

Differential Diagnosis of Bleeding to body cavities

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Bleeding to body cavities

- **GIT**
- **Peritoneal cavity**
- **Pleural cavity**
- **Lungs (+ airways)**
- **Urinary system**



Bleeding to body cavities

Massive – severe – life threatening

20% of all bleeding

Lost 500 ml asymptomatic

1000 ml tachycardia, hypotension, nausea,
thirst

> 2000 ml posthemoragic shock

HGB < 8g/dl

BP syst < 100 mm Hg

P > 100/min

> 2 transfusion units for stabilisation



GIT bleeding

- **Upper GI – peptic ulcer, bulbitis, hemorrhagic gastropathy, esophageal varices, tumors, Mallory-Weiss syndrome.**
- **Small intestine – Meckel diverticulum, intussusception, Crohn disease, mesenteric thrombosis, angio-dysplasia.**
- **Large intestine – hemorrhoids, tumors, colitis, diverticular disease, angio-dysplasia.**



Bleeding to GIT- manifestation

- **Hematemesis** – Vomiting blood, which may be red or coffee-ground in appearance (*esophagus, stomach, duodenum*)
- **Melena** – Black, tarry stool with a strong offensive odor – the source orally from caecum (*esophagus, stomach, duodenum, jejunum*)
- **Enterorrhagy** – usually from large intestine, could be from upper GIT !!!



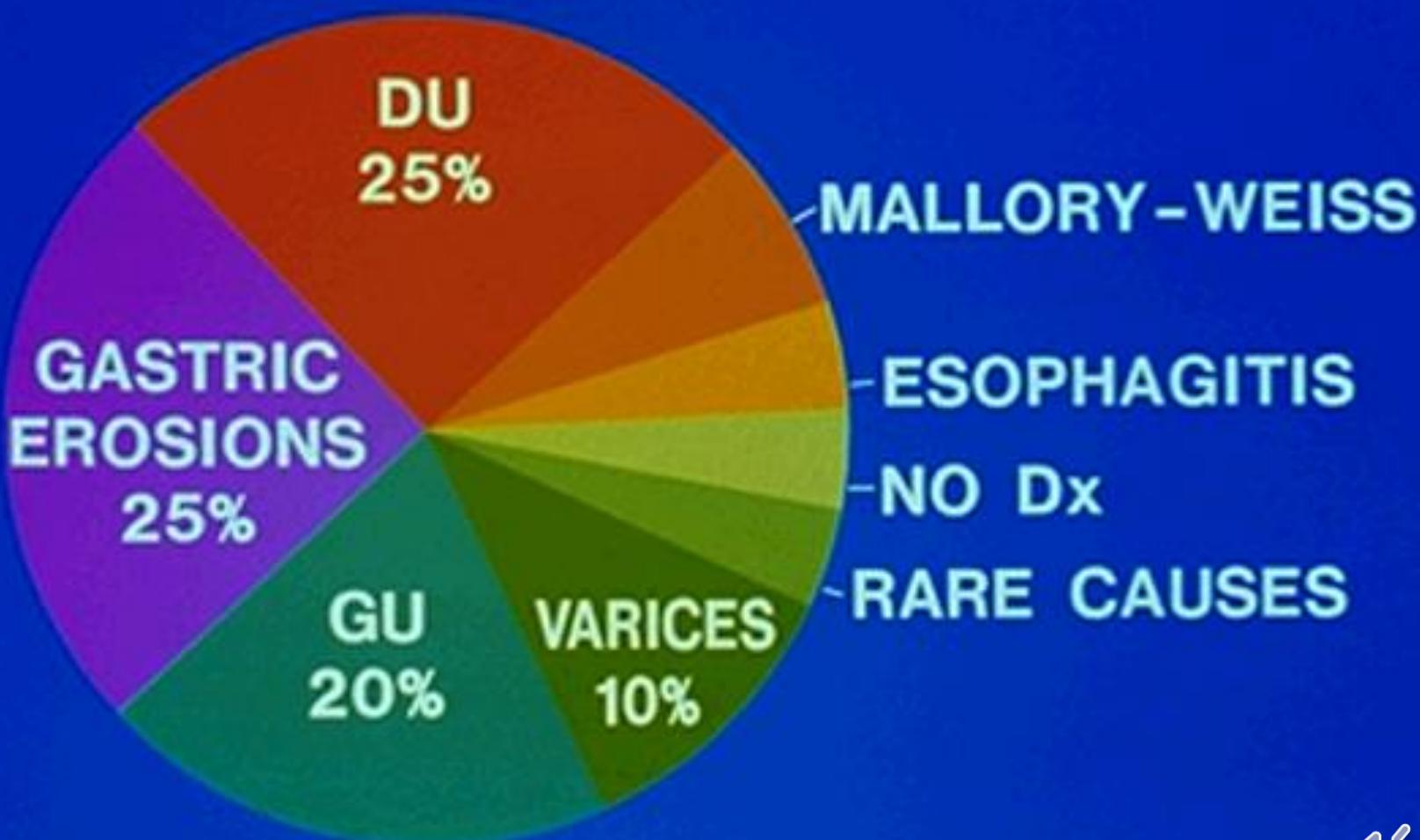
Bleeding to body cavities

Physical examination

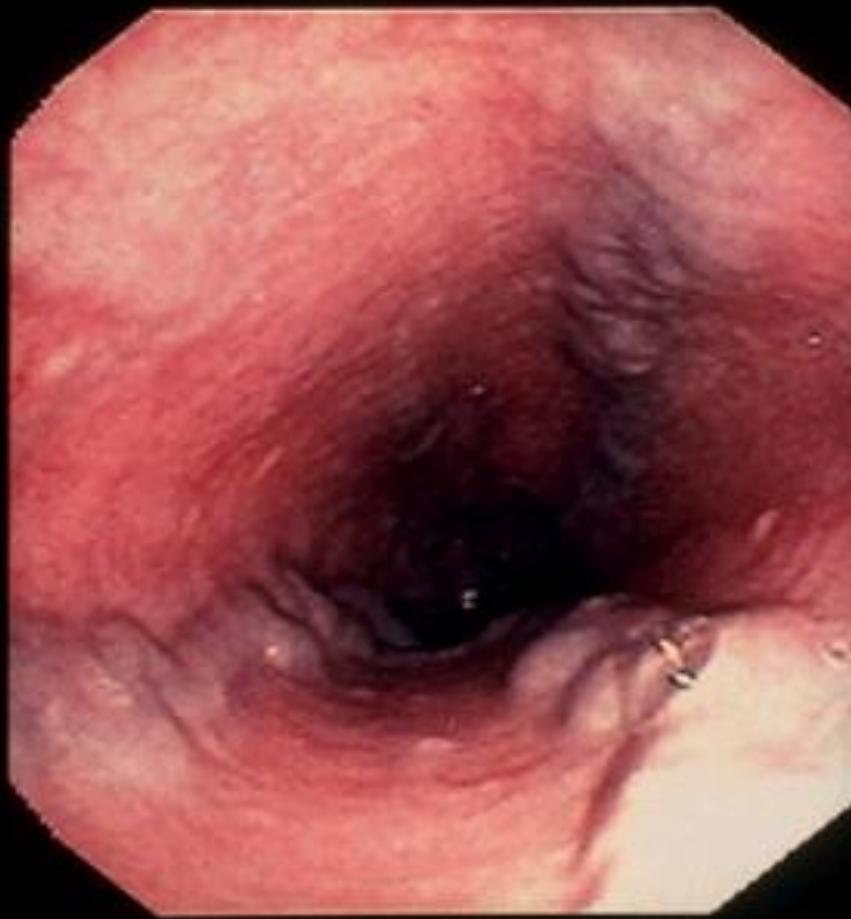
- Colour and temperature of skin
- Pigmentation, spider naevi
- Palmar erythema
- HR, BP, ortostasis
- Examination per rectum



UGI Bleeding **ETIOLOGY**









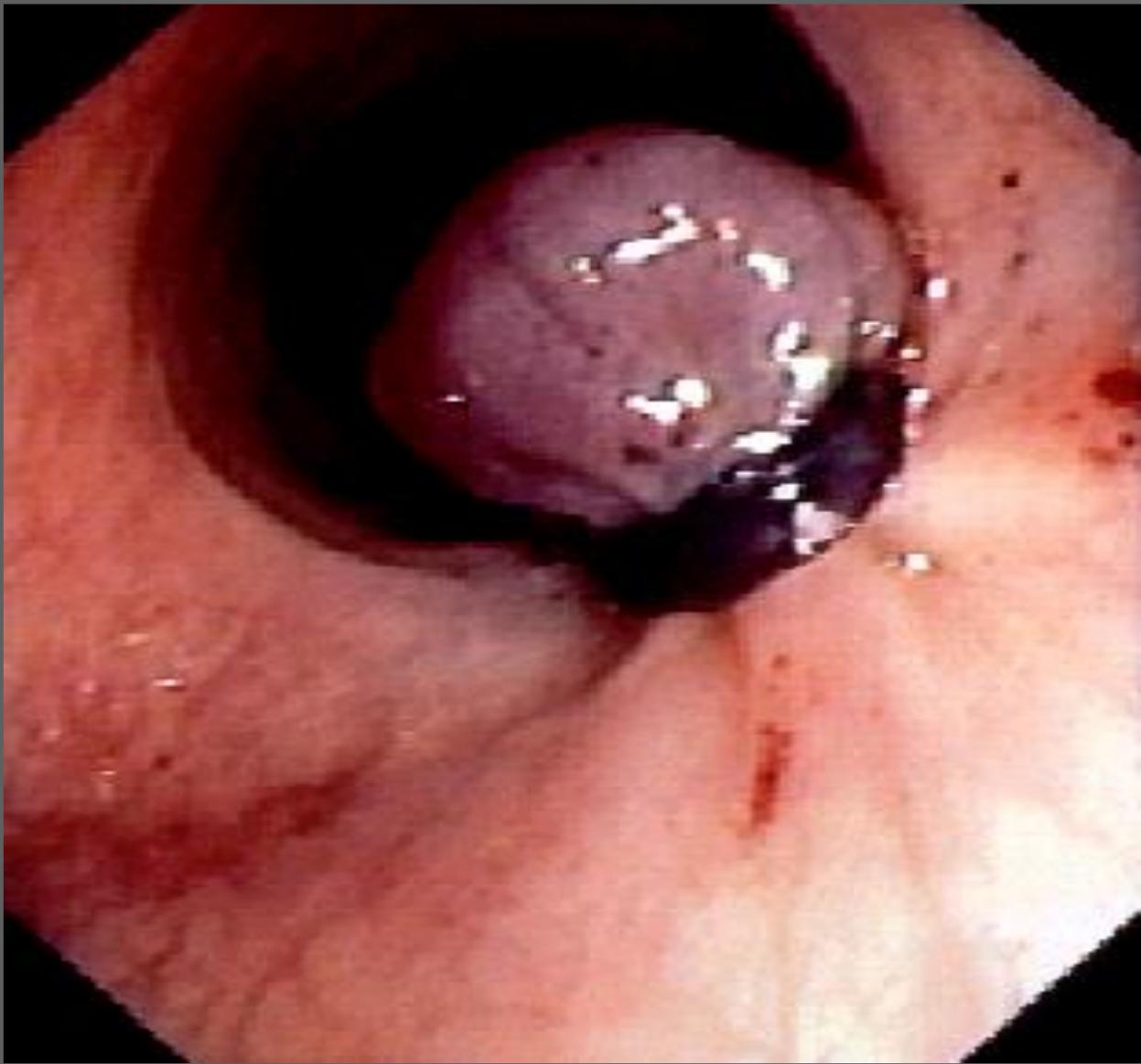


ACUTE VARICEAL BLEEDING

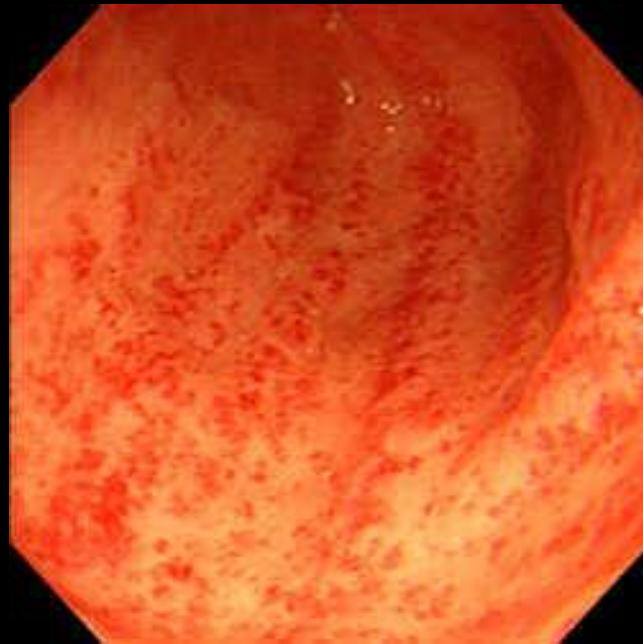
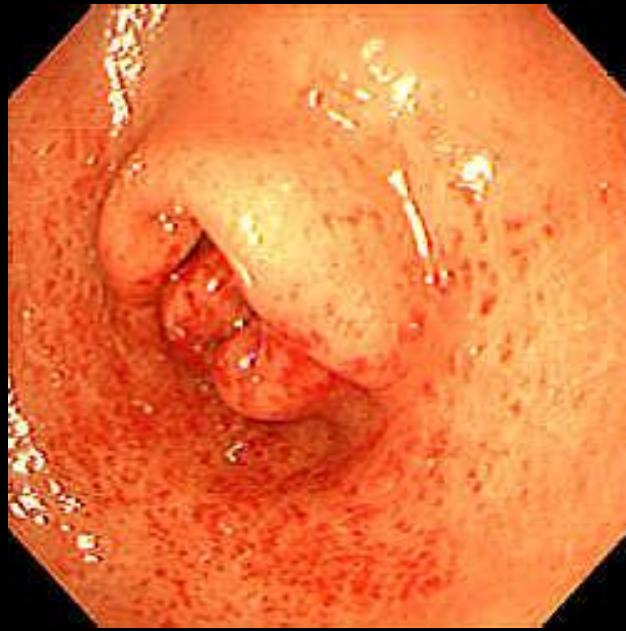
Endoscopic Ligation

- Bleeding controlled in 90%
- Rebleeding rate reduced to 30%
- Compared with sclerotherapy:
 - less rebleeding
 - lower mortality
 - less complications
 - fewer treatment sessions



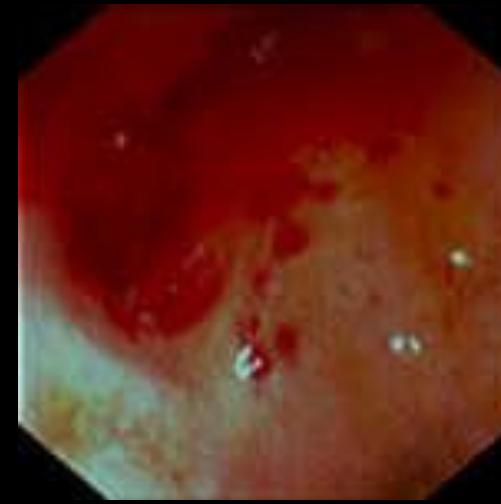
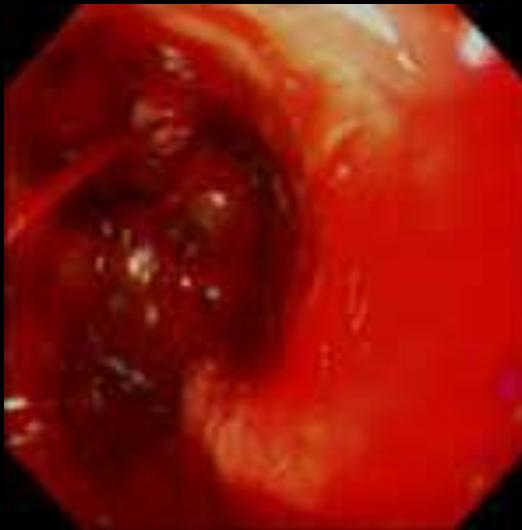




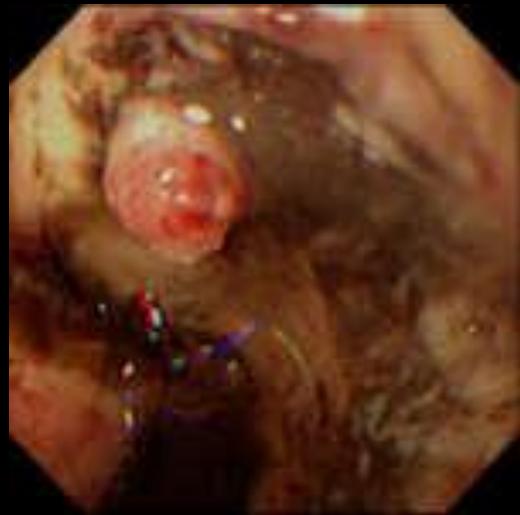


Forrest classification

1.



2.



CAUSES OF HEMOBILIA

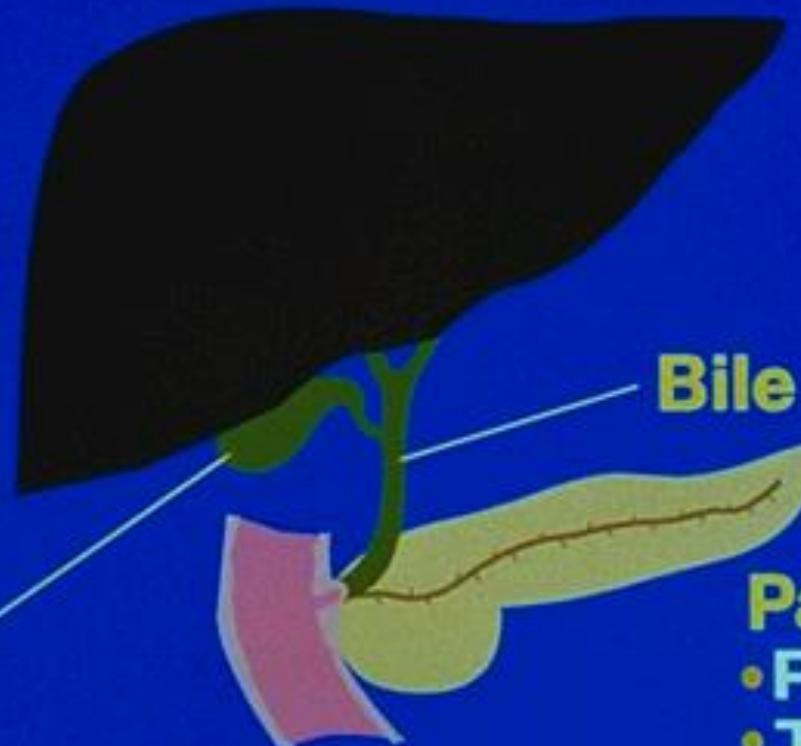
Liver 58%

- Trauma
- Biopsy
- Instrumentation
- Aneurysms
- Tumor

Gallbladder

20%

- Stones
- Tumor



Bile Ducts 20%

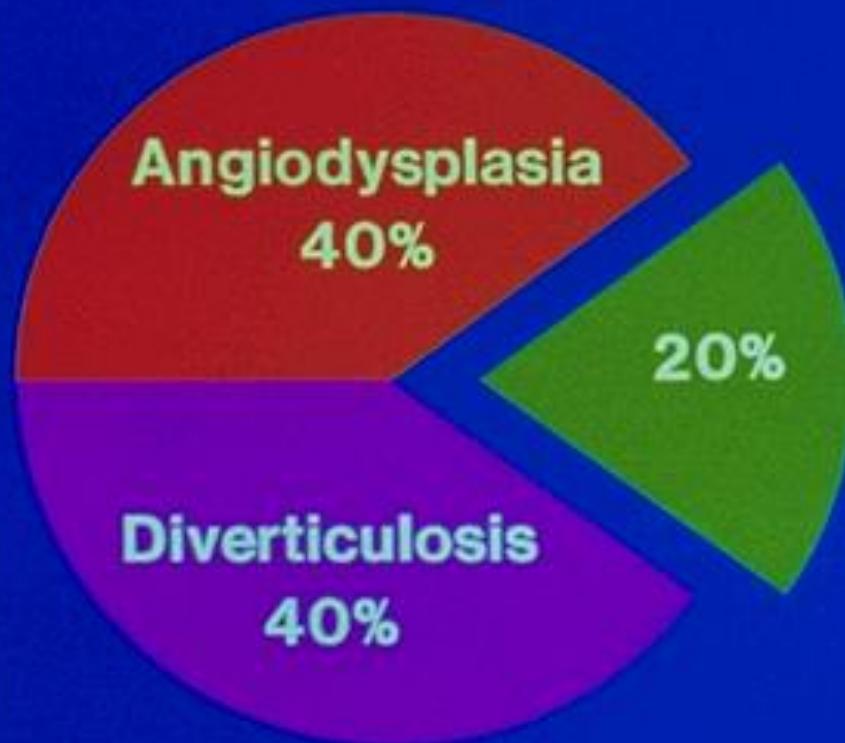
- Tumor

Pancreas 2%

- Pancreatitis
- Tumor
- Aneurysm
- Parasites



Major Lower GI Bleeding ETIOLOGY

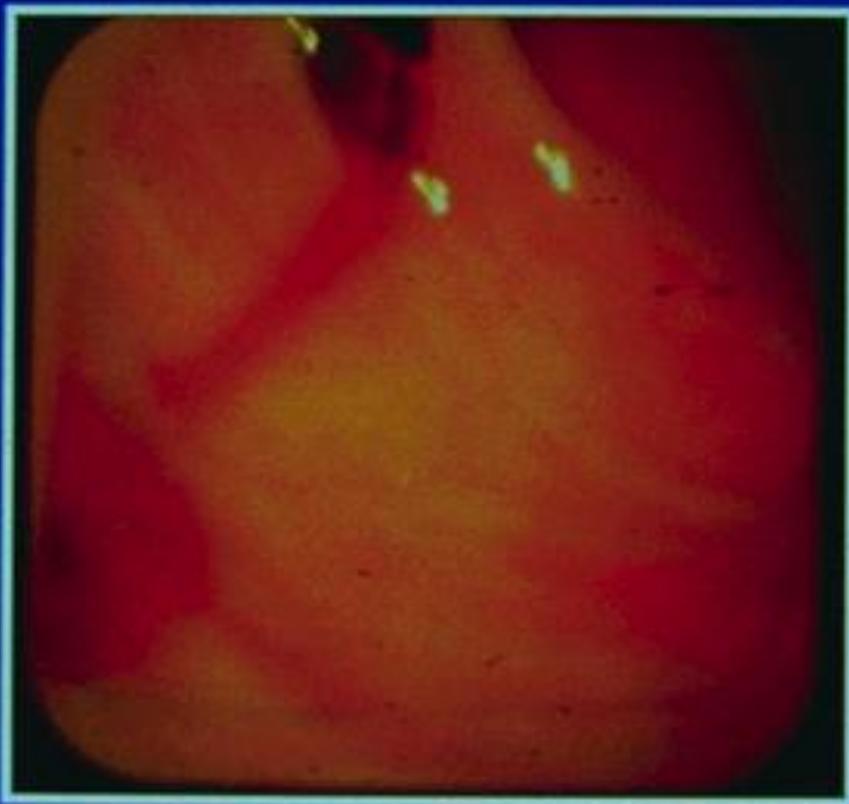


- Neoplasms
- Ischemia
- Colitis
- Ileal & colonic varices
- Meckel's diverticulum
- Hemorrhoids

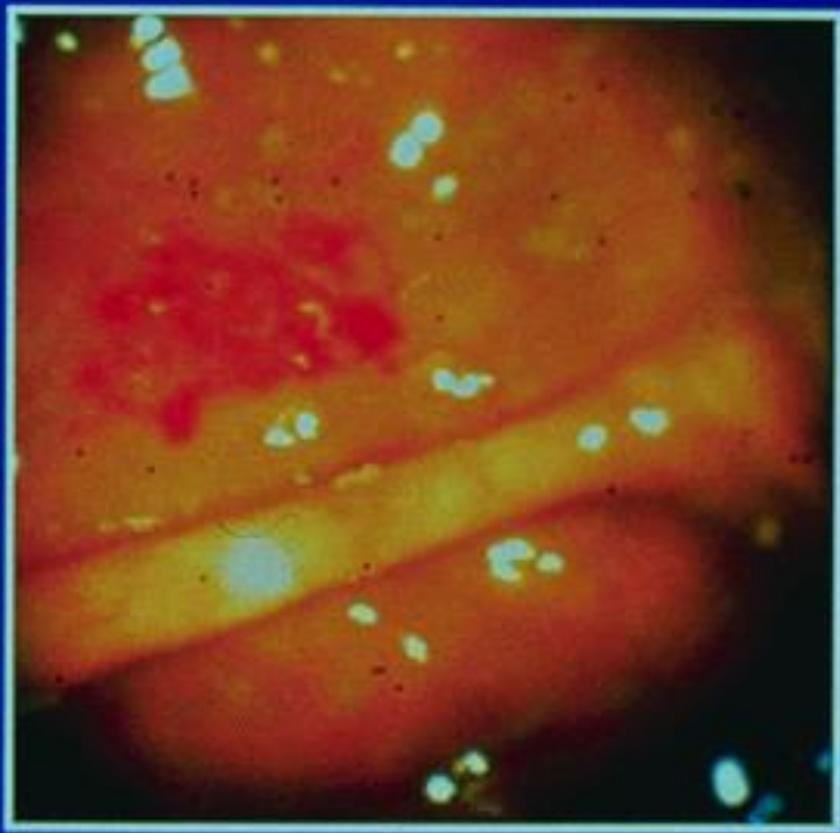
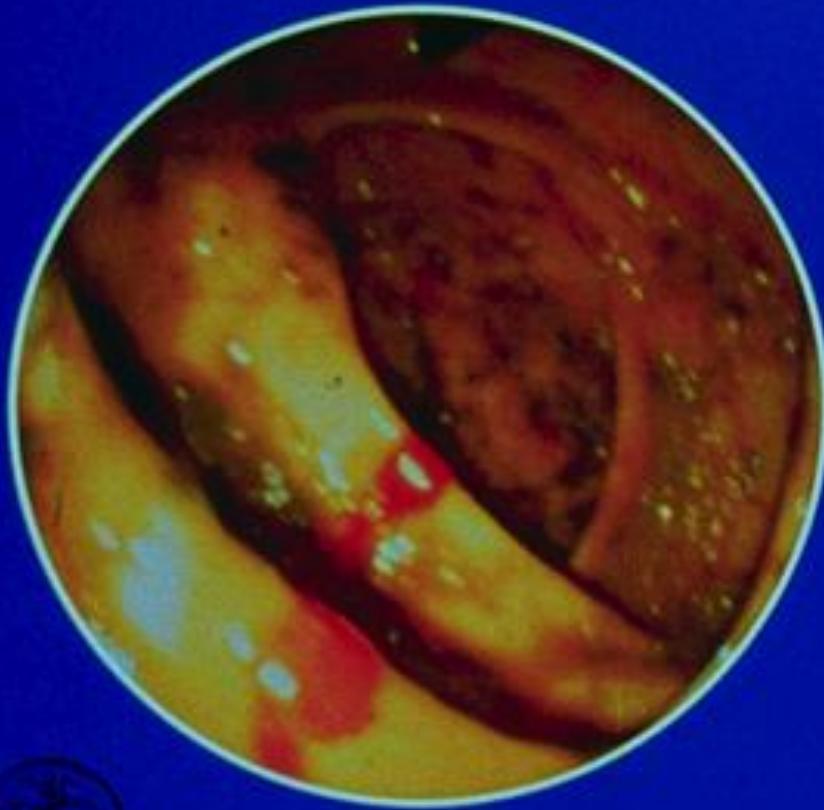


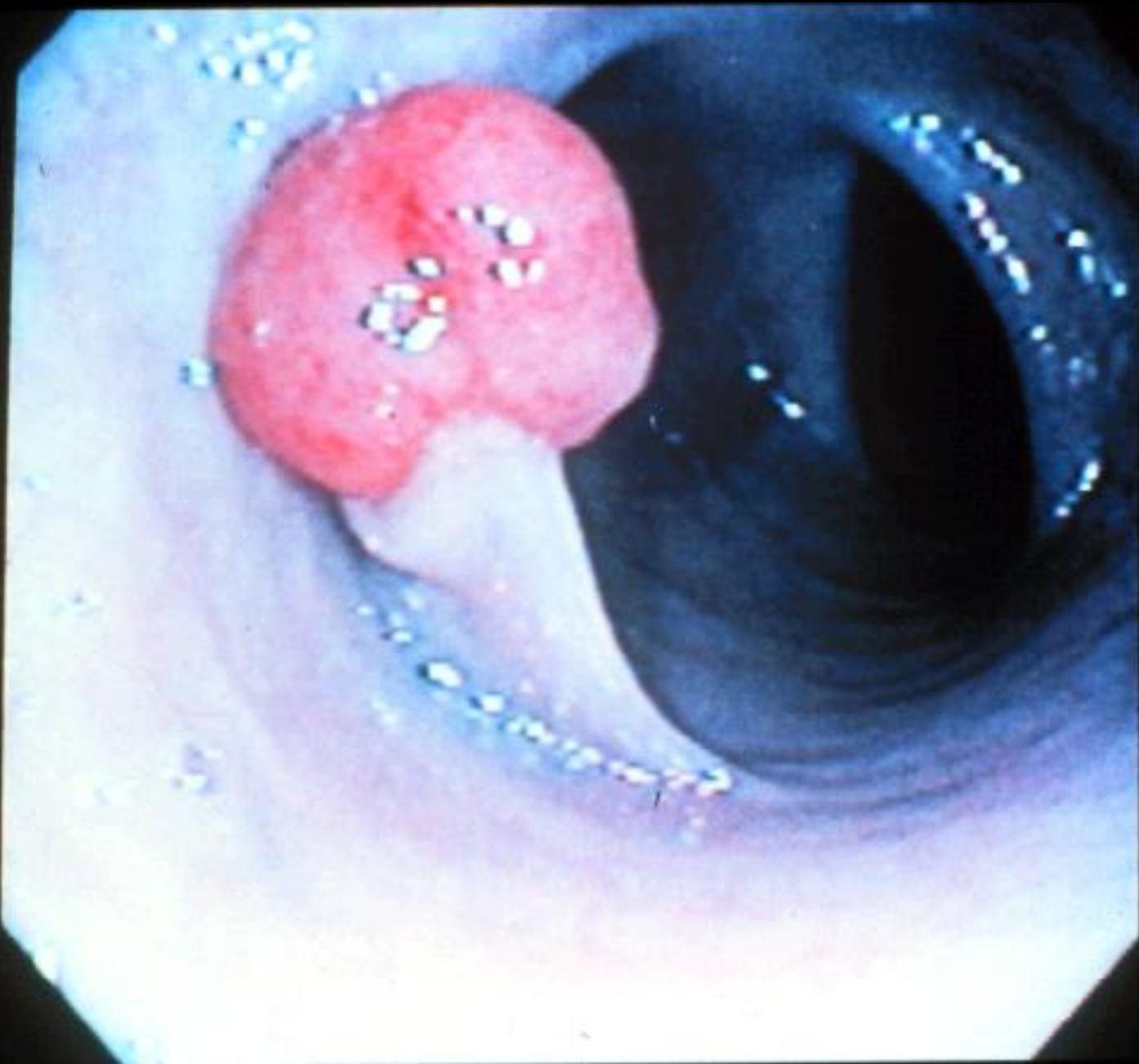


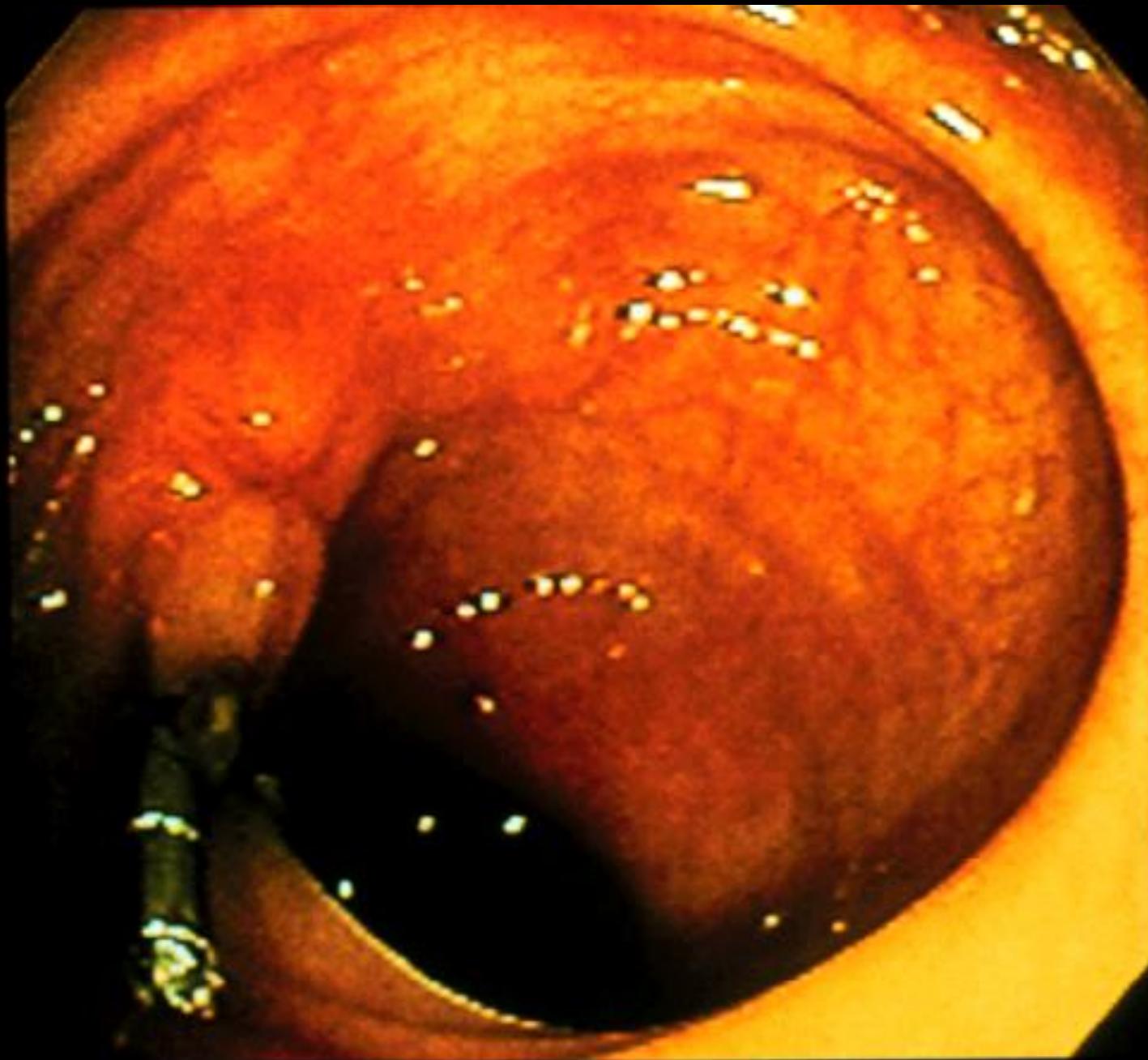
BLEEDING DIVERTICULUM



COLONIC ARTERIOVENOUS MALFORMATIONS

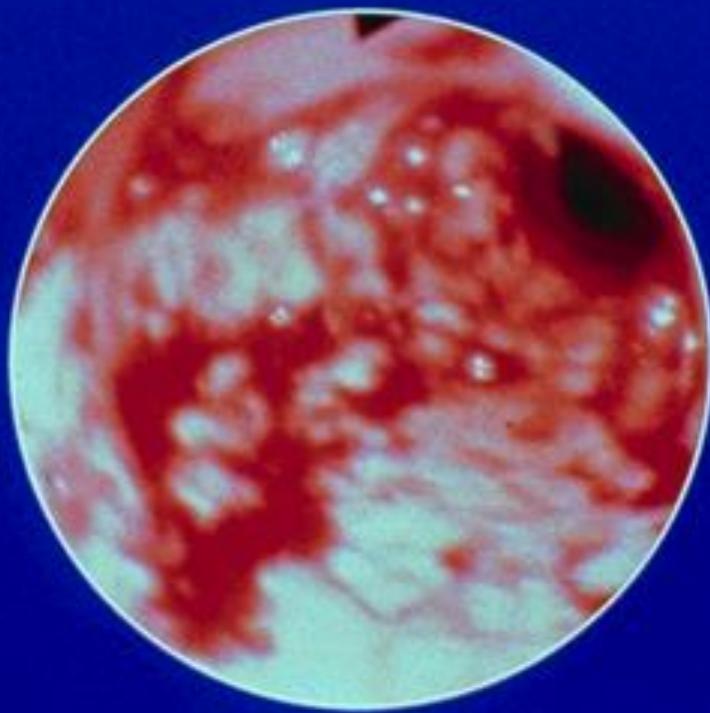






Intestinal Complications Of Ulcerative Colitis

BLEEDING



ENTEROCLYSIS



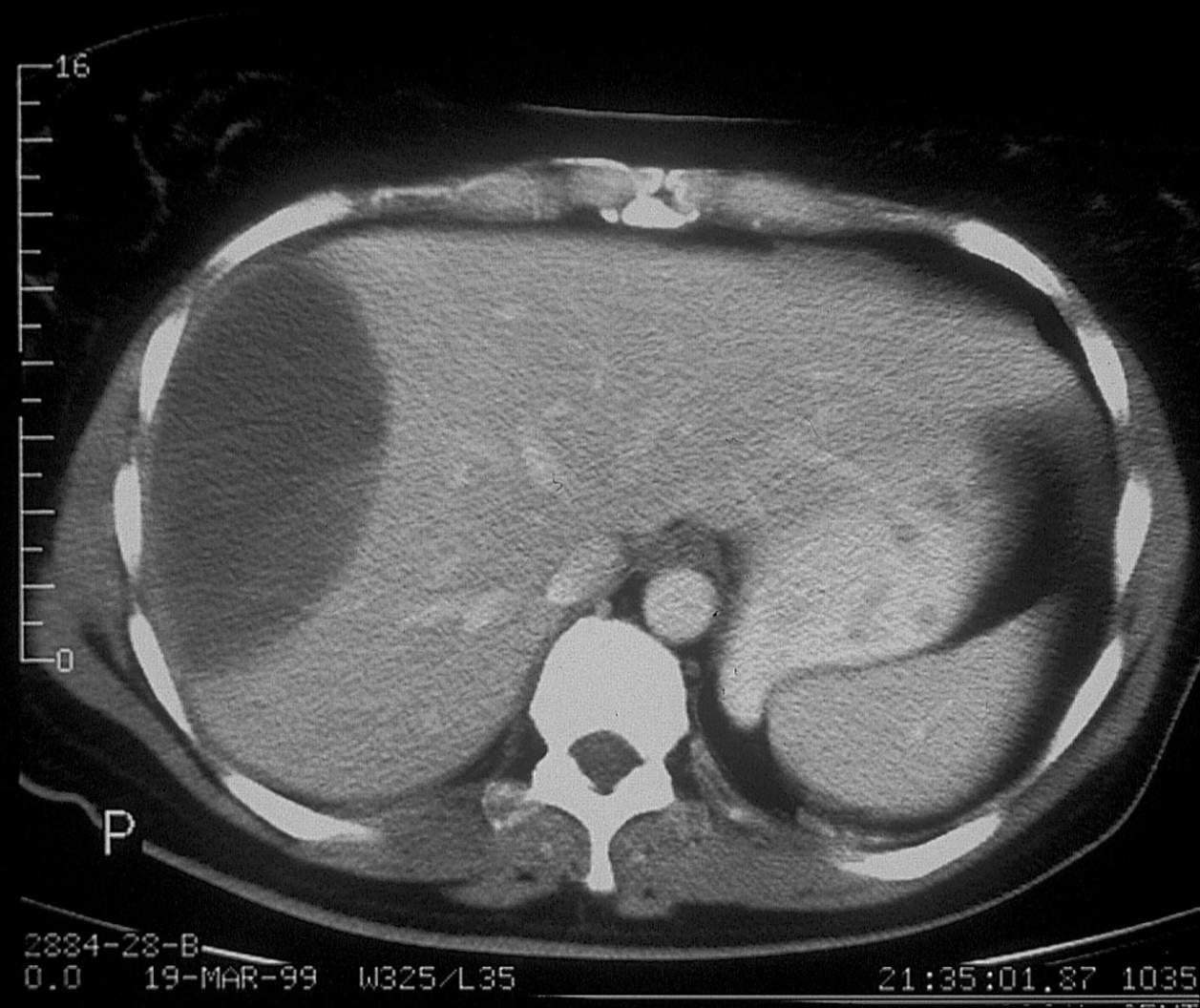
- CT (MR)
enterography
- Enteroscopy
- Capsule
endoscopy



Bleeding to peritoneal cavity

- **Iatrogenic** (biopsy, puncture of ascites, drainage)
- Tumours (HCC, ovary, meta)
- TBC
- rare – acute pancreatitis, aneurysm, spontaneous





Bleeding to pleural cavity

x hemoragic effusion

- iatrogenic (central vein cathetrisation, effusion puncture, liver puncture)
- Tumours
- Bronchiectasy
- Vessel malformation



Bleeding to air ways

- Pneumonia
- Embolism
- TBC
- Lung tumours
- Bronchiectasy
- Origin in ORL region



Thank you

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MS Teams (*Internal Medicine - Gastroenterology 20/21 B80304*)

Moodle (<https://dl1.cuni.cz/course/view.php?id=9939>)

<https://int4.lf1.cuni.cz>

