

Unit 21:

Neck 2 (anterior cervical region, larynx)

Chapter 8 (Neck): (p. 999-1011 and 1022-1030)

GENERAL OBJECTIVES:

- general considerations of the organization of anterior cervical region
- structure and function of larynx

SPECIFIC OBJECTIVES:

1. Anterior Triangle

Boundaries

Carotid Triangle

Contents:

Carotid Sheath
Common Carotid Artery
-Internal Carotid Artery (with Carotid Sinus & Carotid Body)
-External Carotid Artery (& Branches)
Internal Jugular Vein (with Tributaries:Common Facial. Others)
Upper Deep Cervical Lymph Nodes
Nerves: *Vagus (X) (with External & Internal Laryngeal Branches)*
Accessory (XI)
Hypoglossal (XII).
Ansa Cervicalis
Sympathetic Trunk

Submandibular (Digastric) Triangle

Roof & Floor (Mylohyoid & Hyoglossus)

Contents:

Submandibular Gland (Superficial Part)
Facial Artery & Vein
Submandibular Lymph Nodes
Hypoglossal Nerve
Nerve to Mylohyoid

Submental Triangle

Contents:

Submental Lymph Nodes

Muscular Triangle

Contents:

Anterior Jugular Veins, Infrahyoid (Strap) Muscles

2. Larynx

Framework (Unpaired Cartilages):Thyroid, Cricoid, Epiglottic

Paired Cartilages: Arytenoids

Corniculates & Cuneiforms

Joints: Cricothyroid & Cricoarytenoid

Ligaments & Membranes:

Thyrohyoid Membrane, Cricothyroid Ligament

Vocal Ligament & Conus Elasticus

Quadrangular Membrane & Vestibular Ligament

Interior: (Mucous Membrane)

Aryepiglottic folds (-> Inlet)

Vestibule

Vestibular Folds ("False Cords")

Ventricle (& Sacculae)

Vocal Folds (& Rima Glottidis) -> "Glottis"

Infraglottic Cavity

Muscles: **Extrinsic**

Intrinsic:

(i) Of inlet of Larynx (->Sphincteric Action)

(ii) Acting on Vocal Folds (-> Open & Close Rima Glottidis):

Cricothyroid, Posterior Cricoarytenoid

Others

Movements of Vocal Folds:

Abduction

Adduction, Tension/Relaxation

Vessels

Nerves (Sensory, Motor)