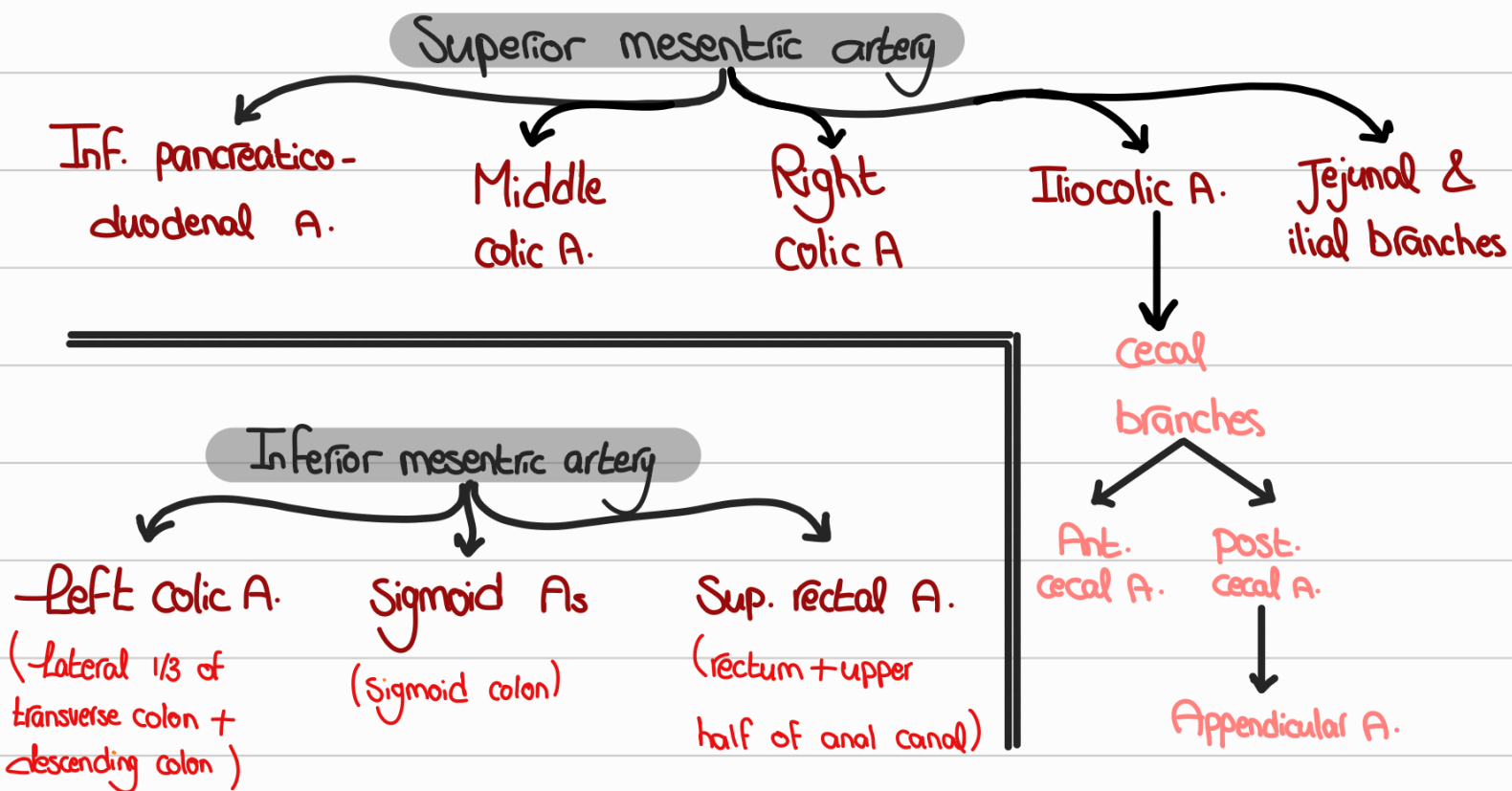
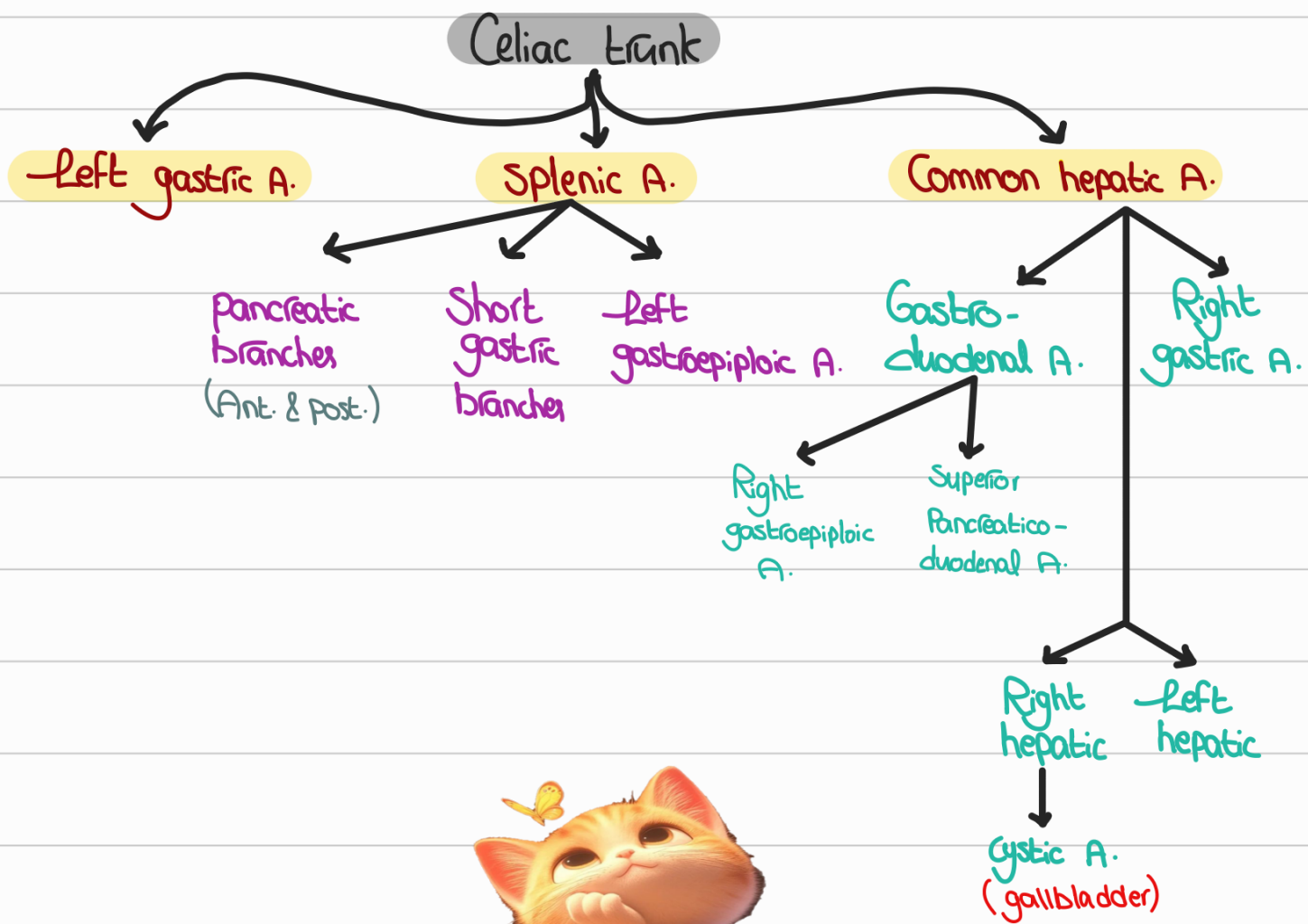




Abdominal Aorta

Single branches

Back

Front



Median
Sacral A.

celiac
trunk

sup.
mesenteric

inf.
mesenteric

Paired branches

Back

Sides

Front



4 lumbar
arteries

Inf.
phrenic
A.
(diaphragm)

Middle
supra-
renal
A.
(adrenal
gland)

Renal
arteries
(-P2)

Gonadal A.
(-P2)

Abdominal Aorta



Rt. common iliac A.

Lt. common iliac A.



Ext. iliac A.

Int. iliac A.
next page

Ext. iliac A.

Int. iliac A.
next page



Inf. epigastric A.

Deep circumflex
iliac A. (muscles of the
lower abdominal wall)

Femoral A.

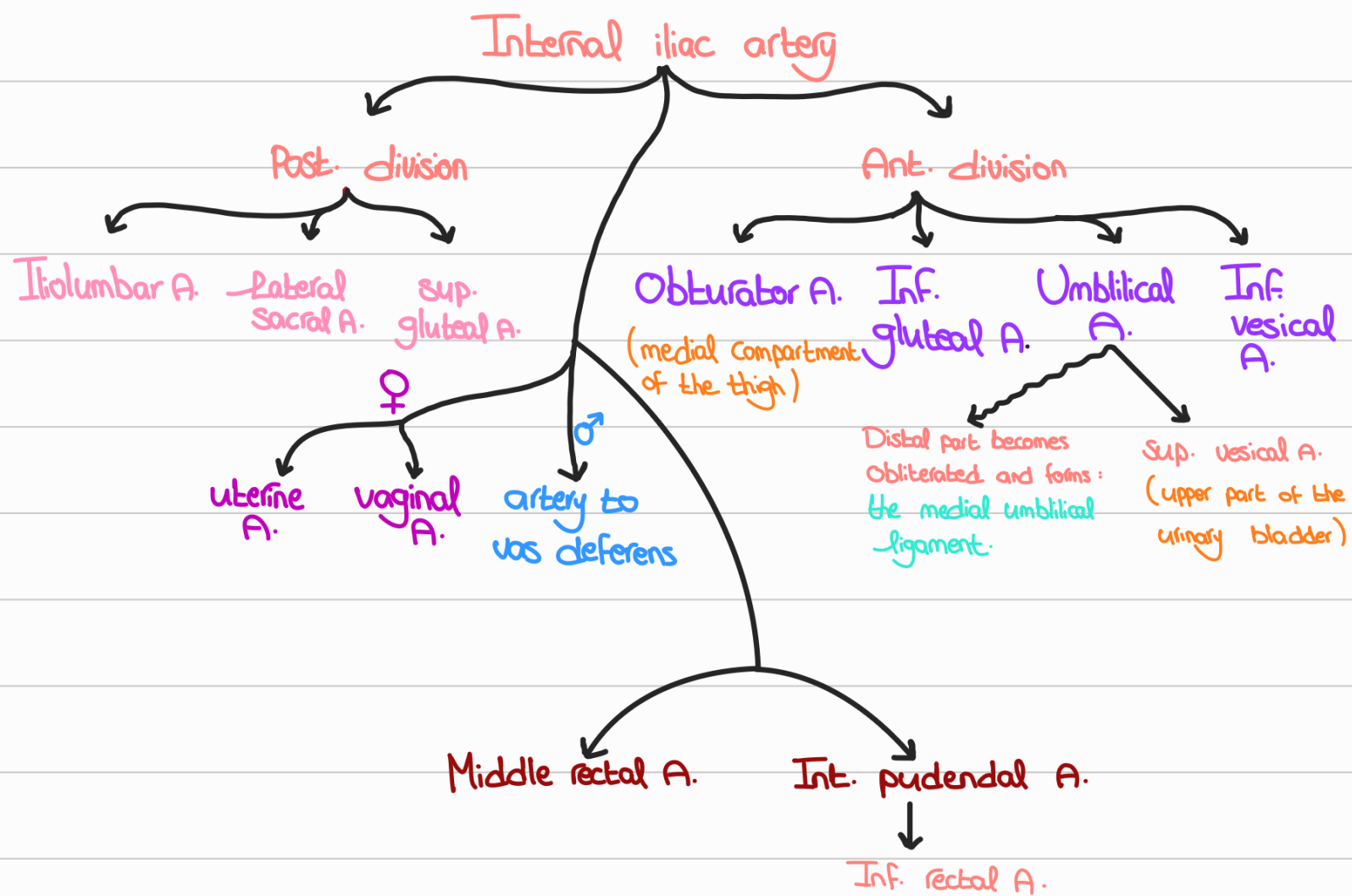
Inf. epigastric A.

Deep circumflex
iliac A. (muscles of the
lower abdominal wall)

Femoral A.



حَقَّقْ عَلَى مَكْتَبِي



Quick Notes ☺

- Sup. rectal is a terminal branch of the inf. mesenteric A.

Middle " " " " " int. iliac A.

Inferior " " " " " int. pudendal which is a terminal branch of int. iliac A.

Left gastric → Celiac trunk

Right gastric → common hepatic

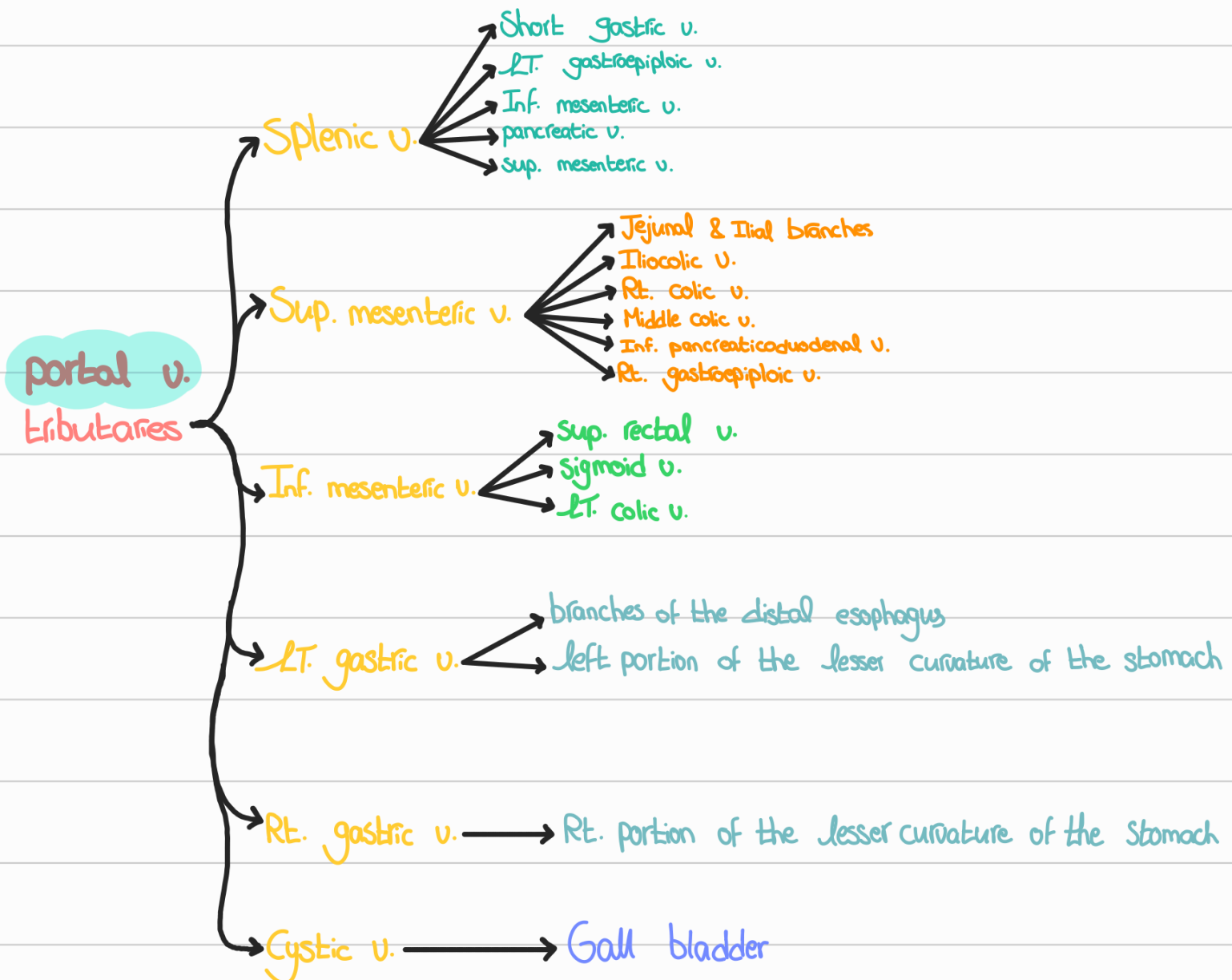
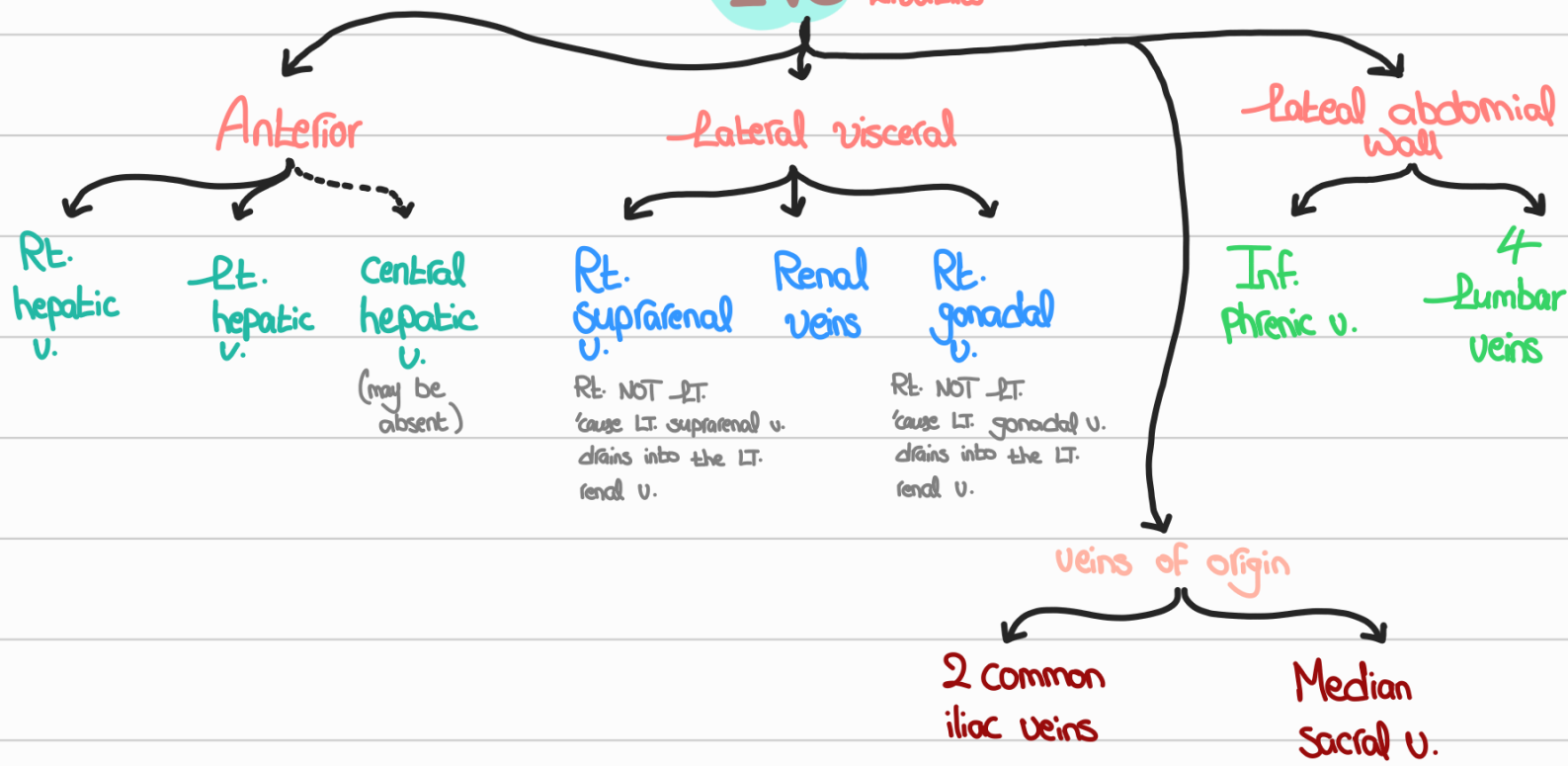
Left gastroepiploic → Splenic A

Right gastroepiploic → Gastroduodenal A.

Sup. pancreaticoduodenal → Gastroduodenal

Inf. pancreaticoduodenal → sup. mesenteric.

IVC tributaries





Remember

Abdominal aorta
↳ superior mesenteric

BLOOD SUPPLY

Mid gut

superior mesenteric

↓

iliocolic

↓

Ant & Post cecal

VENOUS DRAINAGE

Ant & Post cecal

↓

superior mesenteric vein joins splenic vein

portal vein

pos to the neck of pancreas

LYMPHATIC DRAINAGE

mesenteric lymph nodes → superior mesenteric nodes

NERVE SUPPLY

superior mesenteric plexus

formed by sympathetic & parasympathetic (vagus)



BLOOD SUPPLY

Mid gut

iliocolic

↓

posterior cecal

↓

appendicular artery

VENOUS DRAINAGE

appendicular vein accompanies the artery

↓

posterior cecal

↓

superior mesenteric

LYMPHATIC DRAINAGE

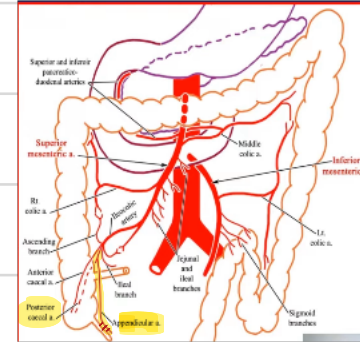
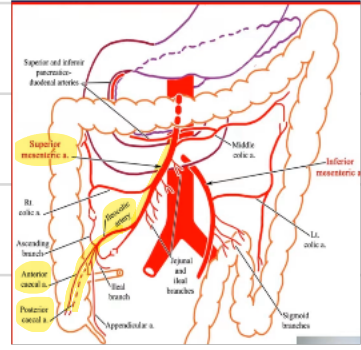
They drain into one or two nodes lying in the mesoappendix

↓

superior mesenteric nodes

NERVE SUPPLY

take care it takes visceral innervation from t10

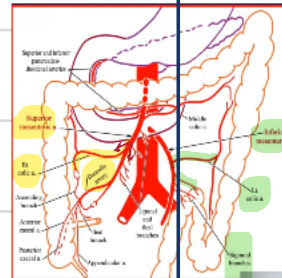


BLOOD SUPPLY



Midgut

ilio colic artery
+
Rt. colic artery



hind gut

inferior mesenteric
↓
Lt. colic artery + 1st sigmoid branch

VENOUS DRAINAGE

corresponding to the arteries
↓
superior mesenteric

Also, ending in
↓
inferior mesenteric vein ≈ splenic vein

LYMPHATIC DRAINAGE

superior mesenteric
nodes

inferior mesenteric
nodes

NERVE SUPPLY

sympathetic → superior mesenteric ganglia

para → vagus

vagus — sympathetic fibers
join forming
nerve plexus → follows arterial
supply of
ascending colon

sym → inferior mesenteric ganglia 1/2

para → S2/3/4

They join forming inferior mesenteric plexus/
hypogastric plexus





Proximal $\frac{2}{3}$

Distal $\frac{1}{3}$

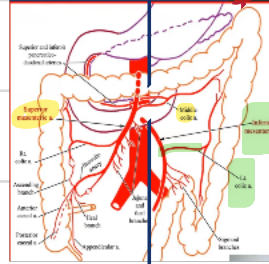


BLOOD SUPPLY

Mid gut

superior mesenteric

↓
Middle colic A.



hind gut

inferior mesenteric A.

↓
left colic A.

VENOUS DRAINAGE

superior mesenteric
vein

inferior mesenteric
vein

LYMPHATIC DRAINAGE

superior mesenteric
nodes

inferior mesenteric
nodes

NERVE SUPPLY

Same as Ascending (Midgut)

Same as descending (Hindgut)



BLOOD SUPPLY

Hepatic Artery
 ↳
 Right Branch left branch
 right lobe left/ caudate/ quadrate lobes

Hepatic Artery → Right branch → cystic Artery
 +
superior pancreaticoduodenal artery

• similar as duodenum
 superior & inferior
 (pancreaticoduodenal)

VENOUS DRAINAGE

• not precisely opposite of the arterial supply.

→ Right hepatic (right lobe)
 → Left hepatic (left lobe)
 → central hepatic (caudate/quadrate)
 } directly to inferior vena cava
 right atrium → lungs

cystic vein → right branch of portal vein

splenic → superior mesenteric

LYMPHATIC DRAINAGE

majority of liver → via porta hepatis to the liver
 hepatic lymph → celiac....
 Bare area → few vessels pass through the diaphragm → right lymphatic duct

cystic → hepatic → celiac

splenic → superior mesenteric → celiac

NERVE SUPPLY

sym → greater splanchnic nerves (T5-T9)
 (synapse)
 pathway: pre-ganglionic → celiac ganglion → post-gang →
 follow the hepatic artery to the liver
 Para sym → vagus nerve

• sym → para
 • hormonal reg. by CCK
 Released by duodenum in response to fatty changes
 ↓
 gall bladder contraction / sphincter relaxation of Oddi

sym → greater splanchnic (T5-T9)
 lesser splanchnic (T10-T11)
 pathway: pre-gang → celiac / superior
 (synapse)
 mesenteric ganglion → post-gang →
 follow the splenic & pancreaticoduodenal arteries
 para → vagus



BLOOD SUPPLY

splenic Artery ^{divides} → 5-6 branches at the hilum

VENOUS DRAINAGE

splenic vein

LYMPHATIC DRAINAGE

splenic → superior mesenteric → celiac

NERVE SUPPLY

^{symp} greater splanchnic nerve (T5-T9)

Pathway: preganglionic → celiac ganglion ^(sympse) post → follow the splenic A. to the spleen.

اللَّهُمَّ يَا مَغِيثَ أَغِثْ أَهْلَنَا فِي
غَزَّةَ، اللَّهُمَّ يَا جَبَّارَ اجْبِرْ أَهْلَنَا فِي
غَزَّةَ، اللَّهُمَّ طَمِّنْهُمْ وَامْنِهِمْ
وَأَعِزَّهُمْ وَانصِرْهُمْ وَكُنْ مَعَهُمْ
وَلَا تَكُنْ عَلَيْهِمْ، اللَّهُمَّ ارفَعْ
الْبَلَاءَ عَنْهُمْ وَعَنَّا، اللَّهُمَّ أَرِنَا
الْوَيْلَ بِأَعْدَائِنَا وَأَعِنَّا عَلَيْهِمْ.