

FACULITY OF NURSING

TRACHEO-OESOPHAGEAL FISTULA (TEF) Nandni Shivhare Nursing Tutor

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INTRODUCTION

TEF and oesophageal Artesia are the malformation of digestive system, in which oesophagus does not develop properly.

Oesophagus is a tube that normally carries food from mouth to stomach.

DEFINITION

Oesophageal Artesia- it is the failure of oesophagus to a form a continuous passage from the pharynx to stomach.

TEF- it is an abnormal connection between the trachea and oesophagus.

ETIOLOGY

Unknown

TEF have other anomalies also that are represented by acronym "VACTERL".

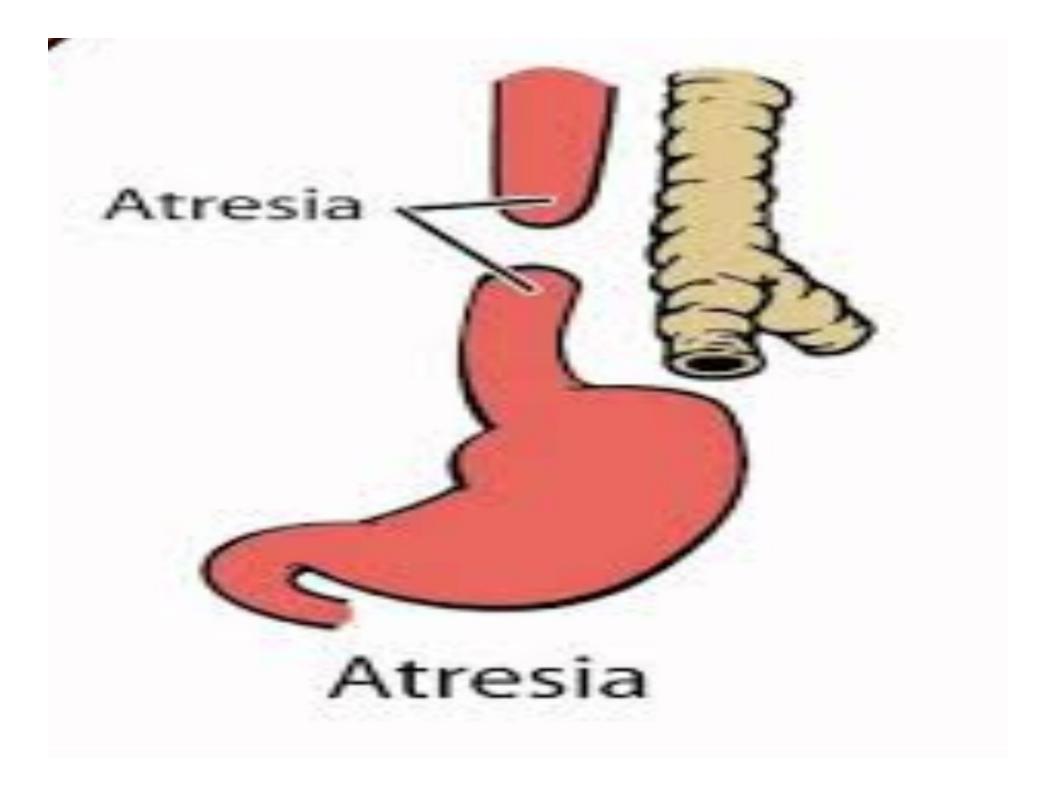
V- vertebral column defect

- A- anorectal malformation
- C- cardiac defect
- **TE-TEF**
- **R** renal anomalies
- L- limb anomalies





- There is a esophageal Artesia and proximal and distal segment of oesophagus are blind.
- There is a no communication between trachea and oesophagus.



(B) <u>Type 2-</u>

In this type oesophageal Artesia is present and the blind proximal segment of oesophagus connect with trachea by fistula

Fistula

Atresia -

(C<u>) Type 3-</u>

In this type oesophageal Artesia is present, the proximal end of oesophagus is a blind pouch and distal segment of oesophagus is connected by fistula to trachea

Atresia -

Fistula

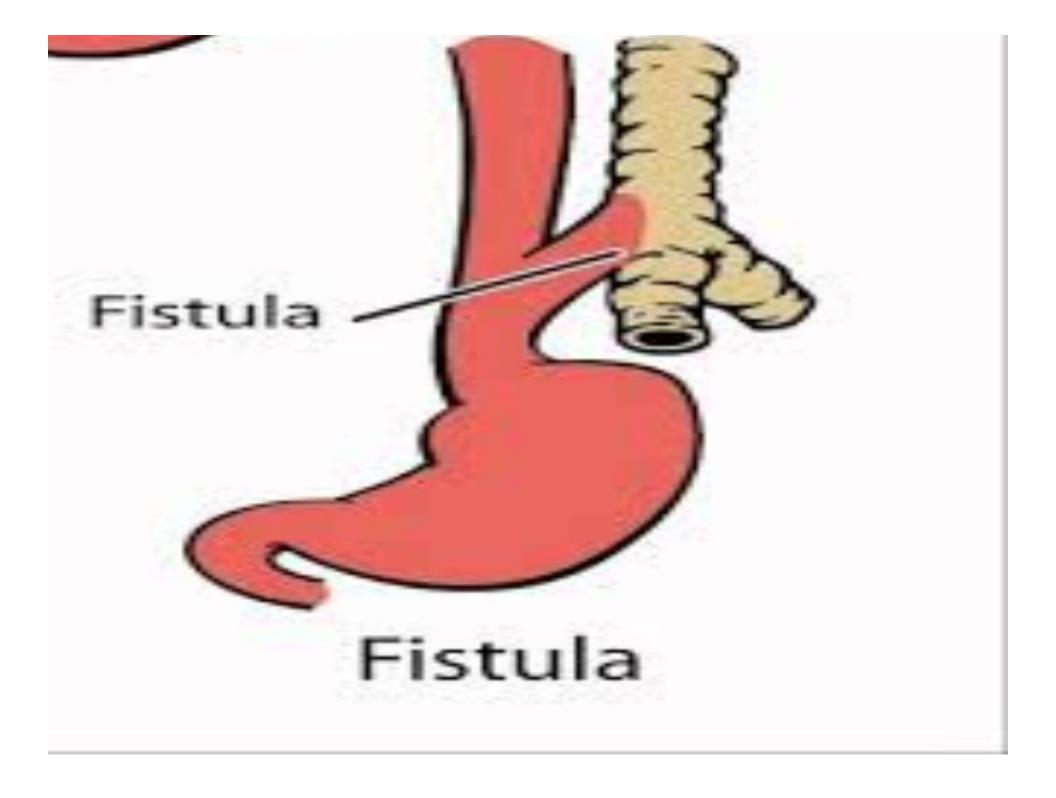
(D) <u>Type 4-</u>

Rared type that occurs in 0.7 % cases. In this type both upper and lower segment of oesophagus communicate with trachea



(E) <u>Type 5-</u>

In this type oesophagus and trachea are normal and completely formed but are connected by fistula. This type is also known as (H) type.



Upper part of esophagus is developed from retropharyngeal segment and the lower part of the first part of primitive gut

At 4-5 weeks of gestation the laryngeal-tracheal groove is formed

Two longitudinal furrows develop & separate the respiratory tract permordium from esophagus

\mathbf{V}

Deviation cellular growth of the septum results in formation of fistula between esophagus and trachea

CLINICAL FEATURE

- Infant cough
- Fluid returned through nose and mouth
- * Cyanosis
- Excessive secretion coming out nose
- Saliva is frothy
- Abdominal distention
- *Pneumonia

DIAGNOSTIV EVALUATION

- History collection
 Physical examination
 USG
- ≻X- Ray
- Fetal MRI
- >Bronchoscopy
- Echocardiogram

MANAGEMENT

Surgical management-

- Ligation
- **End**—to- end anoastomosis

Nursing management-

➢ Pre- operative-

- As soon as the diagnosis of TEF is made, the attempt to feed the baby is stopped.
- NG tube is put in the upper oesophageal segment and is aspirated frequently.

- Place the infant in semi-upright position.
- Constantly observe the child for symptoms of RDS Like- pallor, cyanosis
- IV fluids are administered (Physician order)
 Post operative-
- A oesophagostomy is made to drain out secretion from upper blind oesophageal pouch so that secretion may not overflow and enter the trachea.
- Administer O₂.

- Ventilator support may be provided.
- Feed the infant orally or by gastrostomy, depending upon the type of surgery done.
- After 10-14 days of surgery, before starting oral feed and X- Ray is taken, to find out whether anoastomosis has healed. When healing is occurred, test feeding is given with glucose water.

