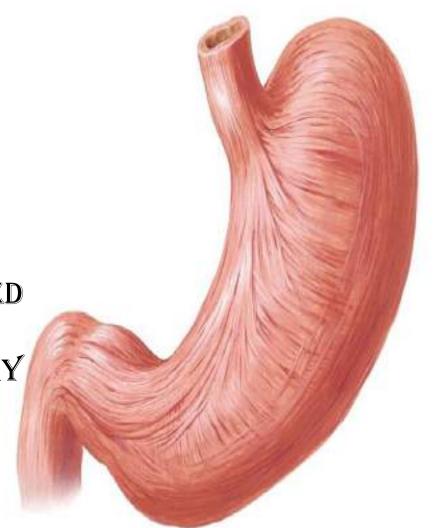
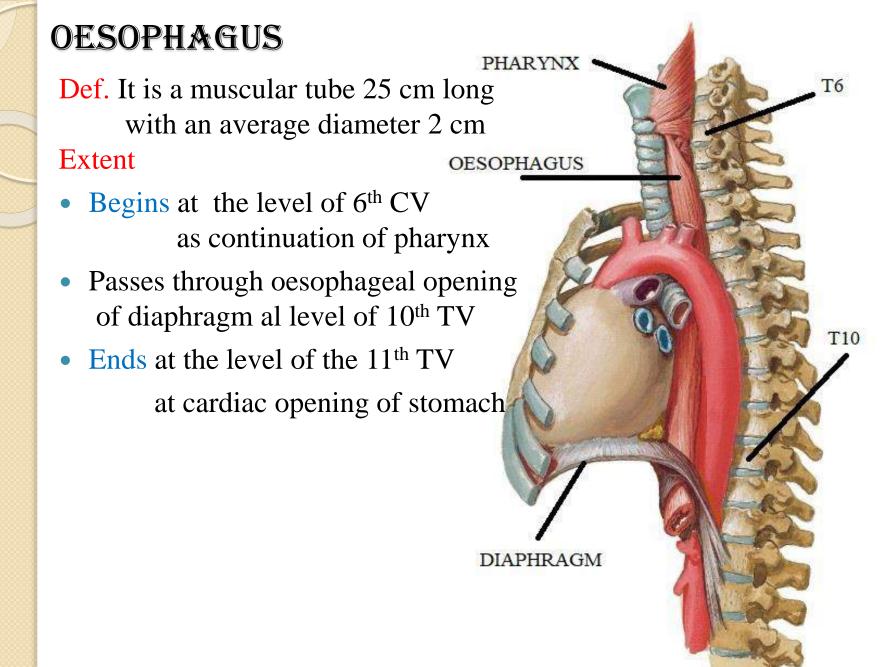
OESOPHAGUS & STOMACH

BY
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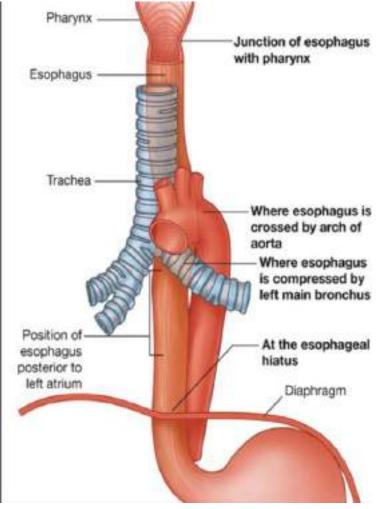




Course

In the neck

- It begins in the midline,
- as it descends through the neck, it deviates to the left side as far as the root of the neck
 In the thorax
- it passes downward and to the left
- At the level of the sternal angle, the aortic arch pushes the esophagus to the midline
- at the seventh thoracic vertebra deviates left again, before it pierces the diaphragm



Relations In the neck

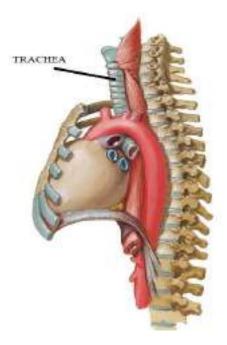
relations

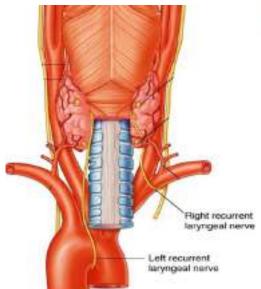
Posteriorly:- the vertebral column;

Anteriorly:- the trachea

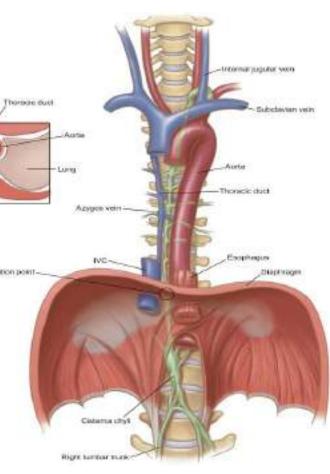
the recurrent laryngeal nerves

Laterally:- the lobes of the thyroid gland





Azygos veiri



Relations In the thorax

Posteriorly:

the vertebral column
the thoracic duct
the descending thoracic aorta
Anteriorly

the trachea

the left recurrent laryngeal nerve

the left main bronchus,

the pericardium, the left atrium

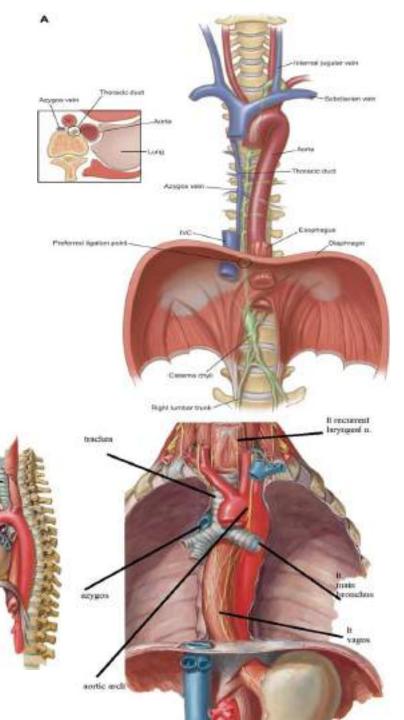
Right side: the pleura

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

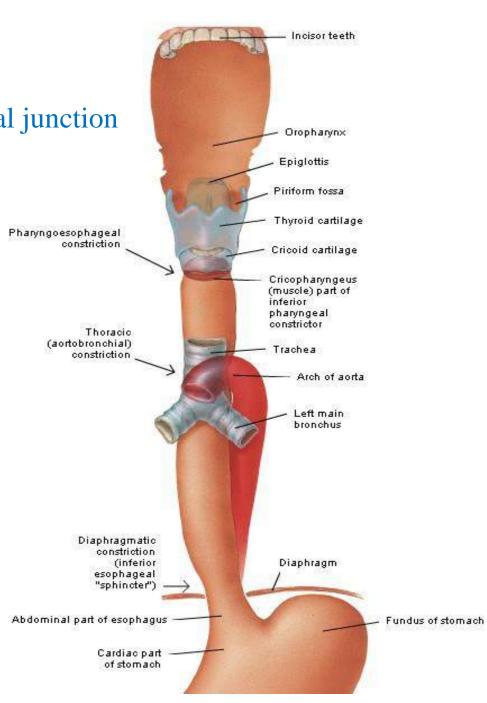
27.5 cm

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.:-

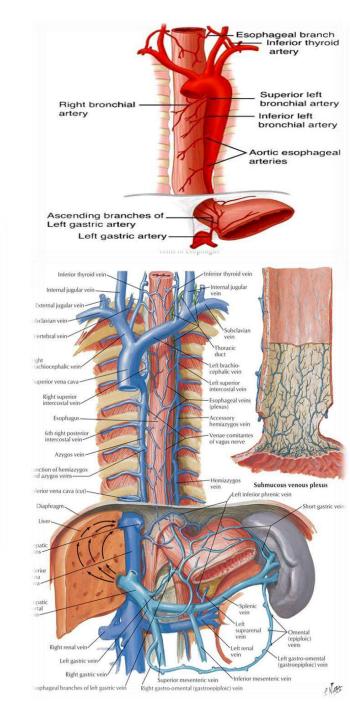
Inferior thyroid vein azygos v. & lt. gastric vein

L.D.:-

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

Left vagus nerve Anterior vagal trunk Esophageal Stomach Posterior vagal

N.S.:- parasympathetic and sympathetic fibers via the vagi and sympathetic trunks that form oesophageal plexus



Position:

left hypochondriac epigastric &

Shape:

umbilical regions STEER HORN INTERMEDIATE J- SHAPE 1- J shaped (vertical): more common 2- stear (ox) horn (horizontal): less common nitriniole 3- intermediate it is more vertical in tall thin person. Spignell integrate

Right hypophorphisms

Right flash (by missroog insi-

Alphagole Angular Inginal

Publis Physiographic regions

infacialty on large larve Inforgi sous plane.

Letthyrethendrice. (Nepacha solt ac reola s')

Letrank Fundamenion

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External features:

2 orifices:

Pyloric orifice

continue with the duodenum

surface anatomy:-

L1 (transpyloric plane)

1/2 inch to Rt of midline

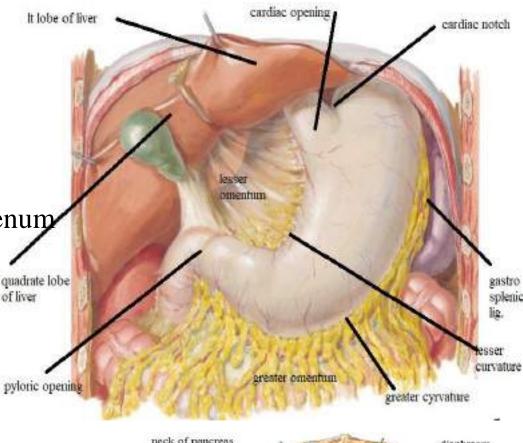
Has a true sphincter
 (pyloric sphincter)
 that indicated on surface by:

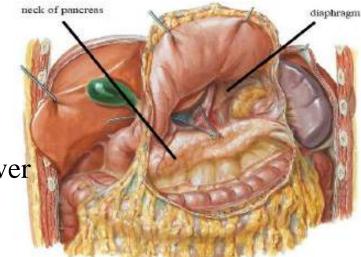
•its thickening.

•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

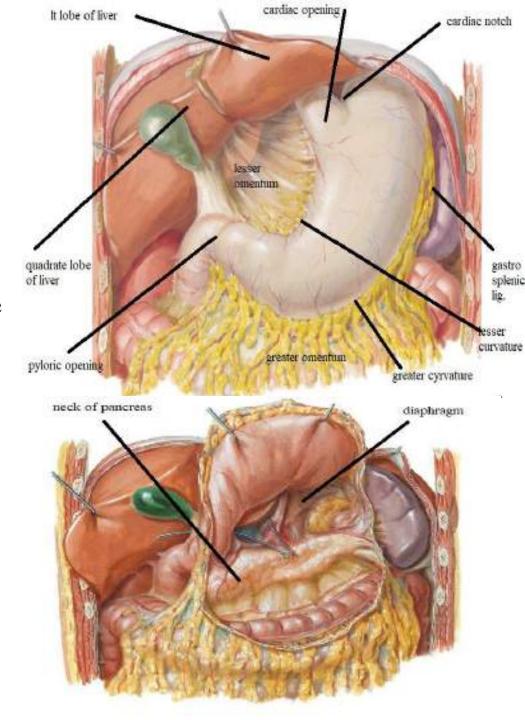
- 1 inch to left of midline
- Has <u>NO</u> true sphincter:
 but cardiac notch
- relation :-

Ant.:- -

It lobe of liver ant. gastric n.

<u>Post.: -</u>

diaphragm post. gastric n.



External features:

2 borders:

Rt. (lesser curvature)

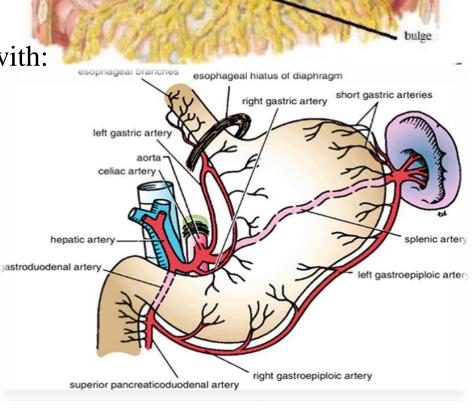
concave:
 descends vertically then
 passes to Rt. at angular notch (incisura)

angular notch

 Relations attach to lesser omentum with:

Rt. & Lt. gastric vessels

() 2 layer of omentum



External features:

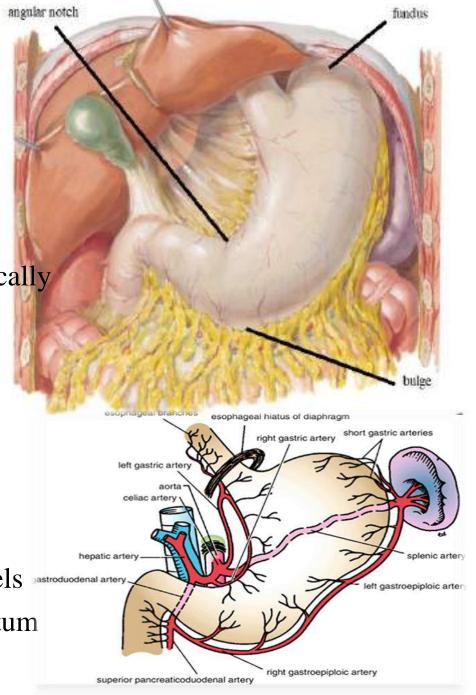
2 borders:

Lt (greater curvature)

- 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 omentum



External features:

2 surfaces:

anterior (antero superior)

Relations

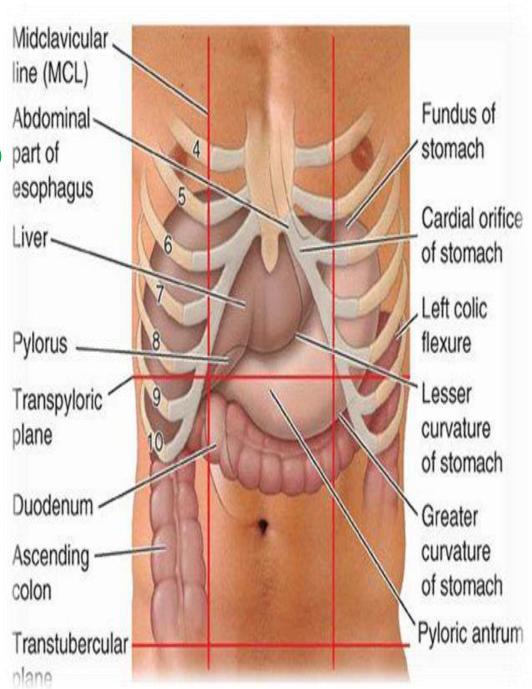
Lt part:

- 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.

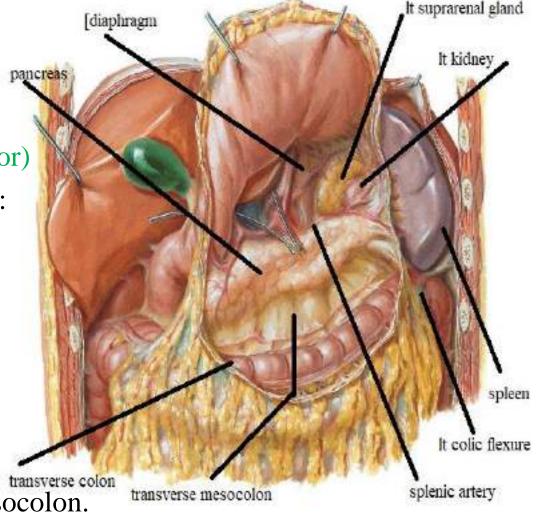
•Lt kidney & suprarenal gland.

•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.

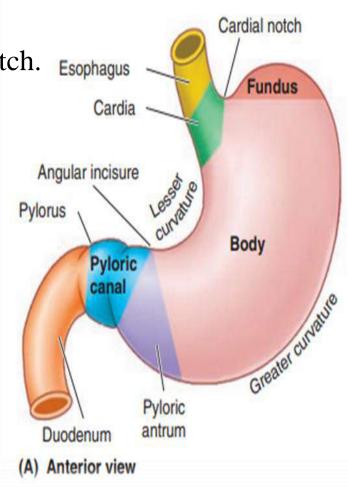
2-body: () cardic end & angular notch.

3-pyloric part: below angular notch

& is divided into 3 parts.

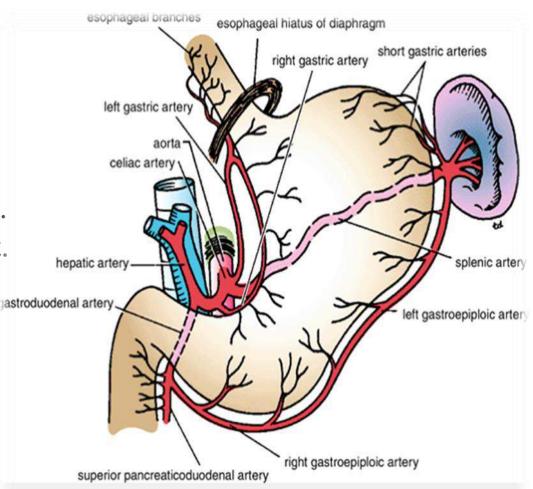
•pyloric antrum : dilated part below body

- •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.

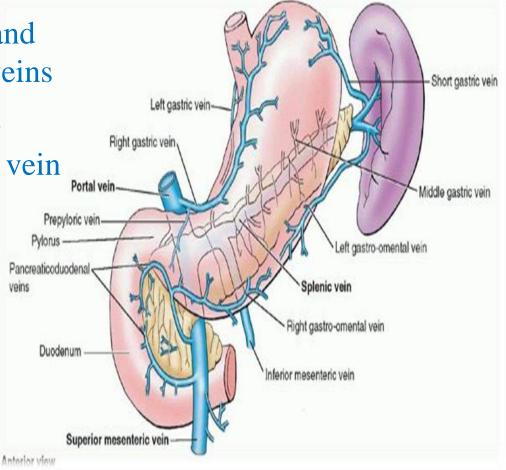
The left and right gastric veins

drain directly into the portal vein.

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

The right gastroepiploic vein

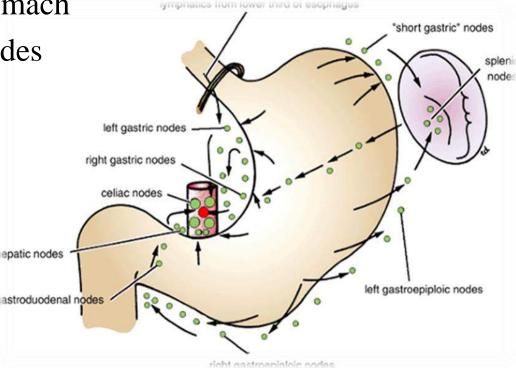
End in the superior mesenteric vein.



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.

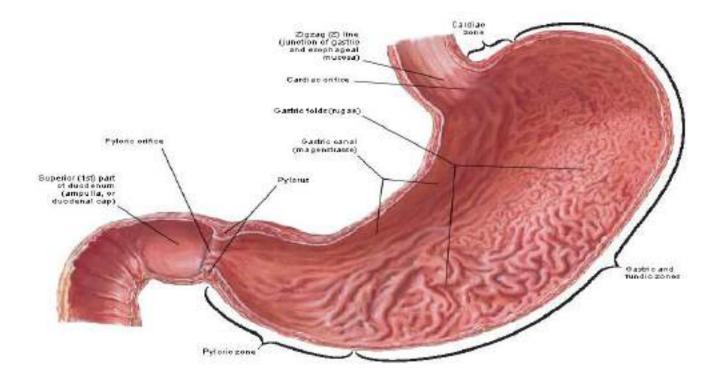
All lymph from the stomach passes to the celiac nodes



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:

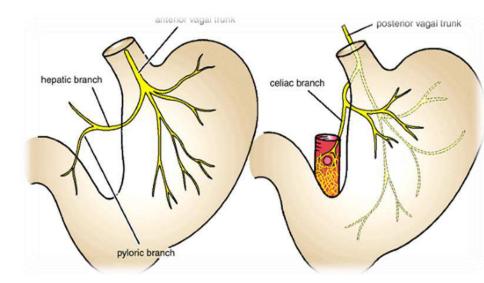
•from T6- 10 segments of spinal cord

parasympathetic:

•from 2 vagi that continue as 2 gastric nerves.

applied anatomy:

•gastric ulcer is common in lesser curvature at pyloric part due to less blood supply



THANQ