Exclusion of oesophageal atresia by passage of a nasogastric tube: an exception to the rule

Ramnik V Patel,1 Paul B Jackson,2 Paolo De Coppi,2 Agostino Pierro2

DESCRIPTION
A term baby girl had an absent anus at birth. A nasogastric tube (NGT) was passed and bile aspirated. A babygram confirmed it in the stomach with a double bubble appearance and a contrast study through the NGT showed an obstruction consistent with midgut malrotation and/or duodenal atresia (figure 1). Laparotomy, colostomy, Ladd’s procedure and duodenoduodenostomy were performed. At the end of the procedure the NGT was dislodged and could not be replaced. A bronchoscopy and an oesophagoscopy confirmed an oesophageal atresia (OA) and distal tracheo-oesophageal fistula (TOF). Surgical repair of the OA/TOF was performed. It is accepted that the diagnosis of OA is confirmed by passing a firm NGT through the mouth into the oesophagus to the point at which resistance is met.1 Our case is a living testimony of an exception to this established rule. Even in the present era of prenatal diagnosis, the sensitivity and specificity of OA being diagnosed is very low. Multiple atresias of the gut or VACTREL association require one to rule out TOF/OA. Moreover, in the alimentary tract a proximal obstruction is dealt with first and correction proceeds distally. The plausible explanation for the mechanism how the NGT could reach the stomach even in the presence of complete obstruction in the proximal oesophagus includes the passage of the NGT straight into the trachea followed by passage into the fistula and the stomach or it can pass through the proximal pouch fistula into the trachea and through the distal fistula back into the lower oesophagus and stomach.2–3

Learning points
▸ The cardinal rule: the pathognomonic feature of an oesophageal atresia is the inability to pass a nasogastric tube (NGT) into the stomach.
▸ The passage of an NGT does not always exclude the presence of an oesophageal atresia. There are some exceptions to the rule and these can delay its detection.
▸ In a case of anorectal malformation with duodenal atresia, a high index of suspicion for oesophageal atresia should be kept in mind and when interpreting the X-rays, the widest possible differential diagnosis should always be entertained—what we do not look for we would not see.
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