# Foreign Bodies: Aero-digestive Tract

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## Introduction

Common problem
Children, Psychotics, Pts in coma
Asymptomatic or life threatening
Shouldn't be ignored with positive history

# Aetiology

Age: Children, playing while eating

Loss of protective mechanism

- Artificial denture
- Coma
- Epileptic seizure
- Deep sleep
- Alcoholic intoxication

CarelessnessOesophageal diseases

## FB: Upper GI Tract

Sites
Tonsil
Base of Tongue
Vallecula
Oesophagus



## Foreign Bodies

### Tonsil

Sharp FB, fish bone or needle
Lodges in tonsillar crypt
Pt can easily localize FB
Oropharyngeal examination
Remove with forceps

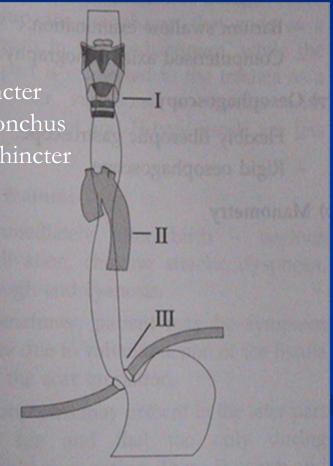


Base of Tongue / Vallecula ■Fish bone or needle Mirror examination ■Don't palpate Remove in the office May require GA in uncooperative pts

Pyriform Fossa
Fish bone , chicken bones, mutton pieces, needle or denture
Diagnosis by history & examination
Removal under LA or GA

## Oesophagus

- Fibromuscular tube 25 cms
- Three constrictions:
  - 15cms: Cricopharyngeal sphincter
     23cms: Aorta & Left main bronchus
     40cms: Lower oesophageal sphincter
     wo sphincters
- Two sphincters
- Oesophageal wall
  - Mucus membrane
  - Submucosa
  - Muscle
  - Fibrous layer



### **Clinical Features**

#### Symptoms

- Choking or gapping
- Discomfort or pain
- Dysphagia
- Drooling of saliva
- Respiratory distress
- Substernal or epigastric pain

#### Signs

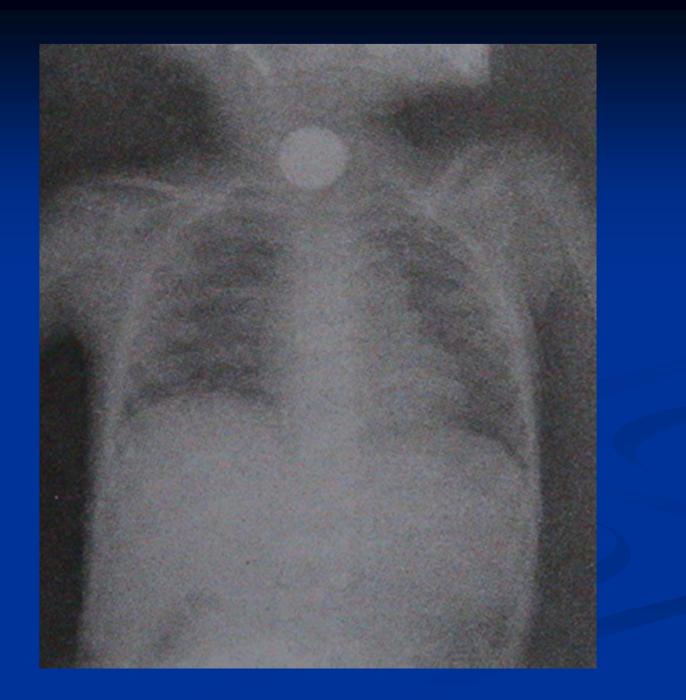
- Tenderness
- Pooling of secretions
- FB in postcricoid area

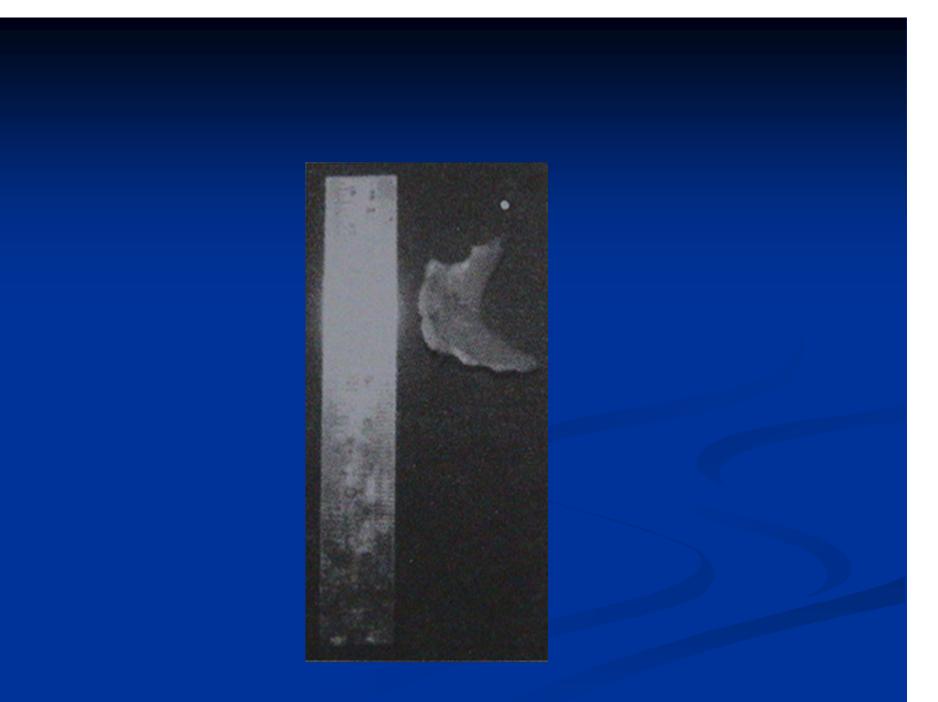
## Investigations

#### Plain X – Ray

Lateral view of soft tissue Neck
Posteroanterior & Lateral view of Chest
Children: Nasopharynx to rectum
Flouroscopy
Contrast studies
MRI







# Management

General work up for PAC fitness
Oesophagoscopic removal
Cervical oesophagotomy
Transthoracic oesophagotomy

# Complications

Respiratory obstruction
Perioesophageal cellulitis
Perforation
Tracheo-oesophageal fistula
Ulceration & fistula



## DIFFICULT FOREIGN BODIES

VEGETATIVE FOREIGN BODIES
DENTURES
OPEN SAFETY PINS
SHARP FOREIGN BODIES
SPHERICAL FOREIGN BODIES
FOREIGN BODIES IN INFANTS

## NEGLECTED FOREIGN BODIES

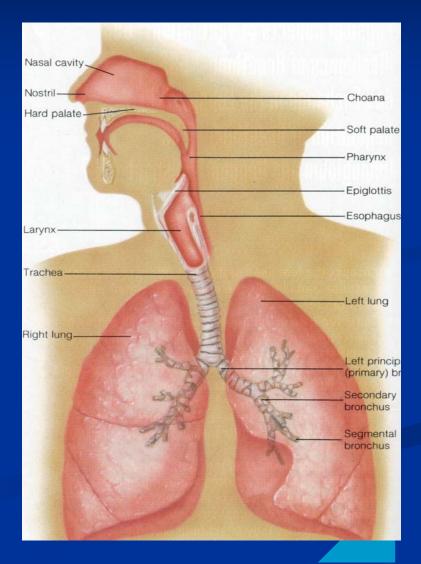
 INITIAL CONSERVATIVE MANAGEMENT WITH IV ANTIBIOTICS & STEROIDS FOR 24 TO 48 HRS

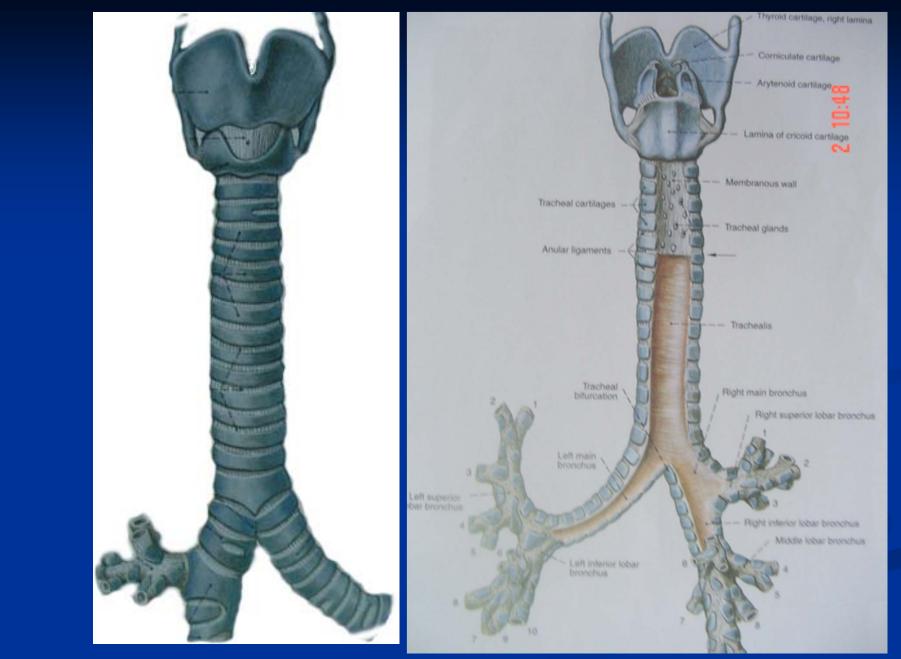
FOLLOWED BY FOREIGN BODY REMOVAL UNDER GA

## Foreign Bodies: Airway

#### Foreign body aspirated can lodge in

- Larynx
- Trachea
- Bronchi
- FB with sharp points can stick any where





## Actiology

■ Children <4 yrs,

Adults in coma, deep sleep, or alcoholic intoxication

Loose teeth or denture

### Type of Foreign body

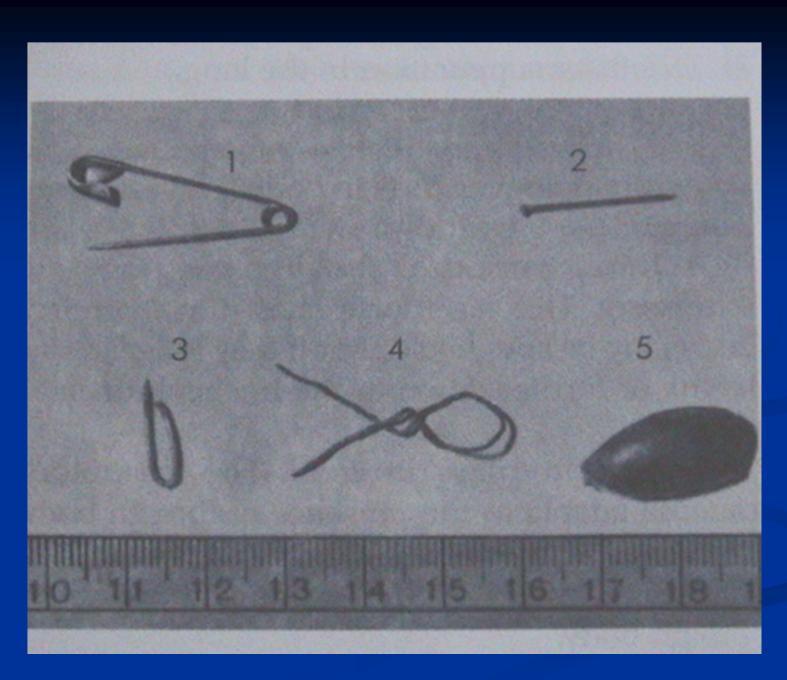
Exogenous

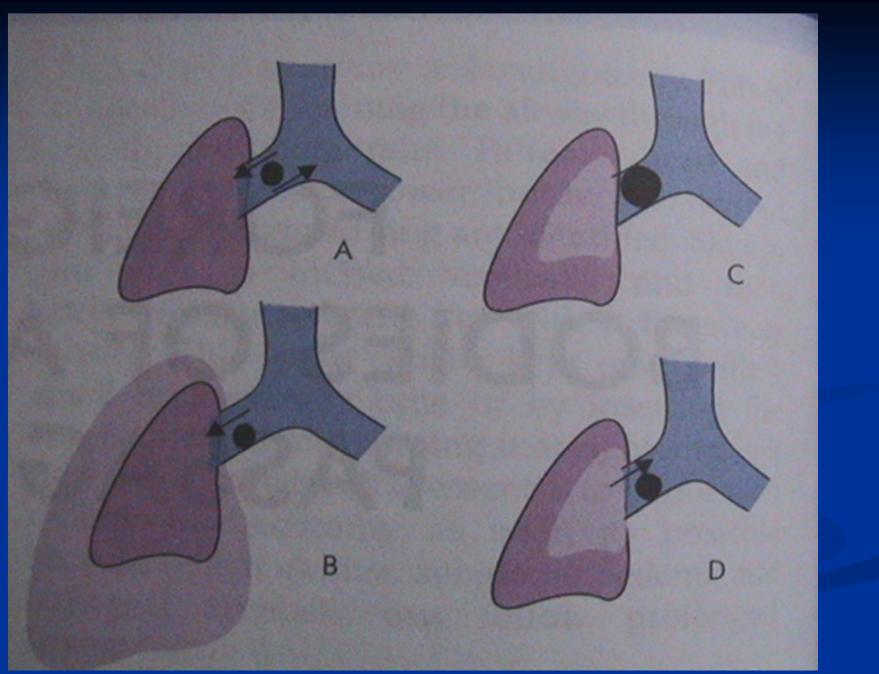
Non-irritating: pin, nails, plastic beads

Irritating: Peanuts, seds, beans, bee al nut etc

Endogenous

Saliva, mucopus, vomitus, bile etc.





### **Clinical features**

H/o FB ingestion with violent cough Choking, gaging & cynosis  $\Box$  U/L or B/L wheezing Chronic cough Dyspnoea: intermittent or continous Symptom free period Pneumonitis or atelectasis Obstructed emphysema

### Investigations

General Investigations:
For GA fitness
Specific investigations:
To localize the foreign body.
Plain X-ray Soft tissue neck
Plain X-ray chest –PA & Lateral view
Bronchogram



### Treatment

Heimlich maneuver
Direct Laryngoscopy
Bronchoscopy

