



AJCC Cancer Staging of laryngeal cancer, 2010

7th Edition

莊俊義

中山醫學大學附設醫院

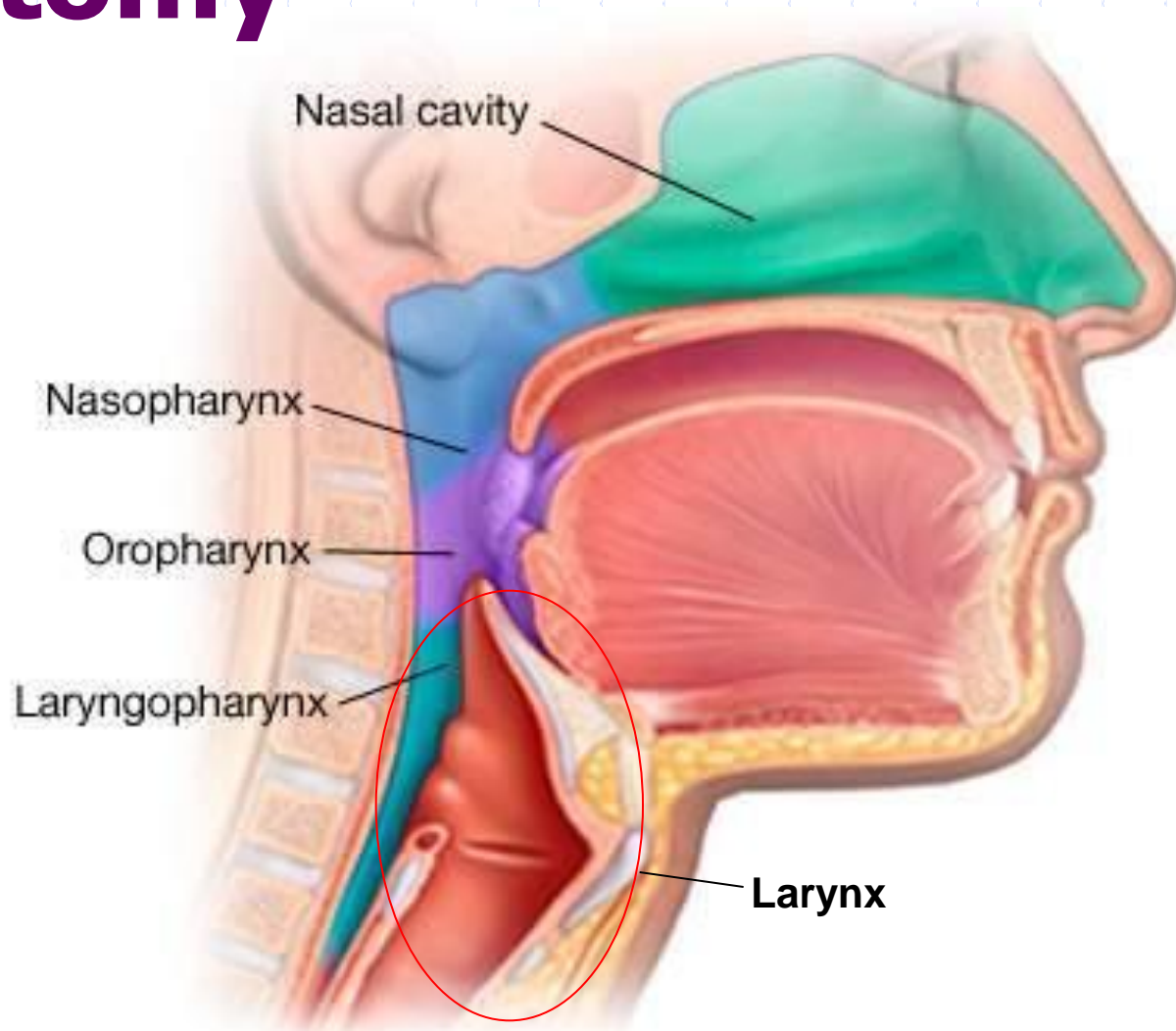
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Outline

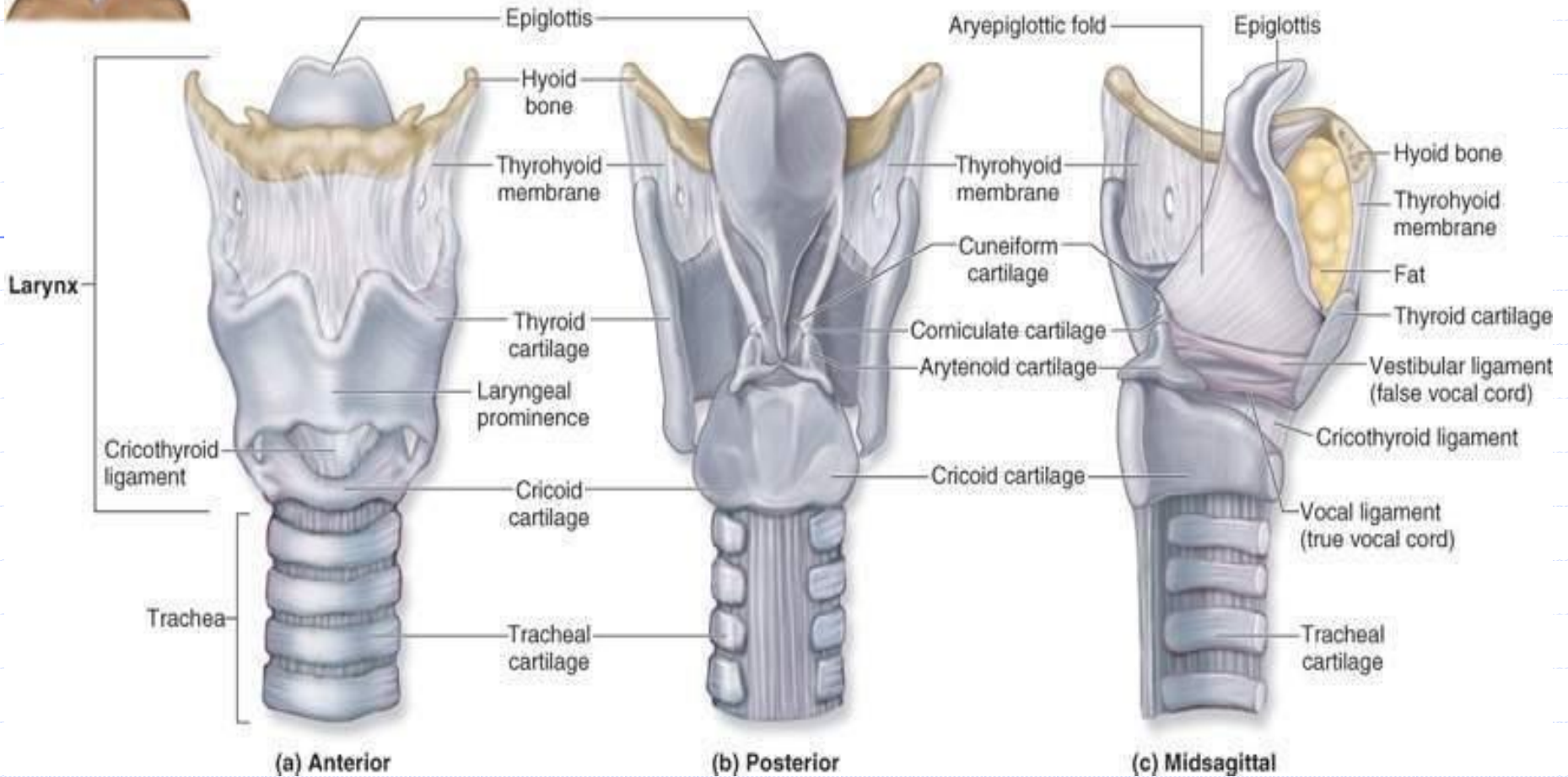
- ◆ Anatomy
 - ◆ General Rules For TNM Staging
 - ◆ AJCC cancer Staging of Laryngeal Cancer
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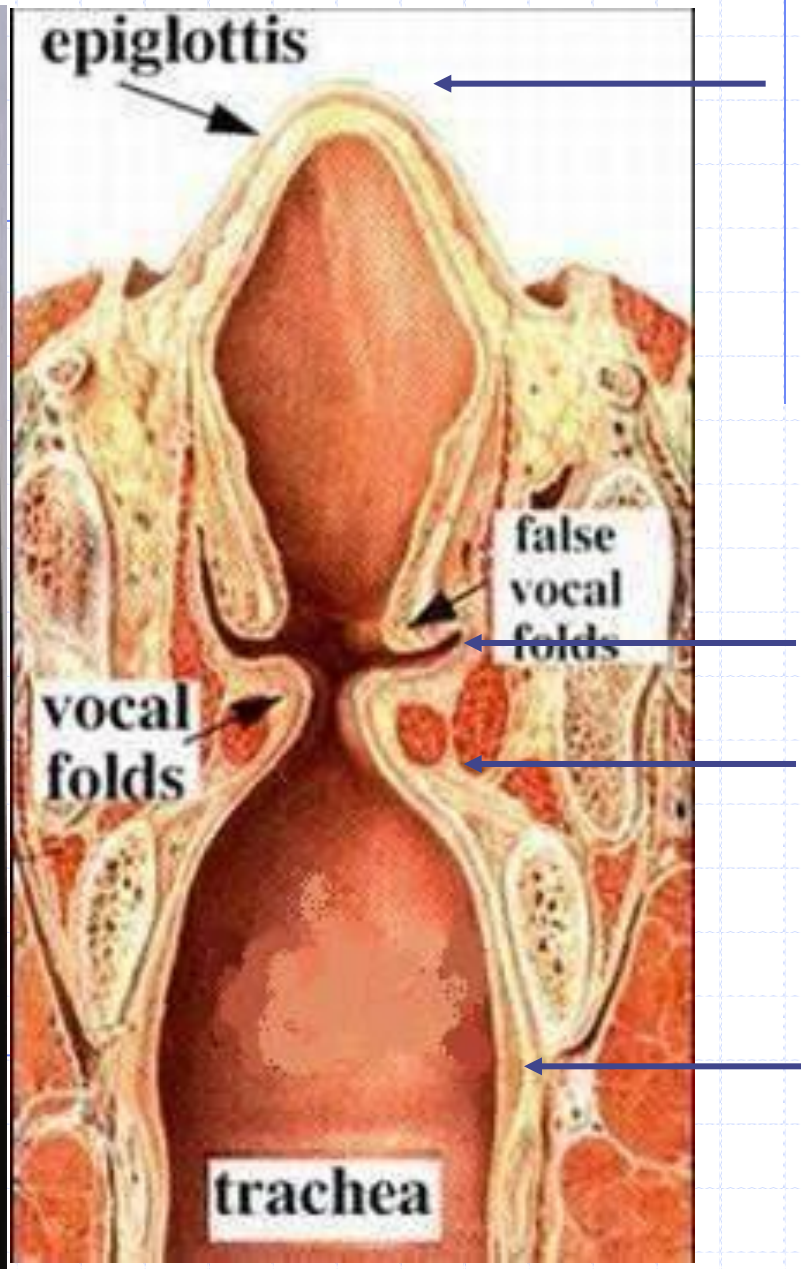
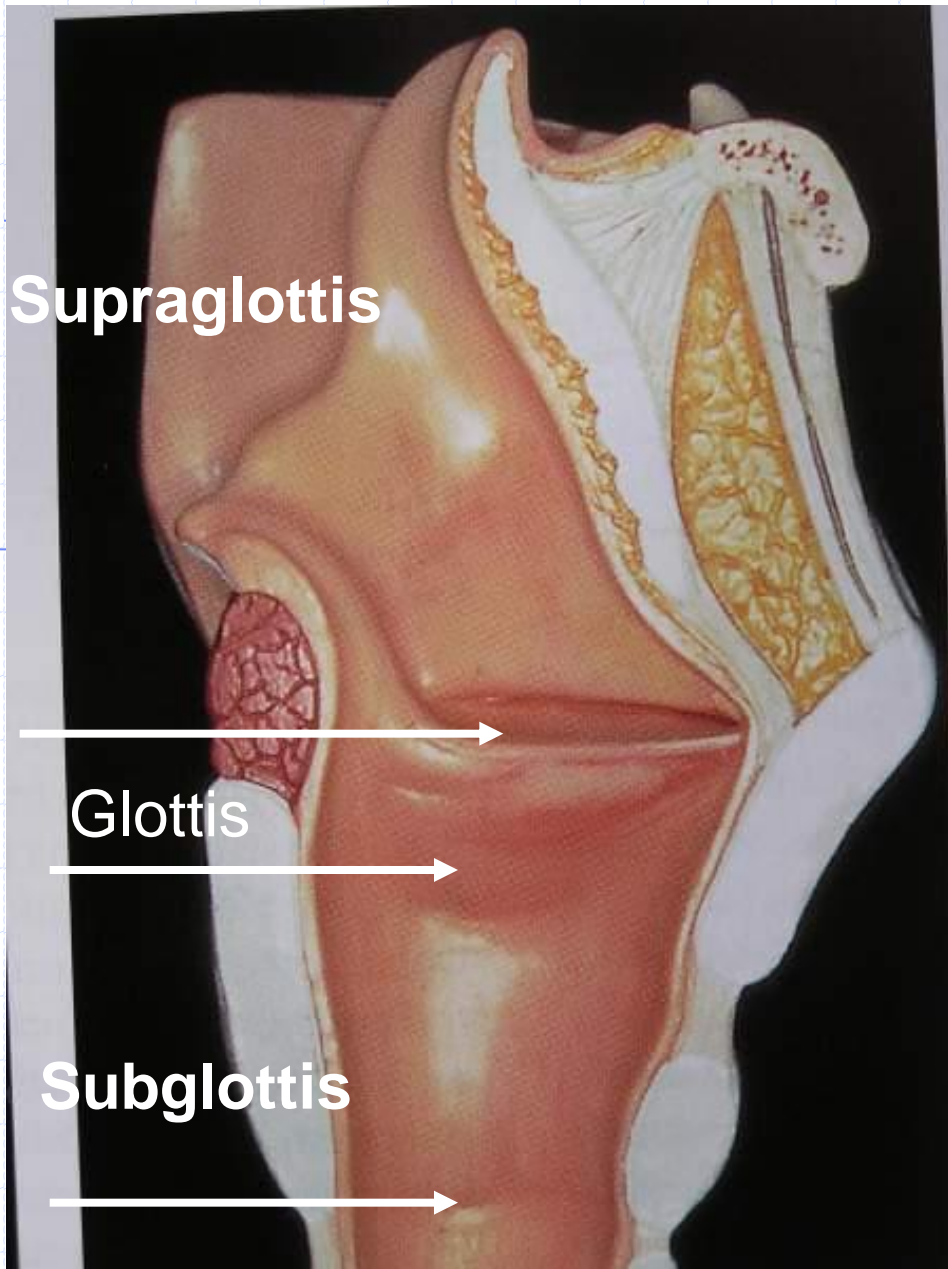
Anatomy



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From: www.ohiohealth.com/mayoimages/images/image_popup/c7_nasopharynx.jpg

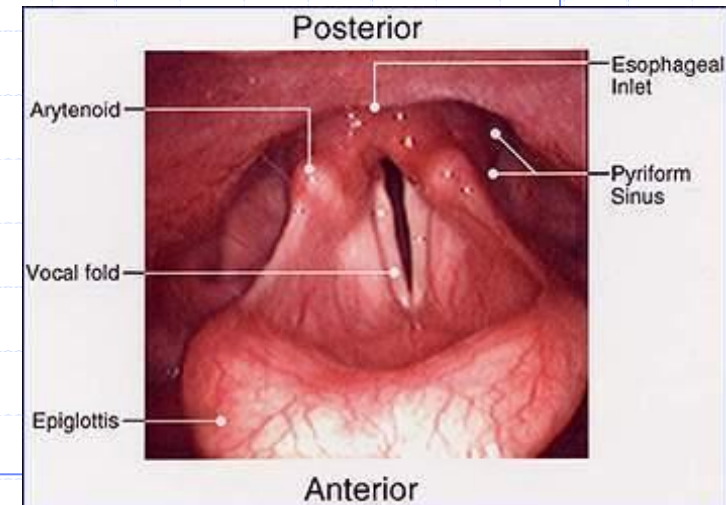






From: www.drrahmatorlummc.com/theoropharynxanatomy.htm

Site	Subsite
Supraglottis	Suprahyoid epiglottis Infrahyoid epiglottis Aryepiglottic fold (laryngeal aspect) Arytenoids Ventricular bands (false cord)
Glottis	True vocal cords, including ant. & Posterior commissure
Subglottis	Subglottis



From: www.entandallergy.com/vas/gallerydetails/Normal-Larynx-swallowing

General Rules For TNM system and Staging

- ◆ American Joint Committee on Cancer (AJCC)
- ◆ T= the extent of primary tumor
- ◆ N= the absence or present of regional lymph node metastasis
- ◆ M= the absence or present of distant metastasis

The **T** component is defined by the size or contiguous extension of the primary tumor.

Primary Tumor (T)

T0	No evidence of primary tumor
Tis	Carcinoma in situ
T1, T2, T3, T4	Increasing size and/or local extension of the primary tumor
TX	Primary tumor cannot be assessed (use of TX should be minimized)

The **N** component is defined by the absence, or presence and extent of cancer in the regional draining lymph nodes.

Nodal involvement is categorized by the number of *positive nodes* and for certain cancer sites by the involvement of specific regional nodal groups.

Regional Lymph Nodes (N)

N0	No regional lymph node metastases
N1, N2, N3	Increasing number or extent of regional lymph node involvement
NX	Regional lymph nodes cannot be assessed (use of NX should be minimized)

The ***M*** component is defined by the absence or presence of distant spread or metastases, generally in locations to which the cancer spread by vascular channels, or by lymphatics beyond the nodes defined as “regional.”

Distant Metastasis (M)

M0 No distant metastases

M1 Distant metastases present

Note: The MX designation has been eliminated from the AJCC/UICC TNM system.

Stage Classifications

◆ **cTNM** : Clinical stage/pretreatment stage

Usage for

Define prognosis and initial therapy

Population comparisons

◆ **pTNM** : Pathologic stage

Usage for

Most precise prognosis estimates

Define subsequent therapy

◆ ***ycTNM*** or ***ypTNM*** : Post therapy or postneoadjuvant therapy stage

◆ ***rTNM*** :Retreatment or recurrence classification

◆ ***aTNM*** : Autopsy classification

Supraglottis

T1	Tumor limited to one subsite of supraglottis with normal vocal cord <i>mobility</i>
T2	Tumor invades mucosa of <u>more than one <i>adjacent subsite</i></u> of supraglottis or glottis or region <u>outside the <i>supraglottis</i></u> (e.g., mucosa of <i>base of tongue</i> , vallecula, medial wall of <i>pyriform sinus</i>) without fixation of the larynx
T3	Tumor limited to larynx with <i>vocal cord fixation</i> and/or invades any of the following: postcricoid area, pre-epiglottic space, paraglottic space, and/or inner cortex of thyroid cartilage
T4a	Moderately advanced local disease Tumor invades <i>through the thyroid cartilage</i> and/or invades tissues <i>beyond the larynx</i> (e.g., trachea, soft tissues of neck including deep extrinsic muscle of the tongue, strap muscles, thyroid, or esophagus)
T4b	Very advanced local disease Tumor invades <i>prevertebral space</i> , encases <i>carotid artery</i> , or invades <i>mediastinal</i> structures

Glottis

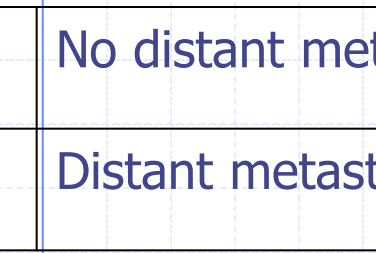
T1	Tumor limited to the vocal cord(s) (may involve anterior or posterior commissure) with normal mobility
T1a	Tumor limited to <i>one</i> vocal cord
T1b	Tumor involves <i>both</i> vocal cords
T2	Tumor extends to <i>supraglottis</i> and/or <i>subglottis</i> and/or with <i>impaired vocal cord mobility</i>
T3	Tumor limited to the larynx with <i>vocal cord fixation</i> and/or invasion of <i>paraglottic space</i> and/or <i>inner cortex of the thyroid cartilage</i>
T4a	Moderately advanced local disease. Tumor invades through the <i>outer cortex of the thyroid cartilage</i> and/or invades tissues <i>beyond the larynx</i> (e.g., trachea, soft tissues of neck including deep extrinsic muscle of the tongue, strap muscles, thyroid, or esophagus)
T4b	Very advanced local disease Tumor invades <i>prevertebral space</i> , encases <i>carotid artery</i> , or invades <i>mediastinal</i> structures

Subglottis

T1	Tumor limited to the subglottis
T2	Tumor extends to <i>vocal cord(s)</i> with normal or impaired mobility
T3	Tumor limited to larynx with <i>vocal cord fixation</i>
T4a	Moderately advanced local disease Tumor invades cricoid or thyroid cartilage and/or invades tissues <i>beyond the larynx</i> (e.g., trachea, soft tissues of neck including <i>deep extrinsic muscles of the tongue, strap muscles, thyroid, or esophagus</i>)
T4b	Very advanced local disease Tumor invades <i>prevertebral space</i> , encases <i>carotid artery</i> , or invades <i>mediastinal</i> structures

NX	Regional lymph nodes cannot be assessed
N0	No regional lymph node metastasis
N1	Metastasis in a single ipsilateral lymph node, ≤ 3 cm in greatest dimension
N2	Metastasis in a single ipsilateral lymph node, >3 cm but ≤ 6 cm in greatest dimension
	Metastases in multiple ipsilateral lymph nodes, none >6 cm in greatest dimension
	Metastases in bilateral or contralateral lymph nodes, none >6 cm in greatest dimension
N2a	Metastasis in a <i>single ipsilateral</i> lymph node, >3 cm but ≤ 6 cm in greatest dimension
N2b	Metastases in <i>multiple ipsilateral</i> lymph nodes, <i>none</i> >6 cm in greatest dimension
N2c	Metastases in <i>bilateral</i> or <i>contralateral</i> lymph nodes, <i>none</i> >6 cm in greatest dimension
N3	Metastasis in a lymph node, >6 cm in greatest dimension

*Note: Metastases at level VII are considered regional lymph node metastases.



M0	No distant metastasis
M1	Distant metastasis

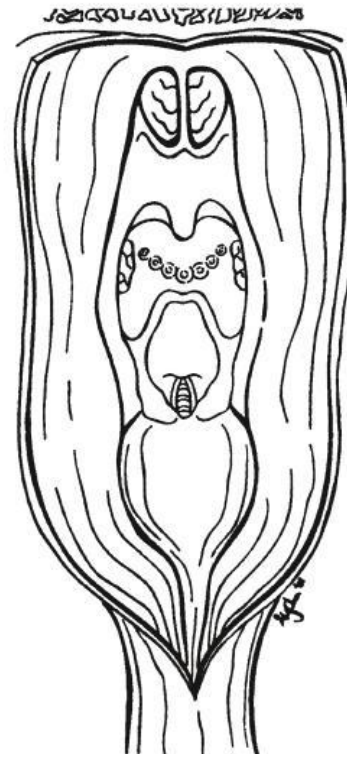
Staging group

GROUP		T	N	M
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<input type="checkbox"/>	I	T1	N0	M0
<input type="checkbox"/>	II	T2	N0	M0
<input type="checkbox"/>	III	T3	N0	M0
		T1	N1	M0
		T2	N1	M0
		T3	N1	M0
<input type="checkbox"/>	IVA	T4a	N0	M0
		T4a	N1	M0
		T1	N2	M0
		T2	N2	M0
		T3	N2	M0
		T4a	N2	M0
<input type="checkbox"/>	IVB	T4b	Any N	M0
		Any T	N3	M0
<input type="checkbox"/>	IVC	Any T	Any N	M1
<input type="checkbox"/>	Stage unknown			

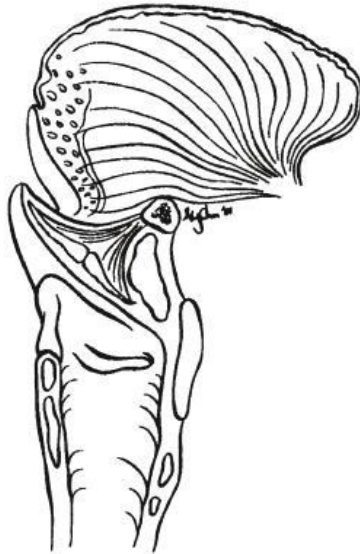
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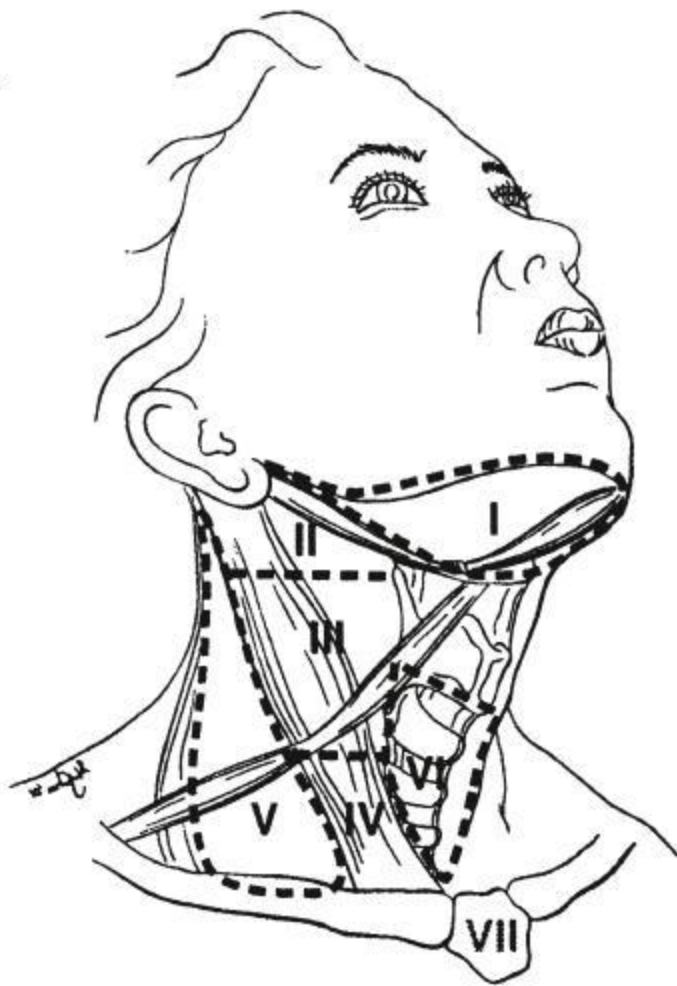
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