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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).

> Respiratory compromise with TOF/OA = SURGICAL EMERGENCY.

> Morbidity and Mortality is increased in VLBW babies and those with associated cardiac defects.

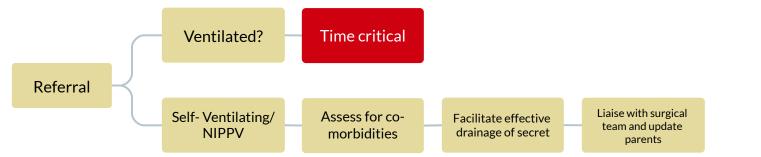
Radiographical features: >NGT is seen coiling or tenting in the upper oesophageal pouch?The presence of air in the abdomen indicates a distal fistula; a gasless abdomen indicates a pure oesophageal atresia

Associations:

> Intestinal atresia and anorectal malformation

> VACTERL/CHARGE syndrome





Key Questions: 1) Referral Unit Level? 2) Antenatal Diagnosis? 3) Gestation/weight? 4) Respiratory status 5) CXR findings?

Ventilated TOF/OA is a time critical transfer and requires immediate dispatch. Discuss early with KIDS NTS and seek surgical advice.

Non invasive ventilation/Self ventilating patient	Invasively ventilated patient
 > 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 <u>5-10 kPa</u> 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. > Keep baby calm- avoid excessive crying which can exacerbate abdominal distension > IV fluids due to NBM- ideally 2 x cannula for transport 	 > 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. > Insert Reploge (manage as per Non invasive ventilation box) > 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.
	Author - BG. Oct 2024. Review Oct'2