



Definition: Entry of FB into the airway

Protective mechanisms against FB inhalation:

1-Reflex closure of the larynx

3 tire closure:

- 1-Vocal folds
- 2-Vestibular folds
- 3-Aryepiglottic folds

2-Mechanical factors

1-Epiglottis

- 2-Larynx
- 3-Base of tongue

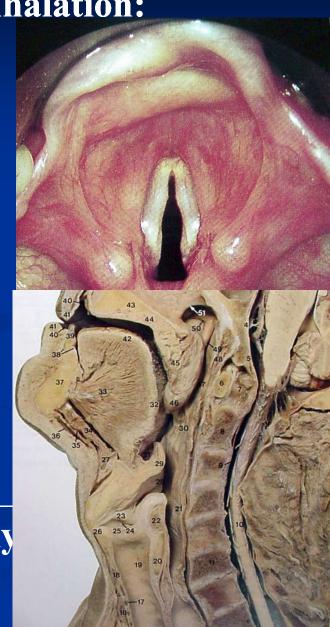
3-Reflex apnoea

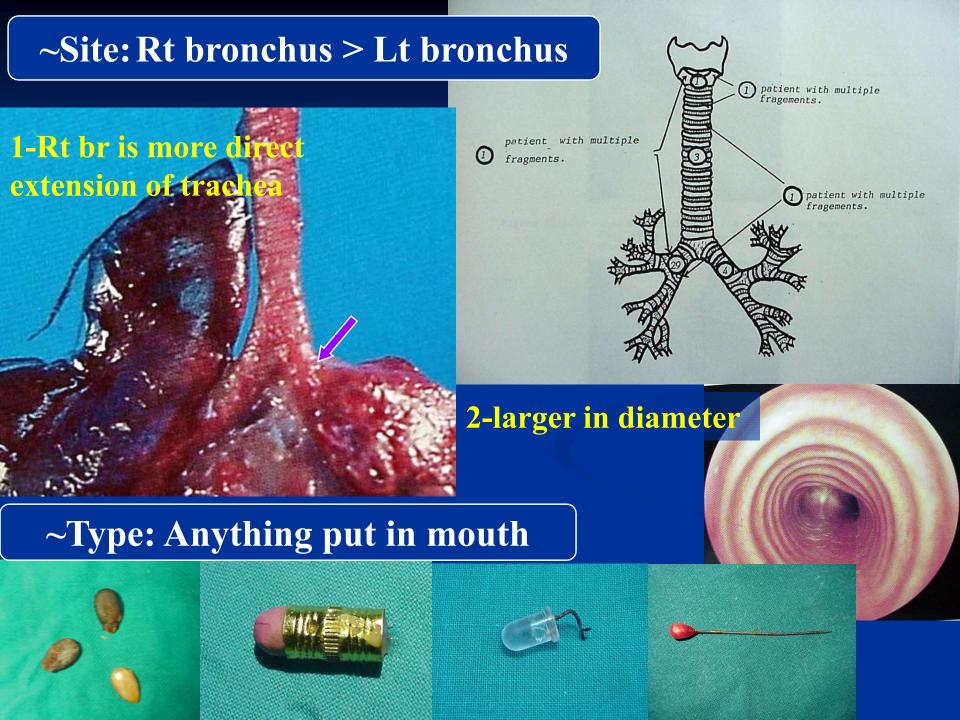
Incidence:4-Reflex cough

~Age:Most commonly

-Sex:







Clinical Picture

1- Early Period

Sudden episode of:

-Severe cough -Choking

-Gagging -Cyanosis

May last for 30 minutes

2- Latent Period

Relatively free of symptoms and diagnosis may be missed

3- Manifest stage

Depends on:

-Size -Type

-Site -Duration of FB

-Size of child

Manifest stage

Laryngeal FB

.Very rare

.Can→ Suffocation and death



Tracheal FB

-Large: may→ .rapid suffocation and death

-Smaller FB→
.biphasic stridor
.audible slap

.generally \(\pi \) air entry

Bypass Valve

← Stop Valve

*One-way Valve

Bronchial FB

Inflam. reaction especially with vegetable FB

Valve effect

Valve effect **Stop Valve Bypass Valve One-way Valve Obstructive Emphysema** Collapse **↓** air entry

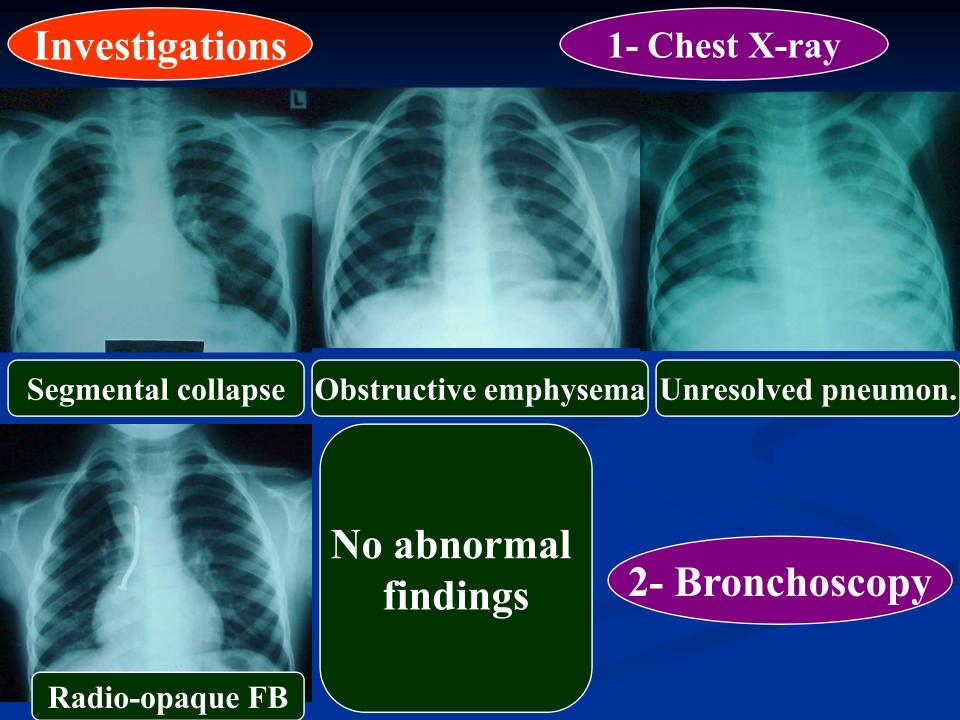
Inflammatory reaction

- Bronchopneumonia
- Pneumonia

Bronchiectasis

Lung abscess





Diagnosis

Diagnosis of FB inhalation may be missed if:

The early episode passed un-witnessed

Latent period with relatively no symptoms

Diagnosis of FB inhalation should be suspected & Bronchoscopy must be done in the following cases:

History of

Sudden episode of severe spasmodic cough, choking, gagging, cyanosis especially during eating, playing especially in children

Clinical finding of

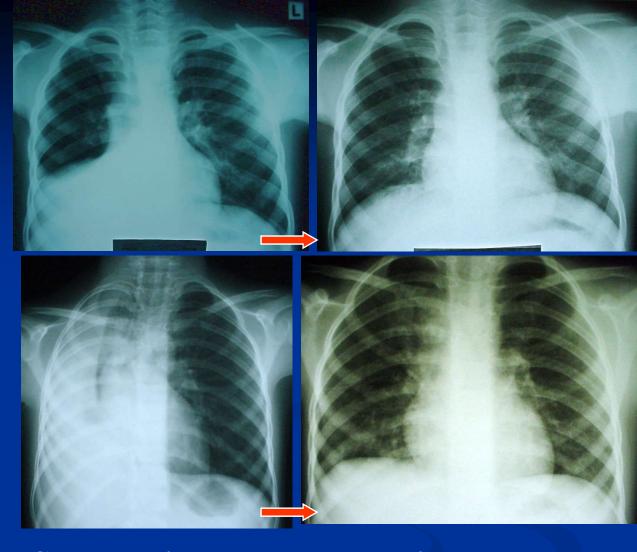
- -Unilateral rhonchi
- -Unilateral | breath sound
- -Obstructive emphysema
- -Persistent atelectasis
- -Unresolved pneumonia
- -Inexplicable wheeze

Treatment

Bronchoscopic Removal







Tracheostomy

Severe airway obstruction
*Bronchoscopy through tracheostomy

Thoracotomy

If FB is impacted

First Aid Measures

- What is meant by 1st aid measures?
 - Measures done to save life, in life-threatening emergencies, where no trained medical personal or no medical equipment is available until definitive medical treatment can be accessed or until the illness or injury is fully dealt with.
- Examples of ENT emergencies need FAM?
 - **■** FB inhalation
 - Airway obstruction by any mean (Cricothyrotomy)
 - Epistaxis

I- FB inhalation:-

- When you suspect FB inhalation?
 - FB airway obstruction should be considered in any victim who <u>suddenly</u>: Stops breathing
 - Becomes cyanotic, or Loses consciousness for no apparent reason.
 - The universal sign for choking is hands clutched to the throat. If the person doesn't give this signal, look for these indications:
 - Inability to talk
 - Difficulty breathing or noisy breathing
 - Inability to cough forcefully
 - Skin, lips and nails turning blue or dusky
 - **■** Loss of consciousness

What are the steps of 1st aid measures in FBI? A- In conscious victim:

- 1- Call for help
- 2- Perform the Heimlich maneuver with the victim standing:
 - Stand behind the victim, wrap your arms around the victim's waist, and proceed as follows:
 - Step 1: Make a fist with one hand.
 - Step 2: Place the thumb side of the fist against the victim's abdomen, in the midline slightly above the navel and well below the tip of the xiphoid process and the lower margins of the rib cage.

■ Step 3: Grasp the fist with the other hand and press the fist into the victim's abdomen with a quick inwards and upwards thrust.

3- Check the obstruction i

4- Attempt rif obstruction

5- Measures



ble FB: if

PR):

ricothyrotomy)

B- In unconscious patie

- 1- Call for help, check breathing
- 2- Blind finger sweeps of the upper air
- 3- Perform Heimlich maneuver with vi
 - Step 1: Place the victim in supine po



- Step 2: Kneel astride the victim's thighs and place the heel of one hand against victim's abdomen, in midline slightly above navel and well below tip of xiphoid.
- Step 3: Place the second hand directly on top of the first.
- Step 4: Press into the abdomen with a quick upward thrust.



"و الطور و كتاب مسطور في رق منشور و البيت المعمور و السقف المرفوع و البحر المسجور" و السقف المرفوع و البحر المسجور"

قال رسول الله صلى الله عليه و سلم:
" لا يركب البحرَ إلا حاجٌ أو معتمر أو غازٍ في سبيل الله فإن تحت البحر ناراً وتحت النار بحراً "

- تسجير قيعان كافة محيطات الأرض و قيعان بعض بحارها حيث تتعدى درجة الحرارة الألف درجة مئوية
 - تكون سلاسل من الجبال البركانية تمتد في أواسط المحيطات
- الصهارة الصخرية في نطاق الضعف الأرضى تحوى كما من الماء يفوق كل ما على سطح الأرض من ماء بعشرات الأضعاف

