OESOPHAGUS & STOMACH

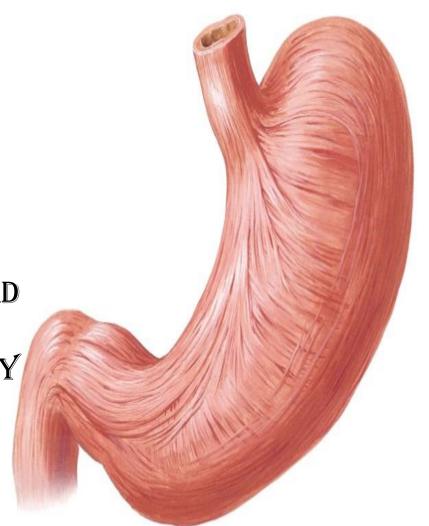
BY

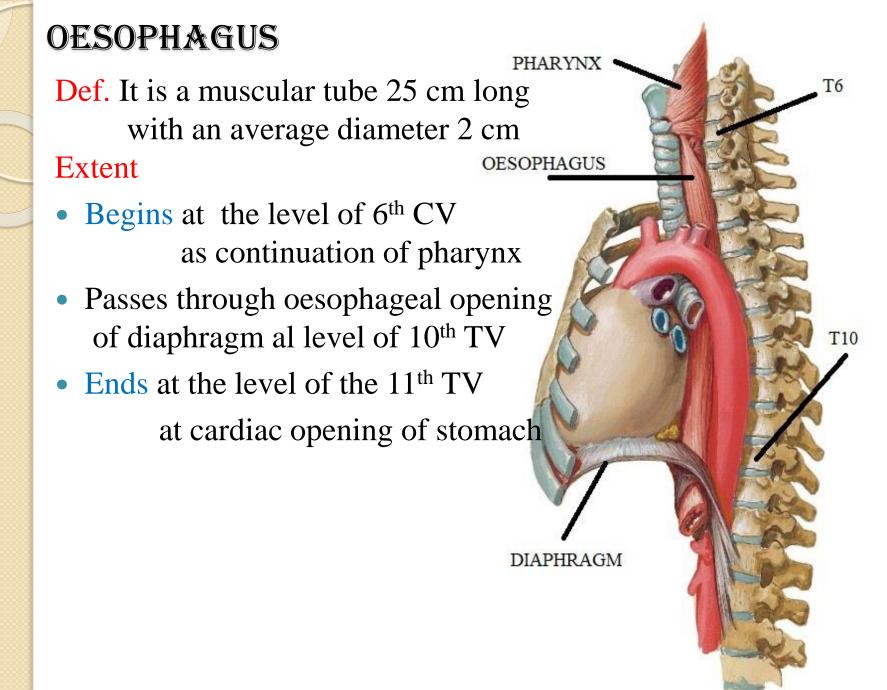
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Course & Relations

In the neck

course

- It begins in the midline,
- as it descends through the neck, it deviates to the left side

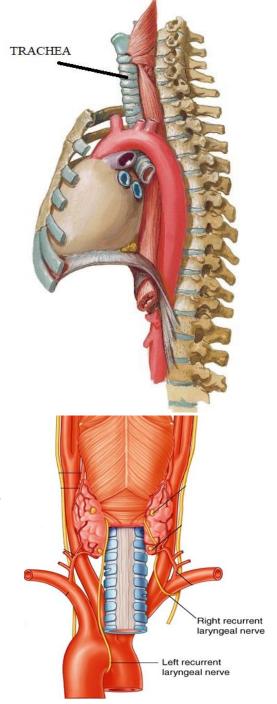
relations

Posteriorly:- the vertebral column;

Anteriorly:- the trachea

the recurrent laryngeal nerves

Laterally:- the lobes of the thyroid gland



Course & Relations

In the thorax

course

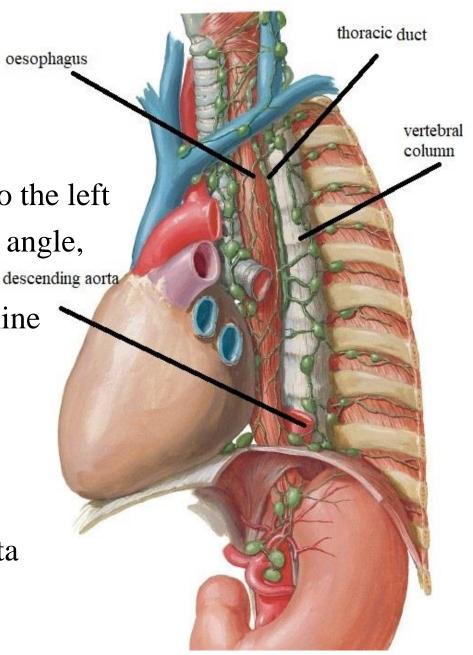
it passes downward and to the left

 At the level of the sternal angle, the aortic arch pushes descending the esophagus to the midline

relations

Posteriorly:

the vertebral column
the thoracic duct
the descending thoracic aorta



Course & Relations

In the thorax

relations

Anteriorly

the trachea

the left recurrent laryngeal nerve

the left main bronchus,

the pericardium,

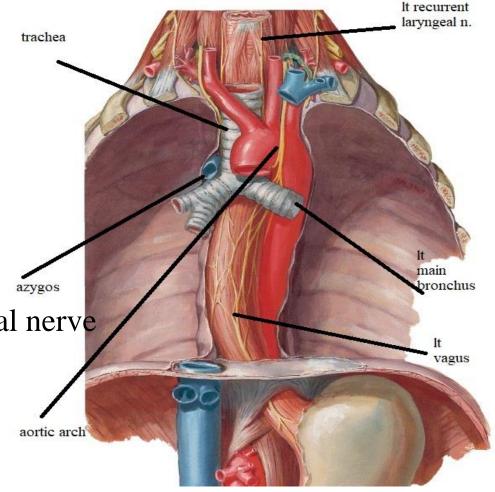
the left atrium

Right side: the pleura

the terminal part of the azygos vein

Left side: the pleura

the aortic arch



Constrictions:-

1-At Pharyngo oesophageal junction

approximately 15 cm from the incisor teeth

2-At Aortic arch

22.5 cm

from the incisor teeth

3-At left main bronchus

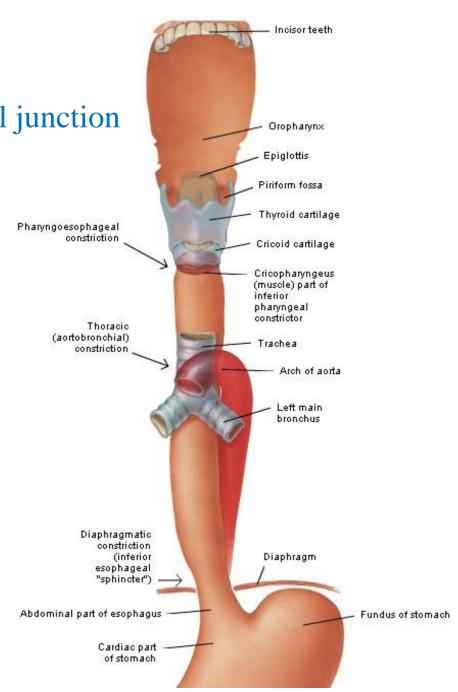
27.5 cm

from the incisor teeth

4-At diaphragm

40 cm

from the incisor teeth



A. S.:

the inferior thyroid artery descending thoracic aorta.& lt. gastric artery

V.D.:-

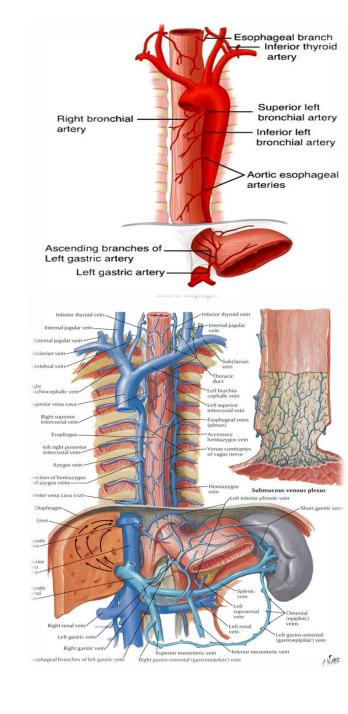
Inferior thyroid vein azygos v. & lt. gastric vein

L.D.:-

Deep cervical L.N. mediastinal L.Ns & coeliac L.Ns

N.S.:-

oesophageal plexus



Position:

left hypochondriac epigastric & umbilical regions

Shape:

1- J shaped (vertical): more common

2- stear (ox) horn (horizontal): less common line midelavicular 3- intermediate it is more vertical in tall thin person. Epigastric region Right hypochondrium Left hypochondrium (hypochondriac region) Transpyloric plane Left flank (lumbar region) Right flank (lumbar region) Intertubercular plane Interspinous plane

Right groin (inguinal region)

Pubic (hypogastric region)

STEER HORN

INTERMEDIATE

J- SHAPE

Left groin (inguinal

cardiac opening It lobe of liver cardiac notch STOMACH **External features:** 2 orifices: Pyloric orifice lesser omentum continue with the duodepum surface anatomy:quadrate lobe gastro of liver splenic L1 (transpyloric plane) 1/2 inch to Rt of midline greater omentum greater cyrvature • Has a true sphincter neck of pancreas diaphragm (pyloric sphincter) that indicated on surface by: •its thickening. •pyloric constriction(circular groove) relation:-Ant. quadrated lobe of liver Post.: neck of pancreas

External features:

2 orifices:

Cardiac orifice

- receive oesophagus
- surface anatomy:

(T11v) 7th costal cartilage

1 inch to left of midline

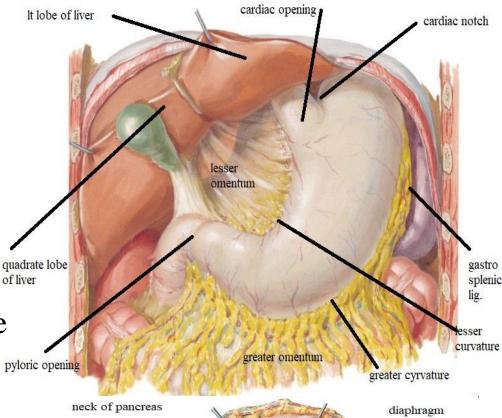
- Has <u>NO</u> true sphincter: but cardiac notch
- relation :-

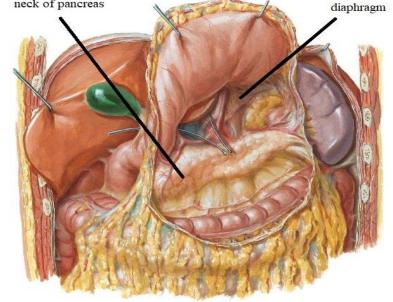
Ant.:- It lobe of liver

- ant. gastric n.

Post.: - diaphragm.

- post. gastric n.





External features:

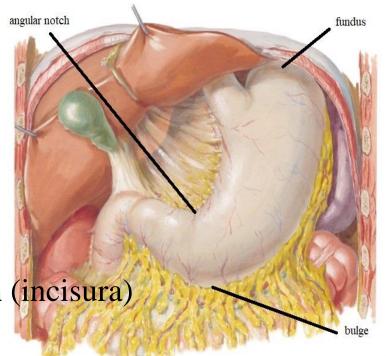
2 borders:

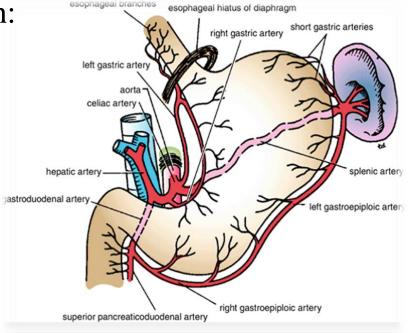
Rt. (lesser curvature)

- Course:-concave: descends vertically then passes to Rt. at angular notch (incisura)
- Relations attach to lesser omentum with:

Rt. & Lt. gastric vessels

() 2 layer of omentum





External features:

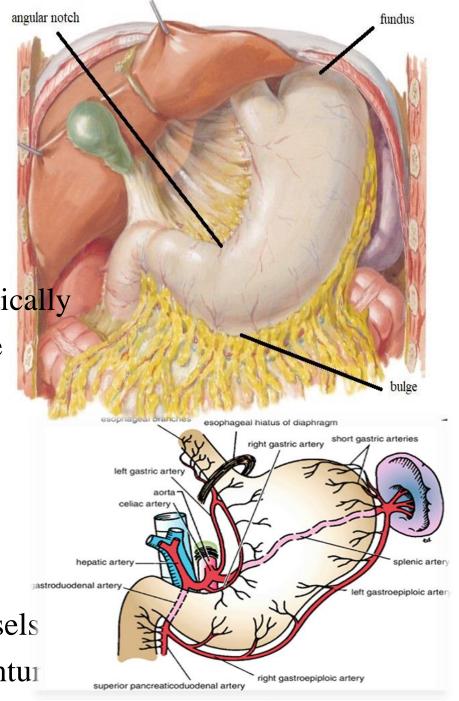
2 borders:

Lt (greater curvature)

- course :-convex:
 arches upwards forming
 fundus then descends vertically
 then passes to Rt. at bulge
 below angular notch
- Relations:- attach to
- -gastrophrenic lig.
- -gastrosplenic lig.
- -greater omentum with:

Lt & Rt. gastroepiploic vessels

() 2 ant. layers of omentu



External features:

2 surfaces:

anterior (antero superior)

Relations

Lt part:

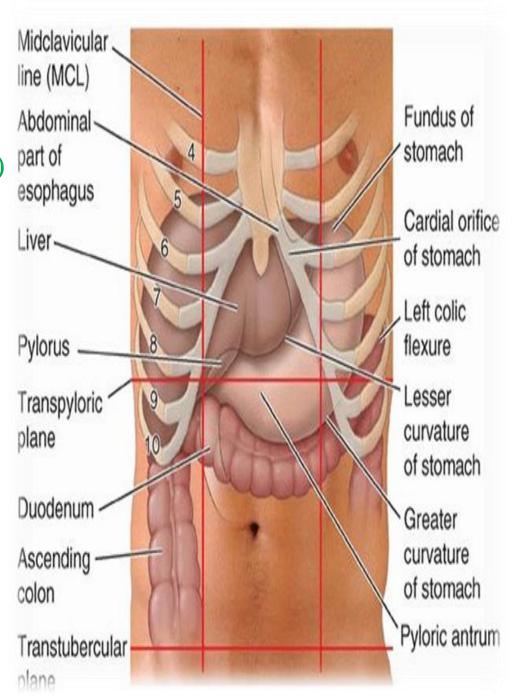
- diaphragm.
- It lung & pleura
- lt7, 8 ribs & costal cartilages.

Rt part:

Lt lobe of liver.

Intermediate part:

ant. abdominal wall



External features:

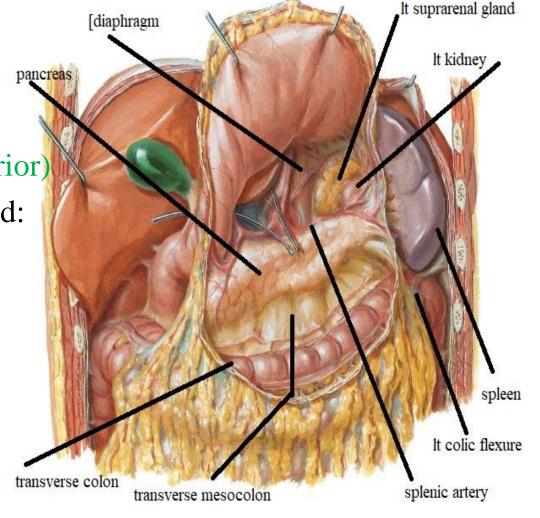
2 surfaces:

Posterior (postero inferior)

Relations:-stomach bed:

- •Lt crus of diaphragm.
- •spleen.
- •Lt kidney & suprarenal gland.
- •body of pancreas & splenic art.
- •transverse colon & mesocolon.
- •Lt colic flexure.

& all these structures are separated from stomach by lesser sac except spleen is separated from it by greater sac.



PARTS

1-fundus: above cardiac end

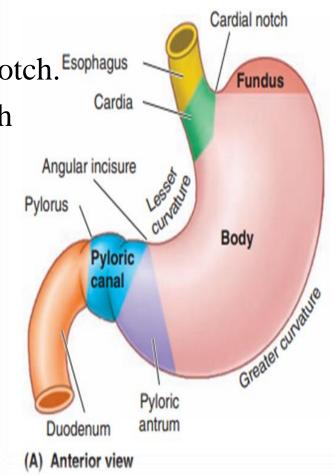
Lies in Lt midclavicular line in Lt 5th intercostal space.

2-body: () cardic end & angular notch. Esophagus

3-pyloric part: below angular notch

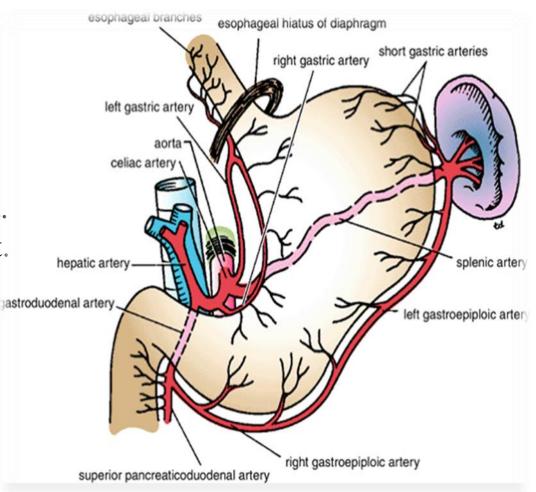
& is divided into 3 parts.

- •pyloric antrum : dilated part below body
- •Pyloric canal.
- •pyloric orifice with pyloric sphincter.



arterial supply:

- 1-Lt gastric art.
- 2-Rt gastric art.
- 3-Lt gastro-epiploic art.
- 4-Rt gastro-epiploic art.
- 5-Short gastric art.



Venous drainage:

The veins drain into the portal circulation.

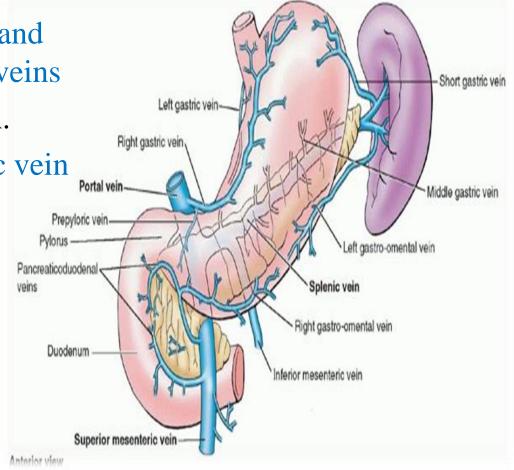
The left and right gastric veins

drain directly into the portal vein.

The short gastric veins and the left gastroepiploic veins end in the splenic vein.

The right gastroepiploic vein

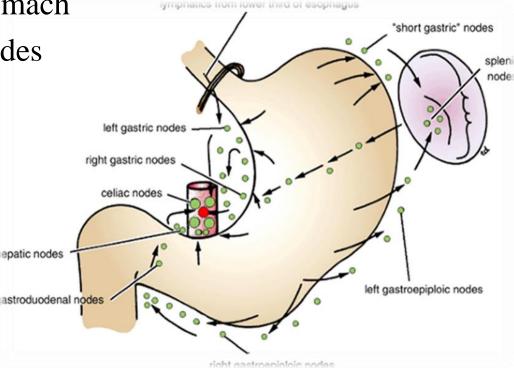
End in the superior mesenteric vein.



lymph drainage:

The lymph vessels follow the arteries into the left and right gastric nodes, the left and right gastroepiploic nodes, and the short gastric nodes.

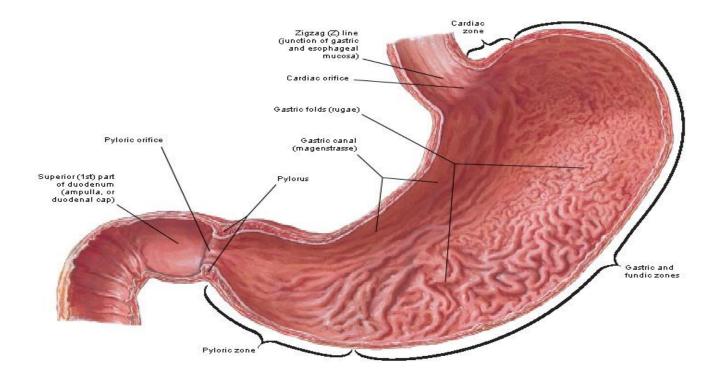
All lymph from the stomach passes to the celiac nodes



Mucosa (interior):

there are longitudinal folds called rugae that disappear in full stomach

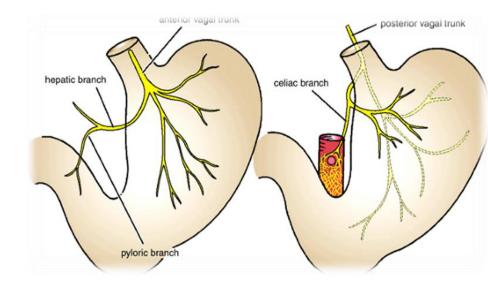
2 of them are present along lesser curvature forming gastric canal. the liquids and food eaten at beginning of the meal run along the gastric canal to pyloric portion



nerve supply of stomach:

sympathetic:

•from T6- 10 segments of spinal cord & relay in coeliac ganglion



•stimulatory to pyloric sphincter & inhibitory other parts parasympathetic:

- •from 2 vagi that continue as 2 gastric nerves.
- •stimulatory to all part but inhibitory to pyloric sphincter & secretory to the glands that secrete HCL

applied anatomy:

- •gastric ulcer is common in lesser curvature at pyloric part due to less blood supply
- •vagotomy cutting of gastric nerves HCL secretion

THANQ