

Pancreas

Both exocrine & endocrine gland ^{→ 15 cm} 6 inches long.

- ^{like duodenum except 1st inch of the 1st part} Retroperitoneal except the tail part. ^{intra peritoneal : رتبه موجود داخل linorenal ligament}
- Extend along post abd wall from duodenum on the Rt, to spleen on Lt.

Exocrine:

Hydrolytic enzymes → duodenum
^{لے تسامع نی مضطاط}

Endocrine:

Islets of Langerhans (Insulin & Glucagon)

→ venous blood

^{* control sugar level of the blood}

Anatomy of Pancreas

4 parts Head, neck, body, tail

Head:

longest part

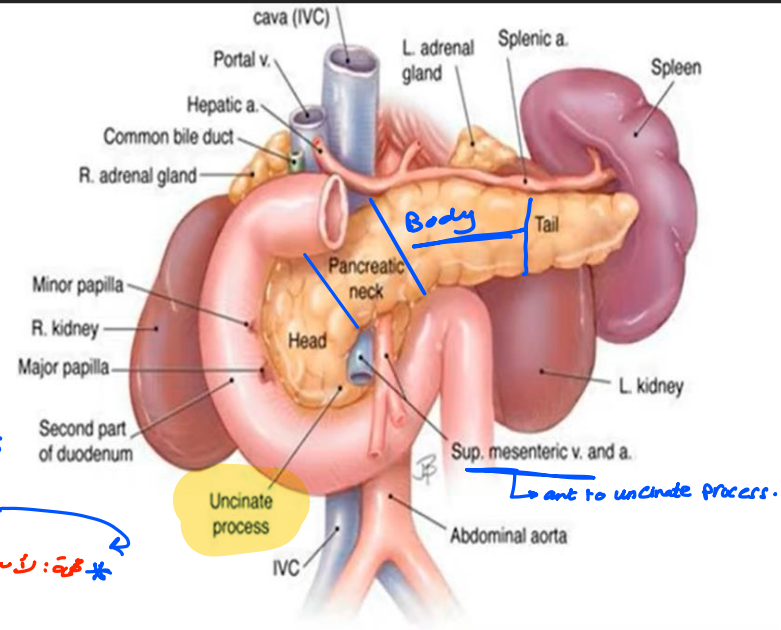
Disc shaped

within the concavity of the **duodenum**

(in close contact)

duodenal injury
injury
hook
accident - penetrating - wound trauma

1st, 2nd, 3rd, 4th parts



Uncinate process project from lower part of the head pos to **SMV**

Two struct. Infront of it T.Colon, SMV, Coils of small intestine.

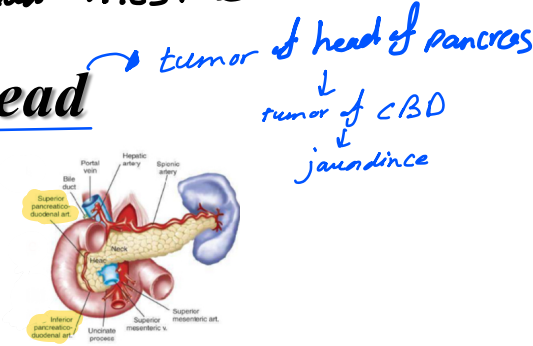
Three struc. Behind IVC, aorta, CBD in groove in head

Four struct. Around D1-D2-D3-D4

Head separated from D2 by Sup, inf PD Arteries

Neck:

gastroduodenal artery
sup. mesenteric artery



Constricted portion between head & body **one inch long**

Lies anterior to it SMA, and behind it the SMV, join splenic vein to form **portal v** behind neck of pancreas → liver

Arterial blood supply of the GIT

❑ **FOREGUT**-lower 1/3 of the esophagus down as far as the middle of the 2nd part of the duodenum.

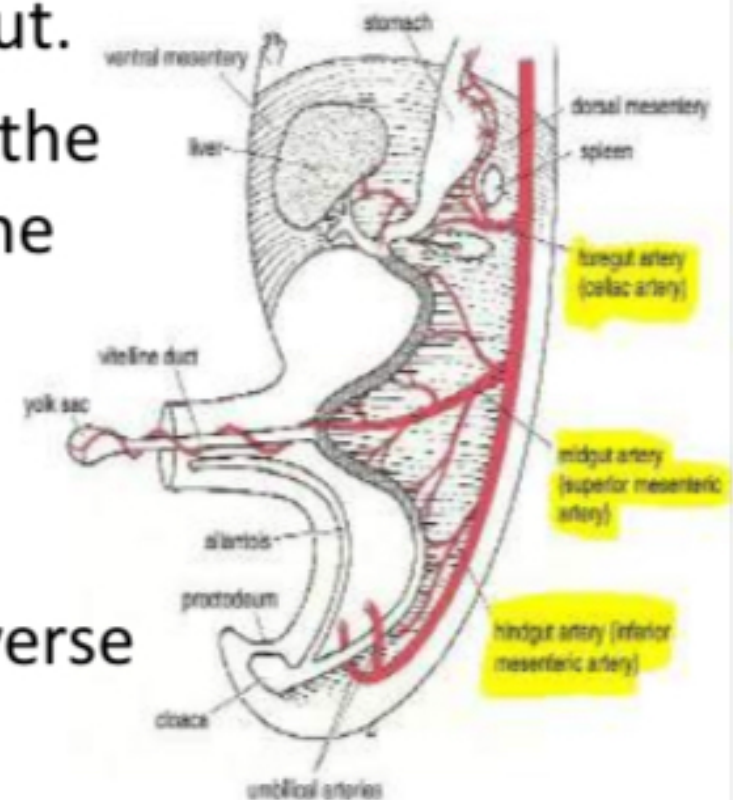
✓ The **celiac artery** is the artery of foregut.

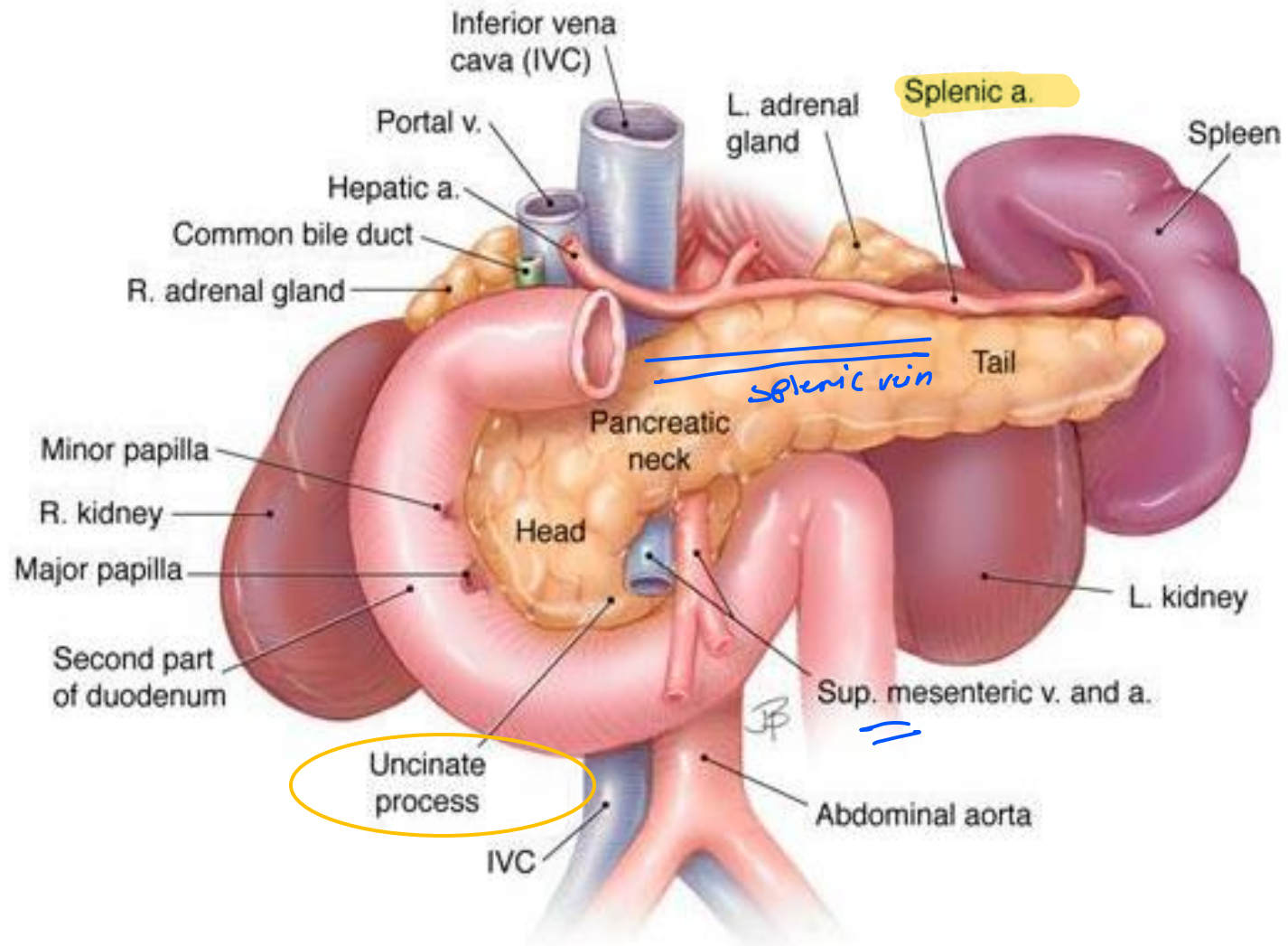
❑ **MIDGUT**-the middle of the 2nd part of the duodenum as far as the distal 1/3 of the transverse colon.

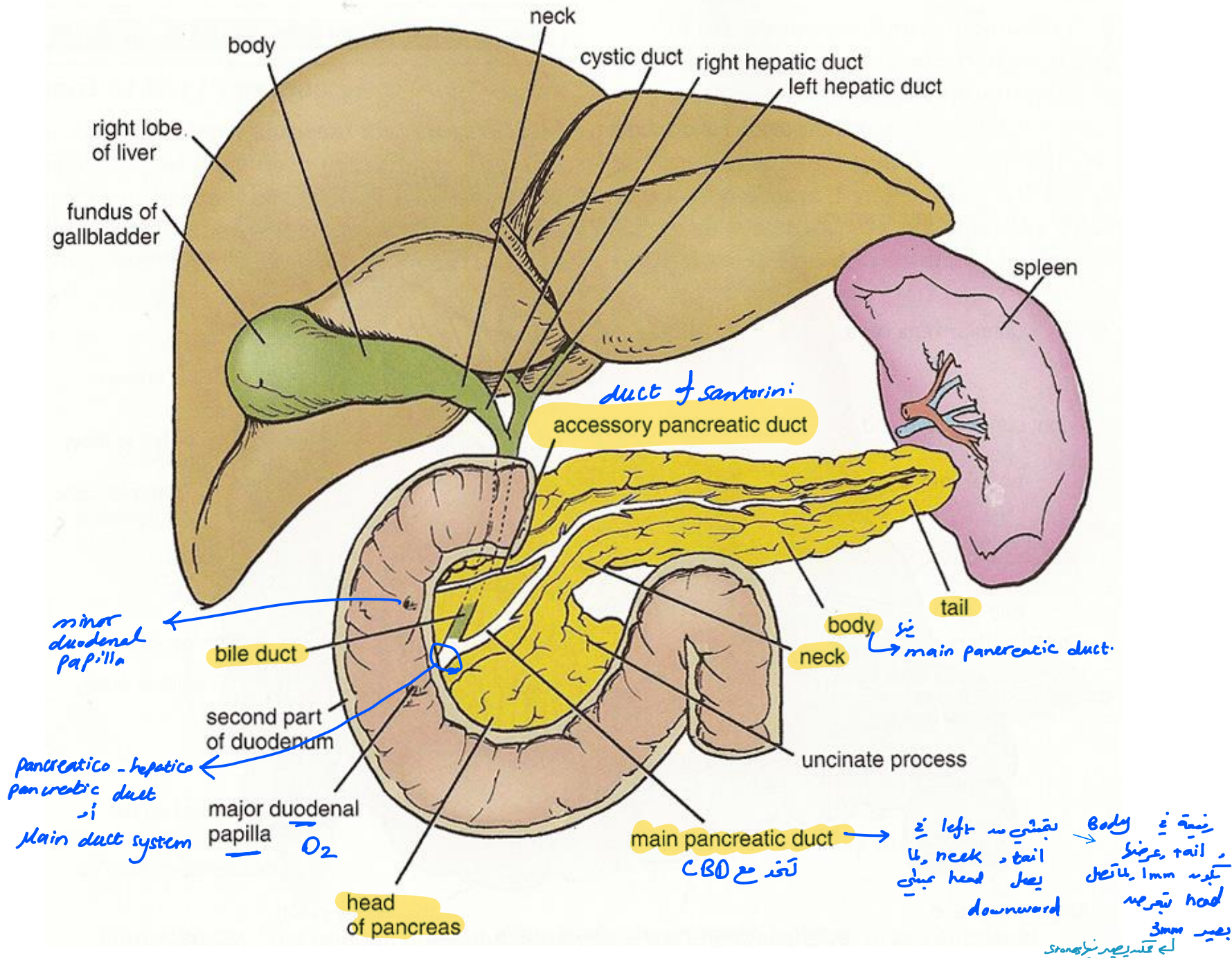
✓ The **superior mesenteric artery** is the artery of the midgut.

❑ **HINDGUT**-from the distal 1/3 of transverse colon to halfway down the anal canal.

• The **inferior mesenteric artery** is the artery of the hindgut.







* 2 Ligaments of Pancreas

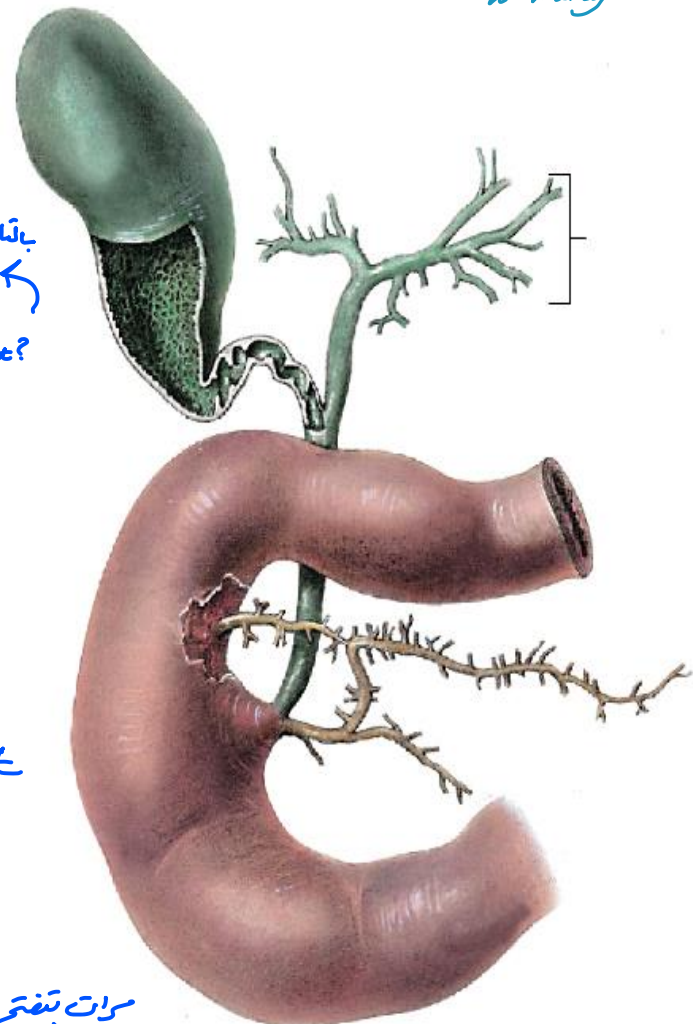
gastrosplenic
Ligament

stomach
splenic.

"splenorenal
Ligament

"linorenal
Ligament

spleen
le. kidney



Body:

largest part, Aorta and origin of SMV lie on Rt side post to body

Splenic artery run along **upper border**,

Transverse mesocolon is attached to **lower border**.

Tail:

Intraperitoneal between two layers of

Linorenal lig

* What structures are present in linorenal Ligament?
tail of pancreas, splenic artery + vein

In contact with the **Hilum of the Spleen** just above splenic flexure

Main pancreatic duct of Wirsung: begin in tail of panc, pass to Rt in body then downwards in head, to join CBD, open in post medial part of D2 below middle

Accessory pancreatic duct of Santorini: drain

Uncinate process and lower part of head, open in D2 one inch above main duct.

↓ in minor duodenal papilla

مکرات تفتیح
major pancreatic duct
minor duodenal papilla.