

Single Branches of Abdominal Aorta.

Pairs Branches of Abdominal Aorta.

Other arteries supply the adrenal gland not directly from abdominal aorta.

5 – Abdominal Aorta: course

They all emerge from abdominal Aorta, which ends as Common iliac artery Course:

- \checkmark Enters the diaphragm at the mid line through Aortic opening in it at The level of T12.
- ✓ Descends behind the peritoneum on the anterior surface of the bodies of the lumbar vertebrae (it is retroperitoneal)
- ✓ End at the level of the 4th lumbar vertebra at the left side As common iliac artery
- \checkmark (just opposite to I.V.C. which starts at the level of 4th lumbar vertebra to the right)

✓ Relations:

Anterior:

- ✓ pancreas
- ✓ 3rd part of duodenum (horizontal part)
- ✓ Coils of small intestine
- ✓ Crossed by Lt. renal vein; to reach I.V.C. on the right side

Right:

- ✓ I.V.C
- ✓ Cisterna chvle
- \checkmark the start of thoracic duct and azygos vein

Left:

✓ left sympathetic chain

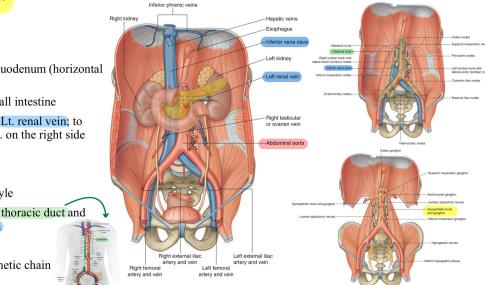
Common Iliac Artery

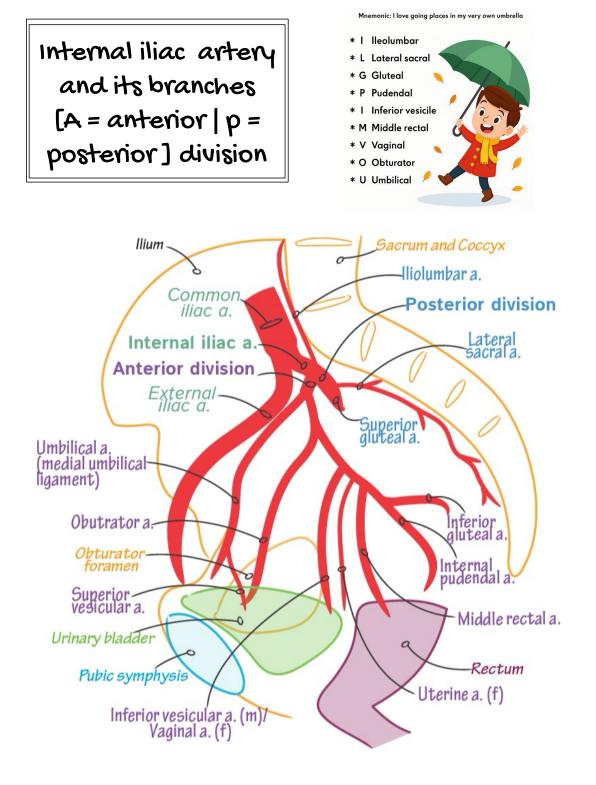
The abdominal aorta ends at the level of L4 (left side), where it divides into the right and left common iliac arteries.

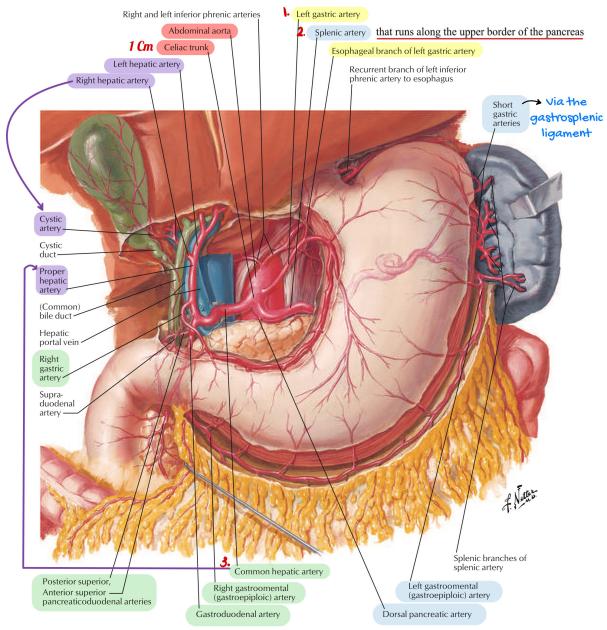
Each common iliac artery then divides near the pelvic inlet into:

External iliac artery and its branches.

Internal iliac artery and its branches [A = anterior | p = posterior]







The celiac trunk is very short (~1 cm) and arises at **the upper border of L1** (or sometimes noted as the lower border of T12 in some sources).

Branches of celiac trunk :

Left gastric and it's branches to the foregut .

splenic artery and its branches to the foregut .

Common hepatic artery and its branches to the foregut.

The Common hepatic artery continue as proper hepatic

Proper hepatic artery and its branches.

Superior Mesenteric Artery

- ✓ Origin: upper border of L2 or lower border of L1.
- ✓ Supplies the **midgut**.
- ✓ Branches:

Superior Mesenteric Artery main branches to the midgut.

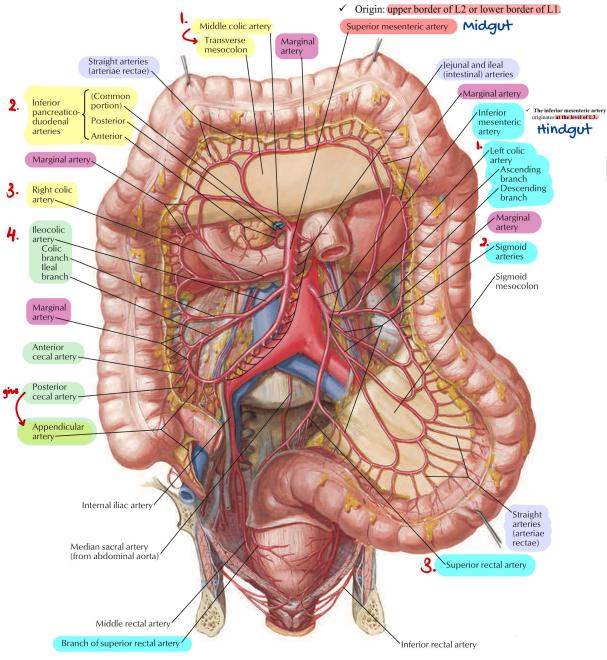
lleocolic artery branches.

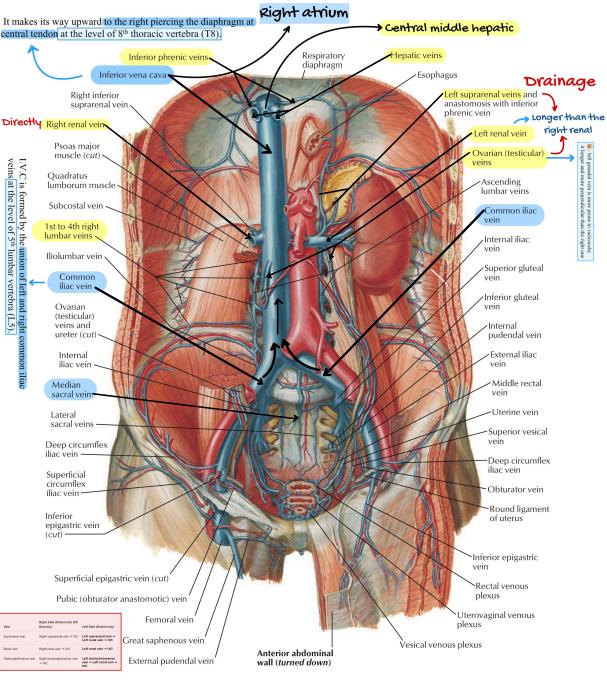
marginal artery.

Inferior Mesenteric Artery (IMA)

- ✓ The inferior mesenteric artery originates at the level of L3.
- ✓ It supplies the **hindgut**, including:

Inferior Mesenteric Artery main branches to the hindgut.



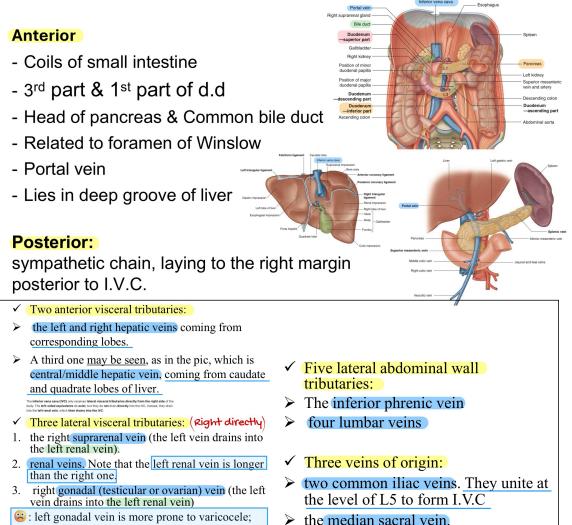


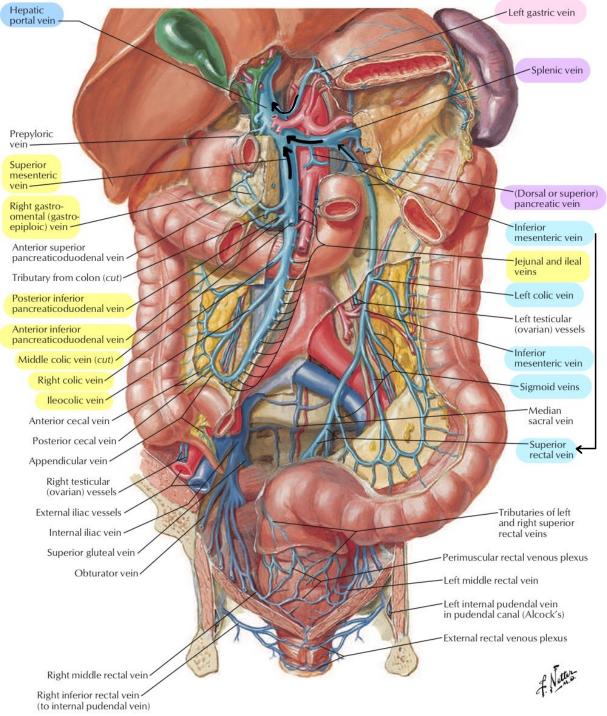


it longer and more perpendicular than the right one

- ✓ I.V.C is formed by the union of left and right common iliac veins at the level of 5th lumbar vertebra (L5).
- ✓ It makes its way upward to the right piercing the diaphragm at central tendon at the level of 8th thoracic vertebra (T8).
- ✓ It ends at the right atrium, as it drains most of the blood from the body below diaphragm.

10 - I.V.C: Relations





Portal Vein,

The superior mesenteric vein and its tributary.

The Inferior mesenteric vein and its tributary.

splenic vein and its tributaries.



