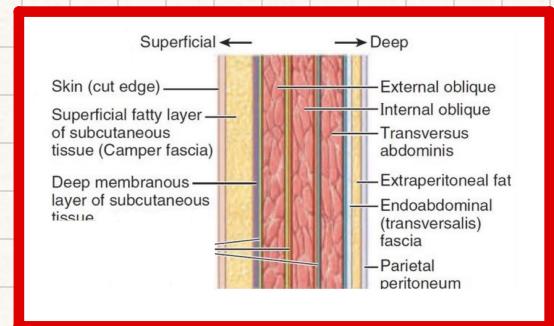


Layers of the Anterior Abdominal Wall:

1. The skin is loosely attached to the underlying structures **Except at the umbilicus.**
2. Superficial Fascia is divided into a superficial fatty layer "Camper's Fascia" and a deep membranous layer "Scarpa's Fascia"

N.B. The deep Fascia

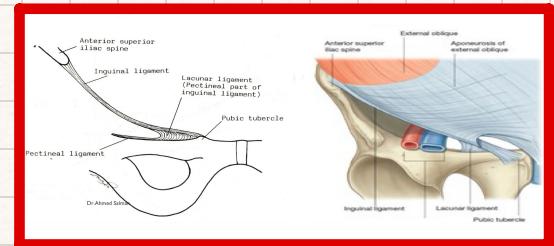
Being rich in collagen, is non-stretchable
is absent from the abdominal wall & perineum



Inguinal Ligament

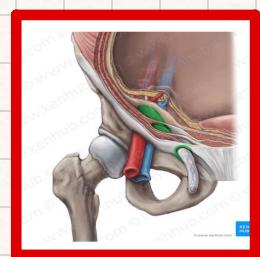
- It's the lower border of external oblique aponeurosis

Attachment: It's attached to anterior superior iliac spine & pubic tubercle



Inguinal Canal

- It's oblique passage in the lower part of the anterior abdominal wall, just above the medial 1/2 of the inguinal ligament
- It Extends between superficial & deep inguinal Rings



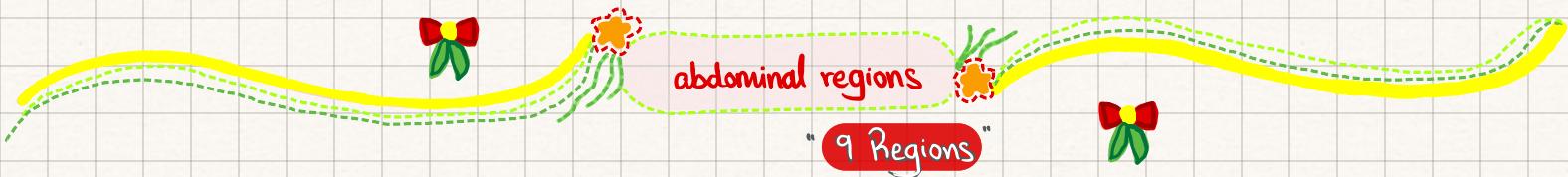
Structures passing through the Canal:

1. Spermatic cord in males

or

Round ligament in females

2. Ilioinguinal nerve



Two vertical midclavicular lines → Left & Right
Two Horizontal

1. Subcostal ; through lower edge of 10th costal cartilage
& L3 vertebra
2. Transtubercular ; through tubercles of iliac crests (L5 vertebra)

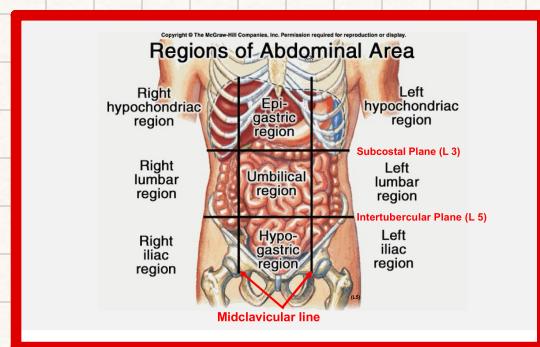
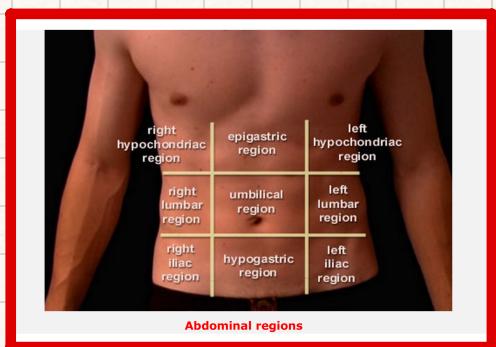
These lines forms 9 abdominal regions :

- Right Hypochondrium epigastrium Left Hypochondrium

Right Lumbar Umbilical Left Lumbar

Right Iliac Hypogastrum Left Iliac

" Inguinal " " Inguinal "





The Peritoneum



is a serous membrane,

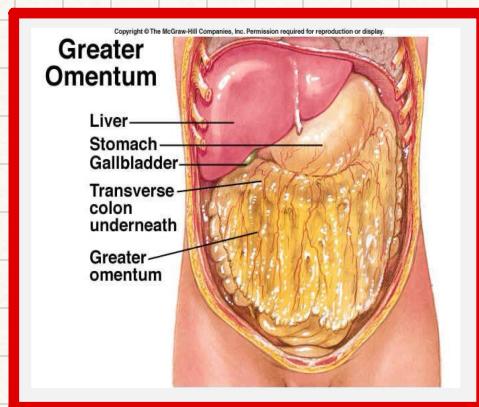
which lines the abdominal cavity & is reflected over the visceral

also it has two layers ; **Parietal & Visceral**

with peritoneal cavity in between

The parietal layer → lines the interior of the anterior
and posterior abdominal walls, the lower surface of the Diaphragm

The visceral layer → surrounds the abdominal visceral





The stomach:

it's the widest part of the digestive tube

it lies in epigastrium, left Hypochondrium & Umbilical Regions

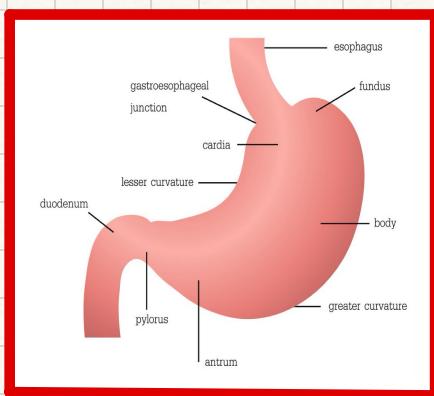
It has 2 ends :

1. Cardiac end

- ★ Connected with the esophagus
- ★ It's guarded by physiological sphincter

2. Pyloric end

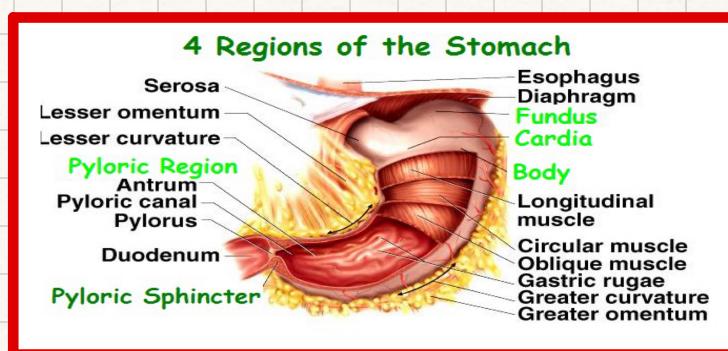
- ★ Connected to the duodenum
- ★ It's guarded by anatomical sphincter
"thick circular fibers"

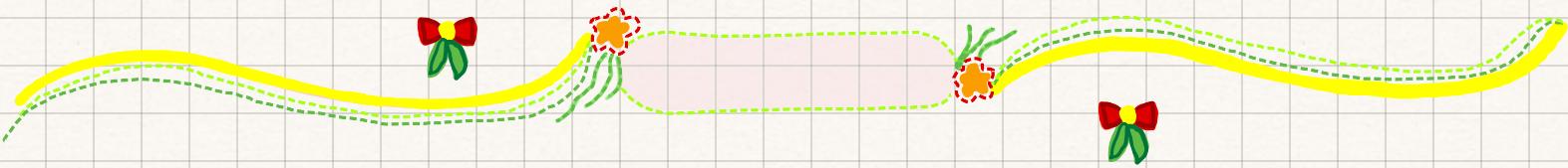


It has 2 surfaces: Anterior & Posterior

It has 2 curvatures:

- ★ Lesser curvature above & to the right
- ★ Greater curvature below & to the left





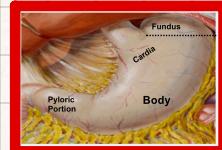
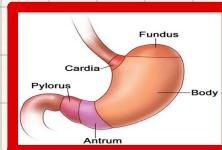
Regions of the stomach:

a) Cardiac portion:

Fundus: above the level of esophageal opening

Cardia: It's the uppermost part of the stomach

Body

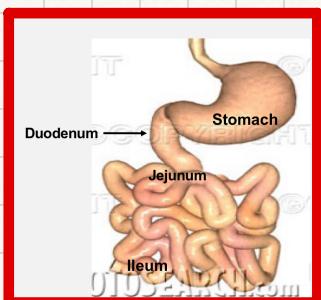


b) Pyloric Portion:

The small intestine

It's divided into 3 parts:

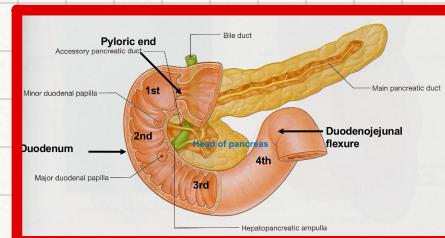
- 1 the duodenum
- 2 the jejunum
- 3 the ileum



The duodenum is divided into 4 parts

" 1st, 2nd, 3rd & 4th "

It receives opening of the pancreatic & common bile ducts
in the middle of its 2nd part



The large intestine

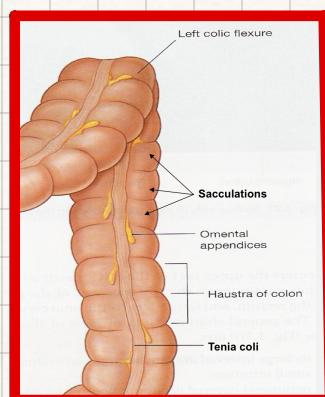
It's characterized by the presence of:

Haustrations (grooves)

Sacculations (it's divided into small sacs)

Teniae Coli: 3 muscular bands

Appendices Epiploicae: Small appendices filled with fat



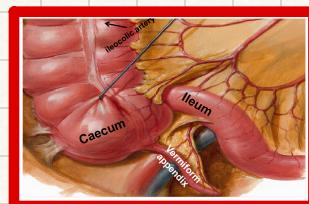
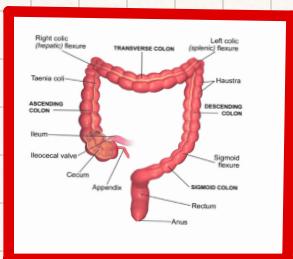
Components of the large intestine:

- The caecum & **Vermiform appendix**
- The colon (ascending, transverse, descending & sigmoid)
- Right & Left colic flexures
- The rectum
- The anal canal

It's attached to the caecum about one inch below the ileocaecal junction

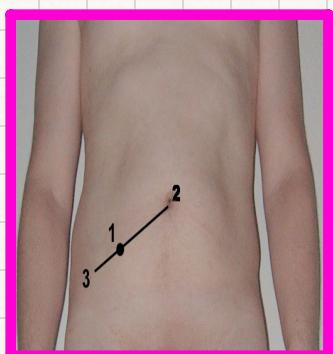
It lies in the right inguinal region

It's very rich in lymphoid follicles → **Tonsil of the abdomen**



Surface anatomy of the appendix

The base of the appendix is represented by **McBurney's point** which is the point at the junction of the lateral 1/3 & medial 2/3 of a line extending between the anterior superior iliac spine (ASIS) & umbilicus.



The anal canal

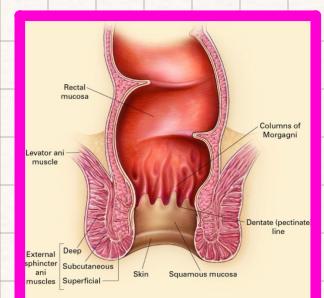
It begins one inch below & in front of the coccyx and is directed downwards & backwards

Its upper part is insensitive to general sensations

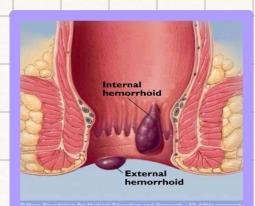
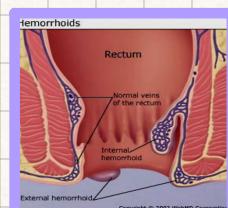
Supplied by **Autonomic fibers**

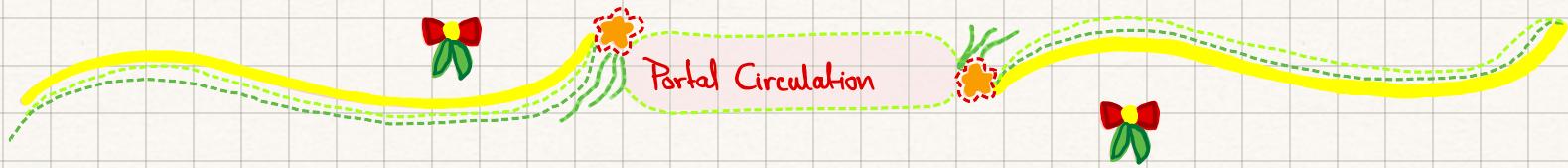
Its lower part is sensitive to general sensations

Supplied by **Somatic fibers**



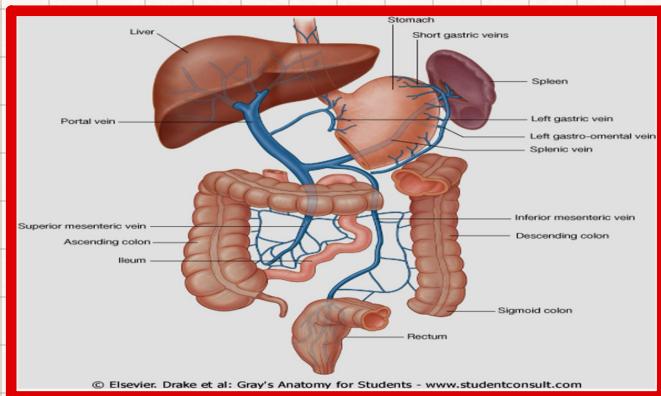
Dilatation of the submucosal venous plexus of the rectum & anal canal may result in **internal or external hemorrhoids (piles)**





The portal vein drains the alimentary canal from the esophagus to the upper 1/2 of the anal canal, pancreas & spleen to the liver.

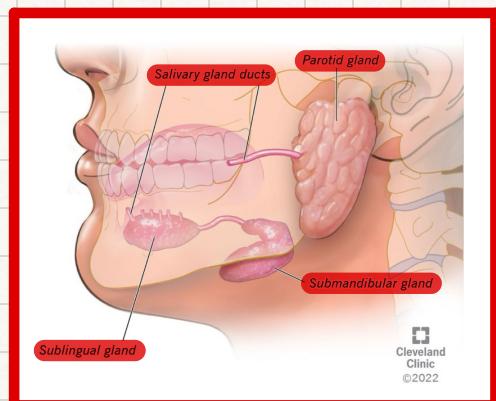
- Is formed by the union of the splenic and superior mesenteric veins **Behind neck of Pancreas**
- It ends in porta hepatis



The Salivary Glands

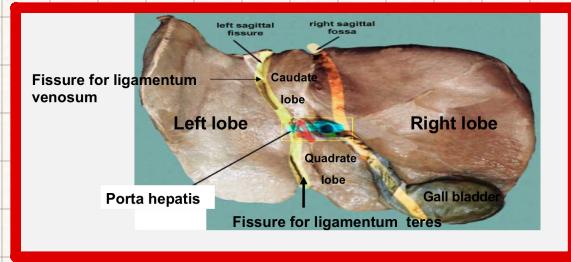
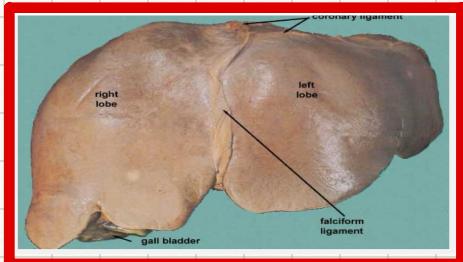
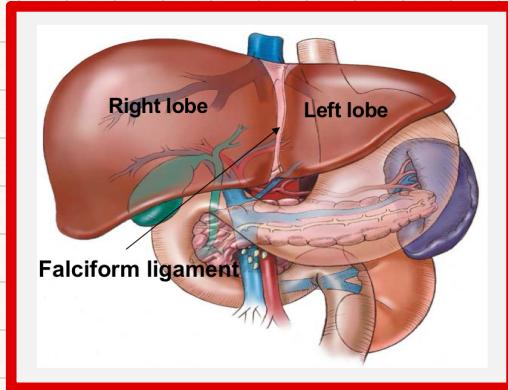
there are 3 pairs of salivary glands

Parotid
& Submandibular
& Sublingual Salivary gland



The Liver

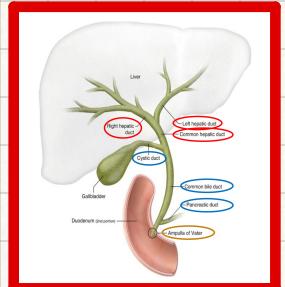
- ★ It's the largest organ in the body
- ★ It lies in the right Hypochondrium, epigastrium and left Hypochondrium
- ★ It's divided into large right and left lobe
- ★ The right lobe contains 2 additional lobes;
Quadrata lobe and Caudate lobe



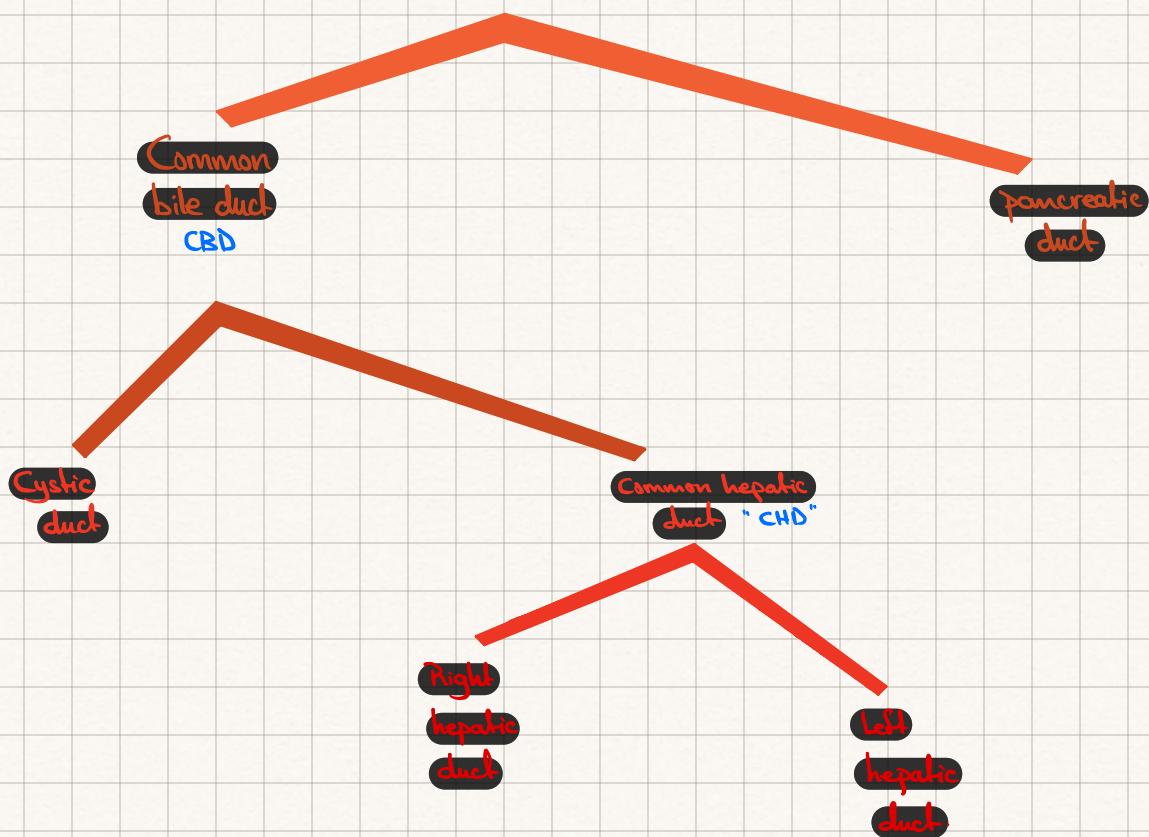
The Biliary System

It consists of:

- ★ gallbladder
- ★ Right and left hepatic ducts from the right and left lobes of the liver
- ★ They join to form common hepatic ducts (CHD)
- ★ CHD joins the cystic duct of the gallbladder and forms together the common bile duct (CBD)
- ★ CBD joins the main pancreatic duct that opens in the middle of the second part of the duodenum



Opens in the middle of the second part of the duodenum

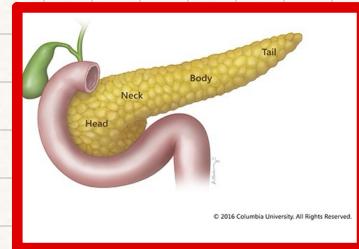




💡 It's both exocrine & endocrine gland

💡 It's divided into 4 parts:

- 💡 Head
- 💡 neck
- 💡 Body
- 💡 Tail



General topography of GIT

Is divided into 3 parts:

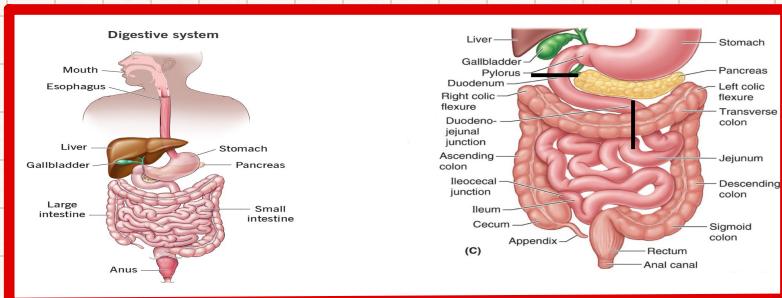
Foregut, **midgut**, **Hindgut**

Foregut

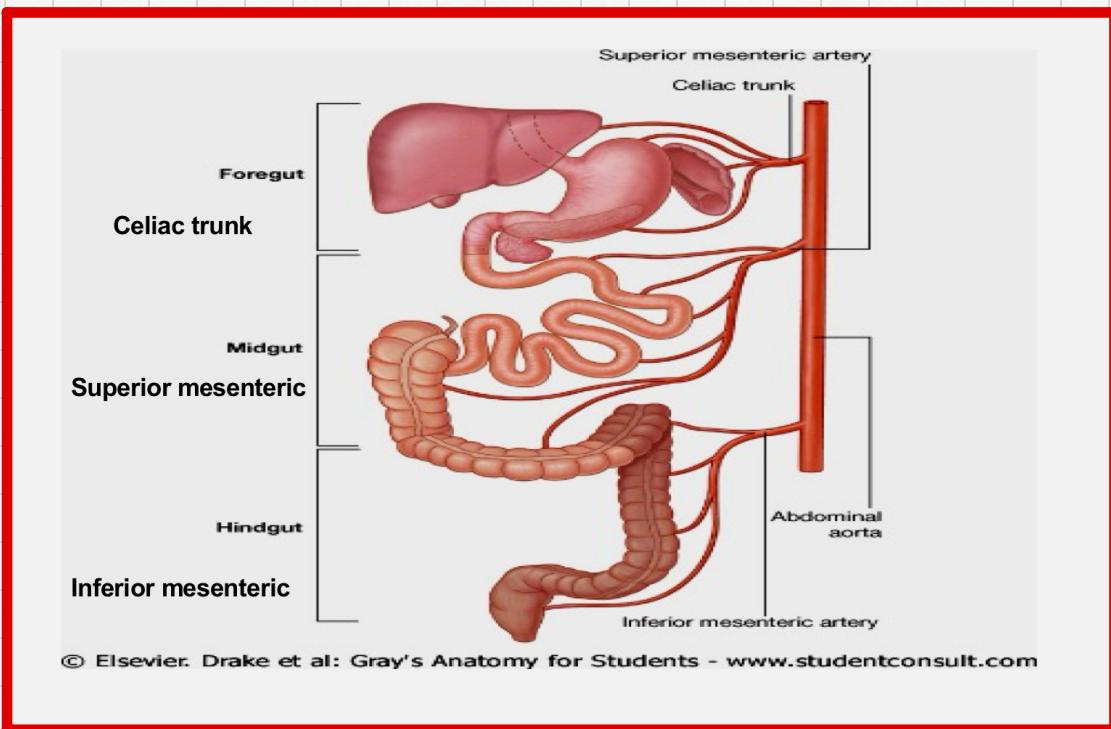
midgut

Hindgut

components	abdominal end of esophagus, stomach, duodenum down to entrance of bile duct, liver, spleen, pancreas	Lower 1/2 of the duodenum, jejunum, ileum, large intestine as far as the right 2/3 of the transverse colon	the rest of large intestine down to the pectinate line of the anal canal
Arterial supply	Celiac artery	Superior mesenteric artery	Inferior mesenteric artery



Blood supply of the gut



DONE!