

Foreign Bodies in Children









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Panelists - Dr Ravi Bhardwaj (Paed Gastroenterology)

- Dr Ankit Parakh (Paed Pulmonology)
- Dr Neha Sood (ENT)



Foreign Bodies in children

- Mostly in children between 6 months and 3 years of age
- # 98% ingestions accidental
- Common home articles- coins, toys, magnets, batteries and seeds
- Oral ingested FB are far more common than aspirated FB





Dangerous FB's

Which are the high risk foreign bodies?















Presentation of FB ingestion/inhalation

❖ What are the signs and symptoms of FB ingestion/inhalation?









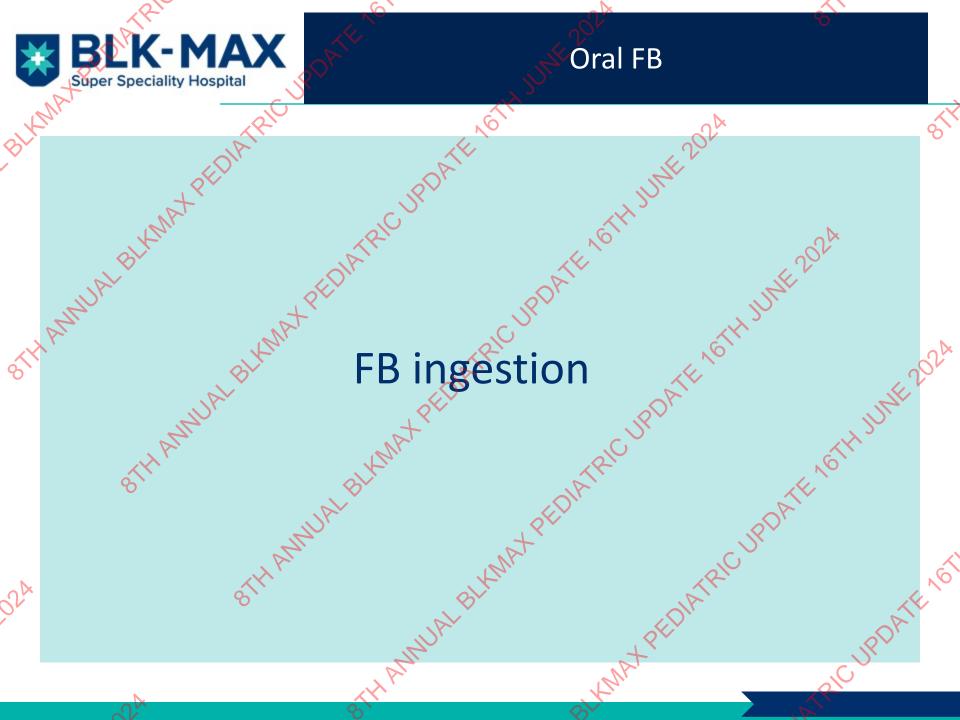






Diagnosis of FB ingestion/inhalation

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- ACTU IIINE TUE PEDIATA
 STHAMUAL BLANAX PEDIATA
- Indications for CT?







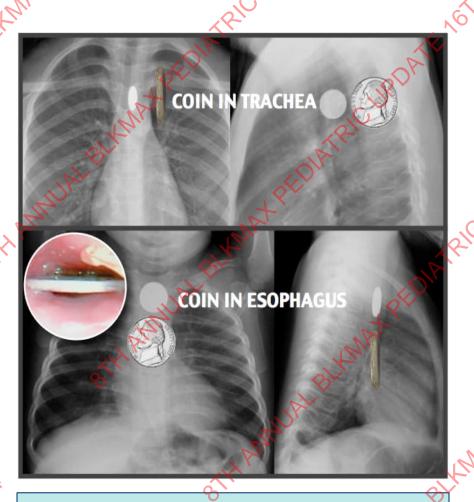
- 8yr boy with accidental coin ingestion
- Stable
- No respiratory distress
- Normal sats



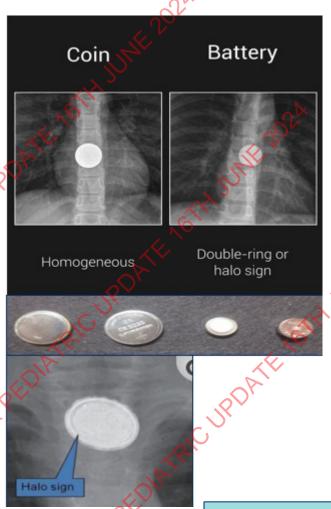
- Repeat xray at our centre
- Type of FB and its management?
- Indication for endoscopic removal ?



Chest Xray



- •Esophageal coins in coronal plane
- •Tracheal coins in sagittal plane



Halo sign of BB



- 4yr old child with c/o of irritability and unexplained drooling
- Playing with toy 4hr back
- Battery missing in toy





- **❖** Why is BB dangerous?
- vviiy is po uangerous?
 Any role of antacids/honey at home?
- **❖** Further management?







- # A 3-year-old boy was brought to ER by his mother
- # He is playful and smiling
- Elder sibling saw him swallow two small pieces from a magnetic building set
- ****** There is no history of choking or distress.
- **Radiography reveals two small rodlike objects in his stomach.**

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- # 4-year-old boy with acute colicky pain abdomen of 2 days duration with vomiting and not passed stools.
- # On Extrebrile with lower abdomen tenderness in rt iliac fossa.
- # USG abdomen- Hyperechoic structure in the central abdomen with free fluid.
- * Xray abdomen done





- Complications associated with magnetic FB?
- Management of magnetic FB?



- Emergency laprotomy done
- Small bowel perforation with enteroenteric fistula
- Child improved with post op care and discharged on 10th post op day

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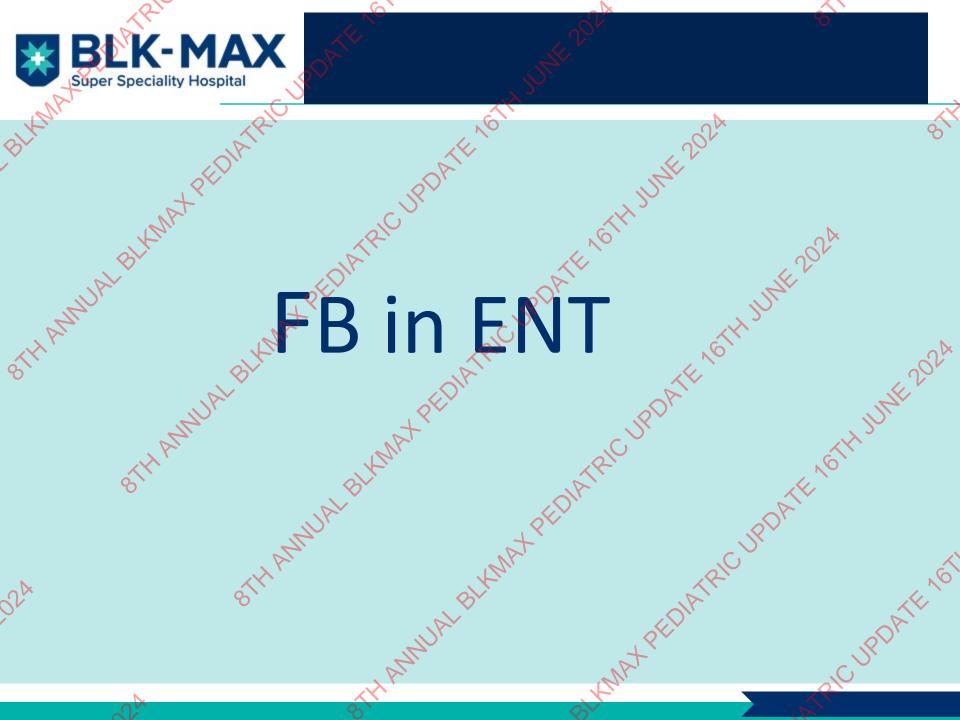
- 5yr old male child with fever, loose stools and abdominal distension for 3 days.
- H/o meat ingestion in dinner 3 days back
- Xray free air in peritoneum
- CT- appendiceal or ileal perforation





- Management of sharp FB?
- Conservative vs surgical
- Exploratory laparotomy done
- A sharp foreign body was found perforating the ileum
- Primary repair was done after removal of the foreign body.

Foreign body-associated intestinal perforation







- **❖** What are the most common foreign bodies in ENT?
- **❖** Which are the high risk FB in ENT?
- **❖** What are the most common symptoms of FB in ENT?











FB removal from ENT

❖ What techniques are used to remove FB from ENT?







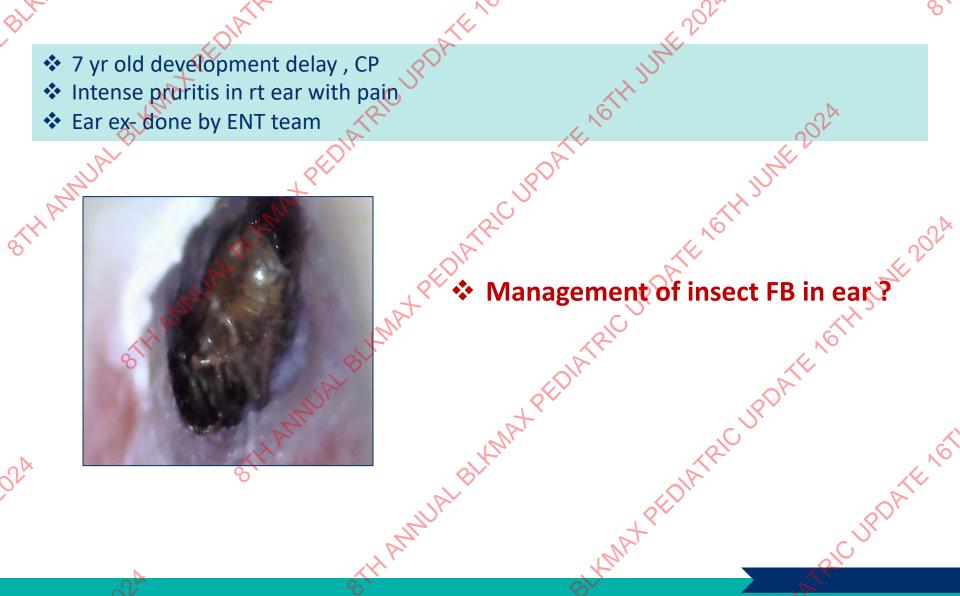








- yr old development delay , CP
 Intense pruritis in rt ear with pain
 Ear ex-done by ENT team



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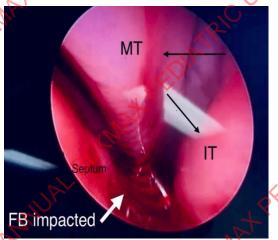




- A 5yr old male child with one day h/o of nasal discharge, foul smell, and pain in the left nostril.
- No FB visible in the nasal cavity
- **❖** Should we still suspect FB
- Role of imaging in diagnosis?













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FB in the airway

FB asphyxiation as the strain of the strain ELAMA A PENATRIC LIBRATE ACTULISMENT OF A



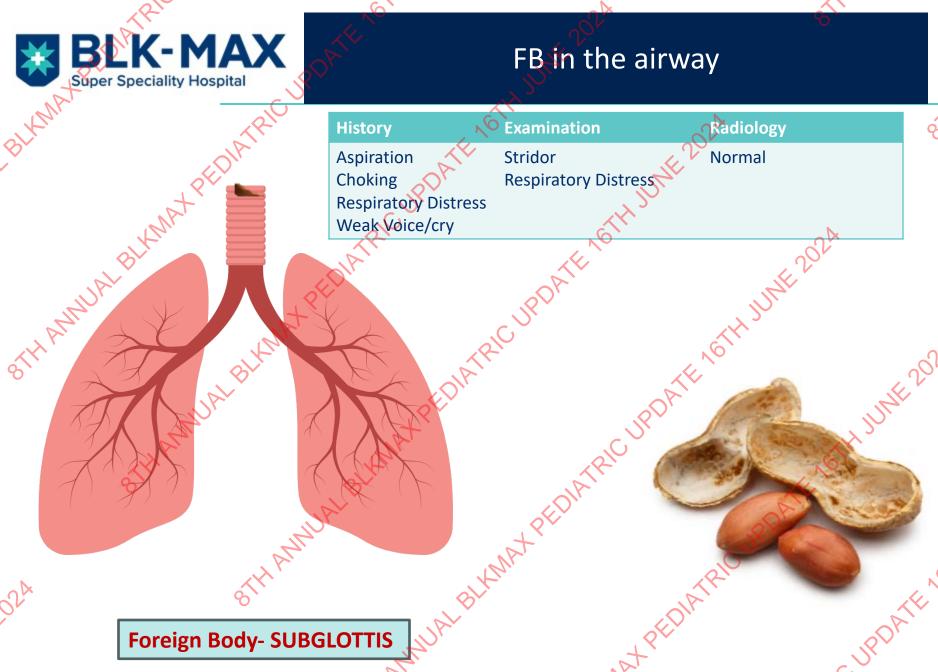
Life-threatening event causing accidental death

- *What are the signs and symptoms of airway FB in children?

 * How do suspect and diagnose airway FB?

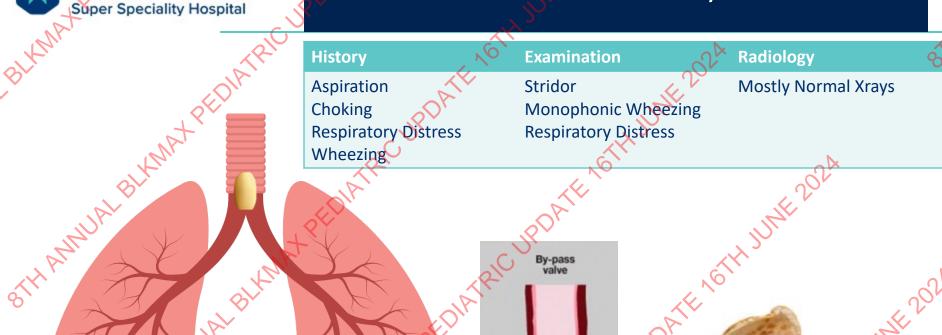






Foreign Body- SUBGLOTTIS



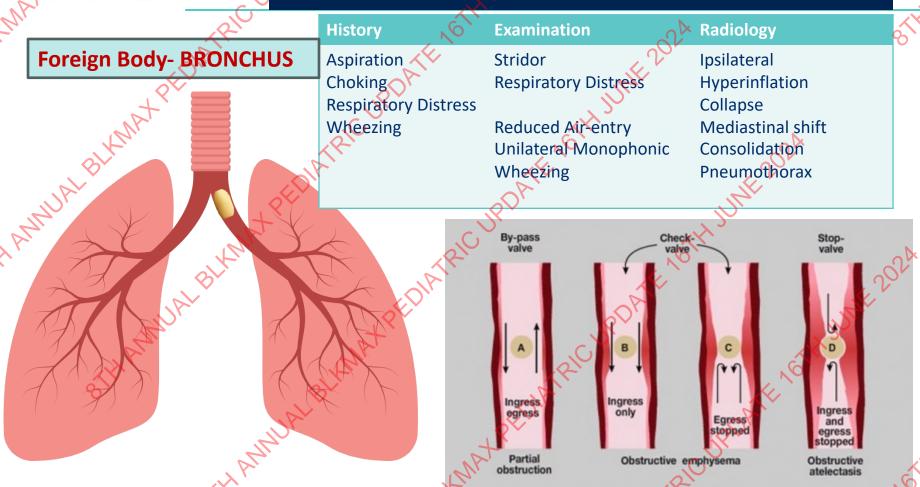


Ingress egress

Partial obstruction

Foreign Body- TRACHEA



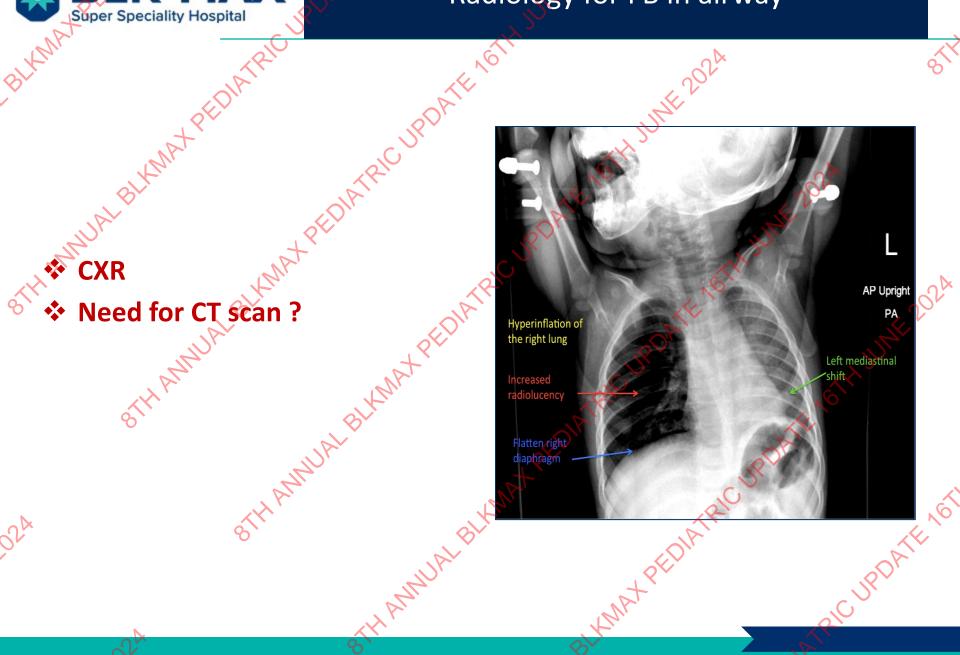


The triad of wheezing, paroxysmal cough and decreased air entry, considered highly suggestive of FB aspiration



Radiology for FB in airway

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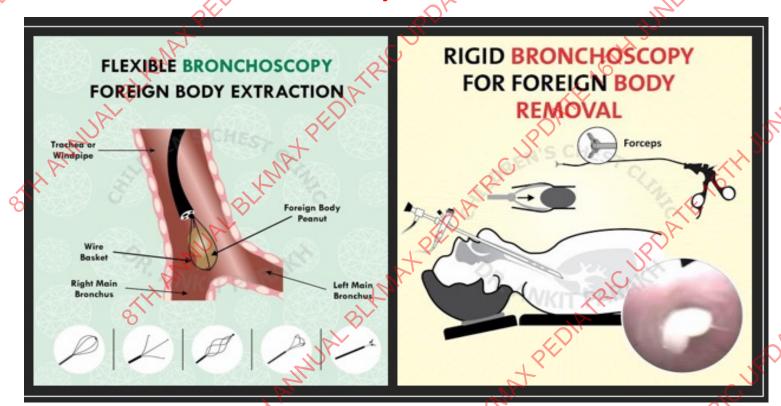




Management

- Secure the airway first if medical emergency
- Do not distress the child
- Plan for bronchoscopic removal

Which modality is better -FB vs RB





- H/o aspiration of Gram seed
- Developed Noisy breathing and RD
- Exam: RR 40/min, suprasternal and subcostal retractions + Bilateral air-entry was reduced







8 y old male

Playing with whistle in the mouth

* Aspirated

Developed RD

CT done in outside hospital



FB removal with Flexible FB





- ❖ 6 y girl
- Tooth Extraction
- Crying
- Aspirated a tooth 8TH ANNUAL

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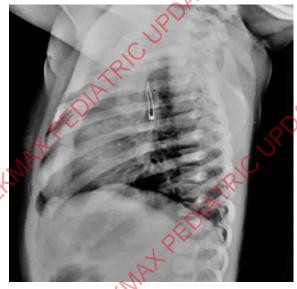


8TH ANN



3yr old with LED light aspiration











Conclusion

- Most FBs in the gastrointestinal tract pass spontaneously without complications, endoscopic or surgical removal may be required in a few children
- # Always suspect foreign body in susceptible children with unexplained respiratory or Gl symptoms
- Delayed diagnosis can worsen the clinical condition and lead to mortality and morbidity
- # Education of parents about high risk FB should be done
- Outcomes and prognosis in pediatric foreign body ingestion are generally good

