

## DIGESTIVE SYSTEM II.

1

### INTESTINE (SMALL, LARGE)

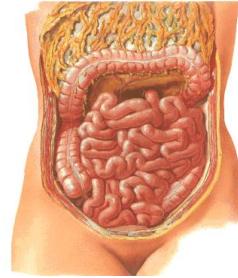
**SMALL INTESTINE**

3–5 m, intestinal loops

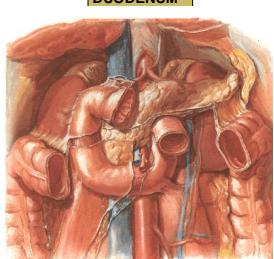
**DUODENUM**

**JEJUNUM**

**ILEUM**



2



12 inches (25-30 cm)-Herofilos, makes the loop around L2

3

- DUODENUM**
- Pars superior  
(ampulla, bulbus duodeni)
- Flexura duodeni sup.
- Pars descendens**
- Flexura duodeni inf.
- Pars horizontalis**
- Pars dextra et sinistra
- Pars ascendens**
- Flexura duodenojejunalis

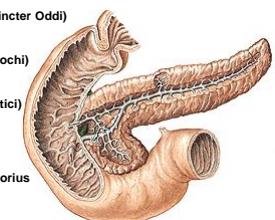
### Plica longitudinalis duodeni

**Papilla duodenae major (Vateri)**

ampulla hepatopancreatica  
(m. sphincter papillae  
hepatopancreaticæ, m. sphincter Oddi)

ductus choledochus  
(m. sphincter ductus choledochi)

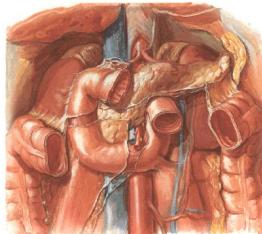
ductus pancreaticus major  
(m. sphincter ductus pancreatici)



**Papilla duodenae minor**

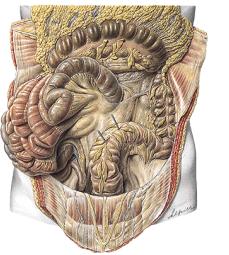
ductus pancreaticus accessorius

4



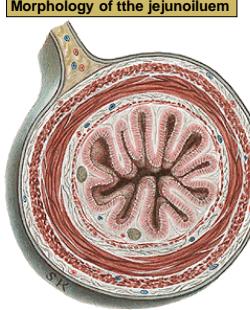
Pars sup. duodeni  
- intraperitoneally  
(lig. hepatoduodenale)  
  
Other parts - secondary  
in retroperitoneum

5



**JEJUNOILEUM**  
Ansae intestinales  
Mesenterium  
Radix mesenterii (12-15 cm)  
Flexura duodenajejunalis  
Ostium ileocaecale

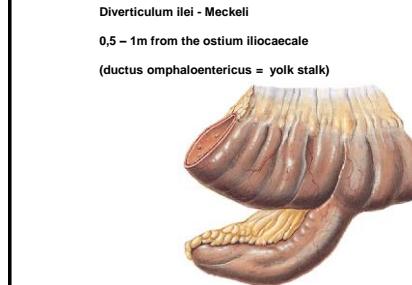
6



**Morphology of the jejunum**

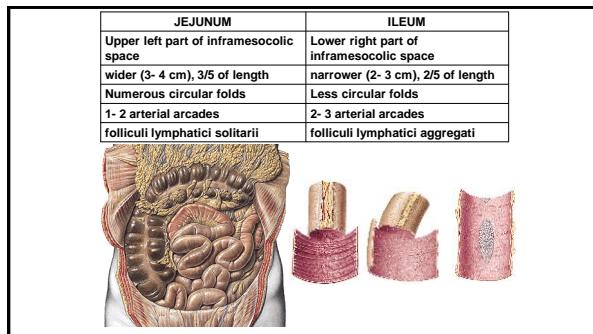
Mucous membrane:  
Plicae circulares  
Villi intestinales  
GII. Intestinales  
Succus entericus  
Folliculi lymphatici  
Submucosal tissue  
Tissue fibres, neurovascular  
bundle  
Muscular layer  
Str. longitudinale, circulare  
Serosa (intraperitoneally)

7



Diverticulum ilei - Meckel  
0,5 – 1m from the ostium iliocaecale  
(ductus omphaloentericus = yolk stalk)

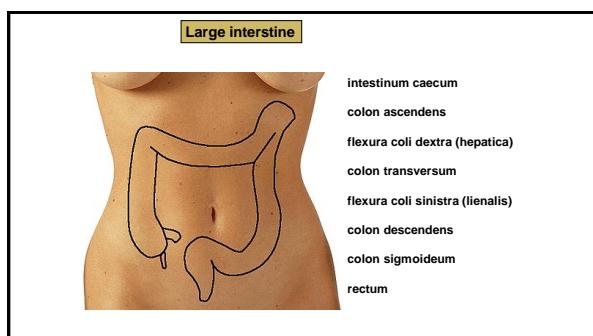
8



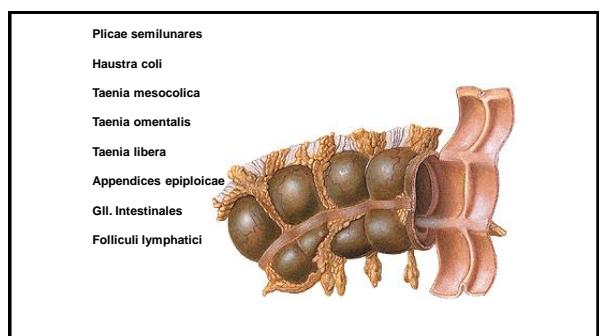
9



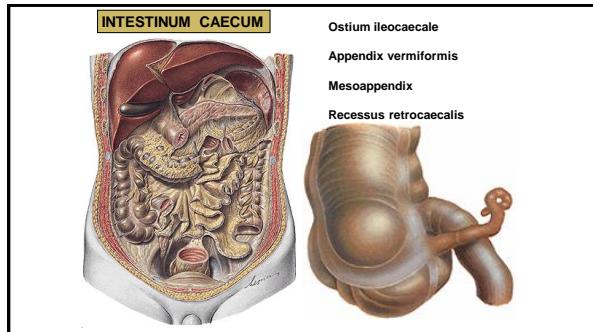
10



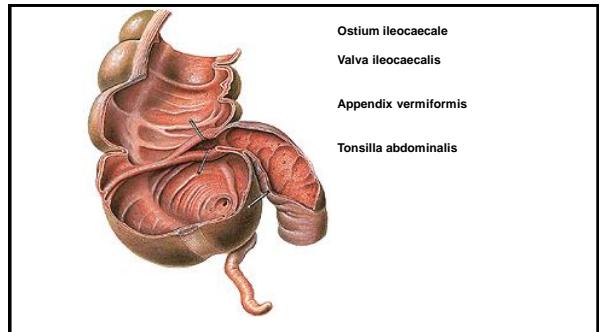
11



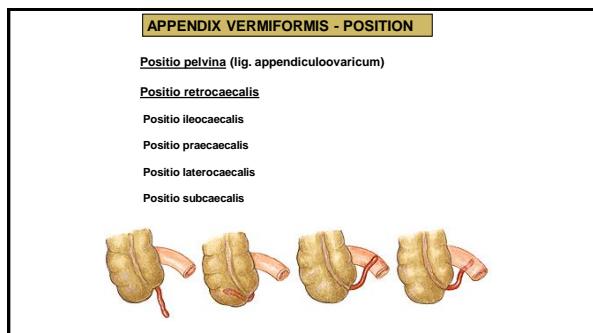
12



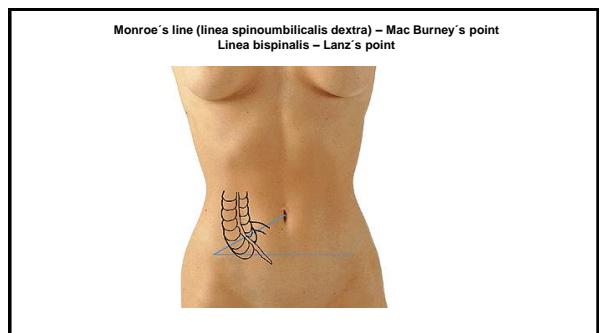
13



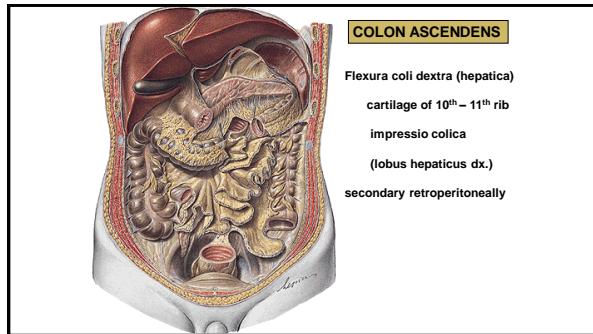
14



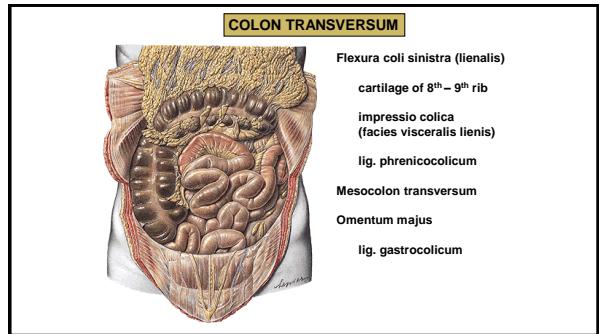
15



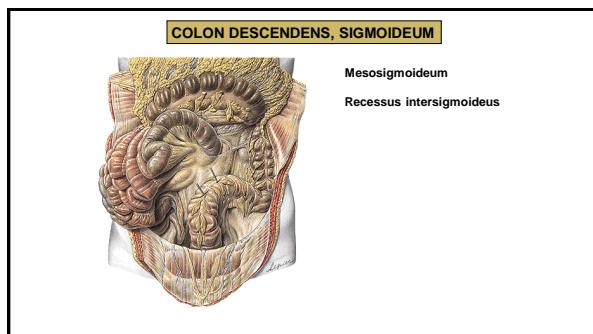
16



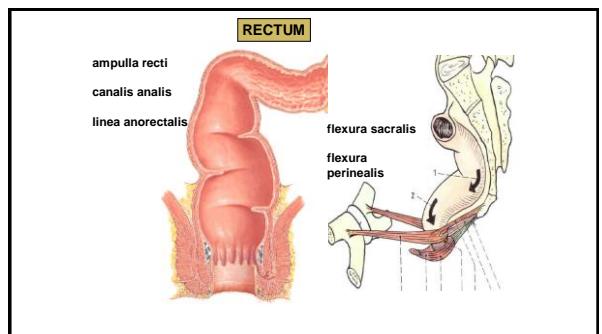
17



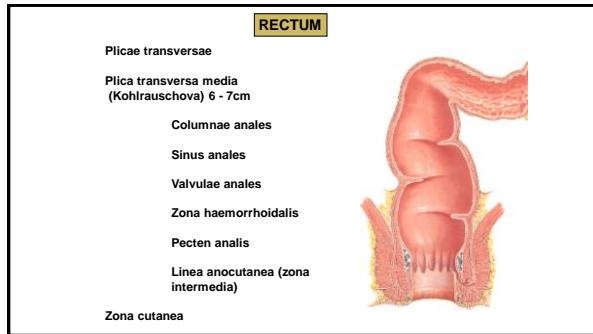
18



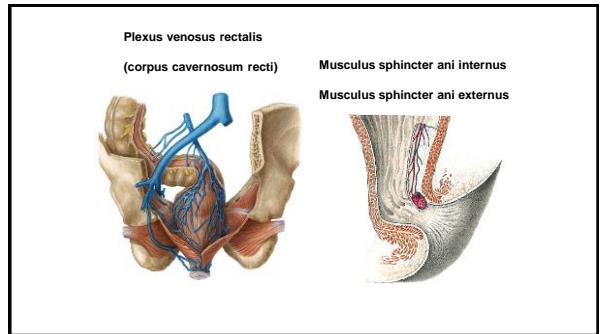
19



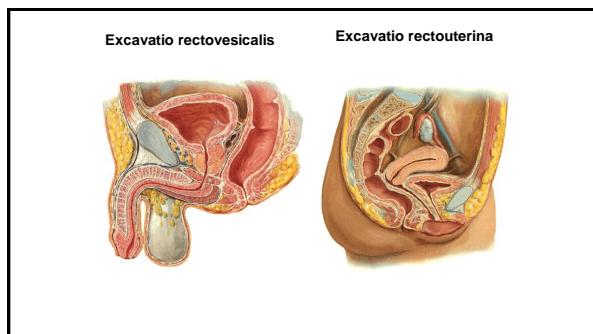
20



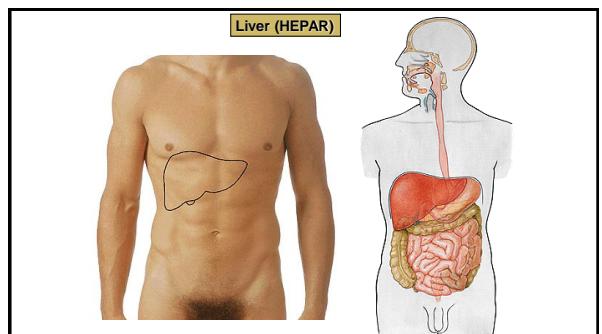
21



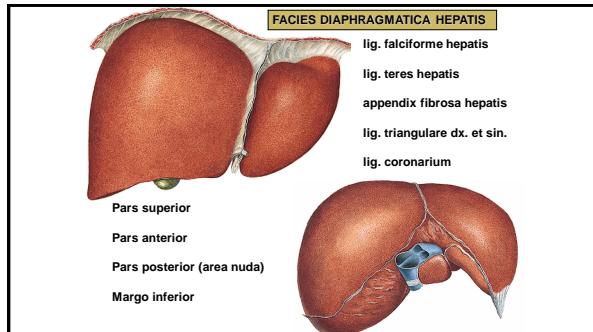
22



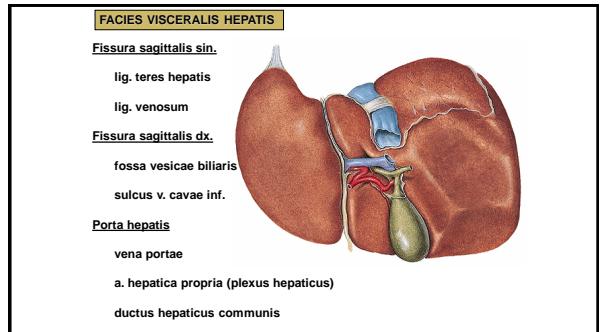
23



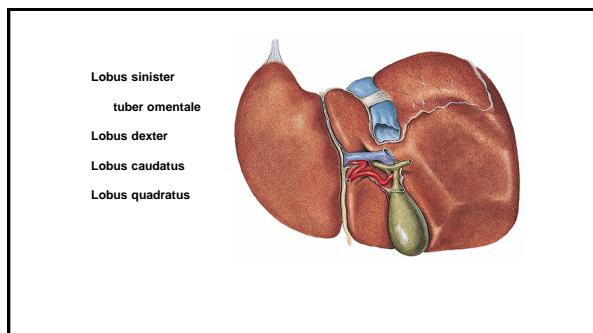
24



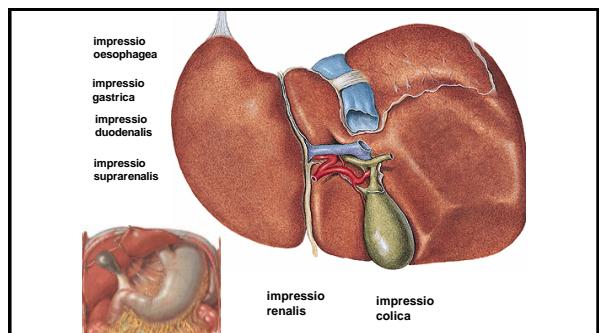
25



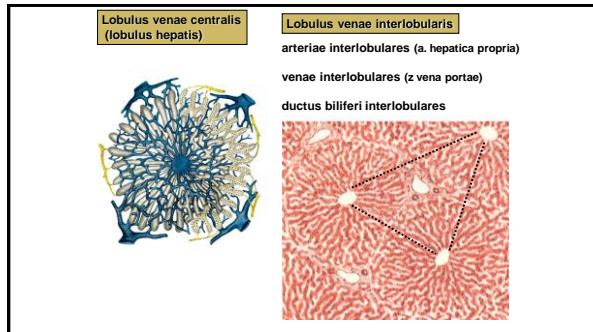
26



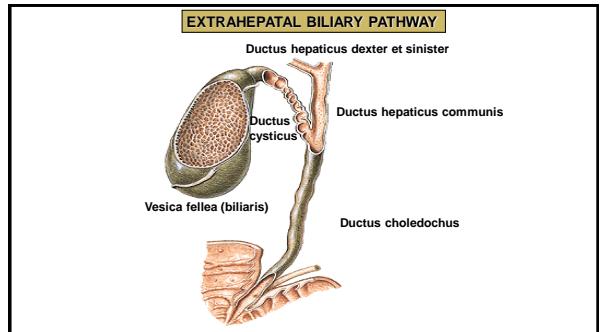
27



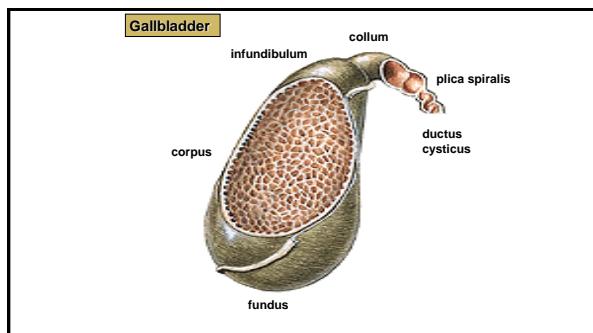
28



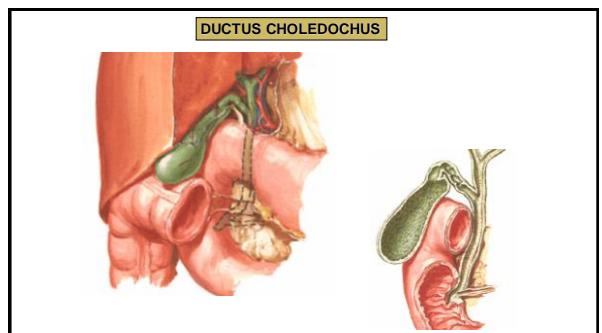
29



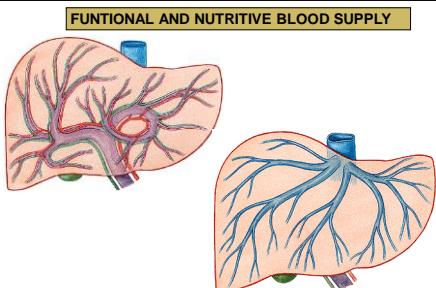
30



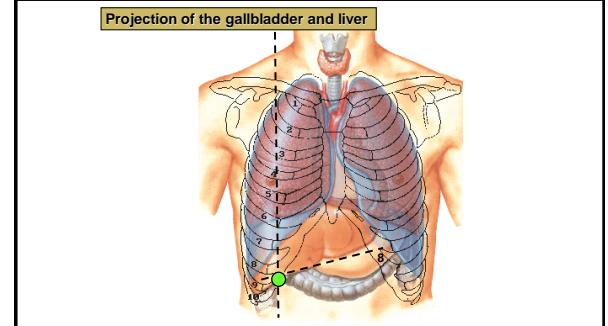
31



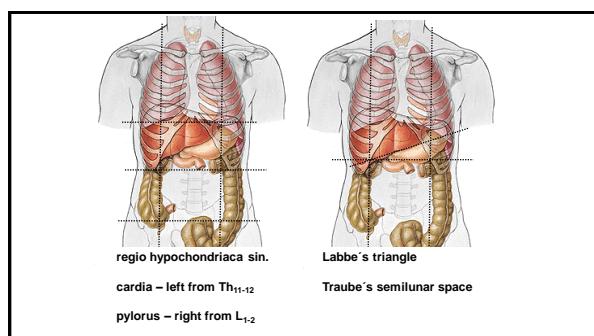
32



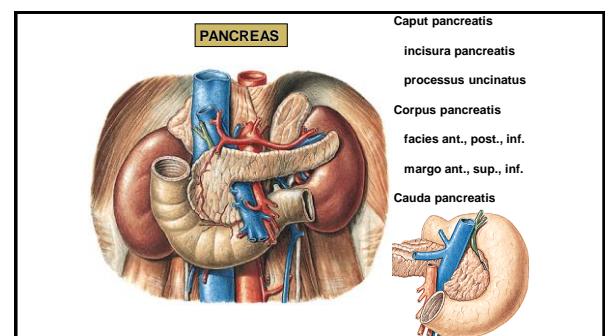
33



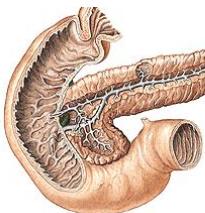
34



35



36

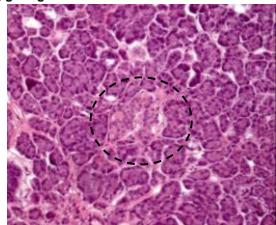
**PARS EXOCRINA PANCREATIS**

- Serous tuboalveolar gland
- Succus pancreaticus
- Capsula pancreatis
- Septa
- Lobi et lobuli pancreatis
- Intra- a interlobar ducts
- Ductus pancreaticus acces.
- Papilla duodeni minor
- Ductus pancreaticus
- Papilla duodeni major

**PARS ENDOCRINA PANCREATIS**

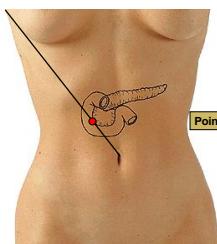
Insulae pancreaticae – Islets of Langerhans

Insulin, glukagon



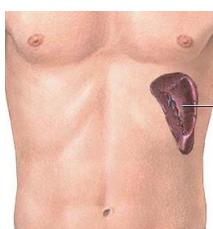
37

38



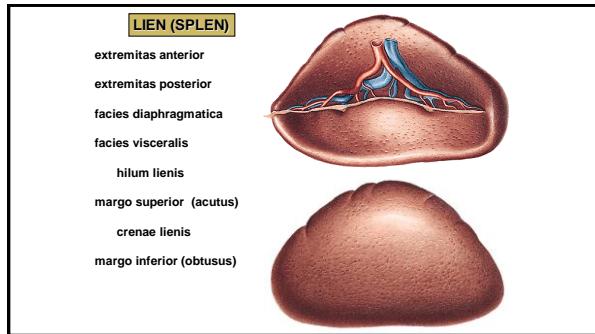
**Point of Desjardin (6 cm from navel)**

39

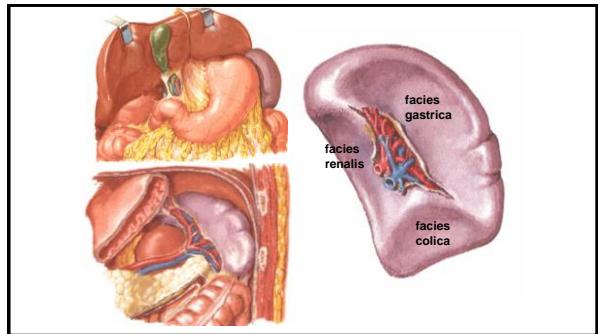
**Spleen**

- Supramesocolic part of peritoneal cavity
- Storage of blood
- Erythrocyte degradation
- Production of lymphocytes
- Hematopoiesis (children)

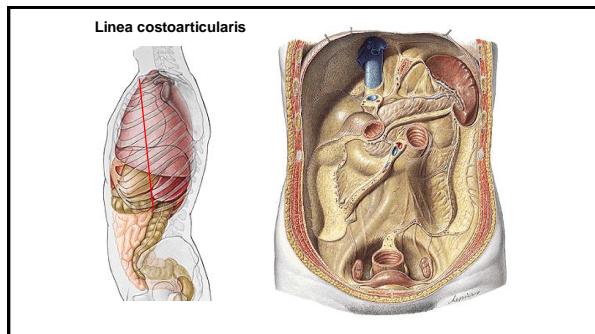
40



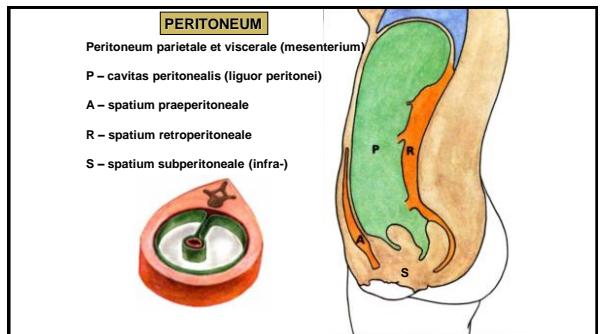
41



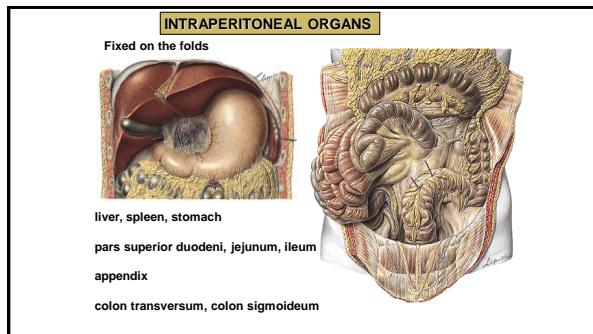
42



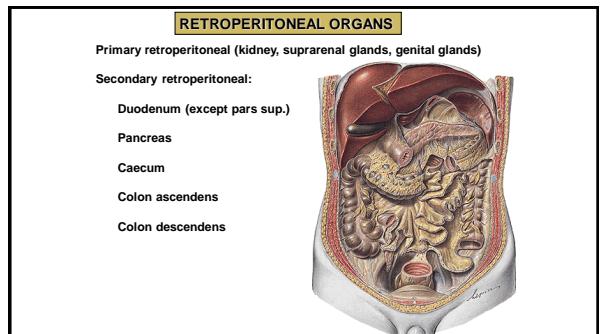
43



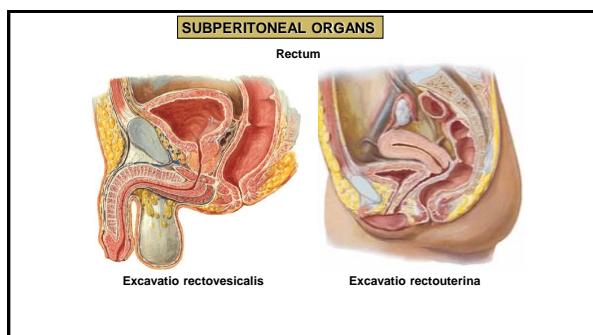
44



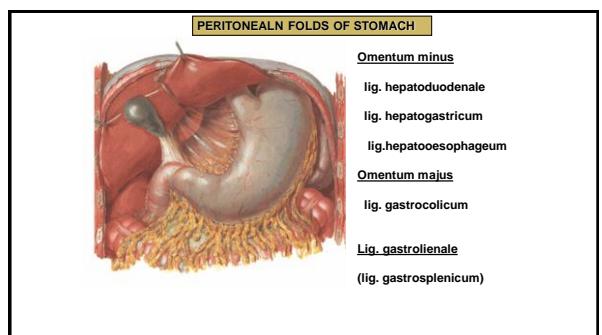
45



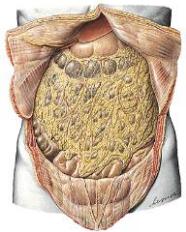
46



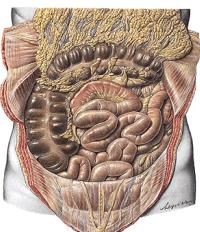
47



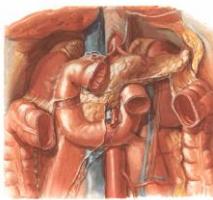
48



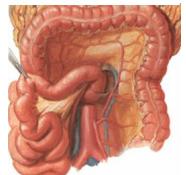
Omentum majus



Lig. gastrocolicum

**MESOCOLON TRANSVERSUM**

pars supramesocolica et inframesocolica

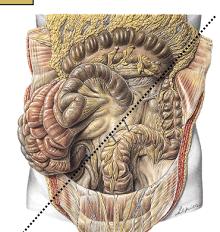


49

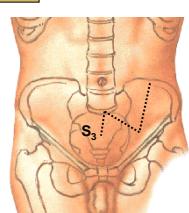
50

**MESENTERIUM**

radix mesenterii

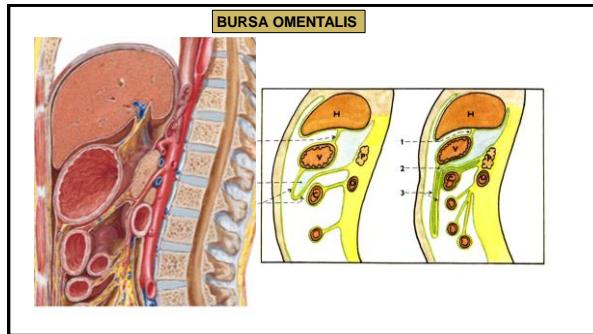


Pars inframesocolica dextra et sinistra

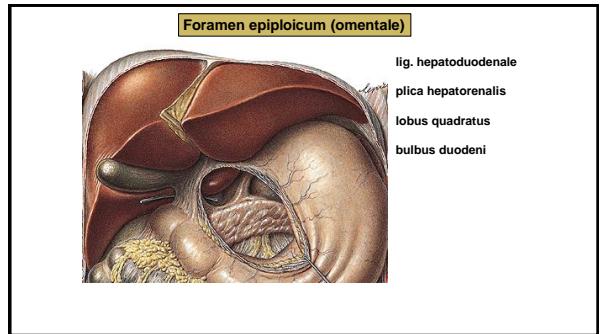
**MESOSIGMOIDEUM**

51

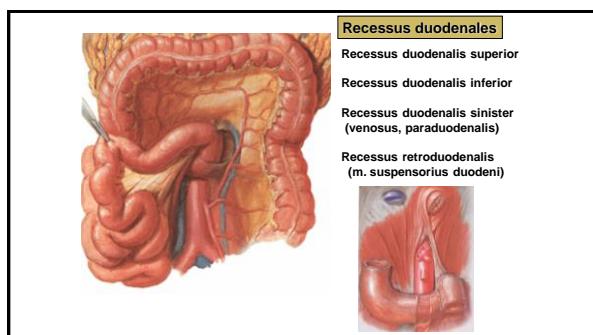
52



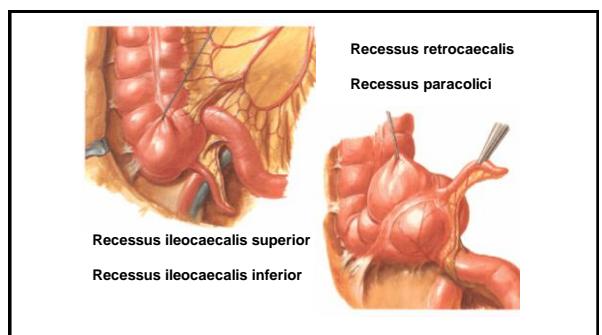
53



54



55



56



Recessus intersigmoides



57

58

**References:**

**Putz, R. (2008):**  
Atlas of Human Anatomy Sobotta. Elsevier Books.

**Keith L. Moore, Arthur F. Dalley (2005):**  
Clinically Oriented Anatomy. Williams and Wilkins.

**Platzer, W., Kahle, W., Leonhardt H. (1992):**  
Locomotor system. Georg Thieme Verlag, Stuttgart, New York, 4th edition.

**Čihák, R. (1987):**  
Anatomie 1. Avicenum, Zdravotnické nakladatelství.

**Netter, F. H. (1997):**  
Interactive Atlas of Clinical Anatomy. Novartis, USA.