



Stěna tenkého střeva „patterns“

J. Votrubová, Fakultní Thomayerova nemocnice Praha
VALTICKÉ KURZY 2024

Stěna střevní – „patterns“ – dle syčení

Homogenní stěna

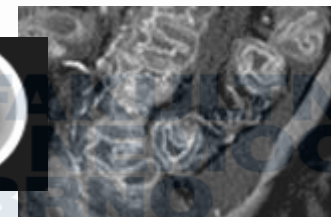
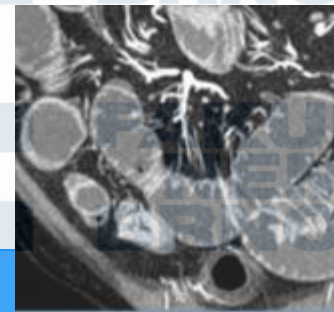
- Bílý „white“ – zvýšené syčení stěny – akutní změny, zánět
- Šedý „grey“ – snížené syčení stěny – spíše chronické, fibrozní

Stratifikovaná stěna-vrstvená – výrazné syčení mukózy (aktivní zánět)

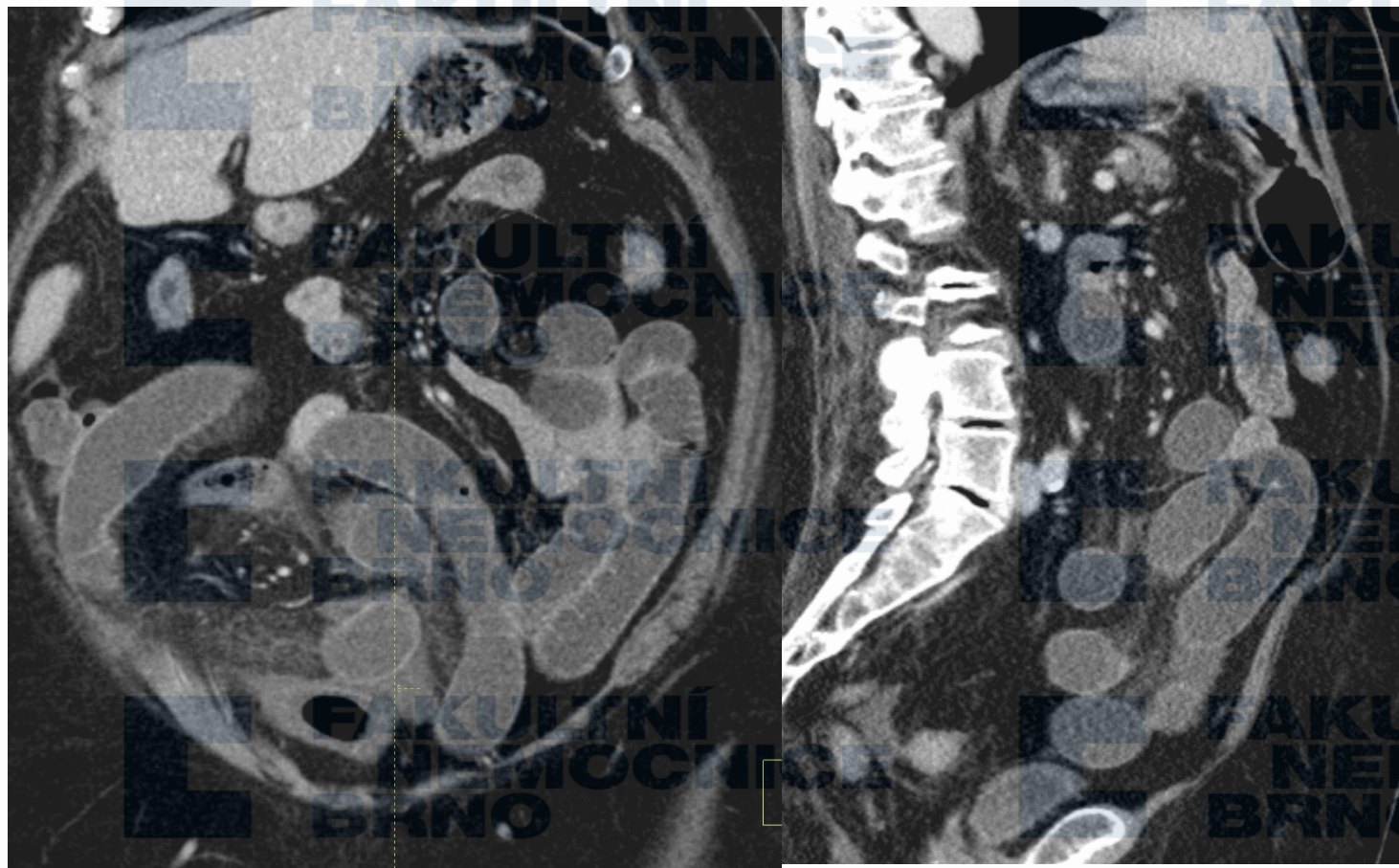
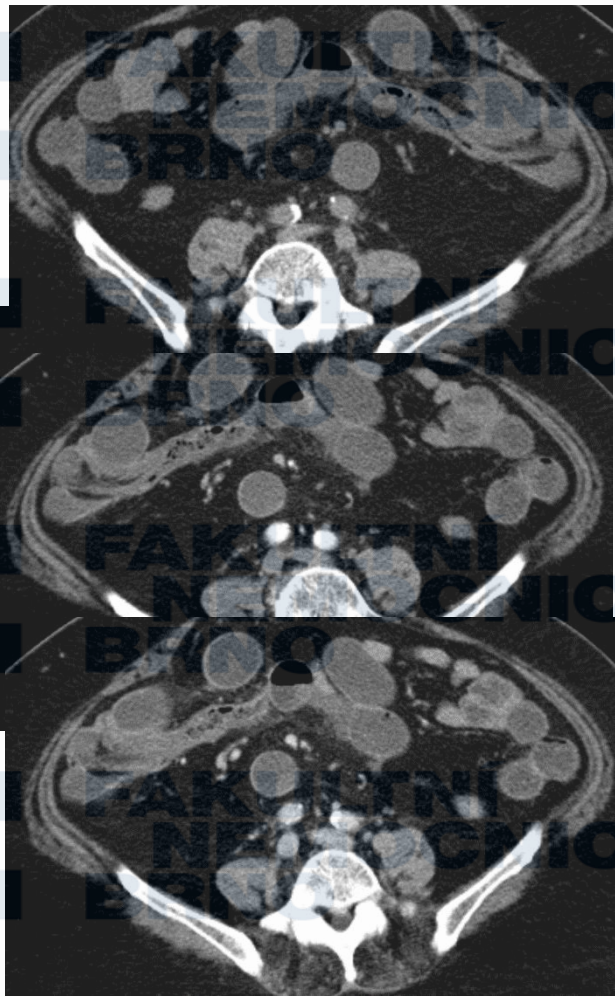
- Voda a tuk „target sign“ + syčení serózy/muscul. propria

- Voda a tuk „double halo sign“

- Plyn ve stěně



Tenké střevo – sycení stěny- ne k.l. per os



BOWEL WALL ENHANCEMENT PATTERNS

Homogeneous pattern

White



↑ degree mural enhancement without stratification

ACTIVE IBD

It suggests transmural inflammation

Gray



↓ degree mural enhancement without stratification

CHRONIC IBD

It suggests fibrosis

Stratified pattern

Water and Fat Target sign



Water

= submucosal edema

Fat

= submucosal fat deposition
It suggests long-standing disease



- Both: ↑ Mucosa enhancement (innermost layer)
- If target sign: + ↑ serosa/muscularis propria enhancement (outermost layer)

ACTIVE IBD

Stratified appearance suggests active IBD

***Submucosa (middle layer in target sign, outer layer in double-halo sign)*

Water and Fat Double-halo sign



Architektonika

střevní kličky:

Kerkringovy řasy-
normální
vyhlazené
zbytnělé

Zesílení stěny:

stupeň

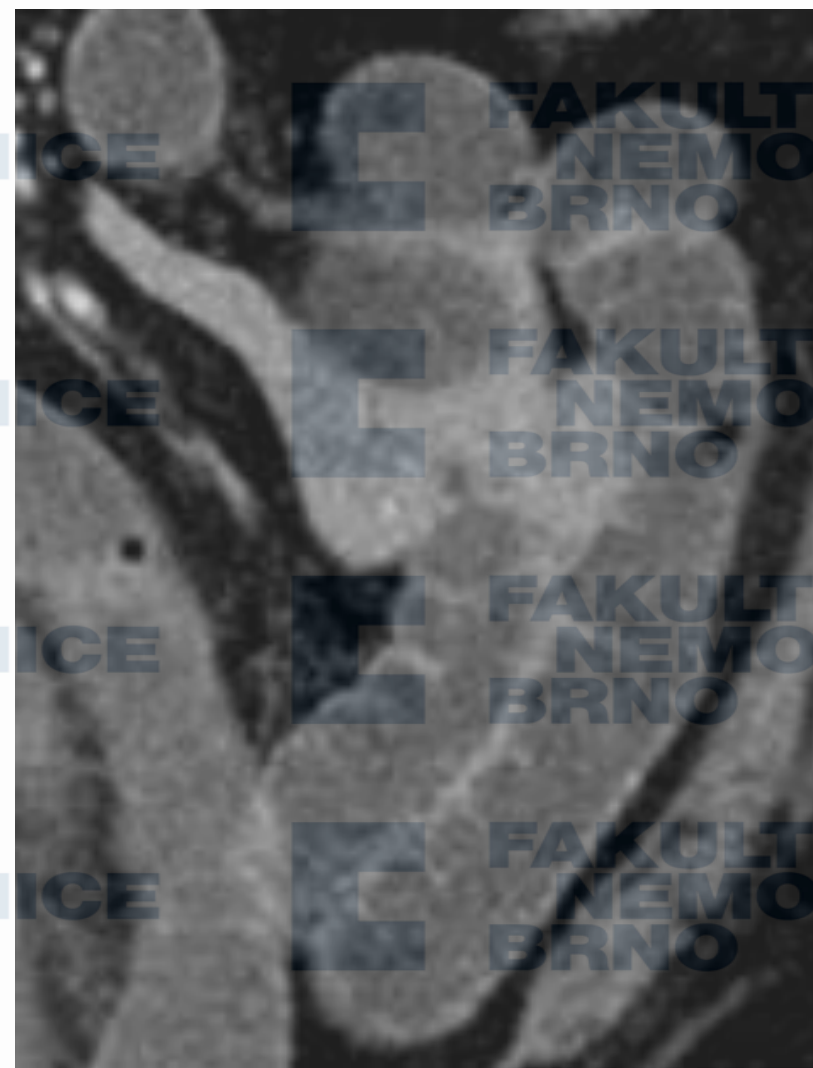
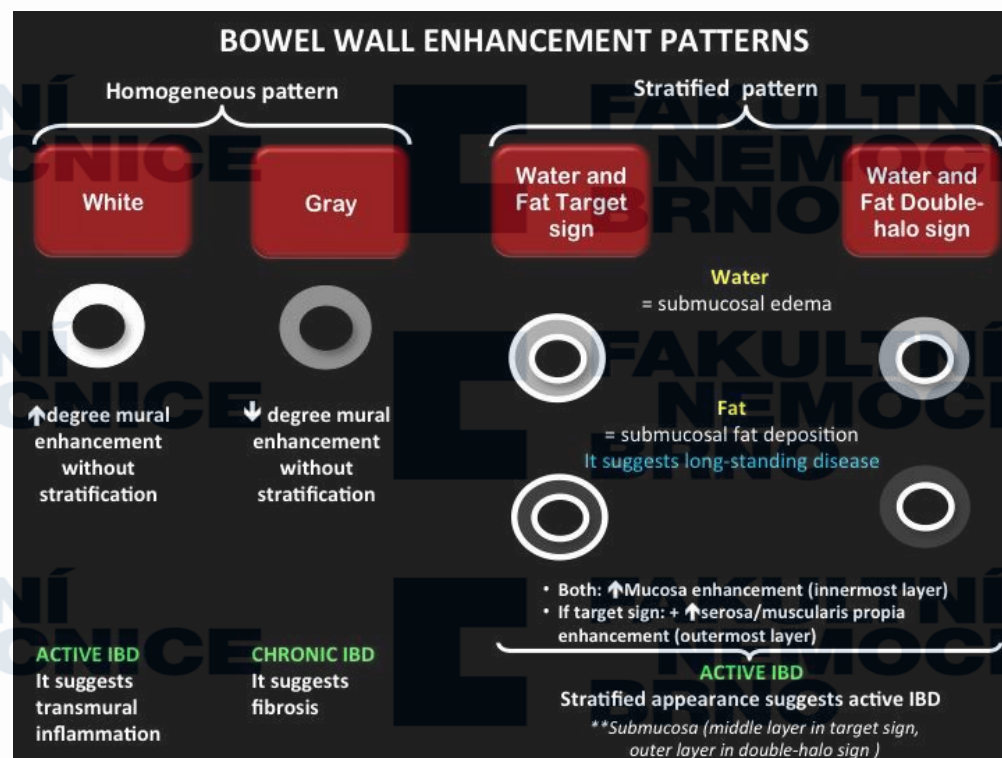
symetrické x asym.

Délka postižení:

Lokální

segmentální

difuzní



Mezenterium:

Cévy

Edém

Píštěle

Lymfat. uzliny

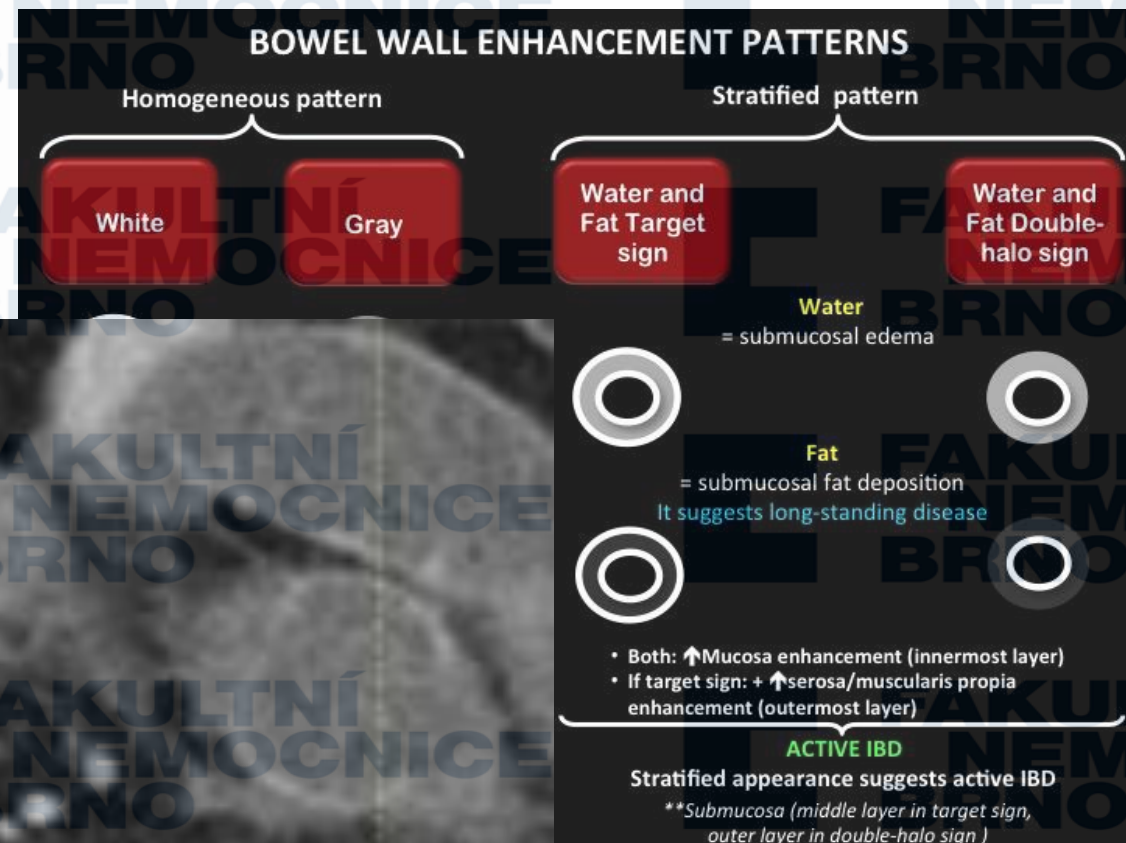
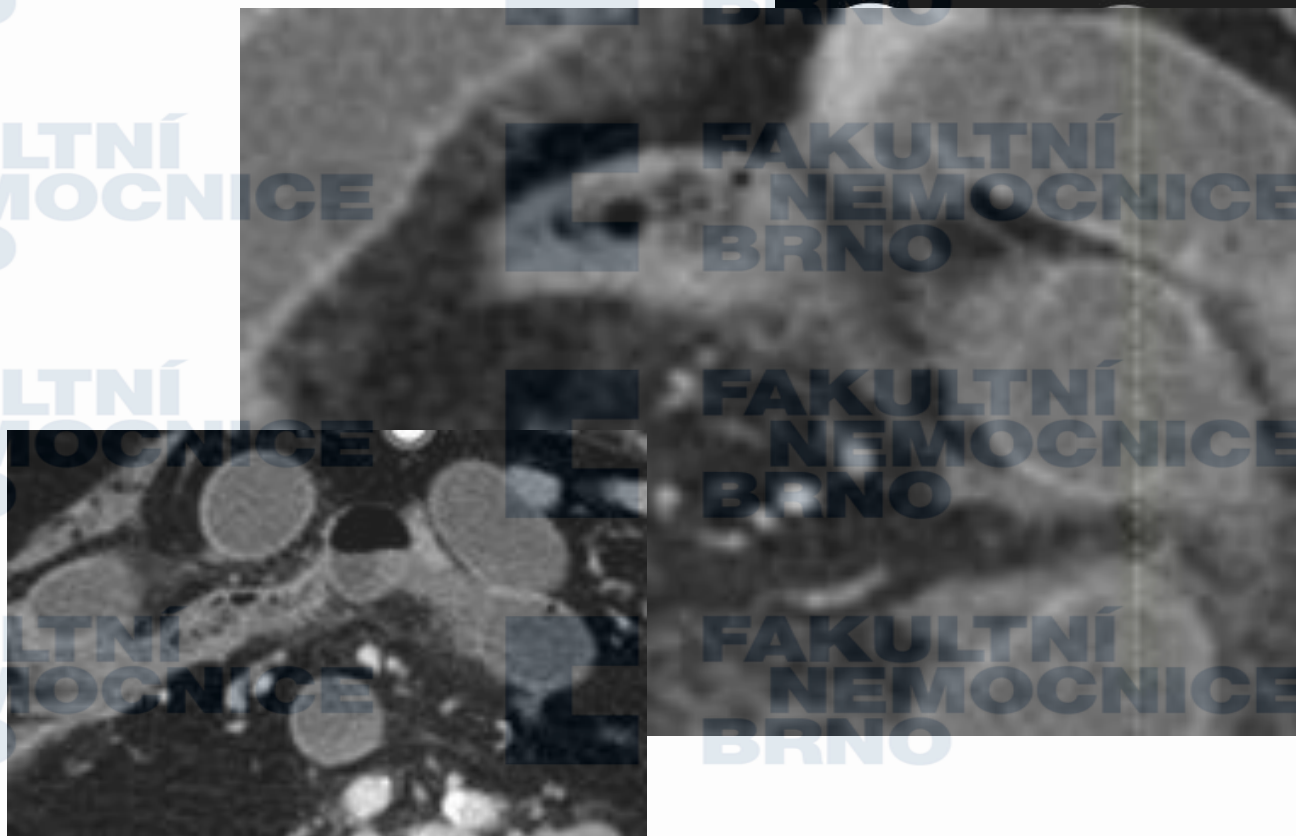
Obsah lumina:

Voda

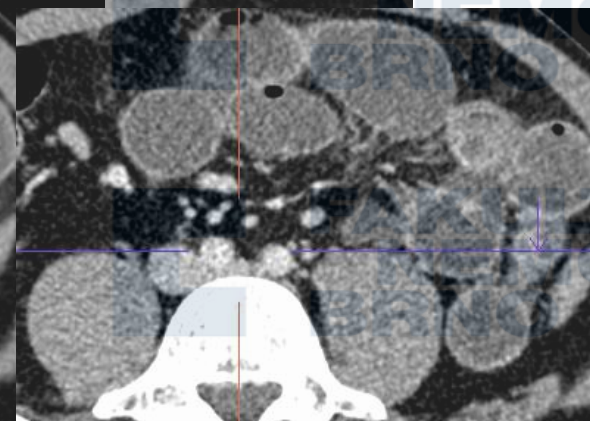
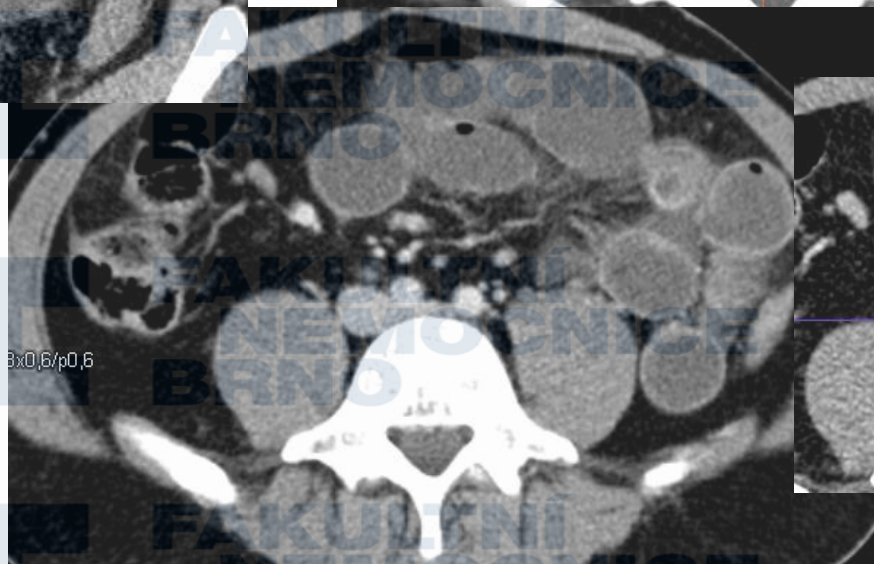
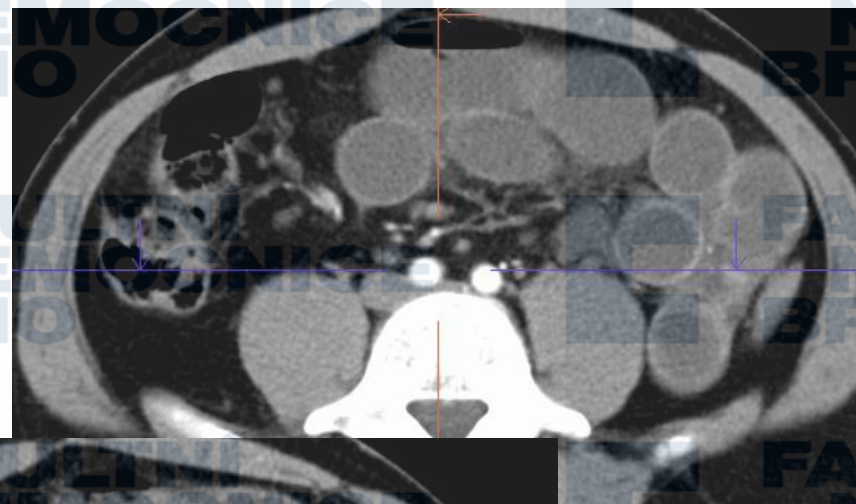
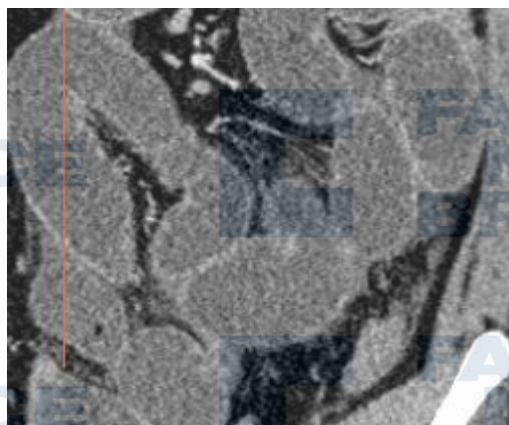
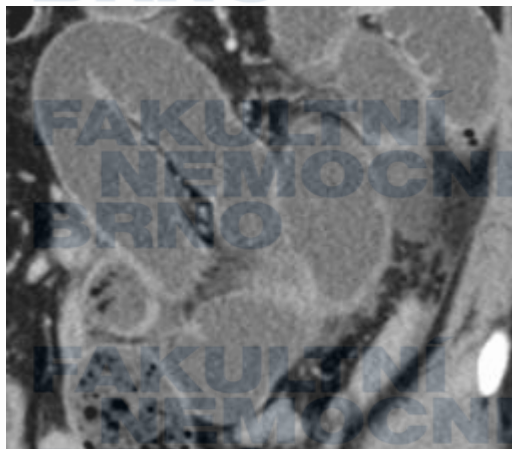
Plyn

Krev

stolice



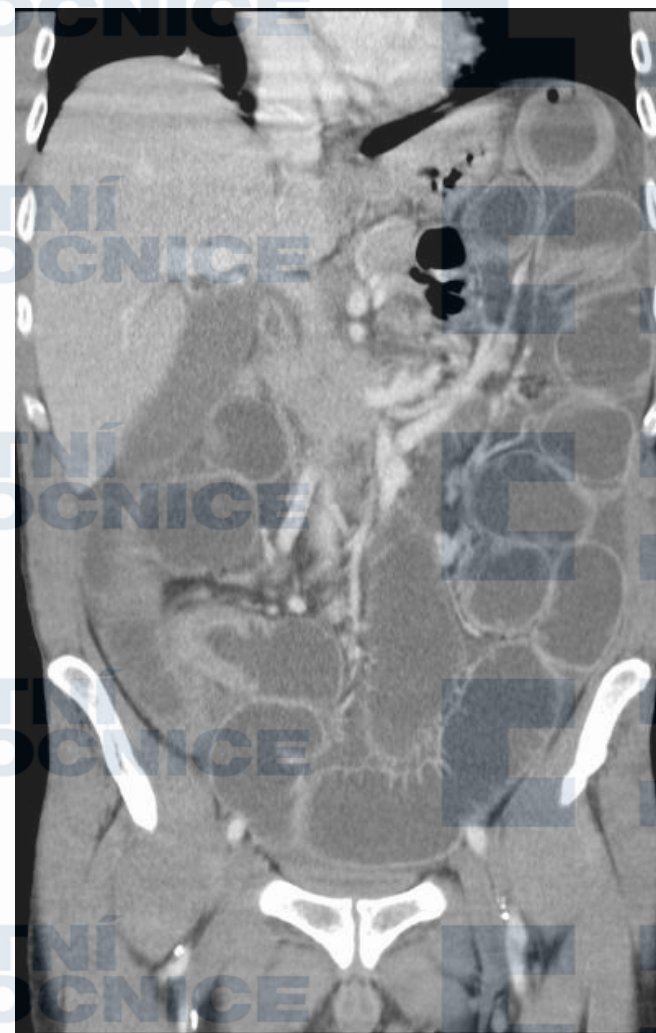
CT – MPR atd.



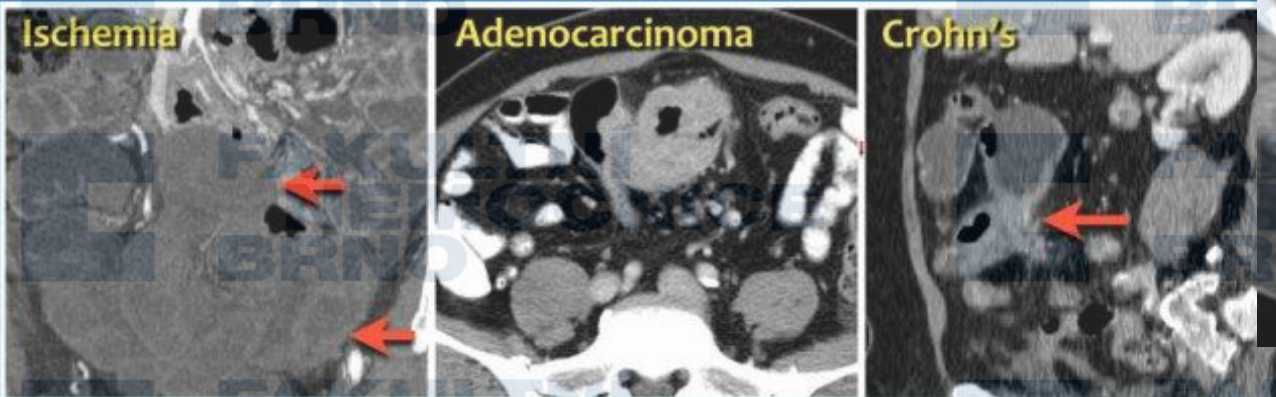
White



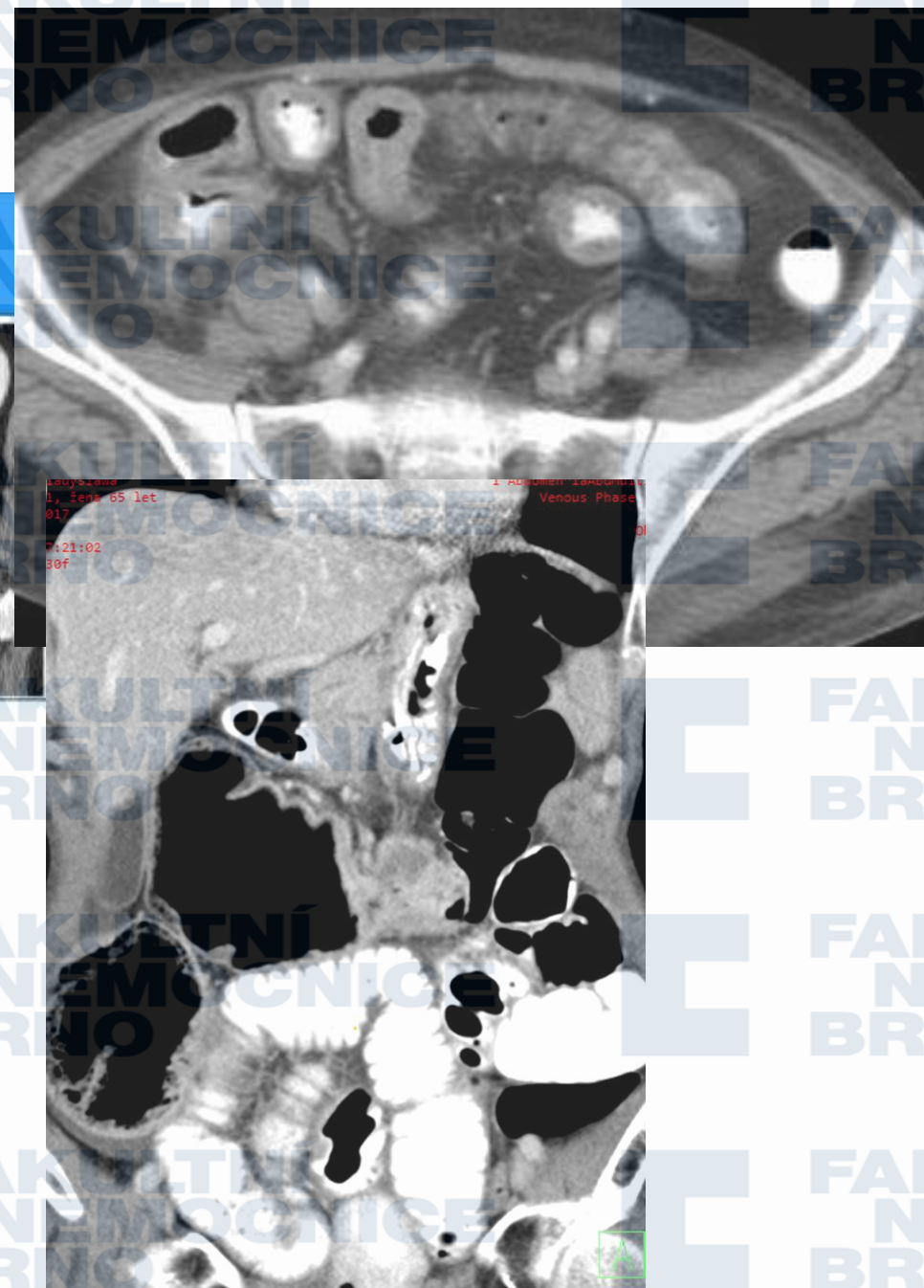
1. **Acute IBD**
due to vasodilatation with acute hyperemia
2. **Shock Bowel**
injury to intramural vessels
3. **Reperfusion after ischemia**
4. **Hemorrhage**



Gray



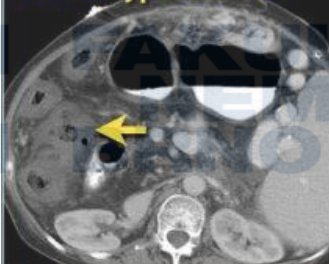
1. Chronic Crohn's
2. Ischemia
3. Neoplasm



Target sign- Water



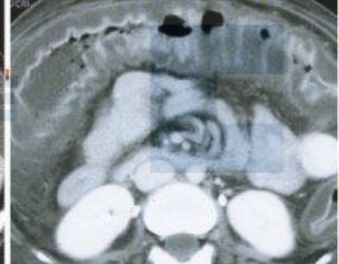
Portal hypertension



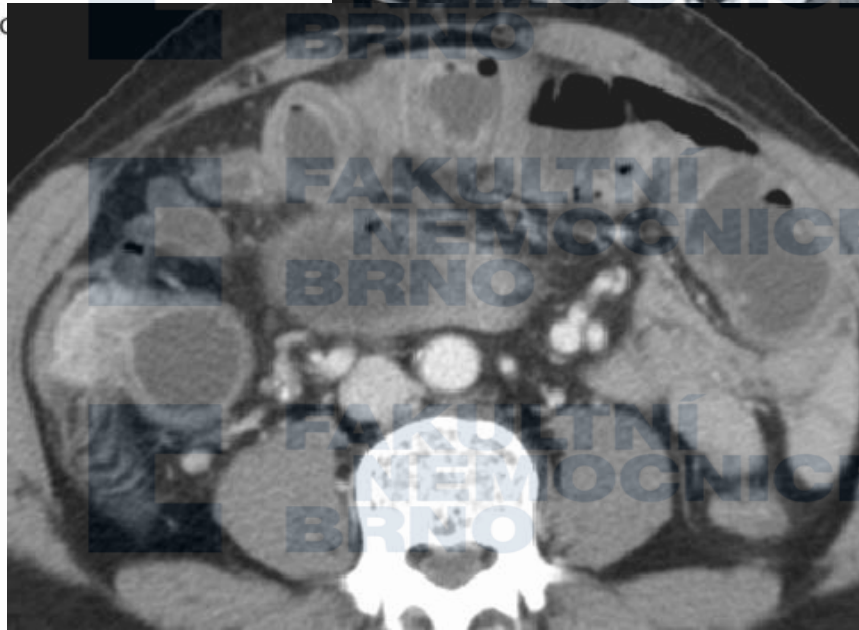
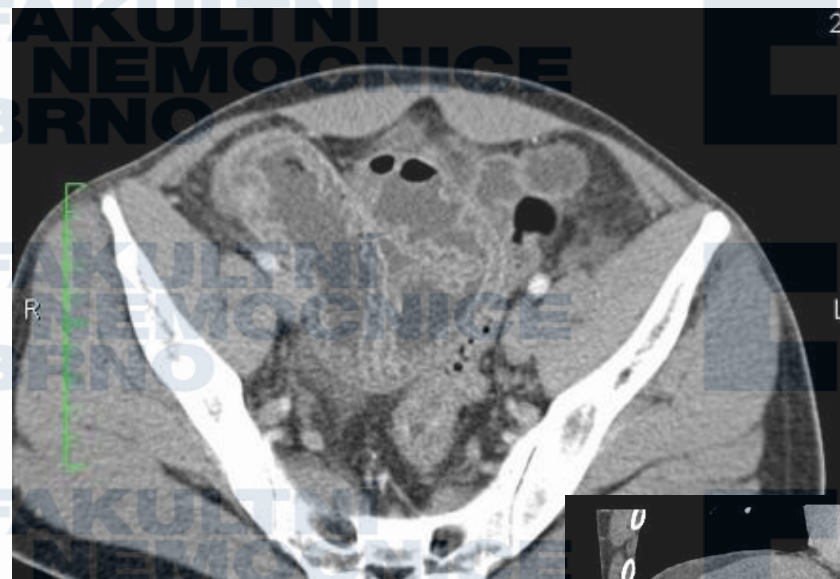
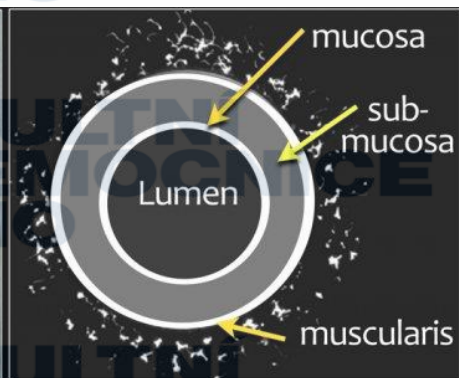
Pseudomembranous



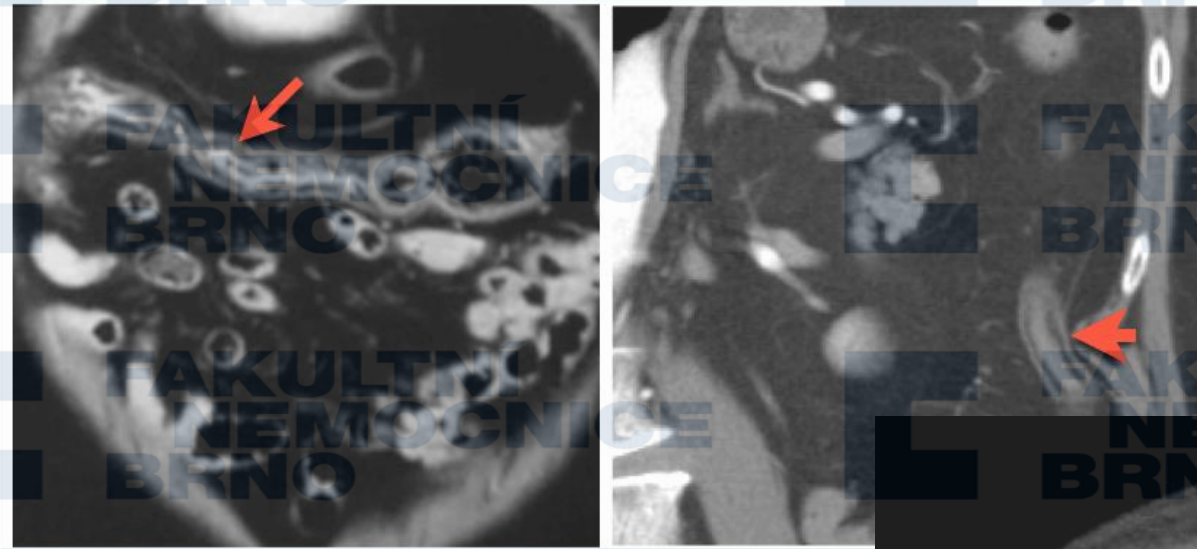
Infectious enterocolitis



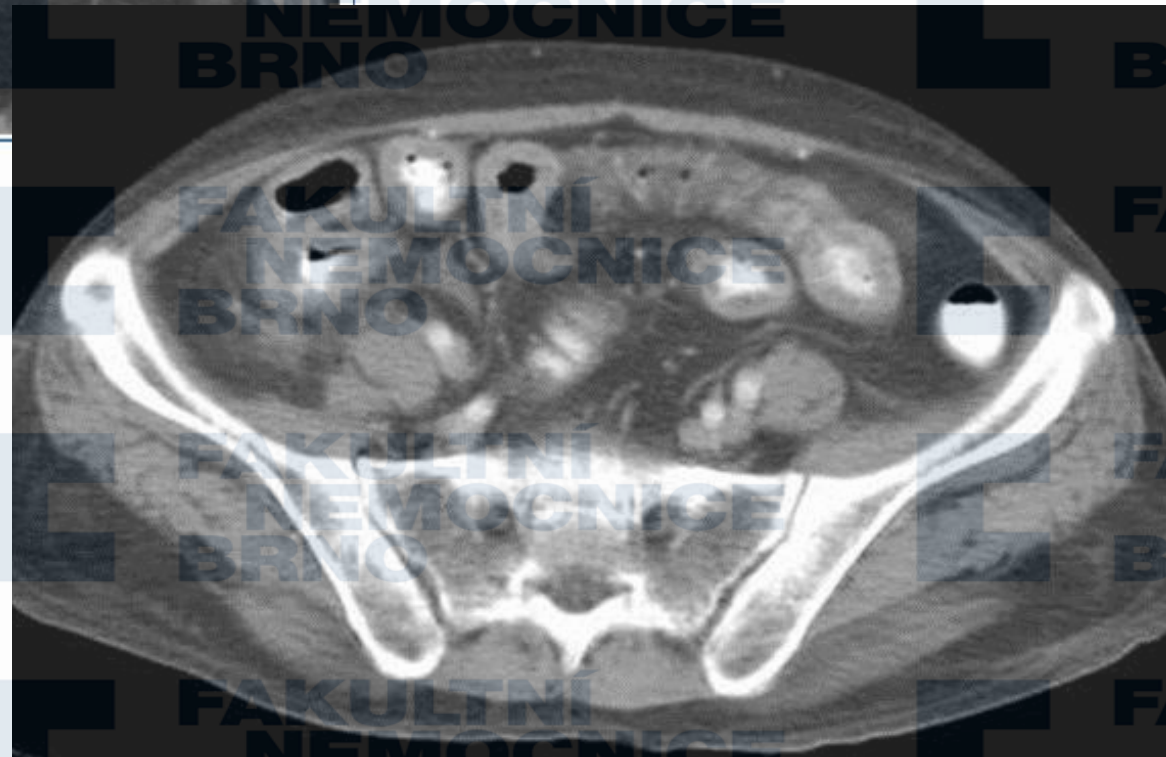
1. Portal hypertension
2. Infection
 - Shigella, Salmonella, E. Coli, CMV, Cryptosporidium
 - Pseudomemb. colitis
 - AIDS
3. Acute Ulcerating Colitis and Acute Crohn's
4. Typhlitis
5. AIDS
6. Ischemia



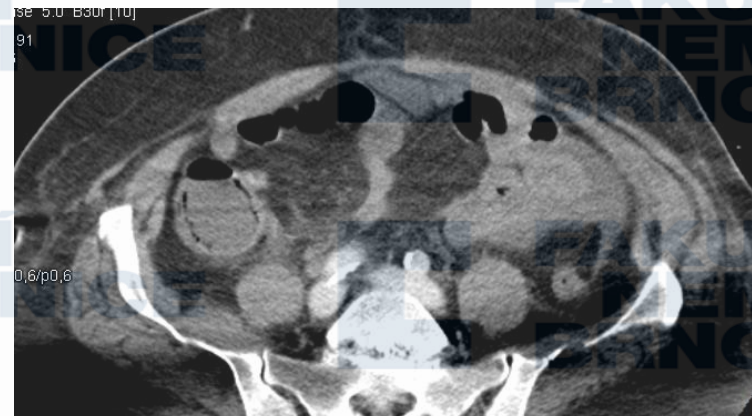
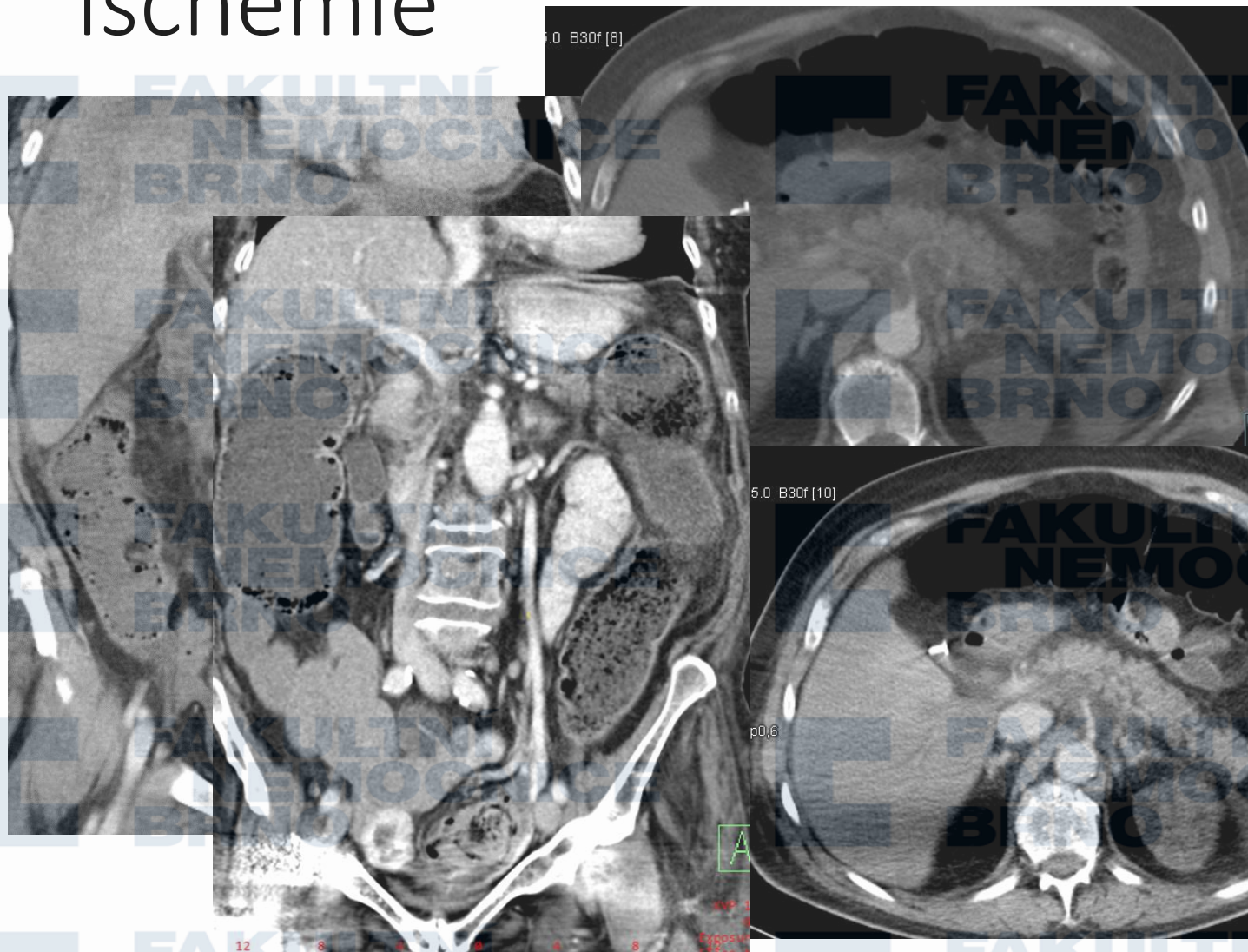
Target - Fat



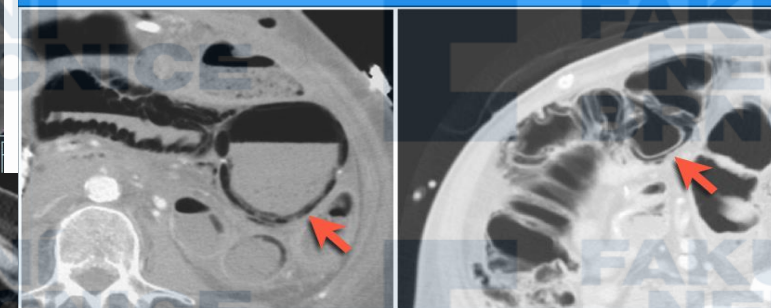
1. Chronic Ulc. Colitis
2. Chronic Crohn's
3. Obesity
4. Chemotherapy
5. Celiac disease



Ischemie



Gas



1. Ischemia
2. Infection
3. Trauma
4. Benign causes
 - Connect tissue disease
 - IBD
 - COPD
 - Obstruction
5. Pseudo-Pneumotosis

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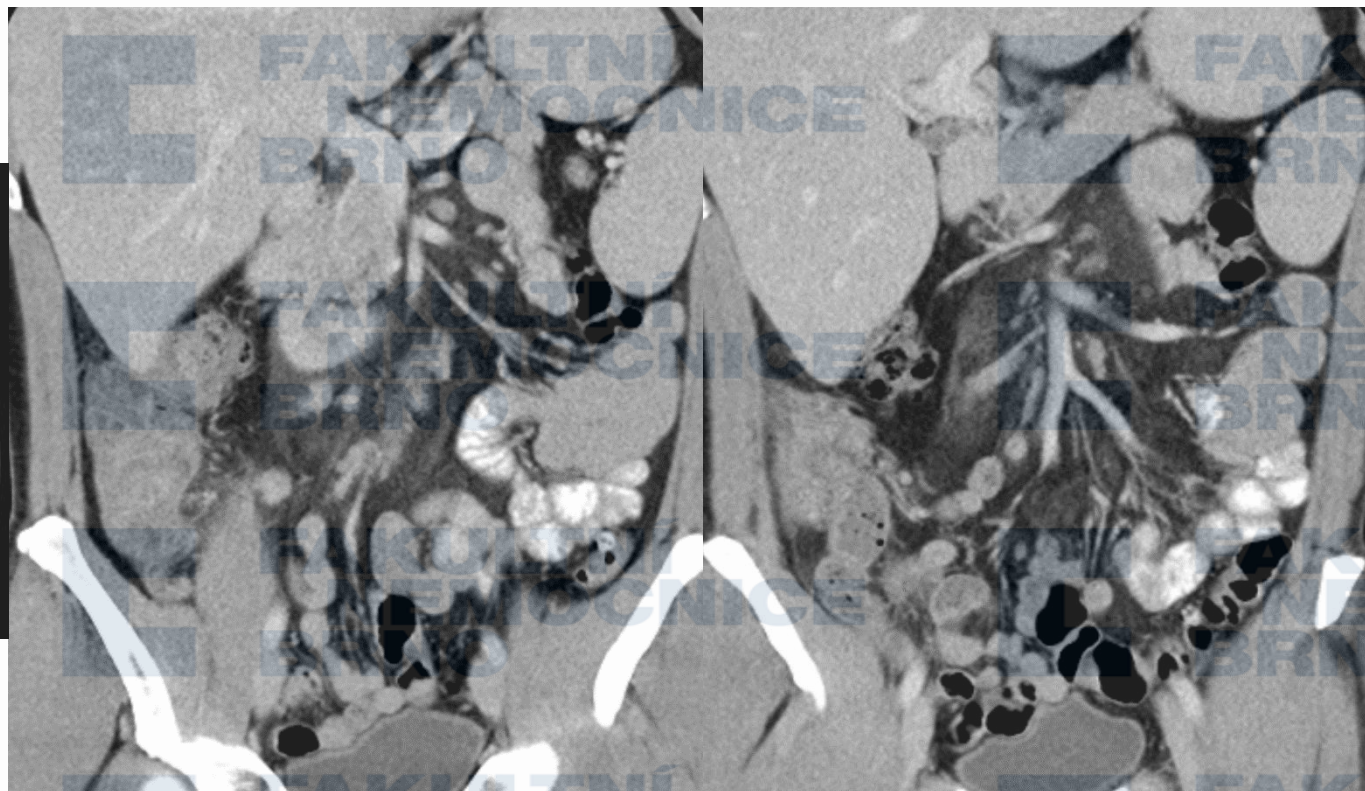
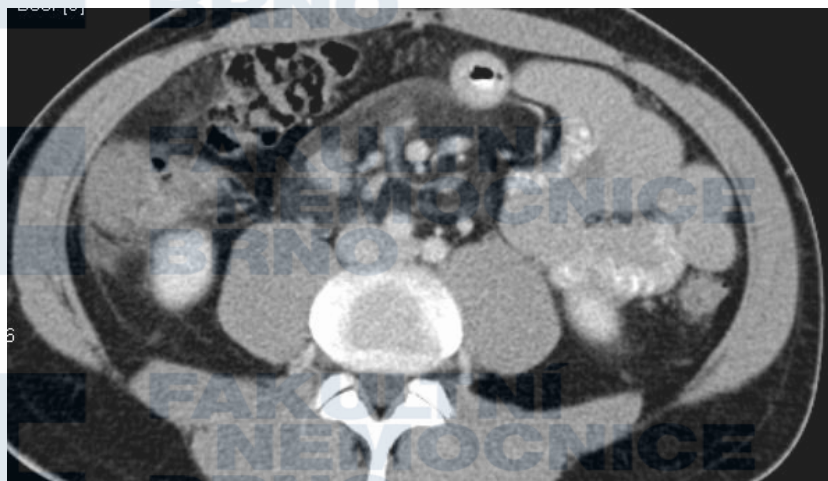
„Take home message“

střevní stěna - lokalizace, kontinuita – rozsah, tenké kličky x tračník

mezenterium, cévy

lymfatické uzliny

další ...





Děkuji za pozornost