

Relations of cecum :

Anteriorly:

- Coils of small intestine
- Greater omentum
- Anterior Abdominal wall
(In Right iliac region)

Medially:

- Small intestine (ileum)

Postero-Medially:

- Appendix

Posteriorly:

- psoas & iliacus muscles (iliopsoas)
- Femoral nerve
- lateral cutaneous nerve of the thigh.
- External iliac vessels → They'll form femoral Artery

Relations of Ascending colon:

Anteriorly:

- Coils of small intestine
- Greater omentum
- Anterior abdominal wall

posteriorly

- The iliacus
- iliac crest
- Quadratus Lumborum
- The origin of Transversus Abdominis ^{muscle}
- lower pole of Right kidney

from L1 {

- The iliohypogastric nerve
- The ilioinguinal nerves cross behind it.

Relations of Transverse colon:

Anteriorly:

- Greater omentum
- Anterior Abdominal wall (umbilical & hypogastric regions)

Posteriorly:

- 2nd part of duodenum.
- Head of pancreas
- The coils of jejunum & ileum

Relations of Descending Colon:

Anteriorly:

- coils of small intestine
- Greater omentum
- Anterior abdominal wall

Posteriorly

- The iliacus
- iliac crest
- Quadratus Lumborum
- The origin of Transversus Abdominis muscle
- lateral border of the left kidney

- from L1 {
- The iliohypogastric nerve
 - The ilioinguinal nerves cross behind it.
 - left psoas muscle
 - lateral cutaneous nerve of Thigh
 - femoral nerve

Relations of Abdominal Aorta: (Important)

Anterior:

- pancreas
- 3rd part of duodenum
- Coils of small intestine
- crossed by Left Renal vein.

Rt. side:

- inferior vena cava
- cisterna chyli
- The beginning of Azygos vein

Lt. side:

- Abdominal sympathetic chain

Relations of Inferior Vena Cava:

Anteriorly:

- coils of small intestine
- 1st & 3rd parts of duodenum
- Head of pancreas & common Bile duct
- foramen of Winslow
- portal vein
- lies in deep groove of liver

Relations of Omental bursa (Lesser sac)

Superior:

- Liver
- Diaphragm

Anterior:

- Two layers of Greater omentum.

Inferior:

- Area of Anterior & posterior two layers of greater omentum

Posterior:

- Two layers of Greater omentum
- Transverse colon
- Transverse Mesocolon

Left:

- Spleen
- Gastrosplenic ligament
- Splenorenal ligament

Right:

- Omental foramen.
(Epiploic foramen)

Relations of Epiploic foramen: (Important)

Anterior:

- free edge of lesser omentum
(Hepatic artery, portal vein & common bile duct).

Posterior:

- Inferior Vena Cava

Superiorly:

- Caudate process of liver

Inferiorly

- 1st part of duodenum

Relations of the liver :

Superior :

- Diaphragm
- pleura & lung
- pericardium & heart

Anterior :

- Diaphragm ^{separates the liver from}
- Right & left pleura and lung
- Costal Cartilage
- Xiphoid process
- Anterior abdominal wall

(Imp for practical Qs)

Postero-infero surface (visceral surface)

Right lobe :

- Right kidney
- Right suprarenal gland
- Right colic flexure
- Transverse colon
- Duodenum
- Inferior Vena Cava
- Gallbladder

In the Middle

- porta hepatic (hilum of liver)

Nerves
(symp & para)

Hepatic
Artery

portal
vein

Common
bile
duct

Hepatic
lymph
nodes

Left lobe :

- Esophagus
- Stomach
- pylorus

Relations of Caudate lobe:

Inferiorly:

- porta hepatic

Right:

- fossa for IVC

Left:

- fossa for ligamentum venosum

Relations of Quadrate lobe:

Anteriorly:

- Ant. margin of liver

Superiorly:

- porta hepatic

Right:

- fossa for gallbladder

Left:

- fossa for ligamentum teres

Relations of pancreas:

Anteriorly:

- Transverse colon
- Transverse mesocolon
- Lesser Sac
- Stomach

Posteriorly:

- Inferior Vena Cava
- Aorta
- Left suprarenal gland
- Left kidney

- Bile duct

- portal vein

- splenic vein

- origin of sup. mesenteric artery

- Left psoas muscle

- hilum of spleen

← لا يحاط بهن مراً معنا أثناء الشرح

Relations of Sigmoid:

Superior:

- coils of small intestine

Right:

- Small intestines

Posteriorly:

- Rectum
- Sacrum
- The lower coils of the terminal part of ileum
- Sacral plexus
- Lt. piriformis muscle
- Lt. external iliac vessels
- Lt. Ureter
- Lt. internal iliac artery

Inferior:

- Urinary bladder ♂
- Uterus ♀

Left:

- Left External iliac vessels
- lateral wall of pelvis
- Vas deference or ovary

Relations of Rectum:

Posteriorly:

- Sacrum & Coccyx
- periformis muscle
- Coccygeus muscle
- Levatores ani muscle
- Sacral plexus
- Sympathetic Trunk

Anteriorly ♂

upper 2/3 of Rectum (covered by peritoneum)

- Sigmoid
- coils of ileum
- pouch

Lower 1/3 of Rectum (devoid of peritoneum)

- Urinary bladder
- vas deference
- Seminal vesicles
- prostate

Anteriorly ♀

upper 2/3 of Rectum (covered by peritoneum)

- Sigmoid
- ileum
- Dogulus pouch

Lower 1/3 of Rectum (devoid of peritoneum)

- Related to posterior surface of vagina

Relations of Anal Canal:

Anteriorly

♀

- lower end of vagina
- perineal body

♂

- perineal body
- Membranous urethra
- Bulb of penis

Posteriorly:

- Anococcygeal Ligament
- Tip of coccyx

Laterally:

- ischiorectal fossa