RETROPHARYNGEAL ABSCESS





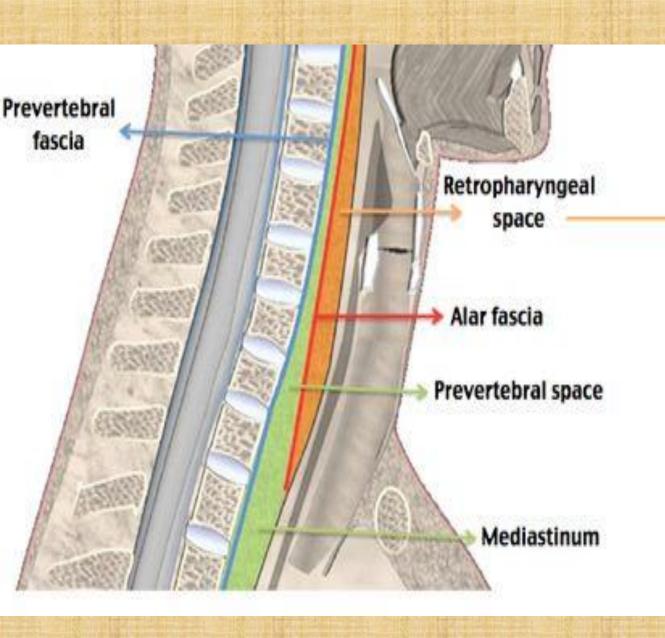


RETROPHARYNGEAL SPACE:

A space lying behind the pharynx between the buccopharyngeal fascia covering the pharyngeal constrictor muscles & the prevertebral fascia, extending from the base of the skull to the bifurcation of trachea.

This <u>space</u> is divided into <u>two lateral compartments</u> called spaces of Gillette by a fibrous raphe. Each lateral space contains <u>retropharyngeal lymph nodes</u> which are again divided into <u>2 groups</u>: <u>lateral</u>- larger, more constant, present in adults & known as node of Rouviere.

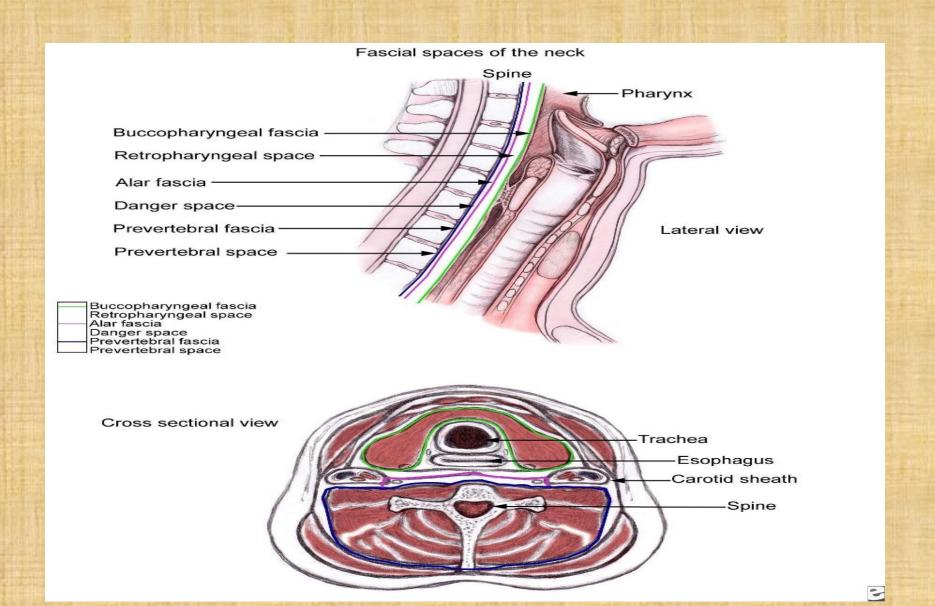
medial- present in children, disappears at 3-4yrs of age & absent in adults.



Retropharyngeal Abscess

Thickened retropharyngeal space

- Mixed flora
- Common after trauma (popsicle stick) or URI
- · Most common in children 3-5 years old
- Fever, sore throat
- Dysphagia, trismus, stridor
- Nuchal rigidity
- Muffled voice



BOUNDARIES:

<u>Anteromedially</u> – Buccopharyngeal fascia & superior constrictor muscle

Posteromedially – transverse process of cervical vertebrae, prevertebral muscles & fascia.

Laterally – upper part, tonsil & parotid gland.

& interv ening deep fascia & ascending ramus of the mandible with medial pterygoid muscle internally.

Inferiorly – communicates with the mediastinum.







CONTENTS:

*Great vessels of the neck

*Ascending palatine & ascending pharyngeal arteries

*Deep cervical lymph nodes

*Last 4 cranial nerves

*Cervical sympathetic chain

DEFINITION: 2 TYPES

ACUTE RETROPHARYNGEAL ABSCESS

An acute infection due to <u>suppuration of retropharyngeal lymph nodes</u> secondary to infection in the adenoids, nasopharynx, postnasal sinuses or nasal cavity.

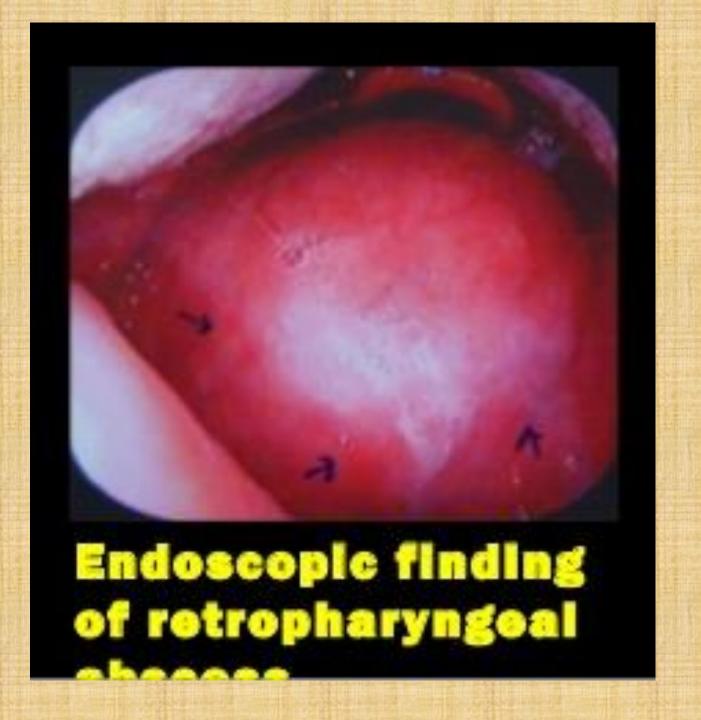
OR

Is an abscess lying in the potential space between buccopharyngeal & prevertebral fasciae.









CAUSES: * Retropharyngeal lymph node suppuration

* Penetrating injury to pharyngeal wall by sharp foreign body

*Infection tracking from an ASOM or Mastoiditis along Eustachian tube or by abscess formation below the petrous bone (rarely)

Neoplasm must be excluded

ORGANISM: Streptococcus Pneumoniae







CLINICAL FEATURES:

- Age <3 yrs. due to atrophy of RP lymph node in childhood.
- Sex > in males.
- Difficulty in breathing & suckling.
- Croupy cough
- Stiffness of the neck (Torticollis)- keeping head extended
- Fever

ON EXAMINATION:

- Whole pharynx congested
- Bulging of the posterior pharyngeal wall on one side of the midline
- Oedema of the larynx







INVESTIGATIONS:

X-Ray soft tissue neck, lateral view shows widening of the prevertebral soft tissue, straightening of the cervical vertebral column & pushing the air column forward.

Sometimes air or fluid in prevertebral area.

CT scan of the neck showing bulging of the

Retropharyngeal space.







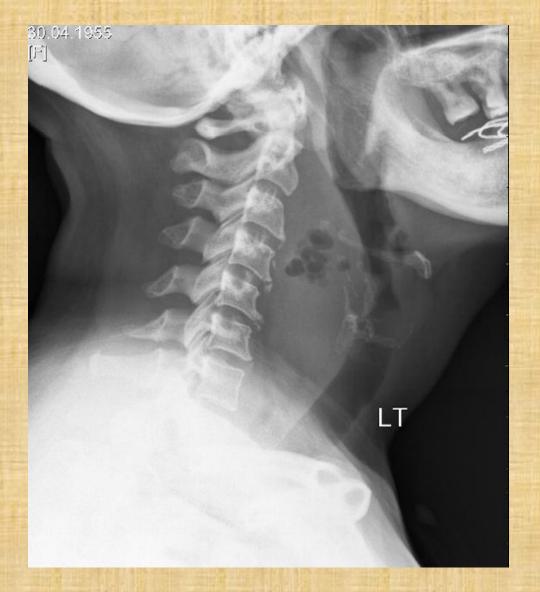




Fig.1: Retropharyngeal abscess on X-ray and CT. The arrow on the left image points at the bulge of the retropharyngeal space.

TREATMENT:

1) Incision & drainage of the abscess <u>without anaesthesia</u> perorally, patient lying supine with head low.

Vertical incision given in the most fluctuant area with the help of mouth-gag. As soon as the incision is given, patient is turned to one side & suction given to prevent aspiration.

Pre-requisites: * Good light source

- * Strong sucker
- * Expert assistant
- 2) Intravenous antibiotic
- 3) Tracheostomy if large abscess or laryngeal oedema







CHRONIC RETROPHARYNGEAL ABSCESS (Tubercular in nature)

CAUSES:

- 1) Caries of cervical spine due to TB (Tuberculosis) usually seen centrally behind the prevertebral fascia
- 2) TB infection of RP lymph nodes <u>secondary to TB</u> of deep cervical nodes usually seen on one side of the posterior pharyngeal wall behind the buccopharyngeal fascia

CLINICAL FEATURES:

- 1) Age Adults & adolescents
- 2) Slow onset
- 3) Mild dysphagia
- 4) Sore throat & cough maybe present
- 5) Muffled voice

ON EXAMINATION:

- 1) Fluctuant swelling on one side in case of retropharyngeal lymph node infection & centrally in case of TB caries of cervical spine
- 2) Enlarged tubercular cervical lymph nodes







INVESTIGATION:

X-Ray soft tissue neck, lateral view showing caries of cervical spine & collapsed vertebrae in the intervertebral discs which are diagnostic.

TREATMENT: 1) <u>Incision & drainage</u> of the abscess with a vertical incision along the anterior border of sternocleidomastoid (if low abscess) & posterior border of the sternocleidomastoid (if high abscess).

- 2) Antitubercular therapy for 12 months.
- 3) Cervical collar for 12 months till spine gets stable.









TYPES OF TRACHEOSTOMY:

support.

<u>Temporary</u>: <u>Emergency</u> – Advanced carcinoma larynx with stridor <u>Elective</u> - Part of a planned procedure, e.g., major head neck surgery.

Ventillated patient for prolonged respiratory

Permanent: Total laryngectomy/ Total laryngopharyngectomy.

Aspiration pneumonia







COMPLICATIONS:

Immediate:

Anaesthetic complications

Haemorrhage-thyroid veins/jugular veins/arteries from

skin surface

Air embolism

Cardiac arrest

Local injury to throid cartilage, cricoid cartilage, RLN







Intermediate:

Displacement of the tube
Surgical emphysema
Pneumonia, pneumothorax
Perichondritis
Tube obstruction by secretion or crusts
Tracheoarterial fistula
Tracheal necrosis

Dysphagia







Late:

Stenosis

Decannulation problems

Tracheocutaneous fistula

Disfiguring scar





