

Peritoneum

Peritoneum or peritoneum is a shiny serous membrane, covered by a single-layered epithelium *mesothelium*, which lines the abdominal cavity.^[1] Under the peritoneum there is a subserosa, which fixes the peritoneum to the substrate.

On the anterior abdominal wall posteriorly in the *tela subserosa*, 3 ligamentous bands run from the bladder to the umbilicus, which are the remnants of the urachus and umbilical arteries. They form 3 plexuses : ***plica umbilicalis mediana, medialis dx. et sin.***

They divide into:

- a) peritoneum parietale** - in the form of duplicates, necks, ligaments passes to the organs in the abdominal cavity

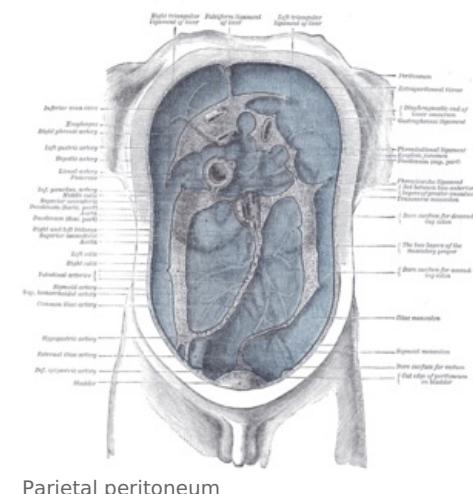
- b) peritoneum viscerale** - the peritoneum

The cavity between the two peritoneums **cavitas peritonealis** is filled with a small amount of fluid **liquor peritonei**.

According to their relationship to the peritoneum, organs are divided into : intraperitoneal, retroperitoneal, subperitoneal, extraperitoneal and secondary retroperitoneal

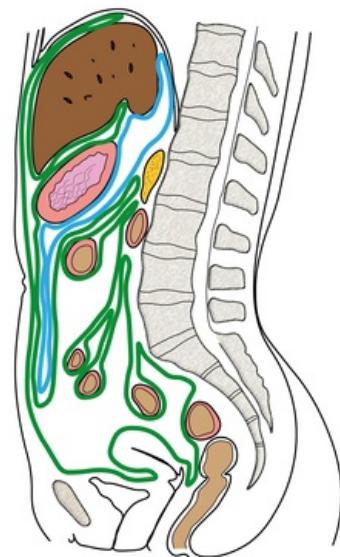
Hernia :

- a) **direct** - anulus inguinalis superficialis, fossa inguinalis medialis
 - b) **indirect** - anulus inguinalis profundus then through the canalis inguinalis to the anulus inguinalis superficis, fossa inguinalis lateralis



Breakdown of the peritoneal cavity

1. ***pars supramesocolica*** (above the mesocolon transversum, between the mesocolon and the diaphragm):
 - *spatium subphrenicum dx. et sin.* (mezi bránicí a játry);
 - *spatium subhepaticum dx. et sin.*;
 - *bursa omentalis* (communicates with the right subhepatic space via the for. epiploicum).



Sagittal section of the peritoneum

Hranice bursa omentalis : ventral - stomach, omentum minus and lig. gastrocolicum, dorsal - parietal peritoneum, pancreas, great vessels, left kidney and adrenal gland, caudal mesocolon transversum

2. pars inframesocolica

The course of the radix mesenterii and the confluence of the colon ascendens and colon descendens and also the mesocolon transversum form 4 spaces:

1. **right adhesive field** - cranial is mesocolon, right is colon ascendens and caudal is radix
 2. **left adhesive field** - cranial mesocolon, right radix mesenterii, left colon descendens
 3. **right and left paracolic space** - lateral side of colon descendens/ascendens

Organ Ligaments

1. *v pars supramesocolica:*
 - coming from the *mesogastrium dorsale*:
 - *lig. phrenicoliensale*;
 - *lig. gastrophrenicum*;
 - *lig. gastrolienale*;
 - *lig. gastrocolicum*;
 - *omentum majus* - from *curvatura gastrica major*, has 2 leaves , the anterior one descends caudally in front of the transverse part of the colon, the posterior leaf returns upwards and attaches to the *taeniae omentales* of the colon
 - arising from the *mesogastrium ventrale*:

- *omentum minus (lig. hepatooesophagicum, lig. hepatogastricum et hepatoduodenale)*; - duplication between the curvature gastrica minor and the visceral surface of the liver
- *lig. falciforme hepatis* (in its continuation - *lig. coronarium dx. et sin. et lig. triangulare dx. et sin.*).

2. v pars infrramesocolica:

- *mesenterium;*
- *mesoappendix;*
- *mesocolon transversum* - colon transversum
- variably mesocolon ascendens, descendens, sigmoideum and mesorectum.

Peritoneal recessions

Peritoneal recessions are blind pockets in the peritoneal cavity. They are sites of possible internal hernia formation.

1. in the duodenojejunal flexure area:

- *rec. duodenalis sup. et inf. Treitz;*
- *rec. retroduodenalis Waldayeri;*
- ***rec. paraduodenalis (sinister, venosus*** - runs here v. mesenterica inf.) Gruberi-Landzerti.

2. in the area of the ileocecal transition:

- *rec. ileocaecalis sup. et inf.;*
- *rec. retrocaecalis;*

3. *recessus paracolici;*

4. *recessus intersigmoideus Treitzi.*

Vascular supply

blood vessels of those organs which are surrounded by it

Nerve supply

Autonomic vasomotor nerves, the visceral is supplied autonomically and the parietal sensory innervates the n.phrenicus, nn. intercostales and plexus lumbalis

Links=

External links

- Peritoneum (Czech Wikipedia)
- Peritoneum (English Wikipedia)

Source

- ČIHÁK, Radomír a Miloš GRIM. *Anatomie 2.* 2. vydání. Praha : Grada Publishing, 2009. ISBN 80-247-0143-X

Reference

1. ČIHÁK, Radomír a Miloš GRIM. *Anatomie.* 2. upr. a dopl vydání. Praha : Grada Publishing, 2002. 470 s. sv. 2. ISBN 80-247-0143-X.