepiglottic fold, and is 0.7 cm from both the superior and inferior hypopharyngeal mucosal margins and 0.6 cm from the right lateral hypopharyngeal mucosal margin. The mass itself diffusely infiltrates the soft tissues, abuts the base of tongue (superior) soft tissue margin, and is 0.1 and 0.2 cm from the right anterior and right lateral soft tissue margins, respectively. The mass is 3.2 cm from the tracheal margin. The mass does not involve the laryngeal vestibule, glottic or subglottic regions. There is no apparent involvement of the cricoid cartilage, tracheal lumen, or hyoid bone. The mass appears confined to the right side and does not cross the midline. The mass surrounds (and possibly involves) the thyroid cartilage. The thyroid parenchyma is red-brown and smooth, without nodularity or definable mass lesion.

Summary of Cassettes: L1, mass with mucosal lesion, perpendicular to right superior hypopharyngeal mucosal margin; L2, right aryepiglottic fold with mucosal lesion and mass; L3, mucosal lesion and mass perpendicular to right lateral hypopharyngeal mucosal margin; L4, mucosal lesion and mass perpendicular to inferior hypopharyngeal mucosal margin; L5, right true and false vocal cords; L6, mass perpendicular to base of tongue soft tissue margin; L7, mass perpendicular to right lateral hypopharyngeal soft tissue margin; L8-9, mass perpendicular to right anterior soft tissue margin (to include thyroid cartilage); L10, mass in relation to laryngeal mucosa; L11,

epiglottis; L12, tracheal margin, shave; L13, left true and false vocal cords; L14, left piriform sinus and aryepiglottic fold, perpendicular to left lateral hypopharyngeal mucosal margin; L15, left anterior soft tissue margin, perpendicular; L16-17, right thyroid, representative sections; L18, isthmic margin, shave

M. The specimen is designated "additional right level 2 lymph nodes" and consists of a 2.0 x 1.5 x 1.0 cm aggregate of fibrofatty tissue. One possible lymph node is identified, measuring 0.7 x 0.5 x 0.3 cm.

Summary of Cassettes: M1, one lymph node

Criteria	Yes	No
Diagnosis Discrepancy	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Primary Tumor Site Discrepancy	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CTPA Discrepancy	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Prior Malignancy History	<input checked="" type="checkbox"/>	<input type="checkbox"/>
True/Synchronous Primary Node	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Case is (circle):	QUALIFIED	DISQUALIFIED
Reviewer Initials	MC	
	Date Reviewed: 8/30/13	