



Refer EARLY to KIDS NTS for advice - 0300 200 1100

Incidence: 1 in 3500 live births; more than half will have additional malformations including VACTERL associations.

History: Antenatal US scans can show Polyhydramnios and/or absent stomach bubble, and/or associated congenital anomalies.

Clinical Features: > Prematurity (secondary to Polyhydramnios); excessive production of frothy saliva; episodes of choking and cyanosis exacerbated by attempts to feed; failure to pass NGT (unable to pass 9-11cm at the gums in term infants).

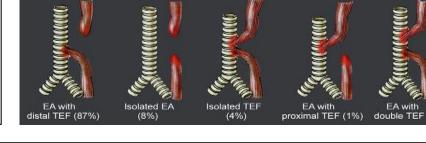
- > Choking and abdominal distension predominate in infants with an isolated trachea-oesophageal fistula.
- > Respiratory compromise with TOF/OA = SURGICAL EMERGENCY.
- > Morbidity and Mortality is increased in VLBW babies and those with associated cardiac defects.

Key Questions:

1) Referral Unit Level?

- 2) Antenatal Diagnosis (Yes/No?)
- 3) Preterm or Term?
- 4) Respiratory Distress Intubated?

5) CXR/AXR findings?



Key Features: X-ray the whole abdomen with NGT/Replogle in situ

- **NGT is seen coiling or tenting in the upper oesophageal pouch?**; presence of air in the abdomen indicates a distal fistula; a gasless abdomen indicates a pure Oesophageal Atresia; Proximal fistula and H-types are more difficult to diagnose.

Ventilated TOF/OA is a time critical transfer and requires immediate dispatch.

Discuss early with KIDS NTS and seek surgical advice.

Non Ventilated TOF/OA:

> Nurse 30 degrees head turned to facilitate drainage of secretions.

> Insert Replogle tube 10 Fr (9-11cm in a term infant)

> Keep Oropharynx clear of secretions to prevent aspiration.

> Attach Replogle to low flow suction 5-10 kPa and Flush with 0.9% sodium chloride every 15 minutes to ensure patency.

 > Avoid mask ventilation and non-invasive ventilation if possible - monitor for abdominal distension and signs of respiratory compromise
- 02 sats, RR, work of breathing, blood gas.

> If considering intubation and ventilation please discuss with KIDS NTS early.

Ventilated TOF/OA:

> Preterm/RDS complicates management due to low resistance preferential flow of air through the fistula – poor respiratory gases/abdominal distension.

> Emergency Ligation of Fistula is indicated.

> Position ETT just above Carina (past the fistula) and ventilate with low pressure strategies.

- > Consider HFOV as a strategy.
- > Obtain a CrUSS and a Cardiac ECHO if possible do not delay departure.
- > Send Chromosomes and perform a NIPE to assess for other anomalies (Clefts/Anorectal malformations/Cardiac murmurs).

> Evidence of Syndromic Children with trisomy 13 or 18 should be discussed with Consultants.