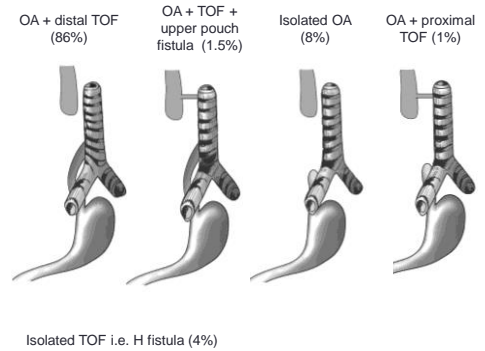
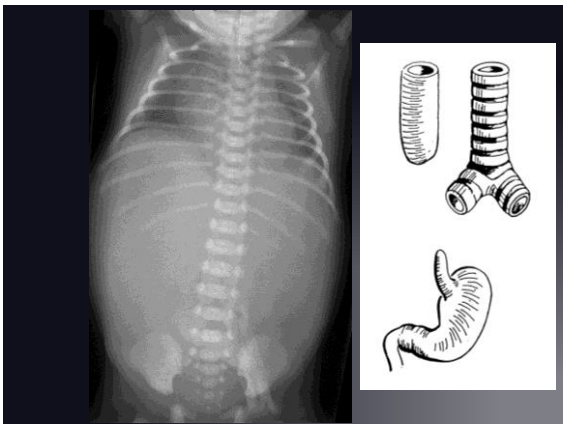
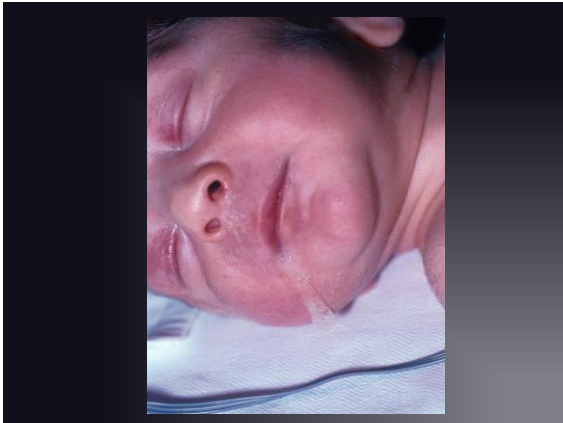
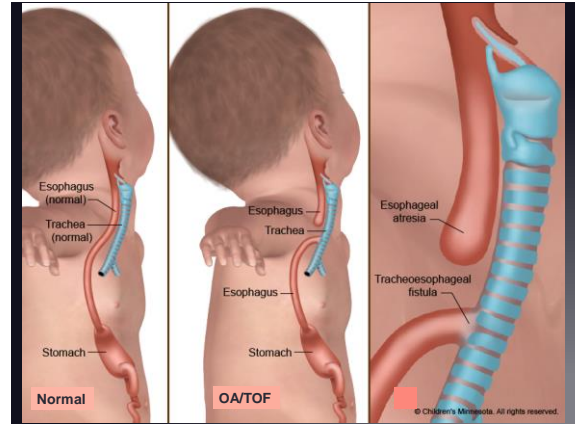
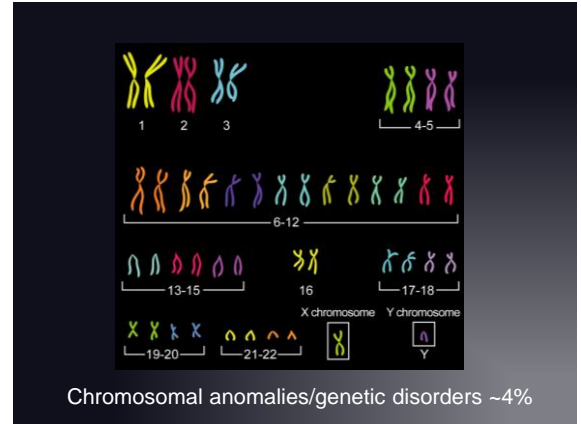
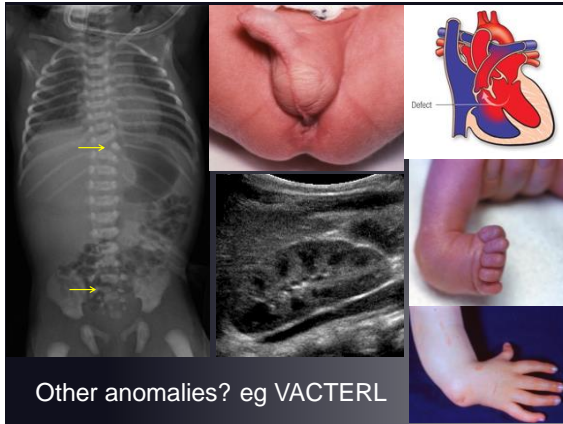


Oesophageal atresia



Taghavi & Springer 2017



Incidence: 1:3-4000 live births so ~18/yr in NZ

Aetiology: sporadic (MZ twins 2.5% concordance), recurrence 1%

Other anomalies >50% e.g. VACTERL, cong heart disease

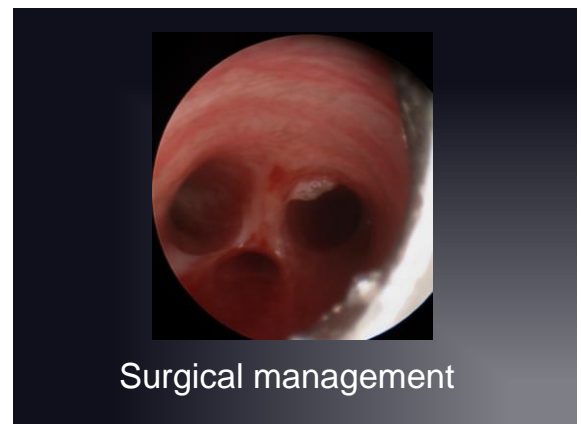
Antenatal clues: polyhydramnios & absent/small stomach

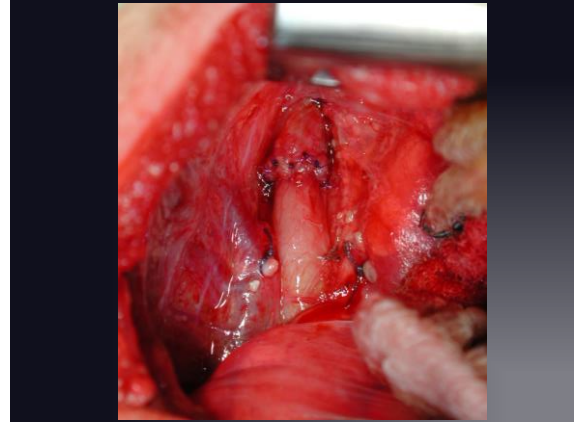
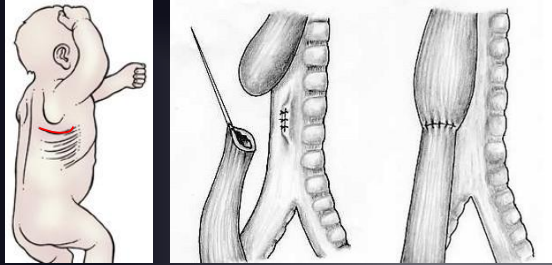
Postnatal: mucousy baby who chokes/ coughs when fed

Diagnosis: pass a 10Fg gastric tube and take CXR + AXR



- Nurse head up ± semi prone to keep upper pouch empty
- Transfer to NN surgical unit promptly (urgently if respiratory distress or needing ventilation)
- Invs: echo, X-rays, renal US etc
- Non urgent 1° repair if stable





Uneventful recovery in many – extubation, temporary tube feeding and then oral feeding

Survival (Spitz classification)

Birth wt. >1500g <u>and</u> no major cardiac anomaly	98%
Birth wt. <1500g <u>or</u> major cardiac anomaly	82%
Birth wt. <1500g <u>plus</u> major cardiac anomaly	50%

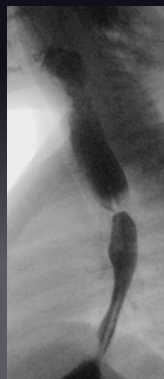
.....and improving



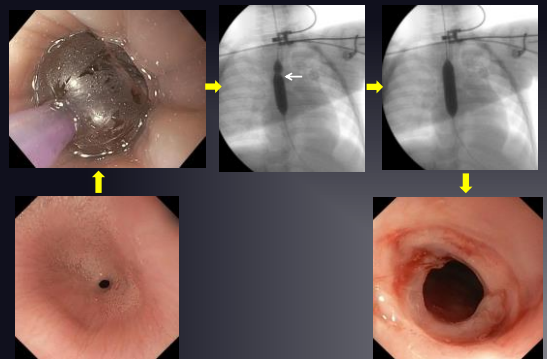
Anastomotic leak – clinical/radiological

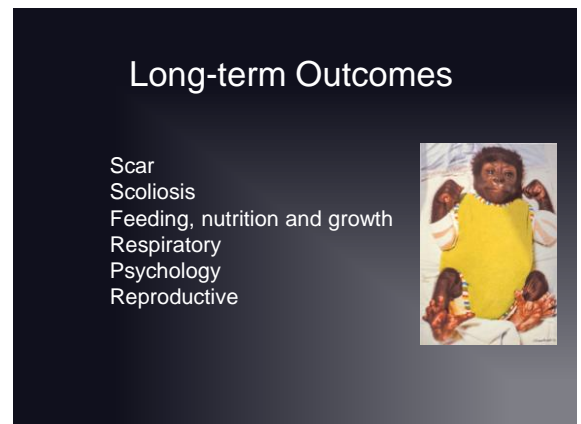
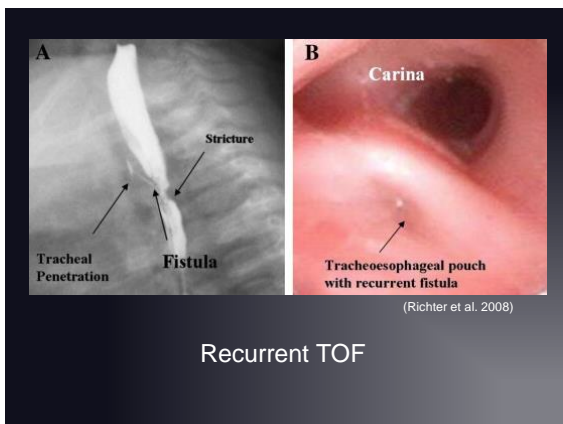
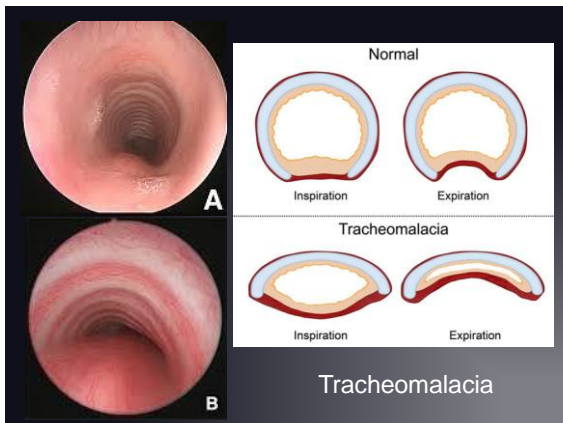
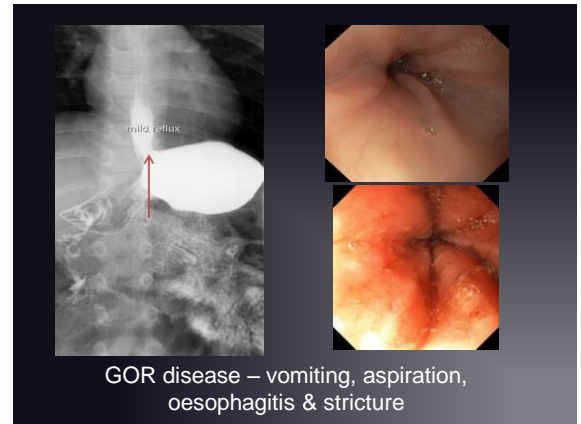
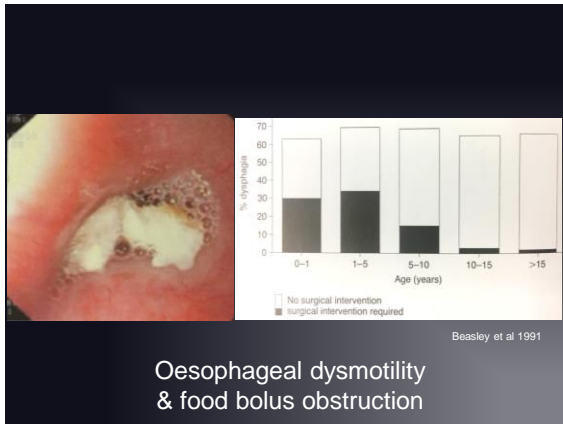


Anastomotic stricture

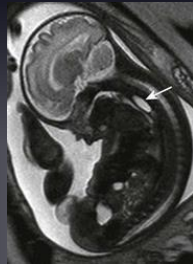


Stricture dilatation





Prenatal diagnosis



a small or absent stomach bubble + polyhydramnios on antenatal fetal anomaly ultrasound scan at around 19-20 weeks' gestation

When it's not straightforward or goes wrong 1. premie with RDS



Inefficient ventilation
Risk of gastric perforation

Rx low pressure IPPV
Position ETT low (beyond fistula)
Urgent occlusion/ligation of fistula and delayed repair

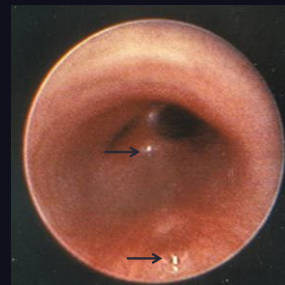
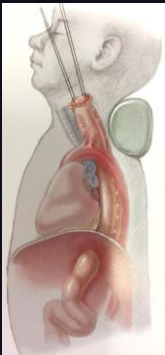
2. long gap and pure OA



- gastrostomy, Replogle and delayed primary repair (6-12wks)

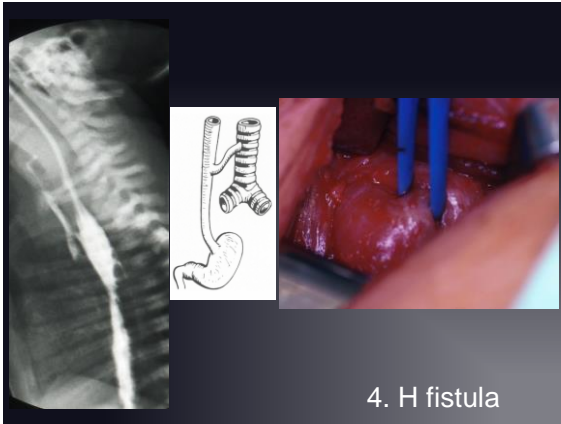


Oesophageal replacement



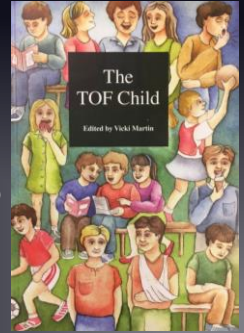
3. Double fistula



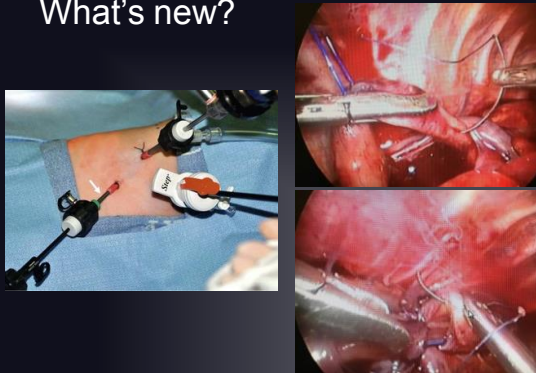


Support organisations

- UK (TOFS)
- Germany (KEKS)
- Australia (T-O Fistula /VATER Network)
- USA (EA/Family Support Connection Inc)



What's new?



Key messages

- Consider OA in any newborn with maternal polyhydramnios
- If OA suspected try and pass a 10FG gastric tube and take an X-ray if it won't enter stomach
- OA/TOF + respiratory distress = urgent transfer
- Complications after OA repair (leak, stricture, GOR, dysmotility) are manageable
- With appropriate nurture, outcomes are generally good but more guarded if major CHD