Mackay Medical College Department of Medicine Clinical Skills



Physical examination in Thyroid and Neck Lymph Nodes

馬偕紀念醫院內分泌暨新陳代謝科

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Overview

Part. I

Thyroid examinations

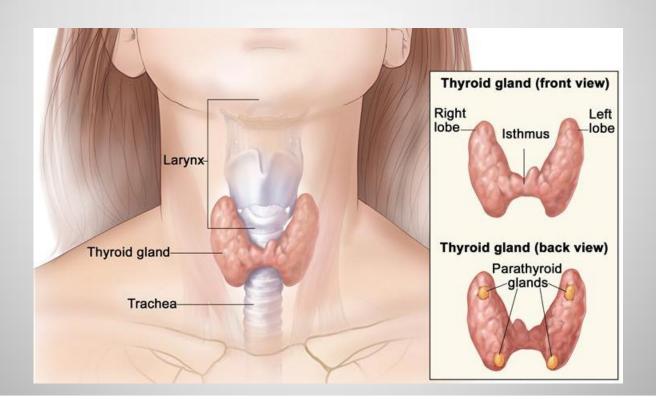
Part. II

Neck lymph nodes examinations

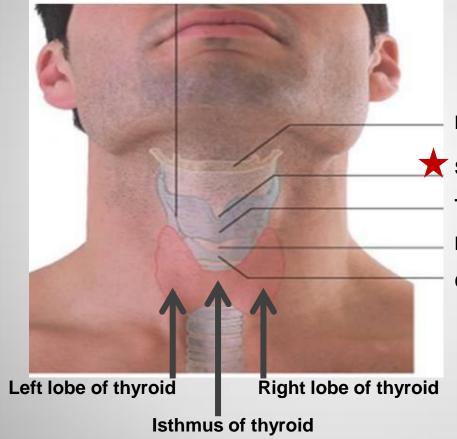
Part. III

Thyroid Anatomy

- Greek thyreos (shield) plus eidos (form)
- The normal thyroid is 12–20 g, highly vascular, and soft in consistency



Thyroid Inspection



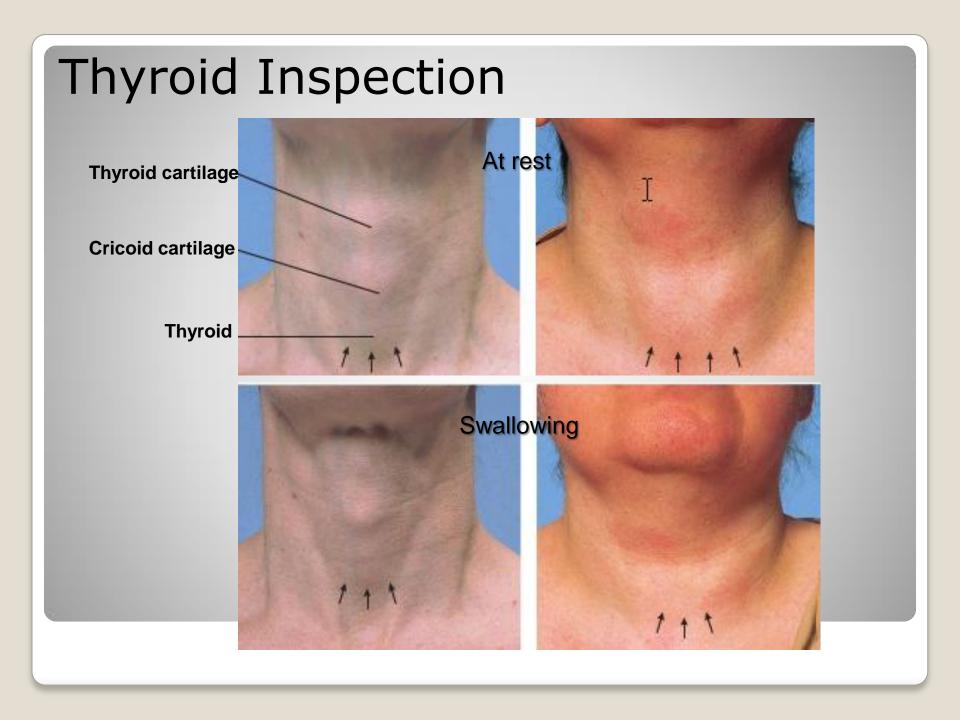
Hyoid cartilage

X Superior thyroid notch

Thyroid cartilage

Median crico-thyroid ligament

Cricoid cartilage



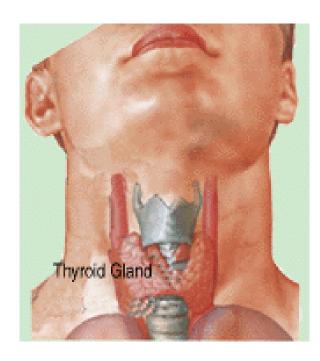
Thyroid Inspection

Goiter Grading by WHO	Description
Grade 0	no goiter
Grade I	goiter detectable only by palpation or visible when neck fully extended
Grade II	goiter visible when neck in natural position
Grade III	very large goiter visible from a considerable distance (非常大)
Grade IV	monstrous goiter (異常大)

Extended neck can be inspected for: Asymmetry? Scars? Masses?

★ The normal thyroid is barely visible

Palpate the Thyroid Gland



When swallowing, thyroid moves beneath the examiner's fingers.



Anterior approach



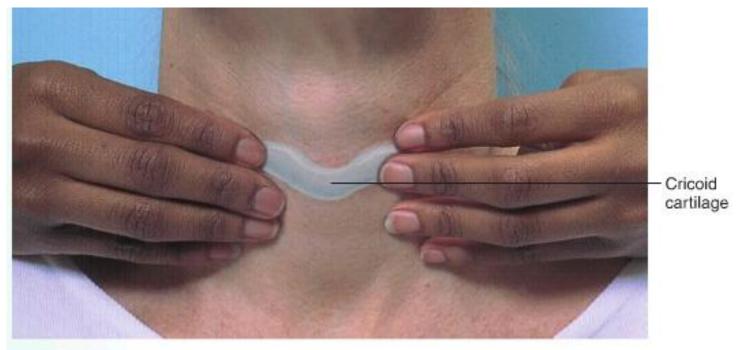
Posterior approach

Anterior approach for the palpation of the thyroid



- Examiner and the patient sit face to face
- Use left hand to displace the larynx to the left
- During swallowing, the left thyroid is palpated by the examiner's right thumb

Posterior approach for the palpation of the thyroid



- Examiner stands behind the patient
- Use right hand to push trachea to the left
- The patient is asked to swallow while the examiner's left hand roll over the thyroid cartilage and feels for the thyroid against the right SCM muscle

Thyroid Examination Subject Steps



Wash your hands



Observe the neck



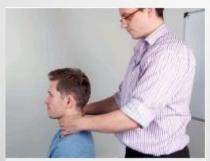
Inspect for tremor in the hands



Feel the pulse



Observe the neck as the patient drinks



Palpate the thyroid gland



Examine the cervical lymph nodes



Auscultate the thyroid

Overview

Part. I

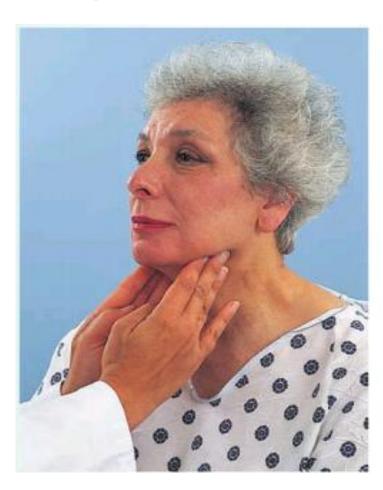
Thyroid examinations

Part. II

Neck lymph nodes examinations

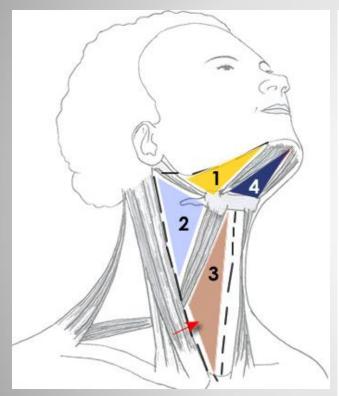
Part. III

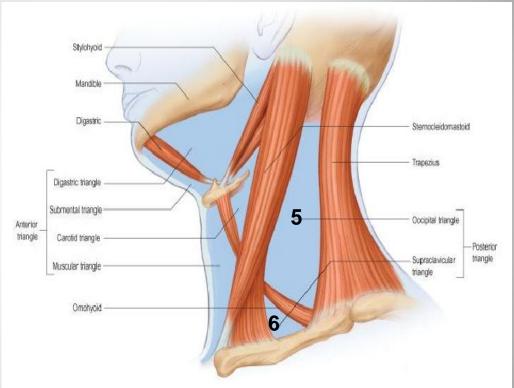
The thyroid examination is <u>not complete without</u> assessment for lymphadenopathy in the supraclavicular and cervical regions of the neck.





Neck Triangles Inspection





Anterior:

1.Submandibular 4. Submental

2.Carotid

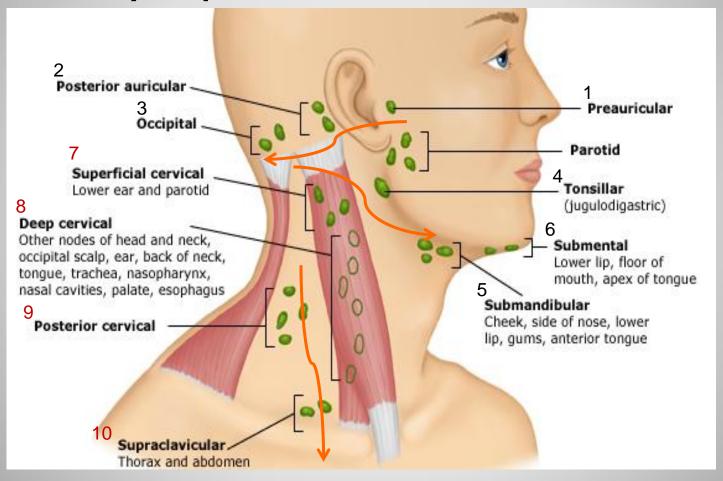
3. Muscular

Posterior:

5.Occipital

6. Supraclavicular

Neck Lymph Nodes



1前2後3枕4扁5下6下 7淺8深9後10上鎖

Neck Lymph Nodes Palpation













- Slightly flexed neck
- Examiner's fingers pad roll the underlying skin in circular motions to feel for the presence of lymph nodes of masses

Overview

Part. I

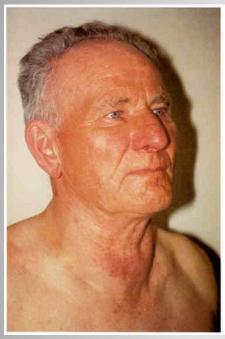
Thyroid examinations

Part. II

Neck lymph nodes examinations

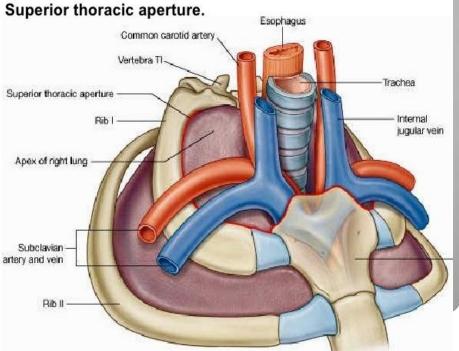
Part. III

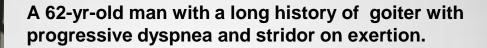
Pemberton's sign

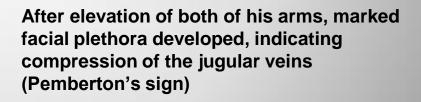




• Pemberton's sign may be found in patients with a large mediastinal mass, usually with large retrosternal goiter.







The End~