RECTUM

Rectum is distal part of large gut.

Situation

- Rectum is situated in posterior part of lesser pelvis, in front of lower 3 pieces of sacrum and coccyx.
- It is placed between sigmoid colon above and snap canal below.
- The 3 cardinal features of large intestine, e. g. sarculation, appendices epiploicae and taenia, are absent in rectum.

Extent

- Rectum begins as continuation of sigmoid colon at level of 3 sacral vertebra.
- Rectosigmoid junction is indicated by lower end of sigmoid mesocolon.
- Rectum ends by becoming continuous with snap canal at anorectal junction.
- Junction lies 2 to 3 CM in front of and little below the tip of coccyx.
- In male, junction corresponds to apex of prostate.

Course and Direction

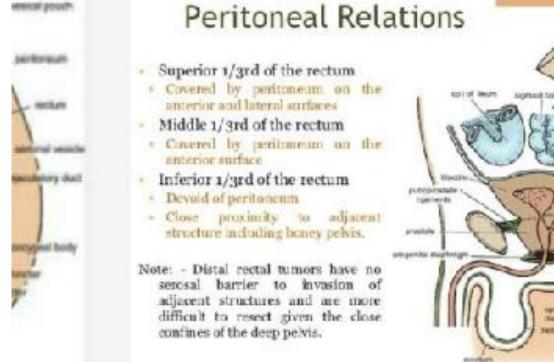
Two anteroposterior curves

- The sacral glacier of rectum follows the concavity of sacrum and coccyx.
- The perineal glacier of rectum is backward bend at anorectal junction.

Three lateral curves

- The upper lateral curves of rectum is convex to right.
- The middle lateral curve is convex to left and most prominent.
- The lower lateral curve is convex to right.

Relation



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Posteriorly

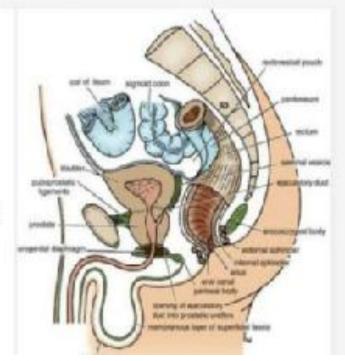
microsom

citouterine pouch

 Sacrum and coccyx; piriformis, coccygeus, and levatores ani muscles; the sacral plexus and the sympathetic trunks

Anteriorly (male)

- Upper 2/3 sigmoid colon and coils of ileum that occupy the rectovesical pouch
- Lower 1/3 third posterior surface of the bladder, to the termination of the vas deferens and the seminal

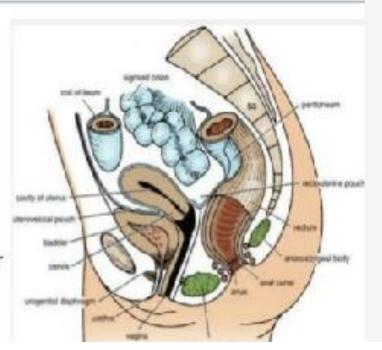


Covere anterio

- Middle
- Covere anterio
- Inferio
 - Devoid
 - Close structu

Note: - Di serosal adjacent difficult confines

- Anteriorly (female)
 Upper 2/3 the sigmoid colon and coils of ileum that occupy the rectouterine pouch (pouch of Douglas)
 - Lower 1/3 posterior surface of the vagina



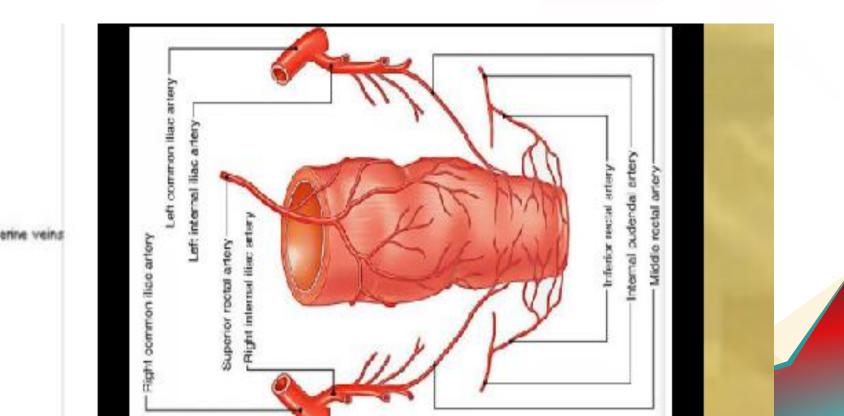
Mucosal fold

- Iongitudinal fold are transitory.
- present in lower part of empty rectum, and are obliterated by distension.
- Transverse or Horizontal fold or Houston valves or Plicae trabsversales are permanent and most marked when rectum is distended.
- (1) The first transverse fold lies near upper end of rectum, and projects from left wall situated 7.5 CM above anus.
- ♦ (2) The second transverse fold, largest and most

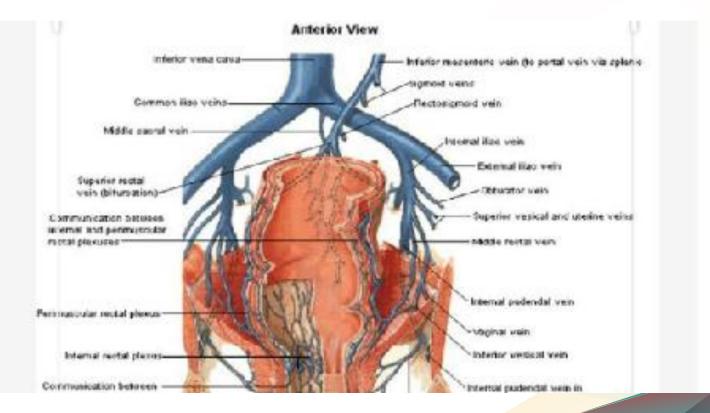
Functional parts of rectum

- ♦ The rectum has 2 developmental parts.
- The upper part related to peritoneum develop from the handful and lies above the 3 transverse fold of rectum.
- The lower part devoid of peritoneum develops from cloaca and lies below 3 transverse fold.
- The sigmoid colon is faecal reservoir and whole of rectum is empty in normal individuals, being sensitive to distension.

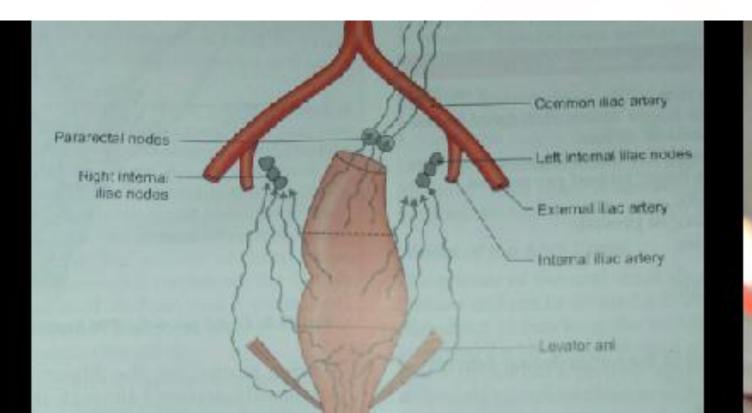
Arterial supply



Venous drainage



Lymphatic drainage



Nerve supply

Sympathetic

 This nerves are vasoconstrictor, inhibitory to rectum musculature and motor to internal sphincter

Parasymphatic

This nerves are motor to musculature of rectum and inhibitory to internal sphincter

Supports of rectum

- Pelvic floor
- ✤ Fascia of waldeyer
- ♦ Lateral ligaments of rectum
- Rectovesical fascia of Denonvilliers
- Pelvic peritoneum
- Perineal body

Clinical Anatomy

Digital per rectum examination Proctoscopy and sigmoidoscopy Prolapse of rectum Neurological disturbances of rectum

Carcinoma of rectum