

# Ungenital Diaphragmatic Hernia (CDH)

discontinuity of the diaphragm

## Diaphragm

- septum transversum: central tendon
- Esophageal Mesentery: medial Border
- lateral chest wall Ms: lateral Border
- pleuroperitoneal folds: post. Border

(neonate)

- Pulmonary Hypoplasia
- persistant pulmonary HT
  - ↳ R → L shunting (PDA)
  - ↳ Hypoxemia → Acidosis
- cardio resp. Failure
- mortality (fetus/neonate)
- GI / resp manifestations (infants)
- asymptomatic (infants)

dx: - prenatal: US / MRI

- postnatal: - clinical / PE:
  - resp distress
  - scaphoid abdomen (empty)
  - ↓ breath sounds
  - bowel sounds in thorax
- X-ray 

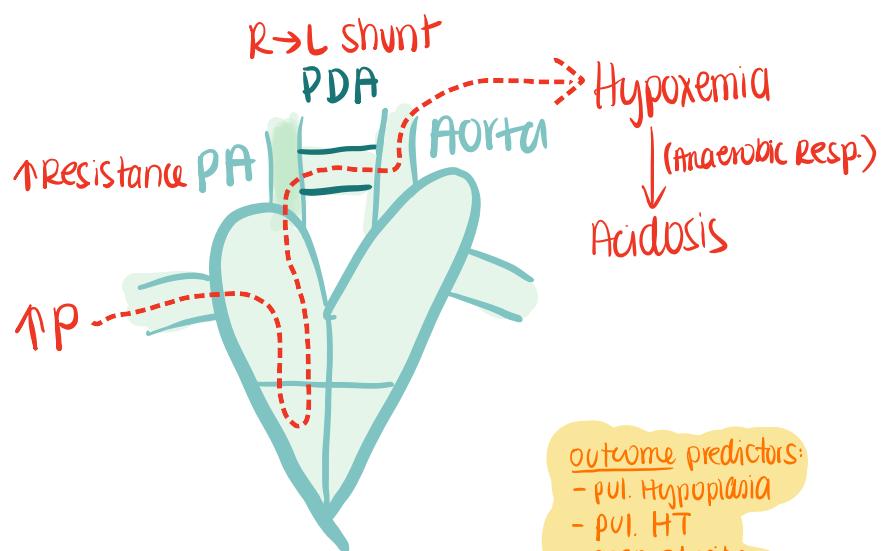
- Infant: - Resp/GI symptoms
- X-ray

⇒ ↓ Survival Rate:

- other malformations
- R.sided effects
  - ↳ Liver herniation
- < 30% lung vol
- ↓ Lung Area: Head Circumference

## TYPES Left>

- Postero-lateral (Bochdalek) mc
- Ant. (Morgagni-Larrey)
- Central
- Diaphragm Agenesis
- Diaphragm Eversion (intact attachments but lax ms/vs.)



outcome predictors:

- pul. Hypoplasia
- pul. HT
- prematurity
- other anomalies

- mTx:
- screen other malformations
  - Fetal echo
  - genetic studies
  - In utero fetal therapy
  - Fam counseling
  - Delivery planning

- postnatal
- ↓ lung compression
  - ventilation
  - cardiovascular support
  - correct pH
  - correct pulm HT
  - when stable: sx → open thoracostomy
  - ↳ XEMERGENT

# Esophageal Atresia (EA)

4th - 7th gestation wk : foregut

failure

dorsal: Esophageal  
ventral: Resp.

Tracheoesophageal septum

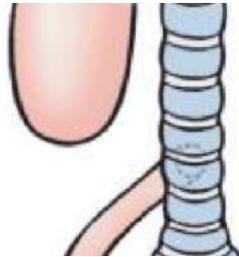
- polyhydramnios

→ Atresia: x gastric bubble

→ Fistula: ↑ gastric bubble

- ↑ salivation

- NG tube x pass



EA w/ TEF (mc)

dx: X-ray

tx: - suctioning

xEMERGENT ↓ - Sx depend on gap b/w esophageal ends

→ < 2 vertebrae long anastomosis

→ 2-6 vertebrae gastrostomy + delayed anostomosis

→ > 6 vertebrae gastrostomy + esophagostomy + esophageal replacement later  
(use other conduits)

Associated: Screen!

Vertebral

Anorectal

Cardiac

Tracheo

Esophageal

Renal

Limb abnormalities

surgery  
complications:

↳ stenosis

↳ leak

↳ retraction

↳ tracheomalacia

↳ GERD