

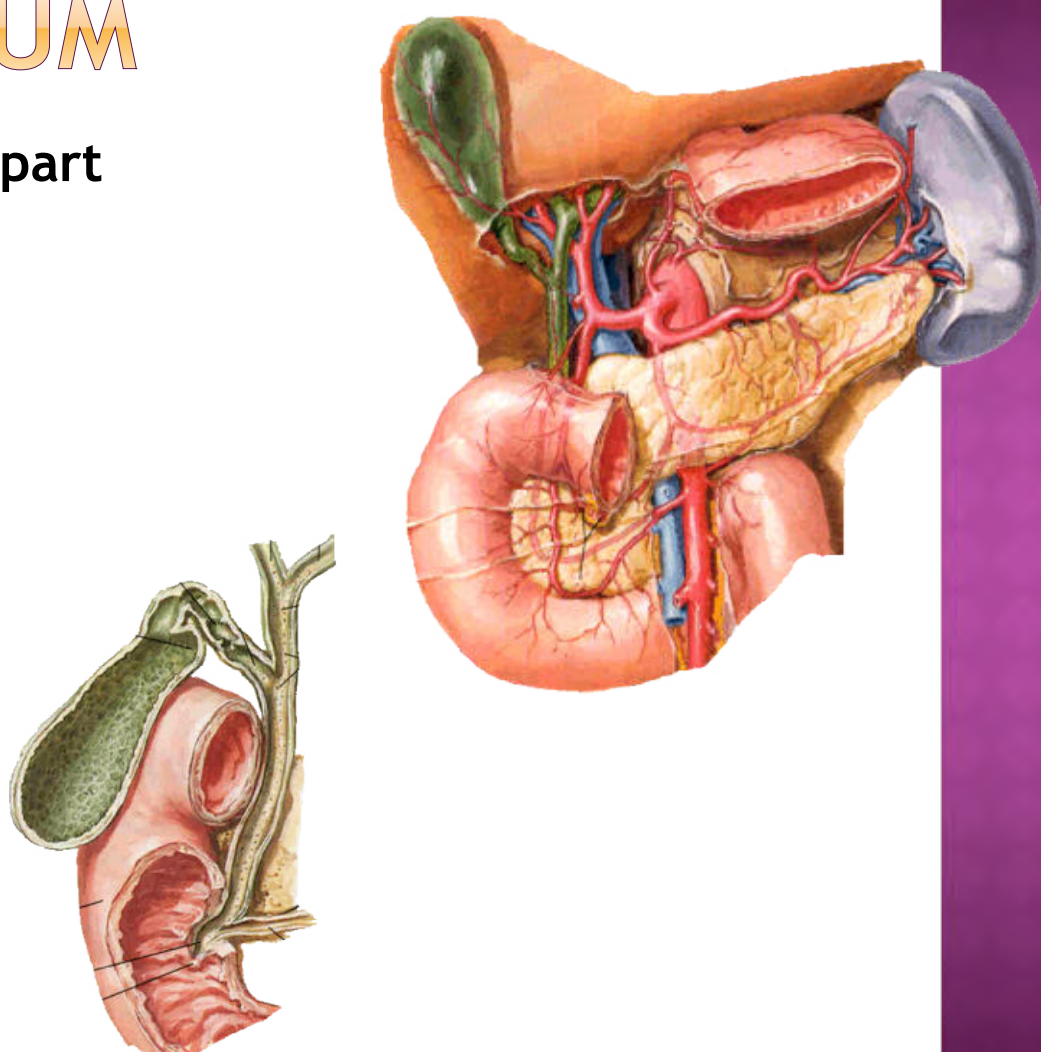
THE DUODENUM

- ◉ “*dudekadaktulos*”
- ◉ Shortest, widest & most fixed part of S.I.
- ◉ Extends- pylorus to duodenojejunal flexure
- ◉ C shape, Level of umbilicus- L1,2,3.
- ◉ 25 cm long- 5, 7.5, 10, & 2.5 cm.
- ◉ Mostly retroperitoneal & fixed.

THE DUODENUM

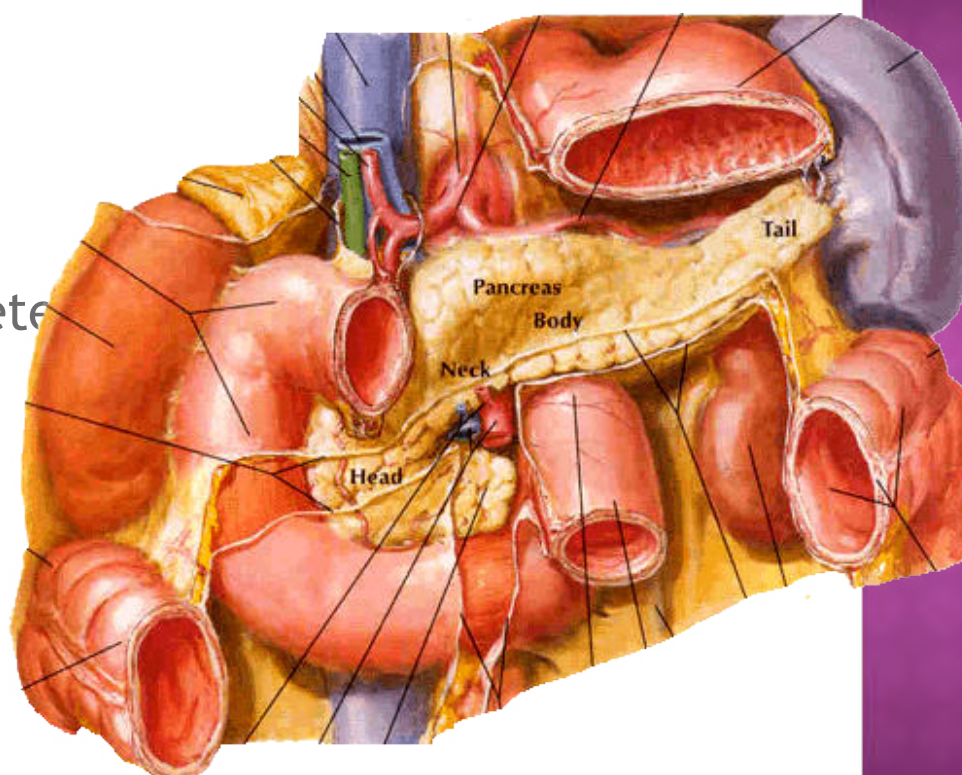
Relationships of superior part

- ◉ Anteriorly
 - Quadrate lobe of liver
 - Gallbladder
- ◉ Posteriorly
 - Common bile duct
 - Gastroduodenal a.
 - Portal v.
- ◉ Superiorly
 - Omental foramen
 - Hepatic art
- ◉ Inferiorly
 - Head & Neck of pancreas



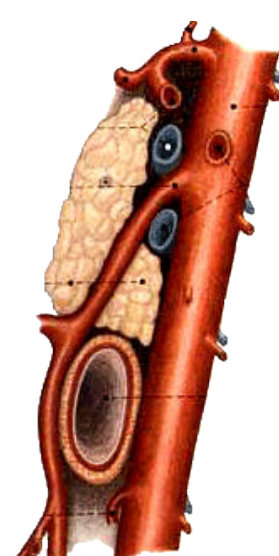
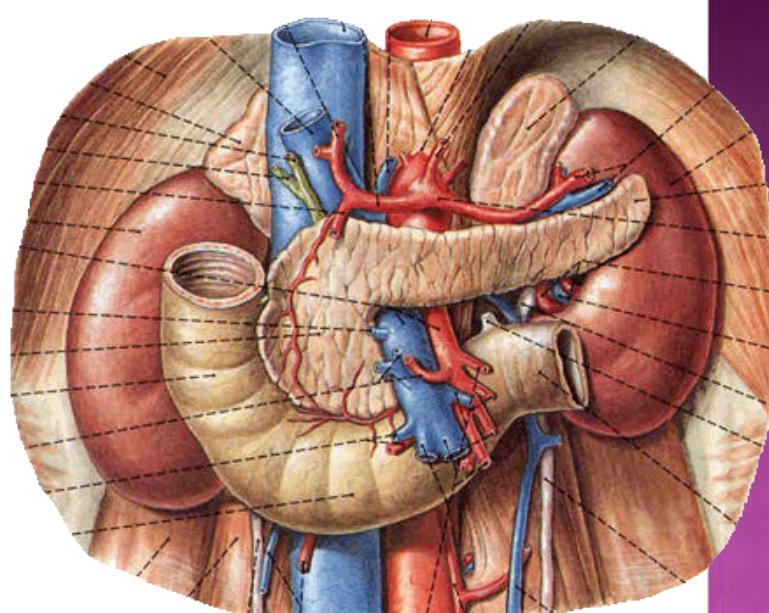
Relationships of descending part

- ◉ Anteriorly
 - Liver, Gall bladder
 - Transverse colon and mesocolon
 - Loops of small intestine
- ◉ Posteriorly
 - Right renal, hilum and ureter
 - Right renal vessels
 - IVC, Psoas major
- ◉ Medially
 - Head of pancreas
 - Common bile duct and pancreatic duct
- ◉ Laterally
 - Right colic flexure



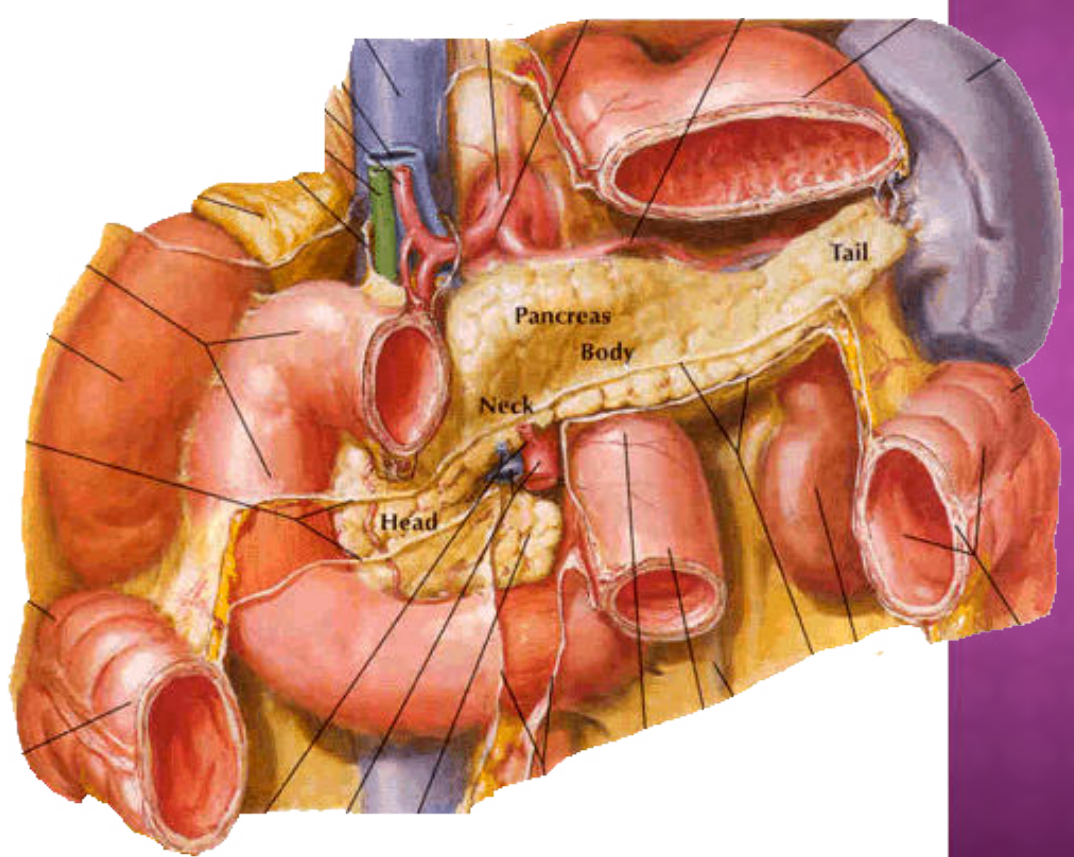
Relationships of horizontal part

- ◉ Superiorly
 - Head of pancreas, Uncinate process
- ◉ Inferiorly
 - Loops of small intestine
- ◉ Anteriorly
 - Radix of mesentery
 - Superior mesenteric a. and v.
- ◉ Posteriorly
 - Psoas major
 - Right ureter
 - Inferior vena cava
 - Abdominal aorta - testicular art, IMA



Relationships of ascending part

- ◉ Right
 - Head of pancreas and abdominal aorta
- ◉ Left
 - Left kidney and ureter



- ◉ **Ant.-** Transverse colon & meso., Lesser sac & stomach
- ◉ **Post.-** Lt. sympathetic chain, Lt. psoas major, Lt. renal vessels, Lt. testicular vessels & I.M.V.

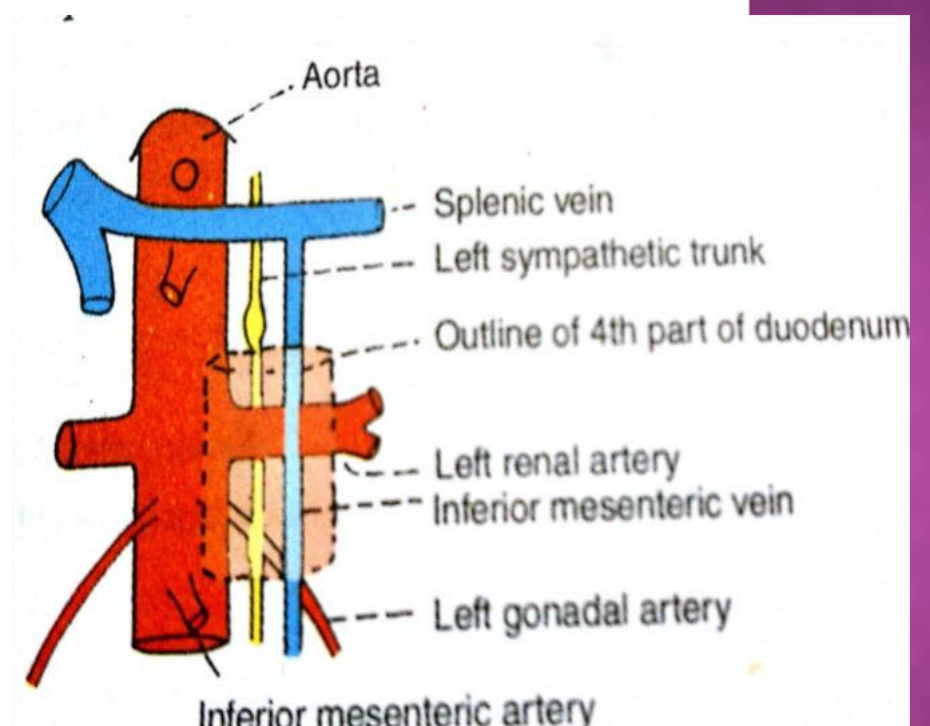
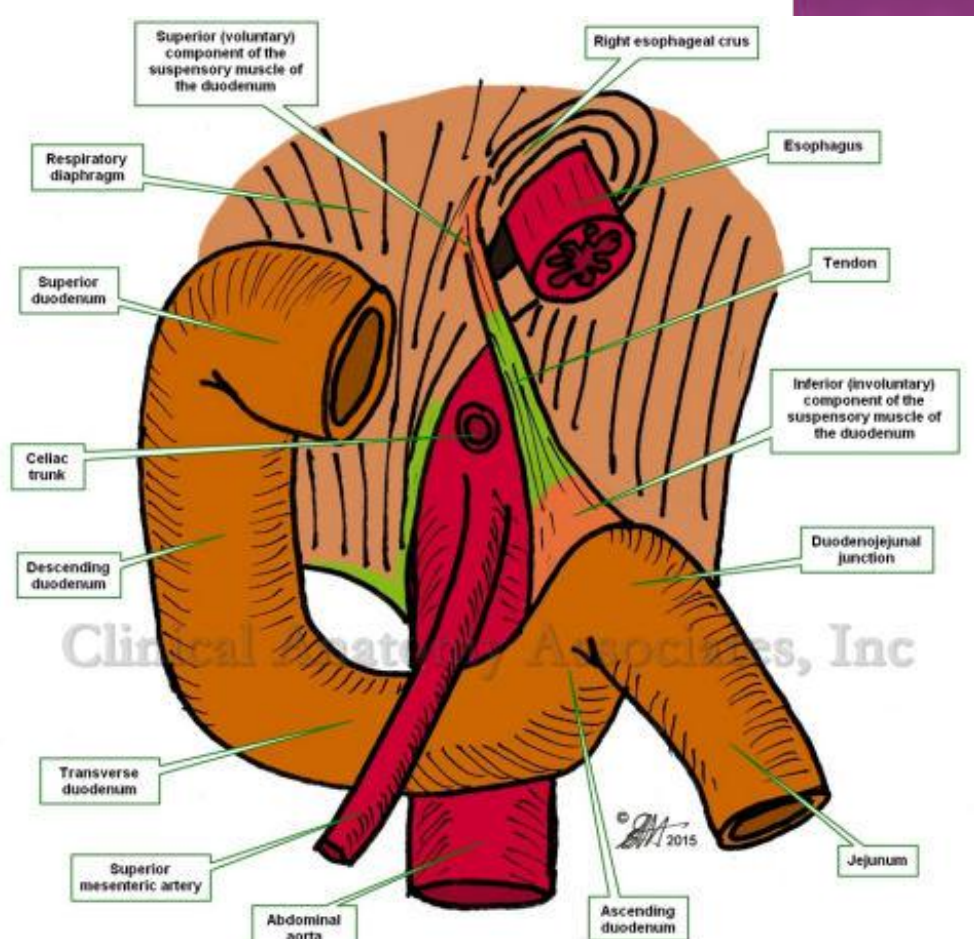


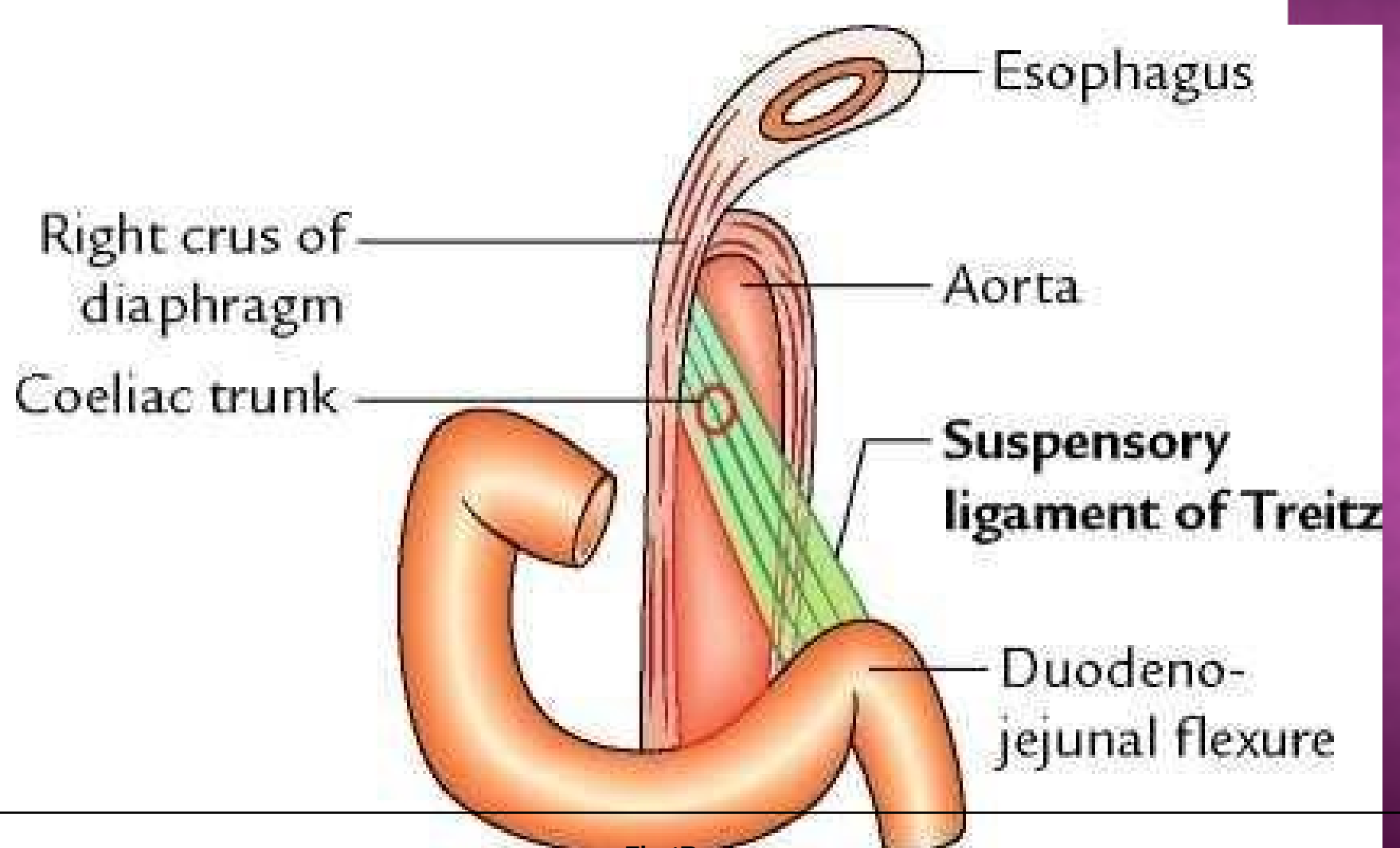
FIG. 7. Posterior relations of the fourth part of the duodenum.

SUSPENSORY MUSCLE OF DUODENUM LIGAMENT OF TREITZ

- ◉ Fibromuscular band which suspends & supports the duodenojejunal flexure.
- ◉ Arises from Rt. Crus of the diaphragm- DJ Flexure & 3rd - 4th part of duodenum.



LIGAMENT OF TREITZ

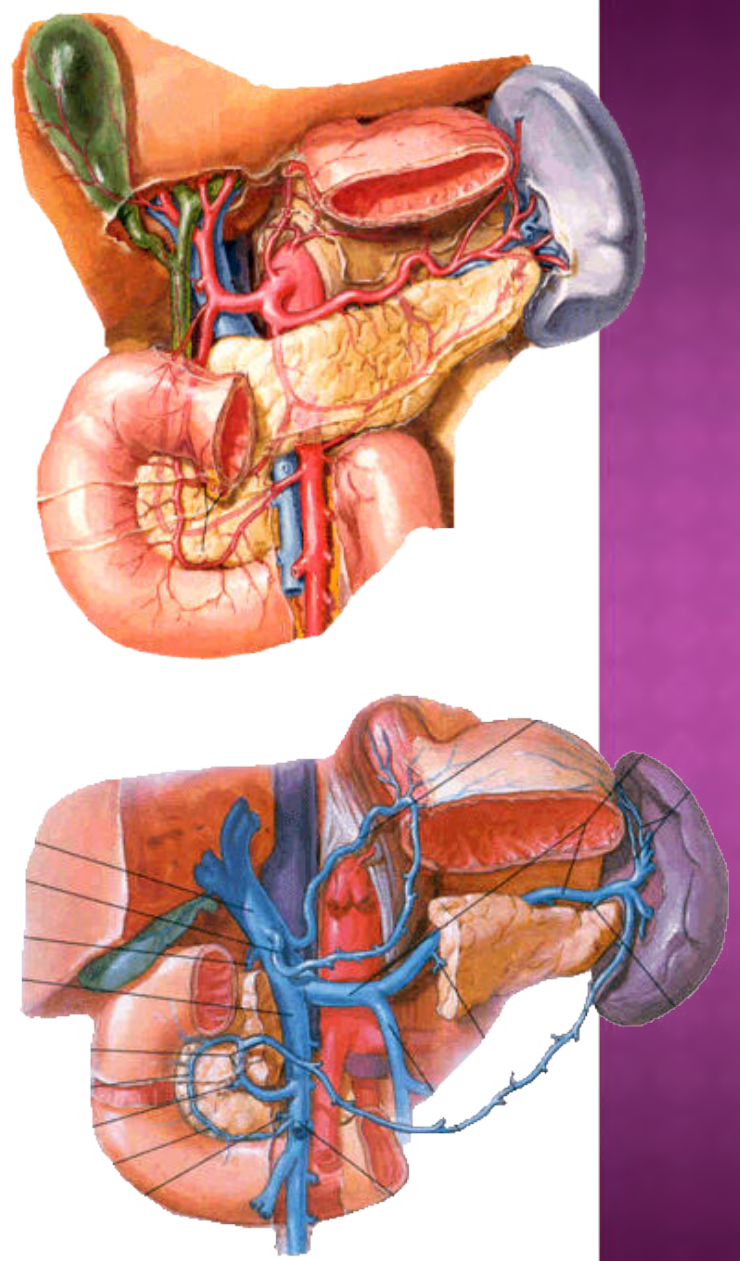


Blood supply

Arteries

- Superior pancreaticoduodenal a.
- Inferior pancreaticoduodenal a.
- 1st Part- Rt. Gastric a., supraduodenal a. of wilkie(hepatic a.)

- Veins — follow arteries, draining directly into superior mesenteric and hepatic portal veins



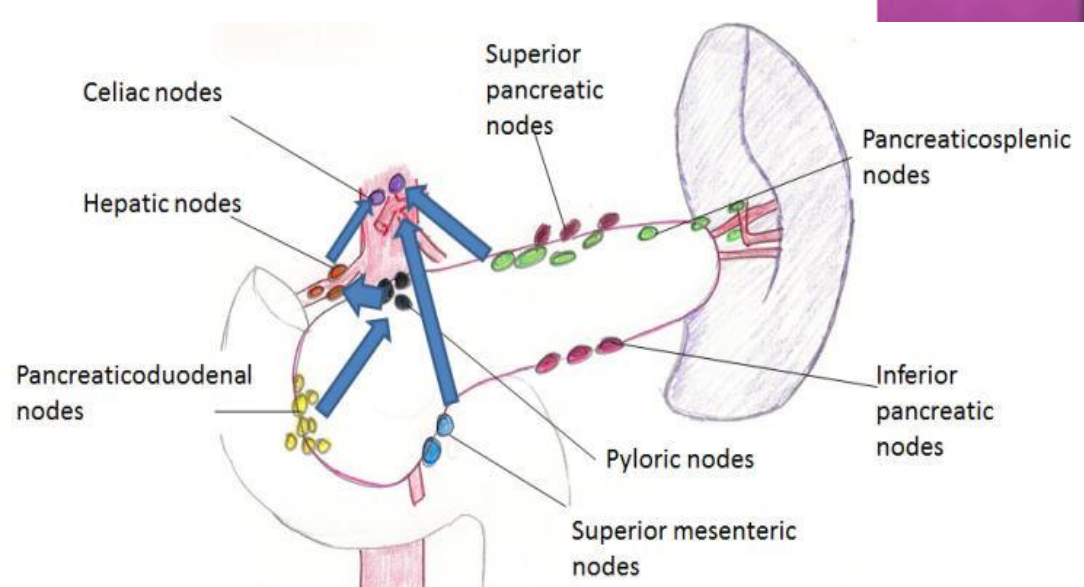
Lymphatic Drainage-

- Pancreaticoduodenal nodes

Hepatic nodes

Coeliac n. & Sup. Mes. N
int. lymph trunk

Cisterna chyli



- Nerve Supply-

- Sympathetic- T9 & T10

- Parasympathetic-

Vagus- coeliac plexus-
duodenum along its arteries.