

COMMON NEONATAL THORACIC PROBLEMS


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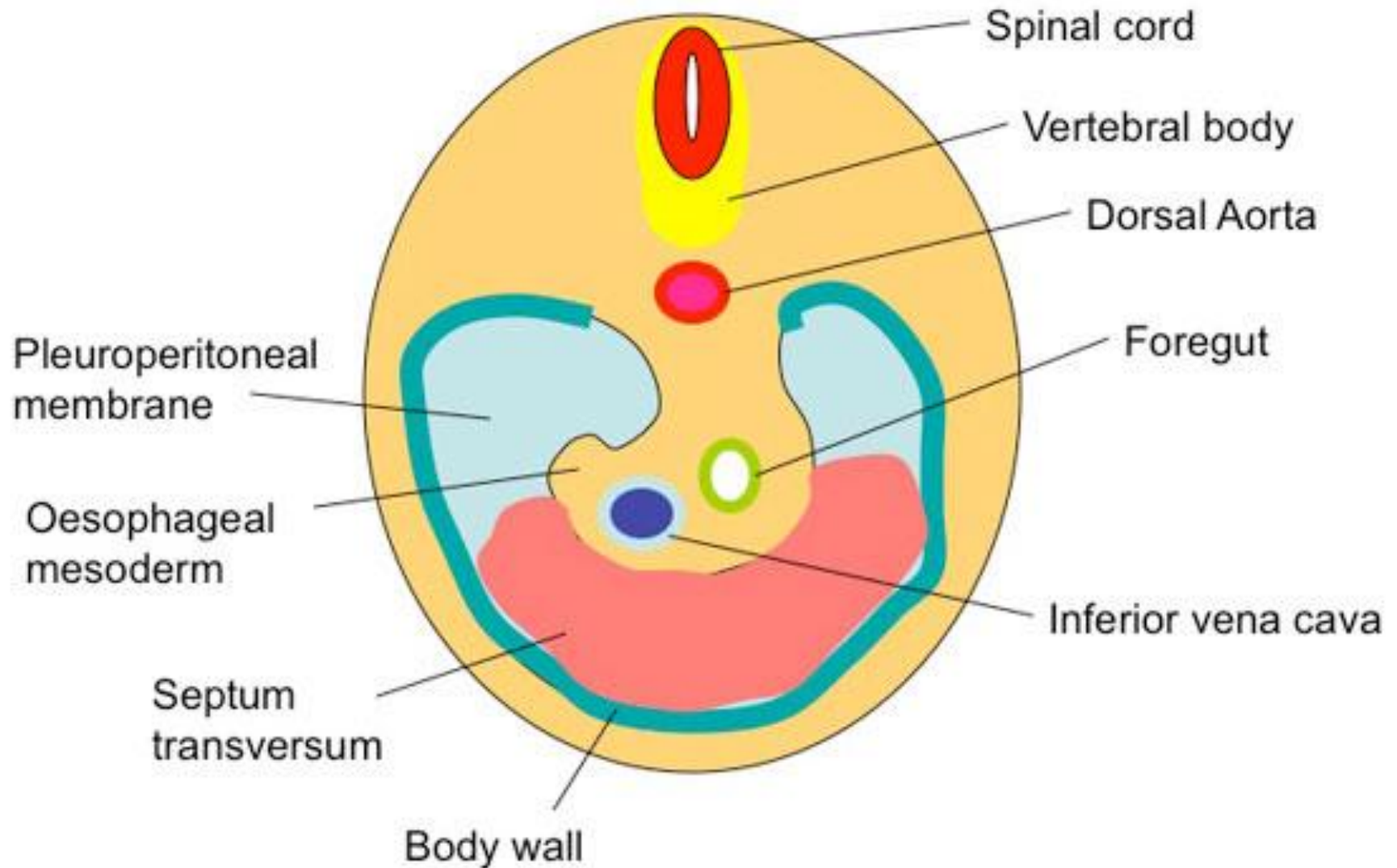
PEDIATRIC SURGEON

Congenital Diaphragmatic Hernia (CDH)

- The incidence of CDH has been reported as high as 1 in 2000 births.
- The posterolateral 'Bochdalek' hernia accounts for 90% of all diaphragmatic hernia cases.
- The remainder are the anterior 'Morgagni' hernia .

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- The majority of posterolateral CDH are left sided (85%), with right sided (13%) and bilateral (2%).

Developing Diaphragm




DIAGNOSIS

- Prenatal Diagnosis:-
- A-Ultrasound of the fetal chest.
- B-Fetal magnetic resonance imaging (MRI).

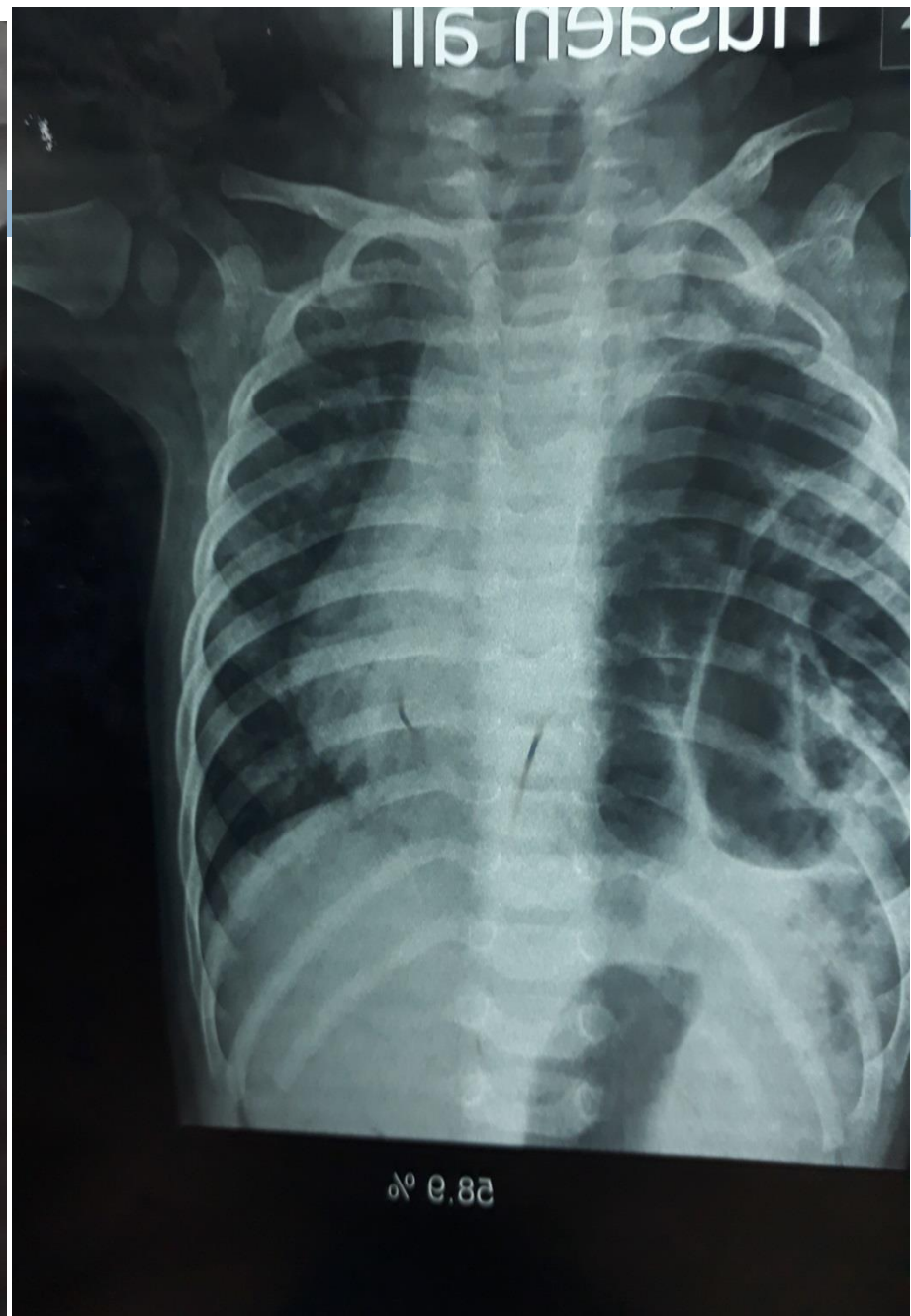
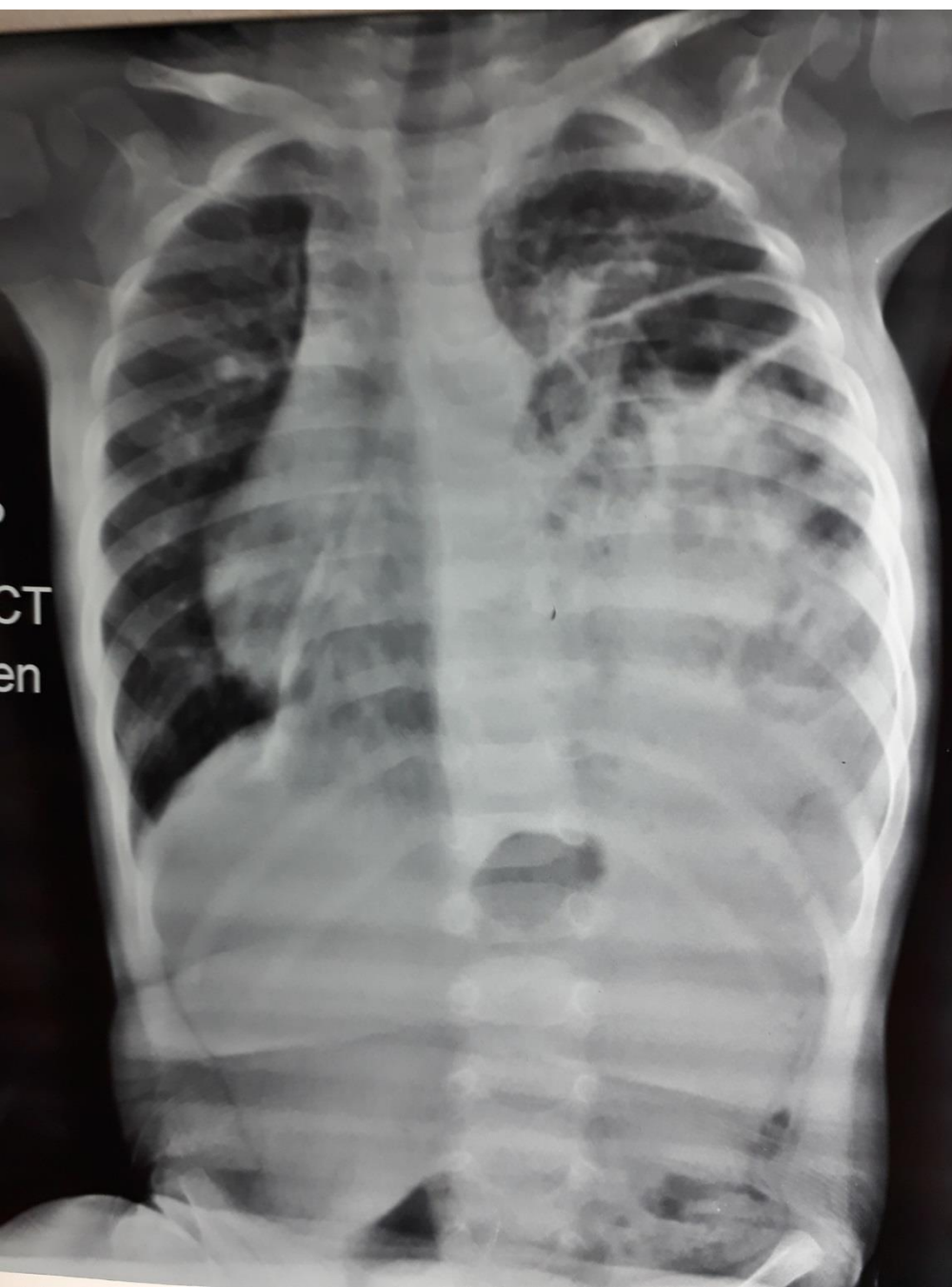
Clinical Presentation

- Newborns with CDH typically present with respiratory distress, with associated low Apgar scores.
- On physical examination, infants will often have a scaphoid abdomen and an increased chest diameter. The point of maximal cardiac impulse is often displaced, suggesting mediastinal shift. Bowel sounds may be auscultated within the chest cavity with a decrease in breath sounds bilaterally.

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- The diagnosis of CDH is typically confirmed by a chest radiograph demonstrating intestinal loops within the thorax .

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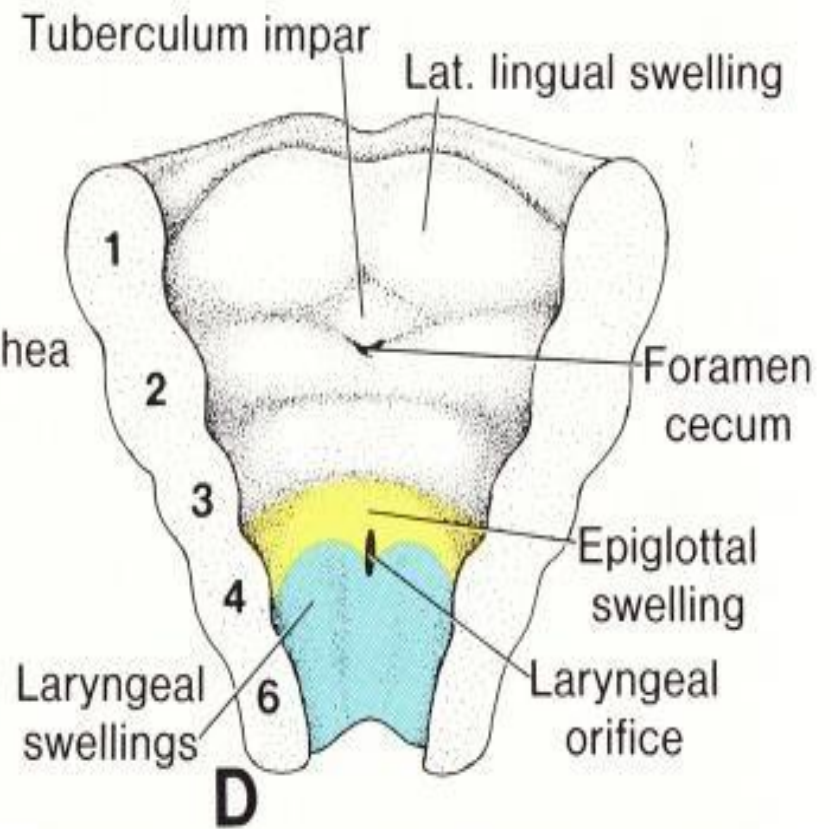
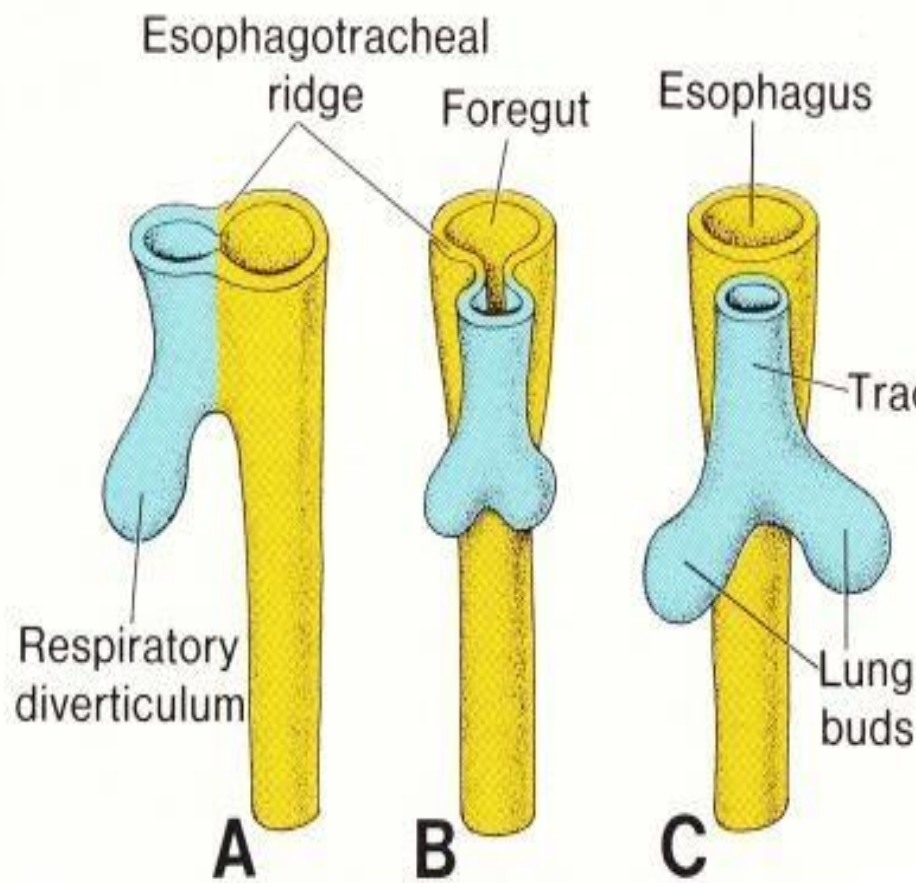
TREATMENT

- Resuscitation and Stabilization.
- SURGERY.

Esophageal atresia (EA) and tracheoesophageal fistula (TEF)

- The birth incidence of EA/TEF varies between 1 in 2500 to 3000 live births .
- Associated malformations (VACTERL).

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- Incomplete fusion of the tracheoesophageal folds results in a defective tracheoesophageal septum.



GROSS CLASSIFICATION

Type A



Type B



Type C



Type D



Type E



Diagnosis

- As EA prevents the passage of saliva down the esophagus, saliva accumulates in the proximal esophagus and mouth.
- X ray of chest and abdomine



The chest radiograph



- A plain radiograph will confirm the tube has not reached the stomach



TREATMENT

- Resuscitation and Stabilization.
- SURGERY.

THANK YOU