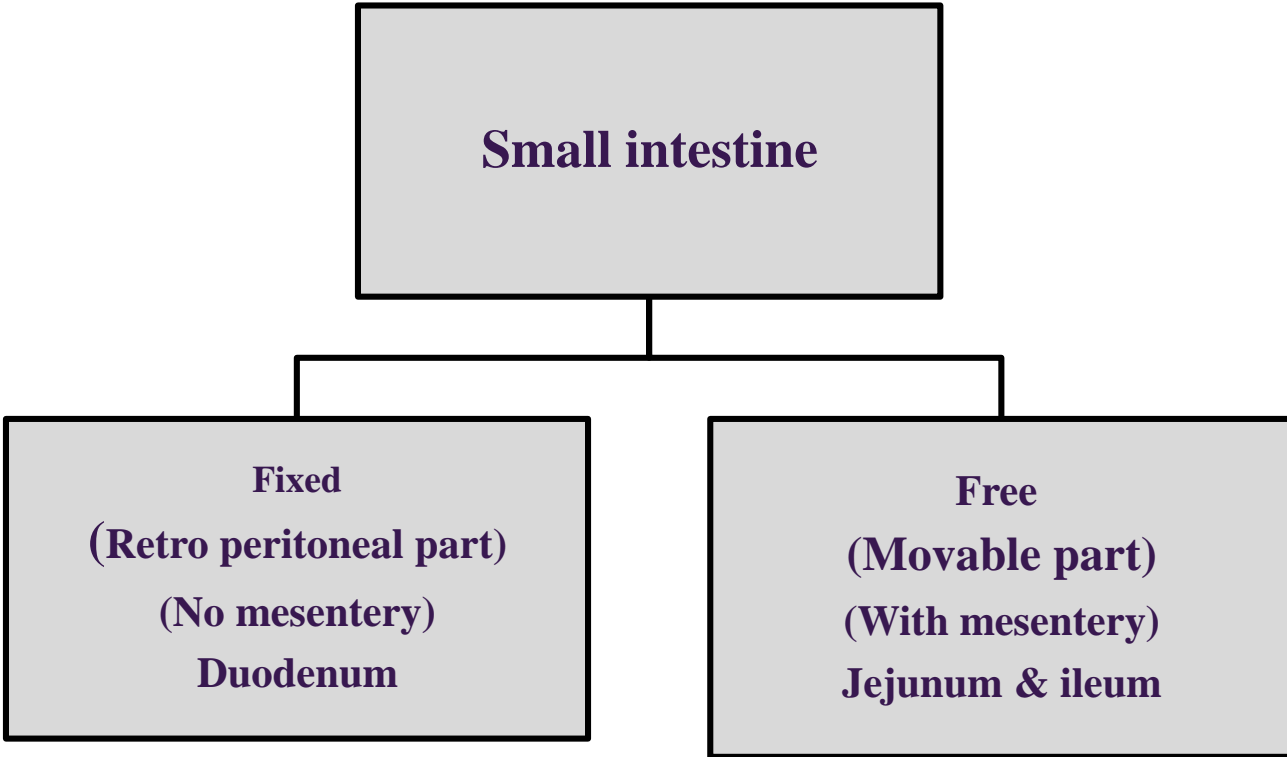




Anatomy of the small intestine

Make sure you check this [Correction File](#) before going through the content





Duodenum

Shape C-shaped loop

Length 10 inches

Beginning At pyloro-duodenal junction

Termination At duodeno-jejunal flexure

Peritoneal covering Retroperitoneal

Divisions 4 parts

Embryologic origin Foregut & midgut

Lymphatic drainage Celiac & superior mesenteric

Arterial supply Celiac & superior mesenteric

Venous Drainage Superior mesenteric & Portal veins

Duodenal parts

Part

Length

Level

FIRST PART
(Superior)

2 INCHES

L1
(Transpyloric Plane)

SECOND PART
(Descending)

3 INCHES

DESCENDS
FROM L1 TO
L3

THIRD PART
(Horizontal)

4 INCHES

L3 (SUBCOTAL
PLANE)

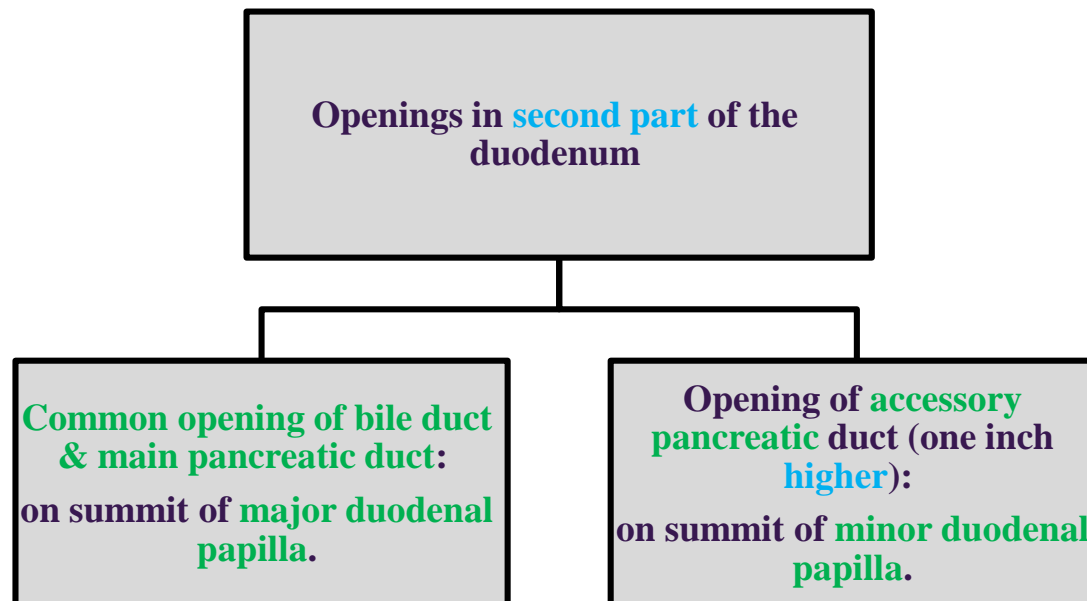
FOURTH PART
(Ascending)

1 INCHES

ASCENDS
FROM L3 TO
L2

Duodenal relations

part	Anterior	Posterior	Medial	Lateral
First part	Liver	Bile duct Gastroduodenal artery Portal vein	-	-
Second Part	Liver Transverse Colon Small intestine	Right kidney	Pancreas	Right colic flexure
Third Part	Small intestine Superior mesenteric vessels	Right psoas major Inferior vena cava Abdominal aorta Inferior mesenteric vessels	-	-
Fourth Part	Small intestine	Left psoas major	-	-



Jejunum & ileum	
Shape	Coiled tube
Length	6 meters (20 feet)
Beginning	At duodeno-jejunal flexur
Termination	At ilieo-caecal junction
Peritoneal covering	Mesentery of small intestine
Embry origin	Midgut
Lymphatic drainage	Superior mesenteric
Arterial supply	Superior mesenteric
Venous drainage	Superior mesenteric

	JEJUNUM	ILEUM
Length	Shorter (proximal 2/5) of SI	Longer (distal 3/5) of SI
Diameters	Wider	Narrower
Wall	Thicker (more plicae circulares)	Thinner (less plicae circulares)
Appearance	Dark red (more vascular)	Light red (less vascular)
Vessels	High & Less arcades (long terminal branches)	Low & More arcades (short terminal branches)
Mesenteric fat	Small amount & away from intestinal border	Large amount & close to intestinal border
Lymphoid tissue	Few aggregations	Numerous aggregations (Peyer's patches)

MCQs

1) What is the length and shape of duodenum:

- A. 12 inches, U- shaped loop
- B. 10 inches, C-shaped loop
- C. 10 inches, U-shaped loop
- D. 12 inches, C-shaped loop

2) The duodenum is divided into Parts , and the longer part is

- A. 5 parts, 5 inches
- B. 4parts , 4 inches
- C. 2 parts, 3inches
- D. 3parts, 2inches

3) The second part of duodenum descends from To

- A. L2 to L3
- B. L1 to L3
- C. L2 to L4
- D. L1 to L2

4) Which one of the following is the termination of duodenum:

- A. Pyloro-doudenal junction
- B. Iileo-caecal junction
- C. duodeno-jejunal flexure
- D. None

5) Which one of the following is the level of Third part of duodenum :

- A. L4
- B. L1 to L3
- C. L3 (subcostal plane)
- D. L1 (trans pyloric plane)

6) Superior mesenteric artery supplied the embryonically:

- A. Foregut
- B. Midgut
- C. Hingut and midgut
- D. Hindgut

7) Which one of the following is the anterior relation of first part of duodenum:

- A. Bile duct
- B. Portal vein
- C. Right kidney
- D. Liver

8) Which one of the following is the posterior relation of second part of duodenum :

- A. Right kidney
- B. Pancreas
- C. Liver
- D. Right colic flexure

9) Which one of the following are the origin of jejunum and ileum:

- A. Midgut
- B. Foregut and midgut
- C. Midgut and hindgut
- D. Hindgut

10) Which one of the following is the artery supply of duodenum:

- A. Superior mesenteric artery
- B. Superior mesenteric artery and coeliac trunk
- C. Splenic artery
- D. Right gastric artery

11) The medial relation of third part is :

- A. Liver**
- B. Small intestine**
- C. Pancreas**
- D. None**

12) Abdominal aorta and inferior vena cava are the relation of Part :

- A. Medial, second**
- B. Posterior, third**
- C. Lateral, fourth**
- D. Anterior, first**

13) Which one of the following is the length of jejunum:

- A. Longer (distal 4/5) of SI**
- B. Longer (distal 3/5) of SI**
- C. Shorter (proximal 2/5)**
- D. None**

14) The wall of jejunum comparing with the wall of ileum :

- A. Thinner than ileum**
- B. Thicker than ileum**
- C. Same as ileum**

15) The diameter and the appearance of ileum:

- A. Narrower, dark red**
- B. Narrower, light red**
- C. Wider, light red**
- D. Wider, dark red**

GOOD LUCK DOCTORS

KEY ANSWERS:

1. B
2. B
3. B
4. C
5. C
6. B
7. D
8. A
9. A
10. B
11. D
12. B
13. C
14. B
15. B

REPEAT AFTER ME:
“I CAN DO THIS”

Done by:

مروج الحربي

Revised & edited by:

خلود العنزي