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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.

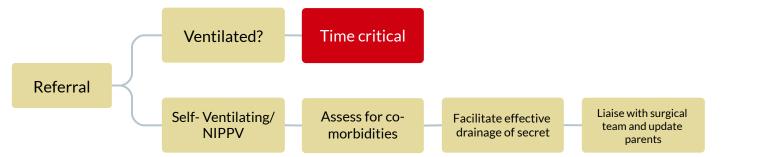
**Radiographical features:** >NGT is seen coiling or tenting in the upper oesophageal pouch?The presence of air in the abdomen indicates a distal fistula; a gasless abdomen indicates a pure oesophageal atresia

## 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
<ul> <li>&gt; Nurse 30 degrees head turned to facilitate drainage of secretions.</li> <li>&gt; Insert Replogle tube 10 Fr (9-11cm in a term infant)</li> <li>&gt; Keep oropharynx clear of secretions to prevent aspiration.</li> <li>&gt; Attach Replogle to low flow suction <u>5-10 kPa</u> and flush with 0.9% sodium chloride every 15 minutes to ensure patency.</li> <li>&gt; 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.</li> <li>&gt; Keep baby calm- avoid excessive crying which can exacerbate abdominal distension</li> <li>&gt; IV fluids due to NBM- ideally 2 x cannula for transport</li> </ul>	<ul> <li>&gt; Preterm/RDS complicates management due to low resistance preferential flow of air through the fistula-poor respiratory gases/abdominal distension.</li> <li>&gt; Emergency Ligation of Fistula is indicated.</li> <li>&gt; Position ETT just above carina (past the fistula) and ventilate with low pressure strategies.</li> <li>&gt; Insert Reploge (manage as per Non invasive ventilation box)</li> <li>&gt; Obtain a CrUSS and a cardiac ECHO if possible - do not delay departure.</li> <li>&gt; Send chromosomes and perform a NIPE to assess for other anomalies (clefts/anorectal malformations/cardiac murmurs).</li> <li>&gt; Evidence of syndromic children with trisomy 13 or 18 should be discussed with consultants.</li> </ul>
	Author - BG. Oct 2024. Review Oct'2