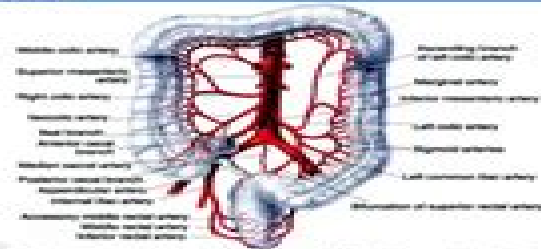


COLON, RECTUM & ANUS

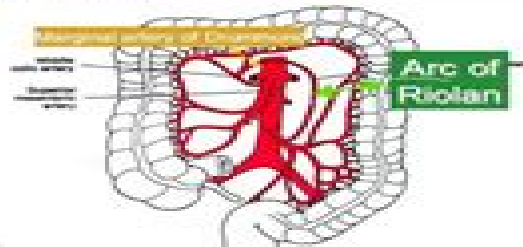
Dr. Manuel Pocidalo

ARTERIAL SUPPLY



- The colon is supplied by branches of the Superior Mesenteric Artery (SMA), Inferior Mesenteric Artery (IMA) and Internal Iliac.
- SMA gives rise to the MCA (supplies the transverse colon, fr. hepatic flexure to the splenic flexure) RCA (supplies the ascending colon and proximal hepatic flexure).
- Ileocolic artery supplies the terminal ileum, cecum and the proximal ascending colon.
- Inferior Mesenteric Artery (IMA) gives rise to Left Colic artery supplies the descending colon and distal splenic flexure.
- The Sigmoidal arteries supply the sigmoid and Superior Hemorrhoidal Artery supplies the Proximal Rectum.
- The Proximal rectum is additionally supplied by the middle hemorrhoidal arteries w/c arises from the internal iliac arteries bilaterally.
- A rich network of anastomatic connections exists among the various arterial pedicles.

COLLATERAL CIRCULATION



- **Marginal artery of Drummond** arcades of arteries along mesenteric border, [connects superior and inferior mesenteric arteries].
- **Arc of Riolan** (Meandering mesenteric artery) short loop connecting the left branch of MCA to IMA.
- A series of arcades of arteries along the mesenteric border of the entire colon.
- It is a branch that connects the superior and inferior mesenteric arteries, this are constant and rarely incomplete.
- Ligation of the IMA in performing rectosigmoidectomy can keep the left colon viable via the marginal artery.
- The Arc of Riolan (Meandering Mesenteric artery) w/c is present in 7%.
- of individuals is a short loop connecting the left branch of the MCA and the trunk of the IMA.



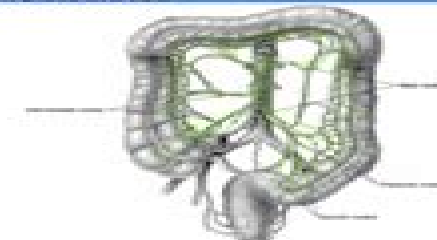
If SMA is stenotic, the Celiac and inferior Mesenteric artery provide the main collateral flow necessary for the viability of the small intestine and the right colon, if IMA is stenotic the SMA provides the main collateral flow necessary for the viability of the left colon and the rectum.

VENOUS DRAINAGE



Veins from the Right Colon and Transverse Colon → SMV (Superior Mesenteric Vein) joins Splenic Vein → Portal Vein
Superior rectal + Sigmoid + Left colic veins → IMV and drains into the Splenic Vein

LYMPHATIC DRAINAGE



- Colonic Lymph Nodes are divided into 4 grps. EPICOLIC lie in the bowel wall and in the appendices epiplocae
- PARACOLIC lie along the inner margin of the bowel from the ileocolic angle to the rectum, between the intestine and the marginal artery. INTERMEDIATE lie around the main colic arteries before the point of division. MAIN lie along the Superior and inferior mesenteric vessels.

COLON NERVE SUPPLY

Sympathetic nerves (inhibitory) T8-T12 and L1-L3
Parasympathetic nerves (stimulatory) S2-S3 and S4 (Nervi erigentes)

AUTONOMIC PELVIC NERVES

- Superior Hypogastric Plexus (T12-L3) (Sympathetic) = Hypogastric Nerve
- Nervi Erigentes (S2-S3-S4) (Parasympathetic)
- Hypogastric Nerve + Nervi Erigentes → Inf Hypogastric Plexus
- Supply the anorectum and urogenital organs

Surgery Of The Colon Rectum And Anus

S Marginson



Surgery Of The Colon Rectum And Anus:

The book delves into Surgery Of The Colon Rectum And Anus. Surgery Of The Colon Rectum And Anus is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Surgery Of The Colon Rectum And Anus, encompassing both the fundamentals and more intricate discussions.

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