

Intestine

- It is a tube extend from the stomach to the anus.
- It is main function is absorption and digestion.
- It is divided into:
- Small intestine & Large intestine.
- Small intestine: is the tube which connects the stomach with the large intestine suspended by the mesentery.
- In general it is divided into :-duodenum, Jejunum, Ileum.

Duodenum:-

- It is first part of small intestine.
- It is U-shape.
- Consist of cranial part and caudal part.
- The cranial part has cranial flexure.
- The caudal part consist of descending & ascending duodenum both have caudal flexure are embraced the pancreas.

Jejunum:-

- The second part of small intestine.
- It is a largest part about 90% of the total length of small intestine.
- It has long mesentery.
- It is usually empty in dead animal.

Ileum:-

- It is striated tube.
- It is last part of small intestine.
- It is smallest and shortest part of small intestine.
- Has a thick wall and connected with first part of large intestine (cecum), ileo ceco fold.
- It empty into large intestine.

Large intestine:-

- The large intestine extends from the termination of the ileum to the anus.
- It is consist of cecum, colon (ascending colon, transeverse colon and descending colon) and rectum.

Cecum of the Horse

- It's Coma shaped.
- It has sacculatation.
- Located in the right side of the abdomen cavity.
- Consist of base, body, apex.
- It has 4 muscular bands (dorsal, ventral, lateral, medial).
- It has two orifice: Ileo-cecal orifice and ceco-colic orifice.

Cecum of the Ruminant

- Cylindrical in shape .
- There is no muscular bands and there is no sacculatation.
- Consist of base, body, apex.
- Has one common orifice: Ileo-ceco-colic orifice.

Cecum of the Dog

- Small in size.
- It is spiral in shape.
- Pointed and blind end.
- Has no muscular bands and no sacculations.
- Has common opening: Ileo-ceco-colic orifice.

Colon of horse

- It is consist of ascending, transverse and descending colon.

Ascending colon formed from 4 parts & 3 flexure.

- Right ventral part of colon
- Left ventral part of colon
- Left dorsal part of colon
- Right dorsal part of colon
- sternal flexure
- pelvic flexure
- diaphragmatic flexure.

Transverse colon:-

- Small part 15-20cm directed from right to left near the pelvic inlet.
- It has sacculatation and muscular band.

Descending colon:-

- It has sacculatation and muscular band.
- It's directed caudally to attach with rectum.

Colon of the Ruminant

Ascending colon formed from:

- Proximal ansa (ansa proximalis)
- Centripetal anas
- Ansa centralis
- Centrifugal ansa
- Distal ansa (ansa distalis)

Transevers colon:

- Short part 10 cm.
- Directed from left part to right part.

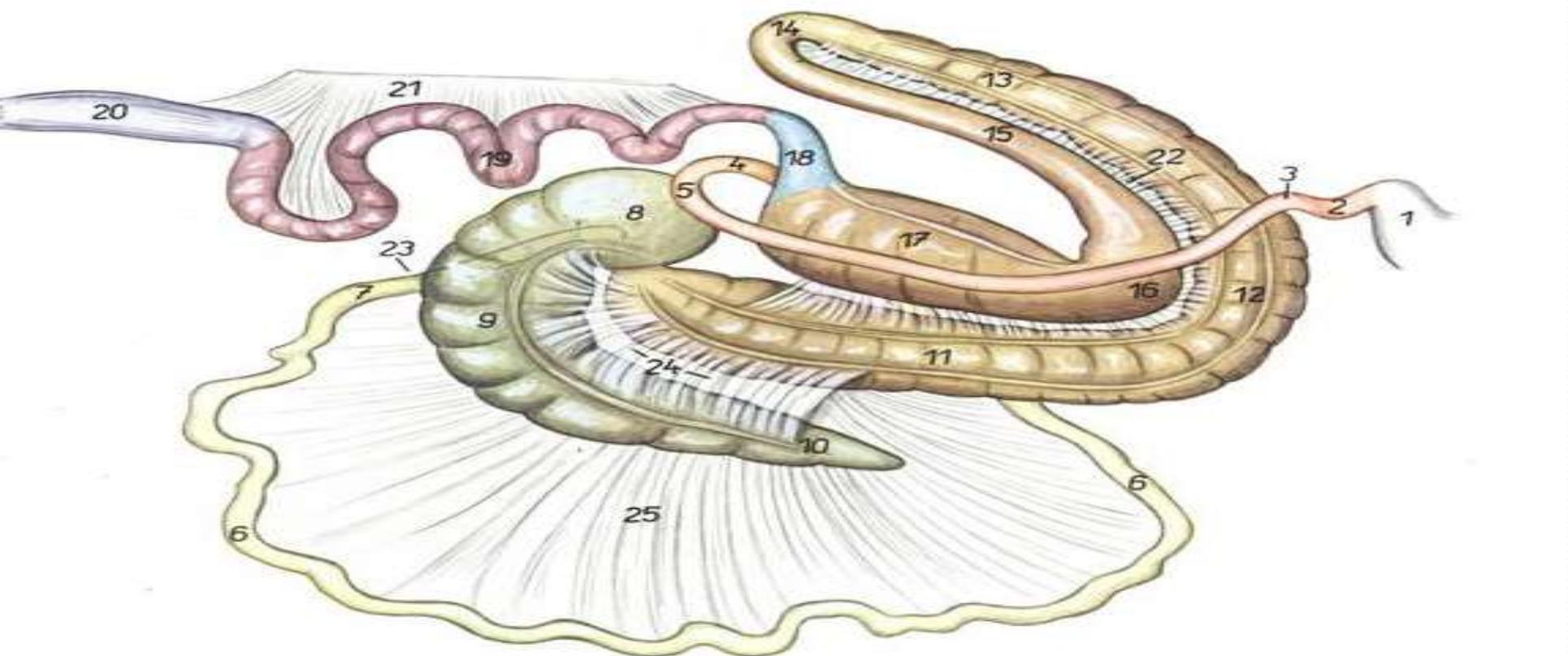
Descending colon:

- The last part which connected with rectum.

Rectum:- is the terminal part of the bowel it extends from the pelvic inlet to the anus.

Anus:- is the terminal part of the alimentary canal. It is situated below the root of the tail. It is covered externally by an integument which is thin, hairless, and provided with numerous sebaceous and sweat glands.

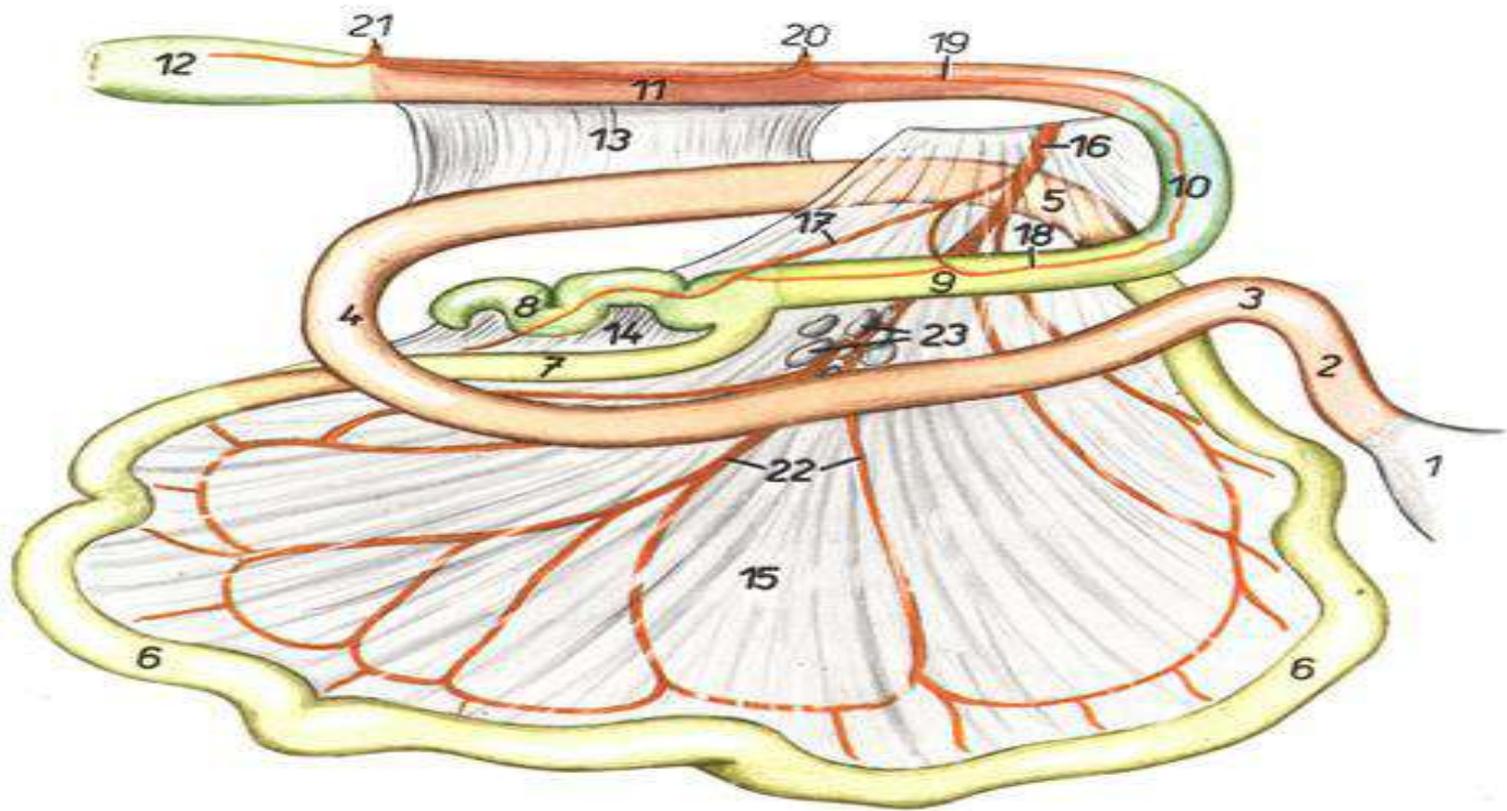
Figure 166



1. *ventriculus (gaster)* — ventriculus (stomach)
- 2, 3, 5. *duodenum* — duodenum
2. *pars cranialis duodeni* — cranial part of duodenum
3. *flexura duodeni cranialis* — cranial duodenal flexure
4. *flexura duodenojejunalis* — duodenojejunal flexure
5. *flexura duodeni caudalis* — caudal duodenal flexure
6. *jejunum* — jejunum
7. *ileum* — ileum

- 8—10. *caecum* — cecum
8. *basis caeci* — base of cecum
9. *corpus caeci* — body of cecum
10. *apex caeci* — apex of cecum
- 11—17. *colon crassum* — great colon
11. *colon ventrale dextrum* — right ventral colon
12. *flexura sternalis coli* — sternal flexure of colon
13. *colon ventrale sinistrum* — left ventral colon
14. *flexura pelvica* — pelvic flexure
15. *colon dorsale sinistrum* — left dorsal colon
16. *flexura diaphragmatica coli* — diaphragmatic flexure of colon

17. *colon dorsale dextrum* — right dorsal colon
18. *colon transversum* — transverse colon
19. *colon tenue* — small colon
20. *rectum* — rectum
21. *mesocolon ascendens et mesorectum* — descending mesocolon and mesorectum
22. *mesocolon ascendens* — *plica intercolica* — ascending mesocolon — intercolic fold
23. *plica ileocecalis* — ileocecal fold
24. *plica cecocolica* — cecocolic fold
25. *mesojejunum* — mesojejunum



Intestine-carnivores

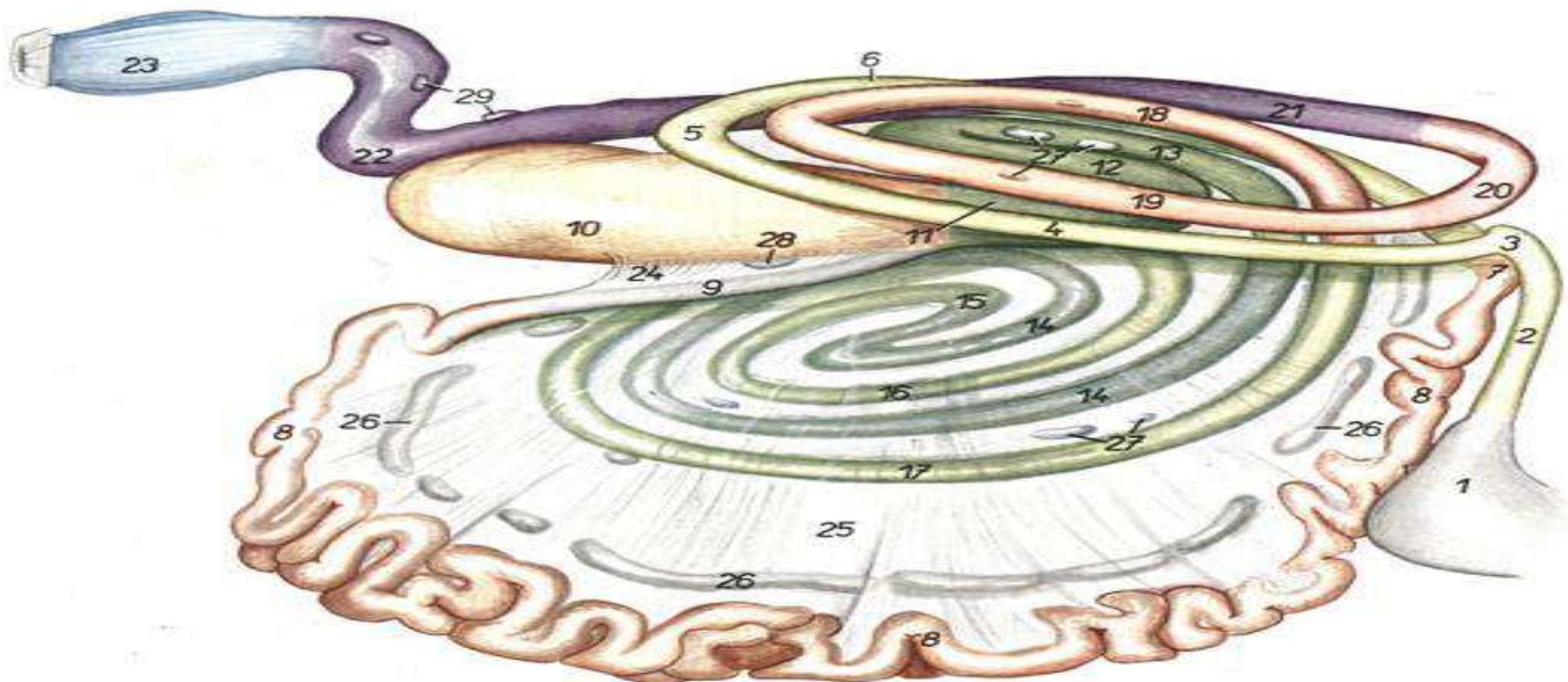
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- 4. *flexura duodeni caudalis* – caudal duodenal flexure
- 5. *flexura duodenojejunalis* – duodenojejunal flexure

- 6. *jejunum* – jejunum
- 7. *ileum* – ileum
- 8. *caecum* – cecum
- 9. *colon ascendens* – ascending colon
- 10. *colon transversum* – transverse colon
- 11. *colon descendens* – descending colon
- 12. *rectum* – rectum
- 13. *plica duodeno-colica* – duodeno-colic fold
- 14. *plica ileo-caecalis* – ileo-caecal fold
- 15. *mesojejunum* – mesojejunum

- 16. *a. mesenterica cranialis* – cranial mesenteric artery
- 17. *a. ileocolica* – ileocolic artery
- 18. *a. colica dextra* – right colic artery
- 19. *a. colica sinistra* – left colic artery
- 20. *a. mesenterica caudalis* – caudal mesenteric artery
- 21. *a. rectalis caudalis* – caudal rectal artery
- 22. *aa. jejunales* – jejunal arteries
- 23. *lnn. jejunales* – jejunal lymph nodes

Bovine. Intestinal tract, right view. Partially schematic.

Figure 57



1. abomasum — abomasum
2. *G. duodenum* — duodenum
3. *flexura duodeni cranialis (ansa sigmoidea)* — cranial flexure of duodenum (sigmoid ansa)
4. *pars descendens duodeni* — descending part of duodenum
5. *flexura duodeni caudalis* — caudal flexure of duodenum
6. *pars ascendens duodeni* — ascending part of duodenum
7. *flexura duodenojejunalis* — duodenojejunal flexure
8. jejunum — jejunum
9. ileum — ileum

10. caecum — cecum
- 11.—13. *colus ascendens* — ascending colon
- 11.—13. *ansa proximalis coli* — proximal ansa of colon
11. *gyrus ventralis anse proximalis* — ventral gyrus of proximal ansa
12. *gyrus medius anse proximalis* — middle gyrus of proximal ansa
13. *gyrus dorsalis anse proximalis* — dorsal gyrus of proximal ansa
- 14.—17. *ansa spiralis coli* — spiral ansa of colon
14. *gyri centripetales* — centripetal gyri
15. *flexura centralis* — central flexure
- 16, 17. *gyri centrifugales* — centrifugal gyri
17. *gyrus centrifugalis ultimae* — terminal centrifugal gyrus

- 18, 19. *ansa distalis coli* — distal ansa of colon
18. *gyrus dorsalis anse distalis* — dorsal gyrus of distal ansa
19. *gyrus ventralis anse distalis* — ventral gyrus of distal ansa
20. *colus transversus* — transverse colon
- 21, 22. *colus descendens* — descending colon
21. *colus descendens* — descending colon
22. *colus sigmoideus* — sigmoid colon
23. rectum — rectum
24. *plicae ileocecalis* — ileocecal fold
25. *mesojejunum* — mesojejunum
26. *lun. jejunoles* — jejunal lymph nodes
27. *lun. cecali* — cecal lymph nodes
28. *lun. cecalis* — cecal lymph node
29. *lun. mesenterici caudales* — caudal mesenteric lymph nodes