

대한소화기암연구학회 2023년도 제38회 학술집담회

동국대학교 일산병원 소화기내과 정윤아/오동준

Patient information

- 52/F

Chief complaint

- Melena (onset : 내원 3일 전)

Initial laboratory finding

CBC 5580/uL-**6.8**g/dL-293k/uL

BUN/Cr 15.4/0.54 mg/dL

Total Protein 5.8 (6.4~8.3 g/dL)

Albumin 4.0 (3.4~5.1 g/dL)

Total Bilirubin 0.3 (0.2~1.3 mg/dL)

AST 13 (0~37 IU/L)

ALT 6 (0~41 IU/L)

ALP 45 (35~129 IU/L)

LDH 166 (116~243 IU/L)

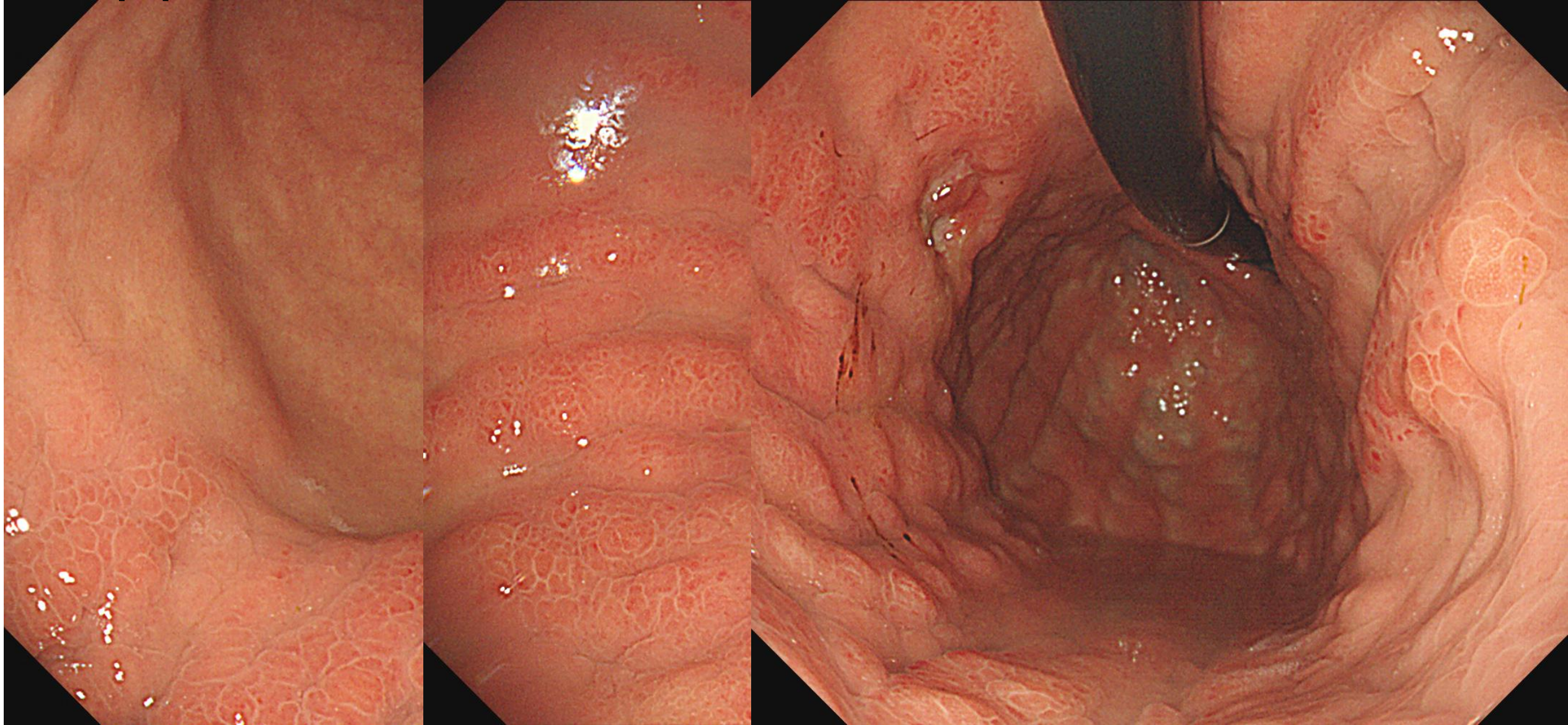
Ferritin **3.88** (13.0~130 ng/dL)

Iron(Fe) **15** (50.0~160 ug/dL)

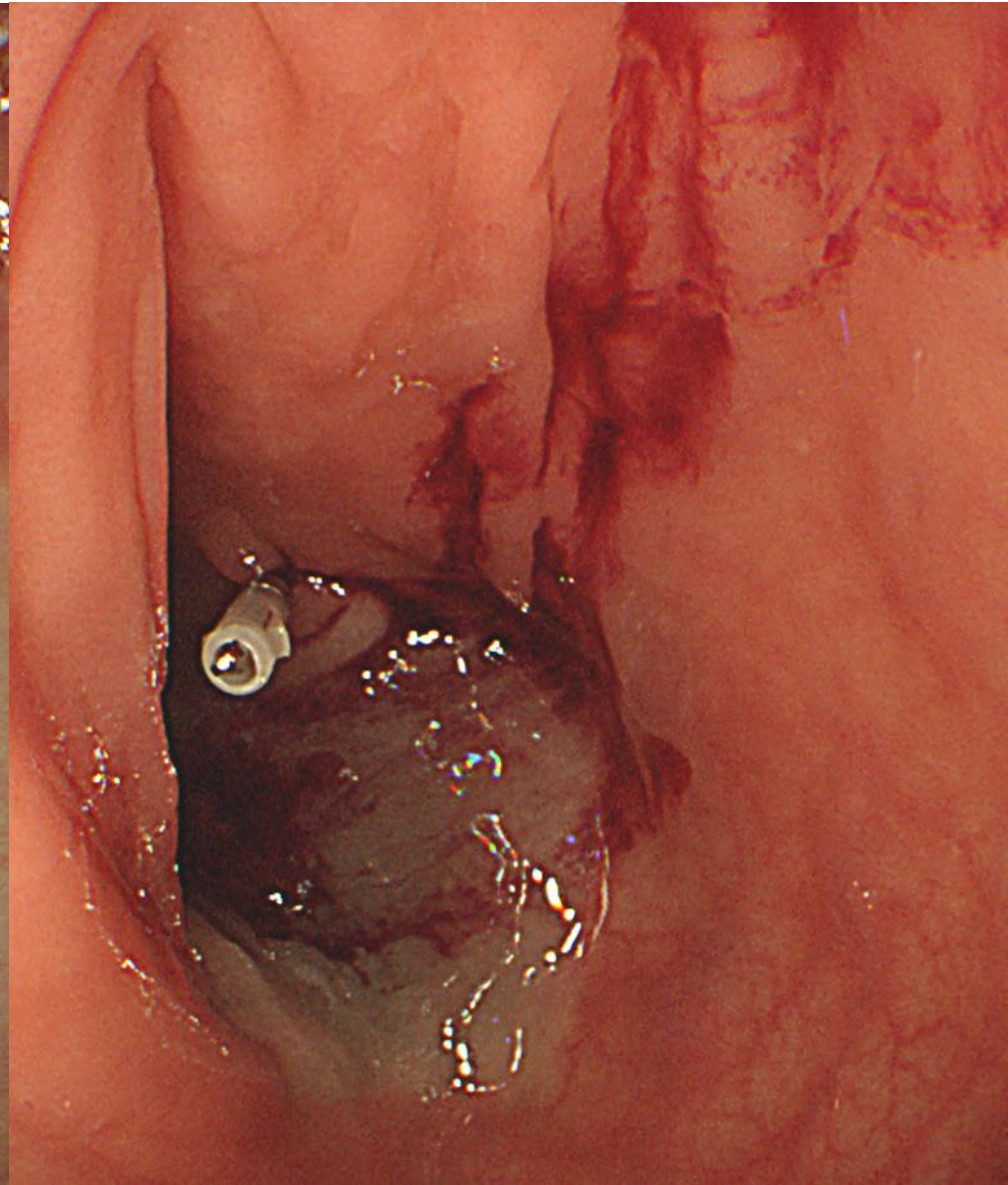
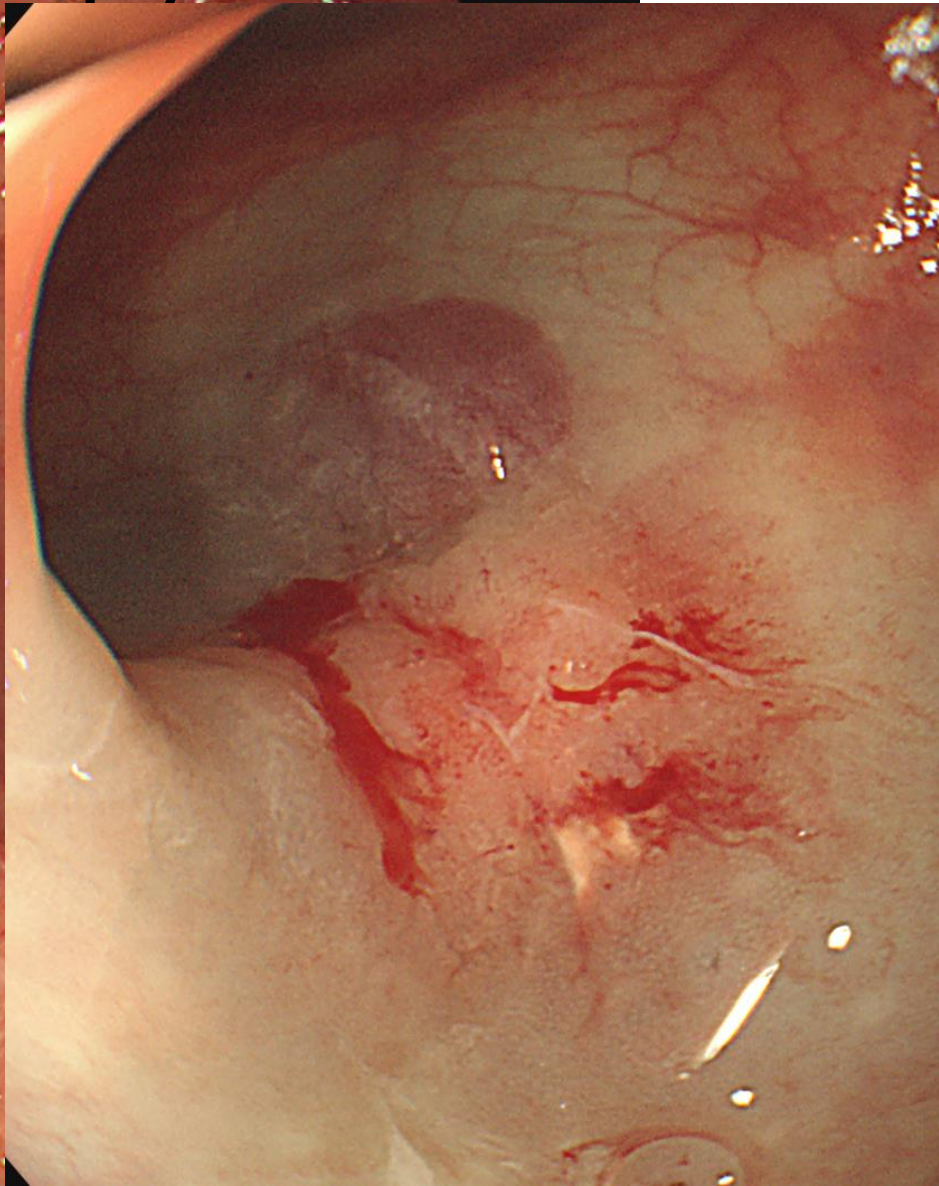
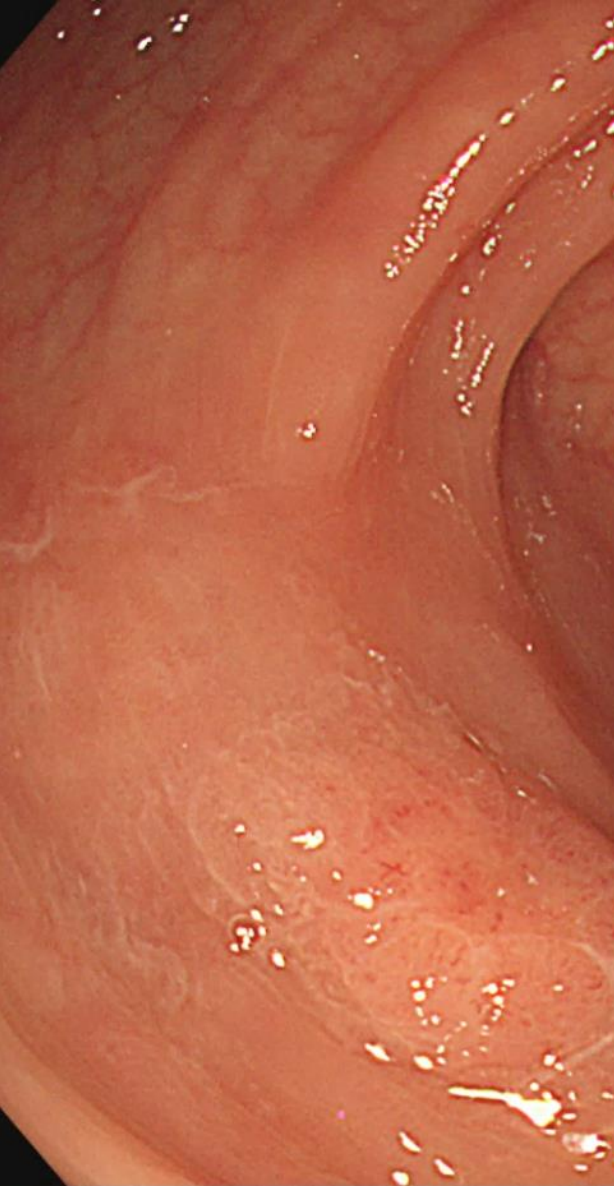
TIBC 399 (200.0~410 ug/dL)

Transferrin Saturation (Tsat) **4** (20~50%)

Upper endoscopy

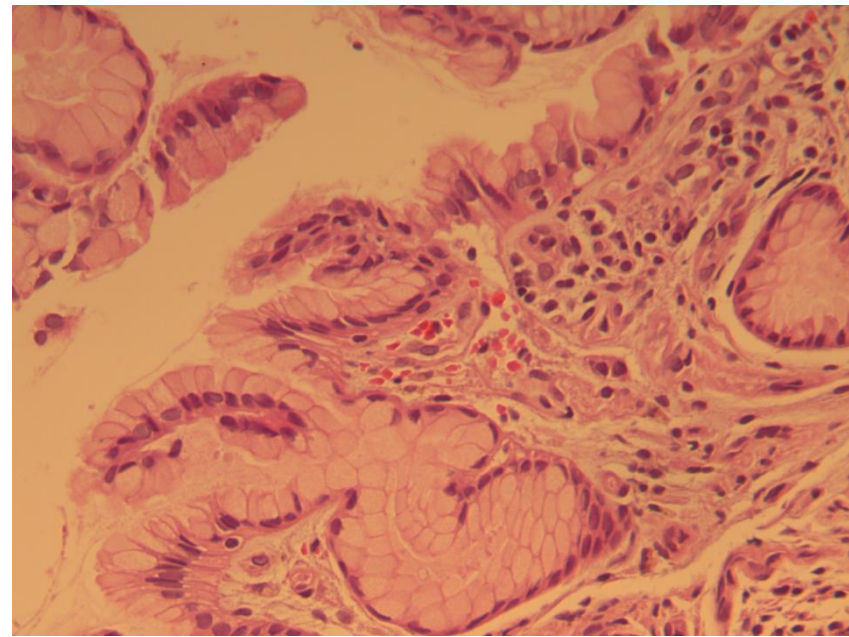


Colonoscopy

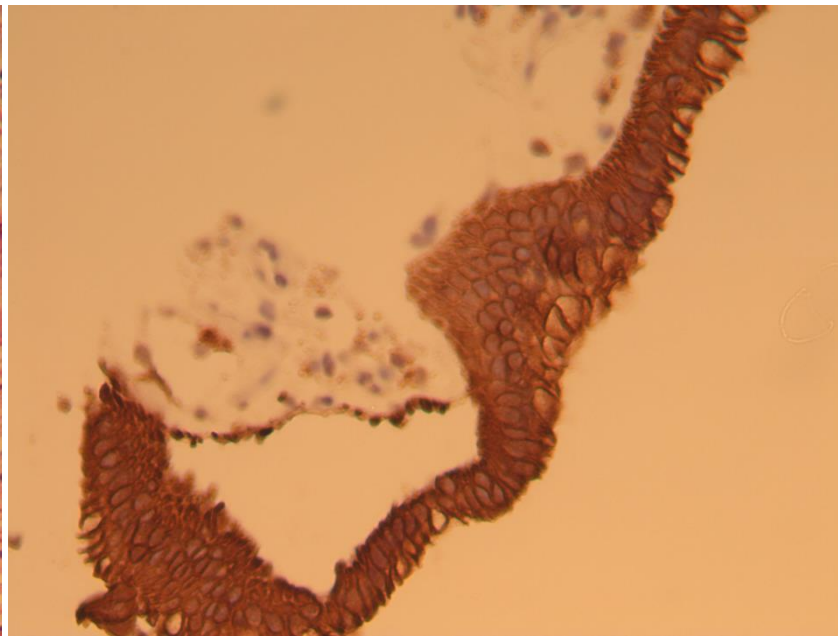


Endoscopic biopsy (Stomach)

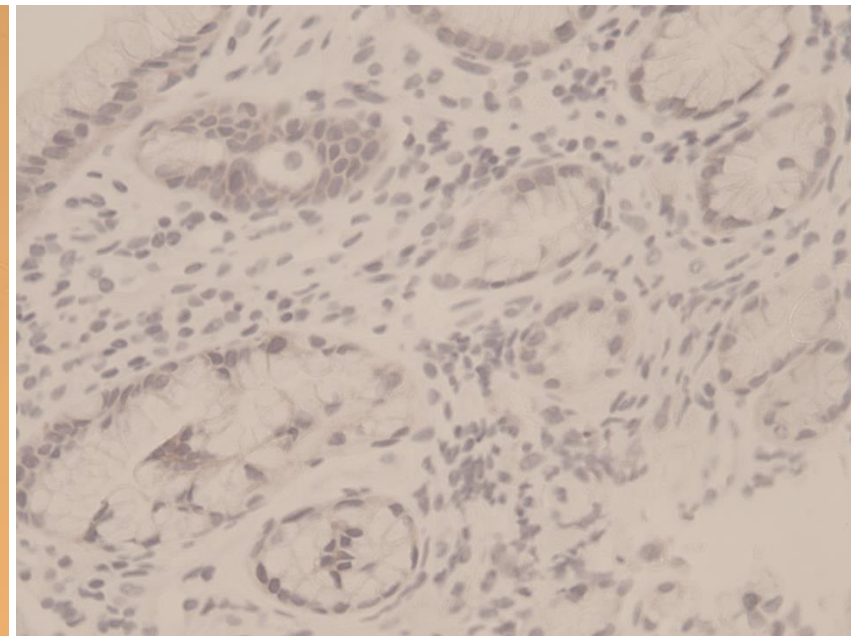
Poorly cohesive carcinoma



<H&E staining>



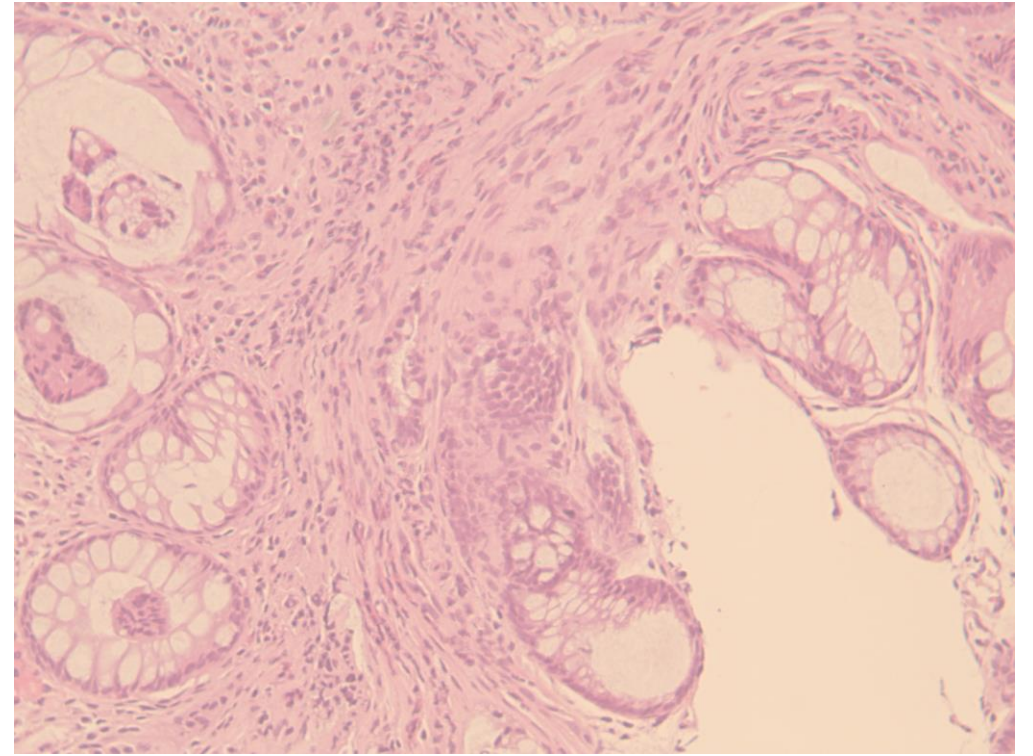
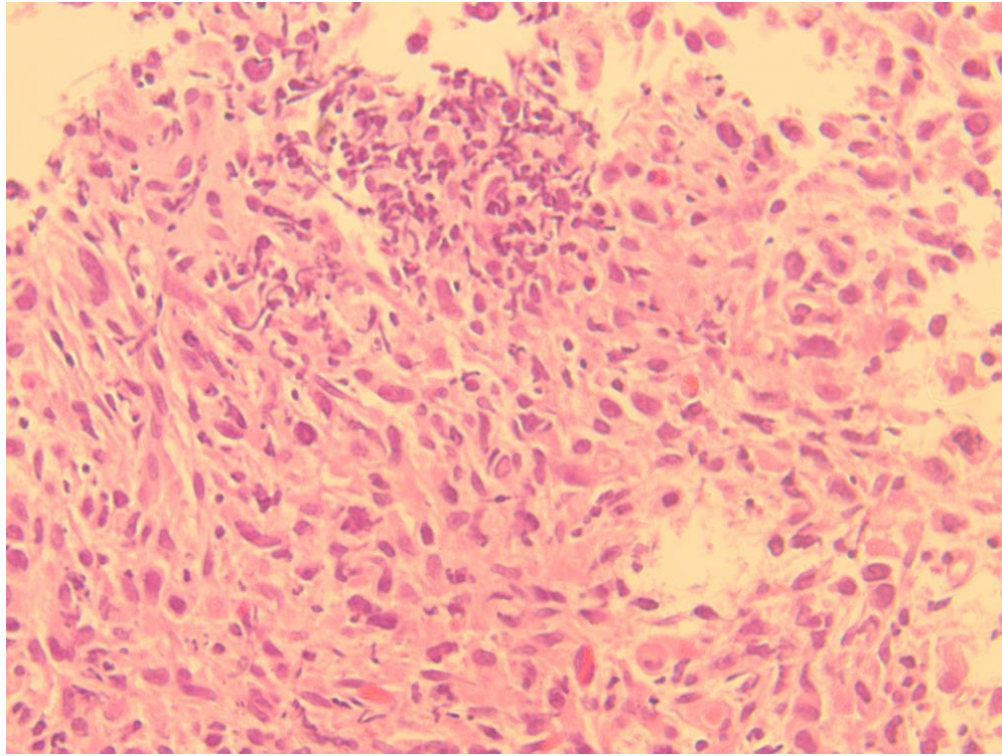
<IHC staining: CK(PAN) positive>



<C-erbB2 (HER2/neu) negative>

Endoscopic biopsy (Colon)

Most likely poorly differentiated carcinoma
(quite *similar* to that of the stomach tumor cells)



<H&E staining>



Initial assessment

Advanced gastric cancer (Borrmann 4, Poorly cohesive carcinoma)
with Colonic metastasis

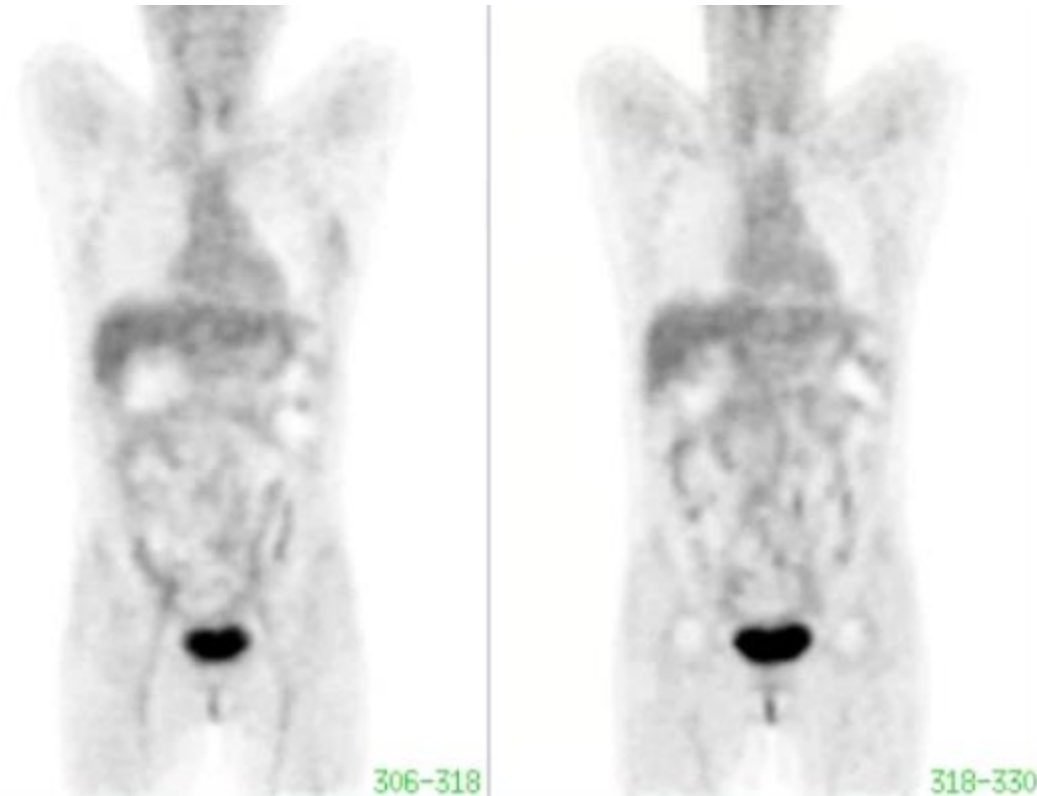
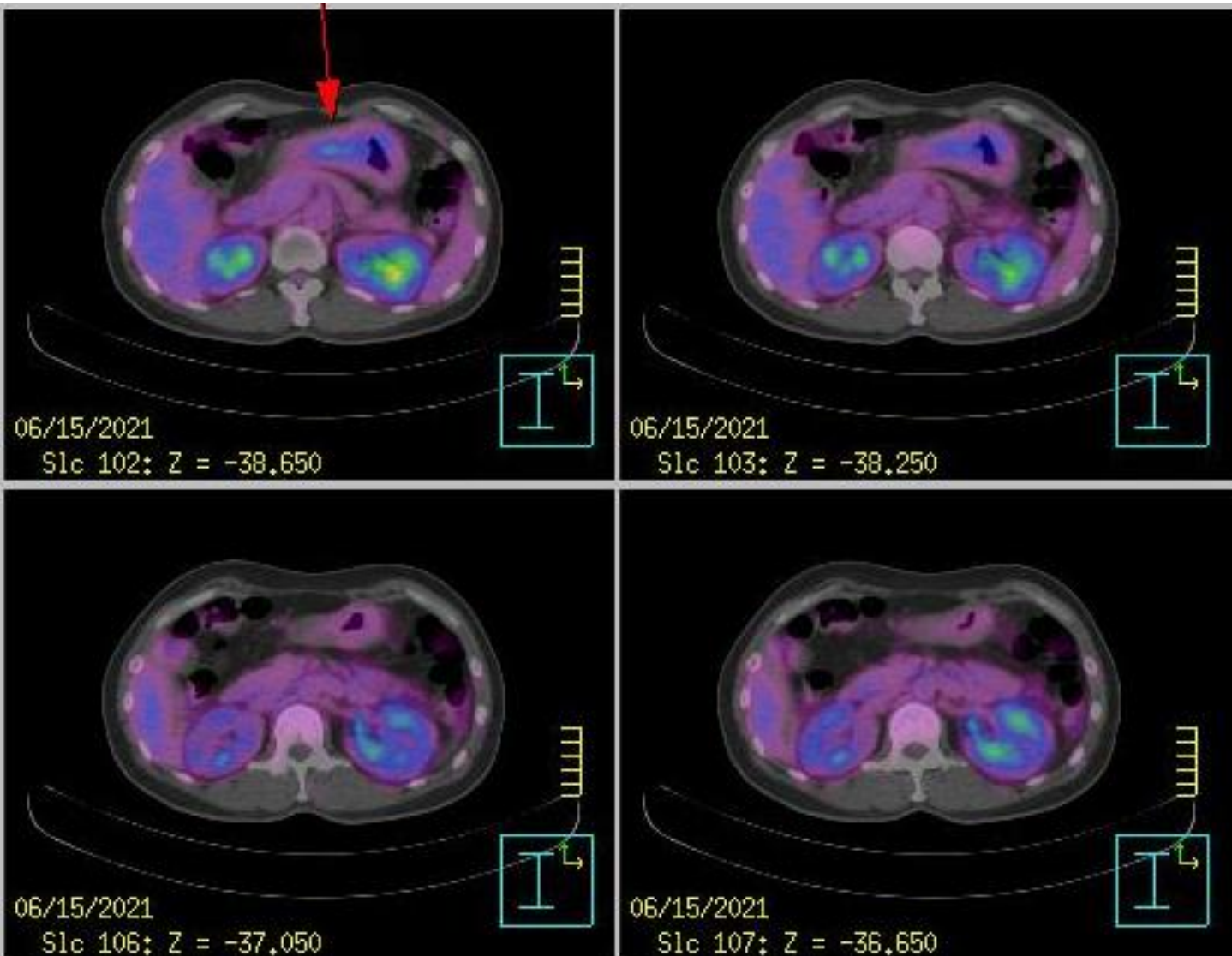
Chest + Abdomen & Pelvis CT



No definite metastasis

Whole body PET-CT

CEA 0.1ng/mL (0~3)



No definite metastasis

Assessment & Plan

AGC (Borrmann type 4) with colon-limited metastasis

Things to consider>

False negatives or invisible peritoneal metastasis on imaging tests

Therapeutic plan>

Diagnostic Laparoscopy

→ Surgical resection if possible (Total gastrectomy with sigmoid resection)

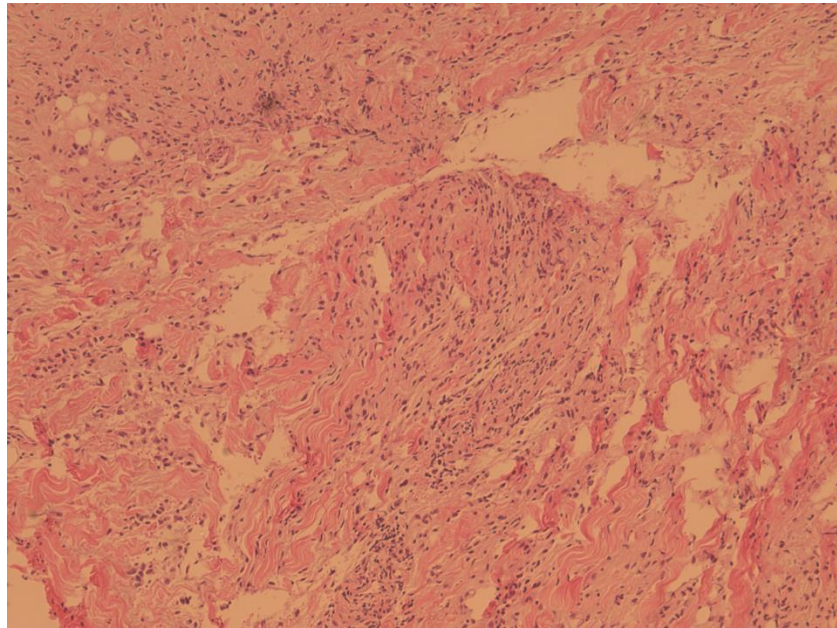
Diagnostic Laparoscopy



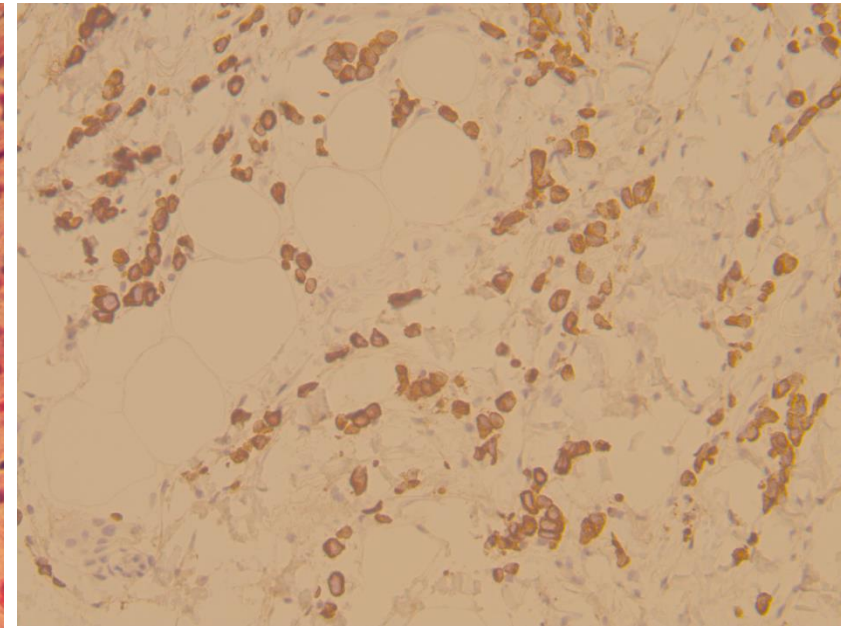
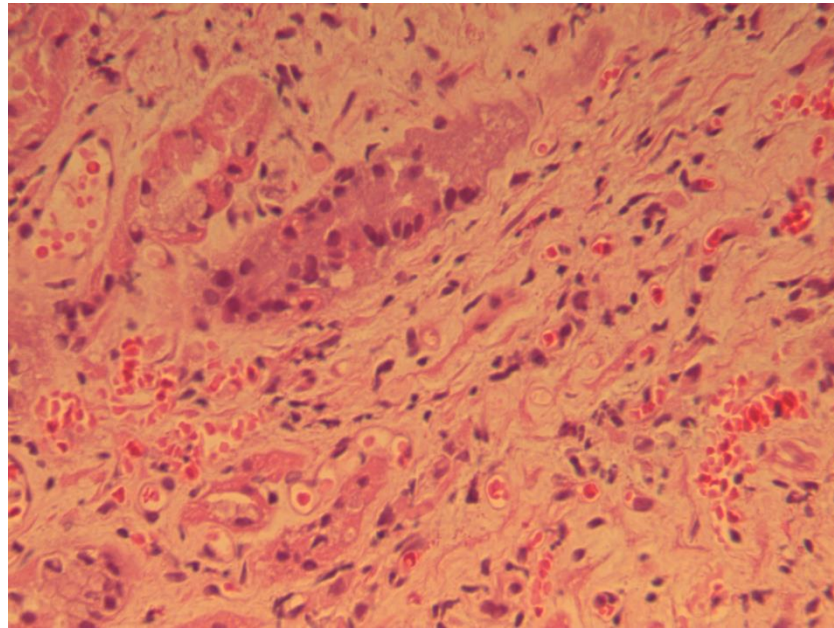
R/O peritoneal metastatic nodules

Frozen biopsy

Peritoneal metastatic carcinoma from stomach



<H&E staining>



<IHC staining: CK (PAN) positive>

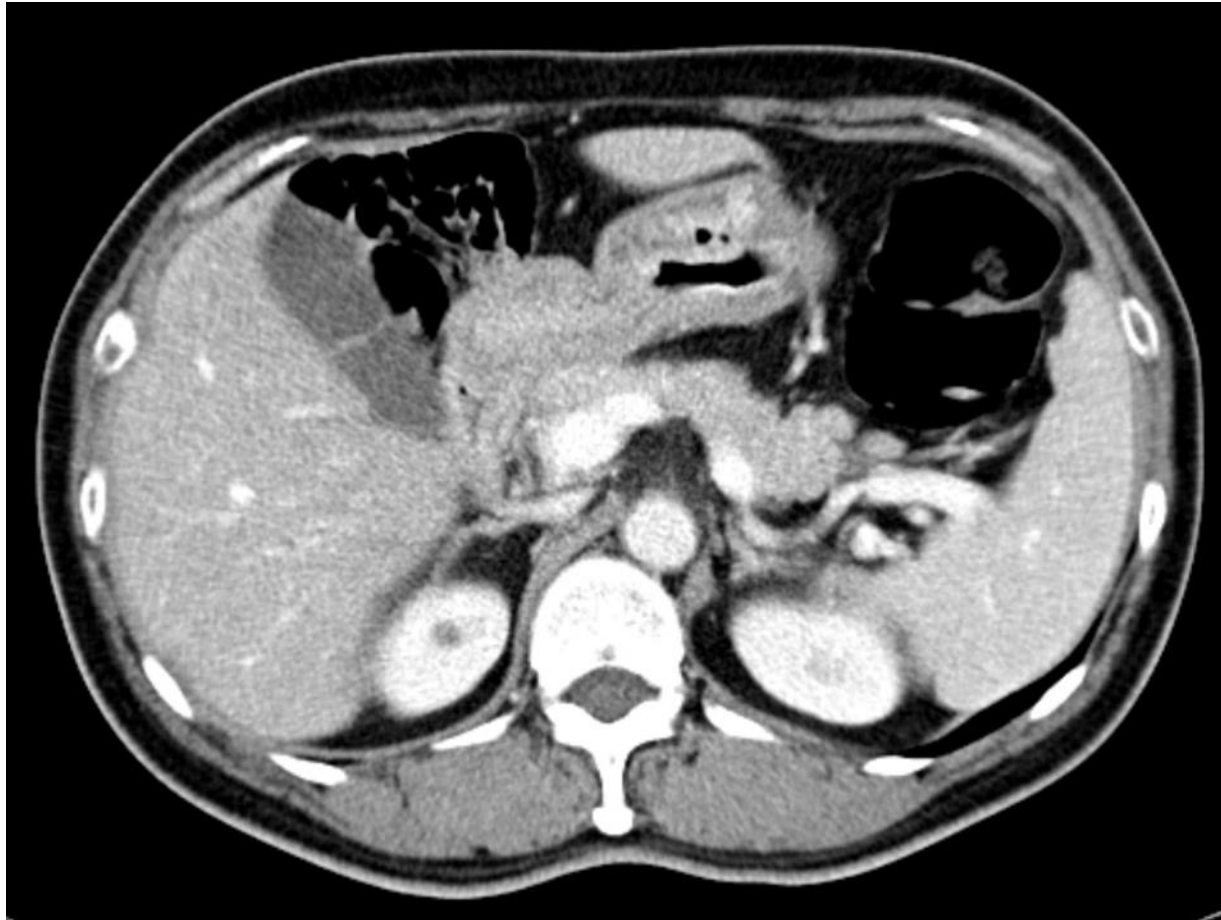
Assessment & Plan

- AGC with peritoneal and colon metastasis
(Poorly cohesive carcinoma, HER2 negative)

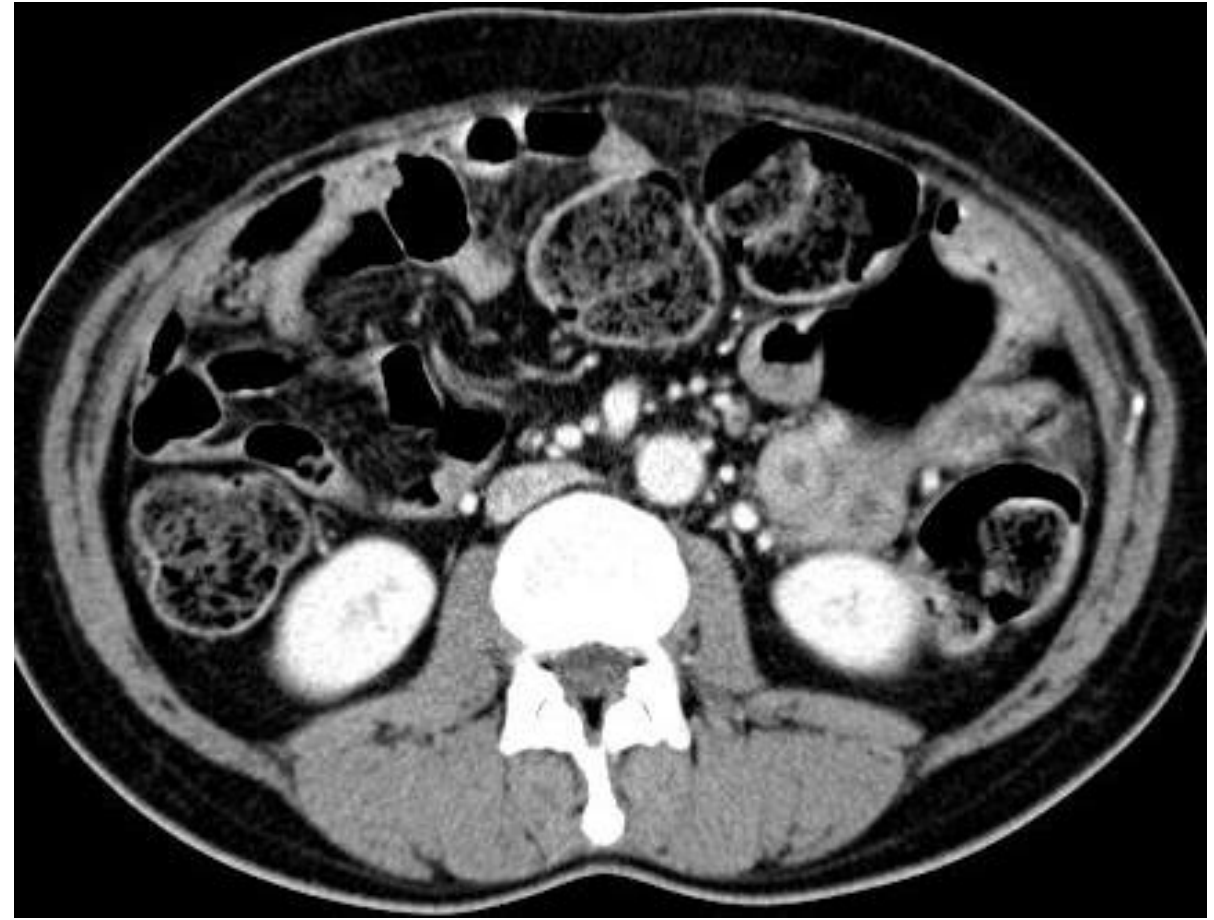
Therapeutic plan >

- Palliative chemotherapy
: 1st line FOLFOX + Nivolumab (비급여)

Follow up APCT after 6 cycle



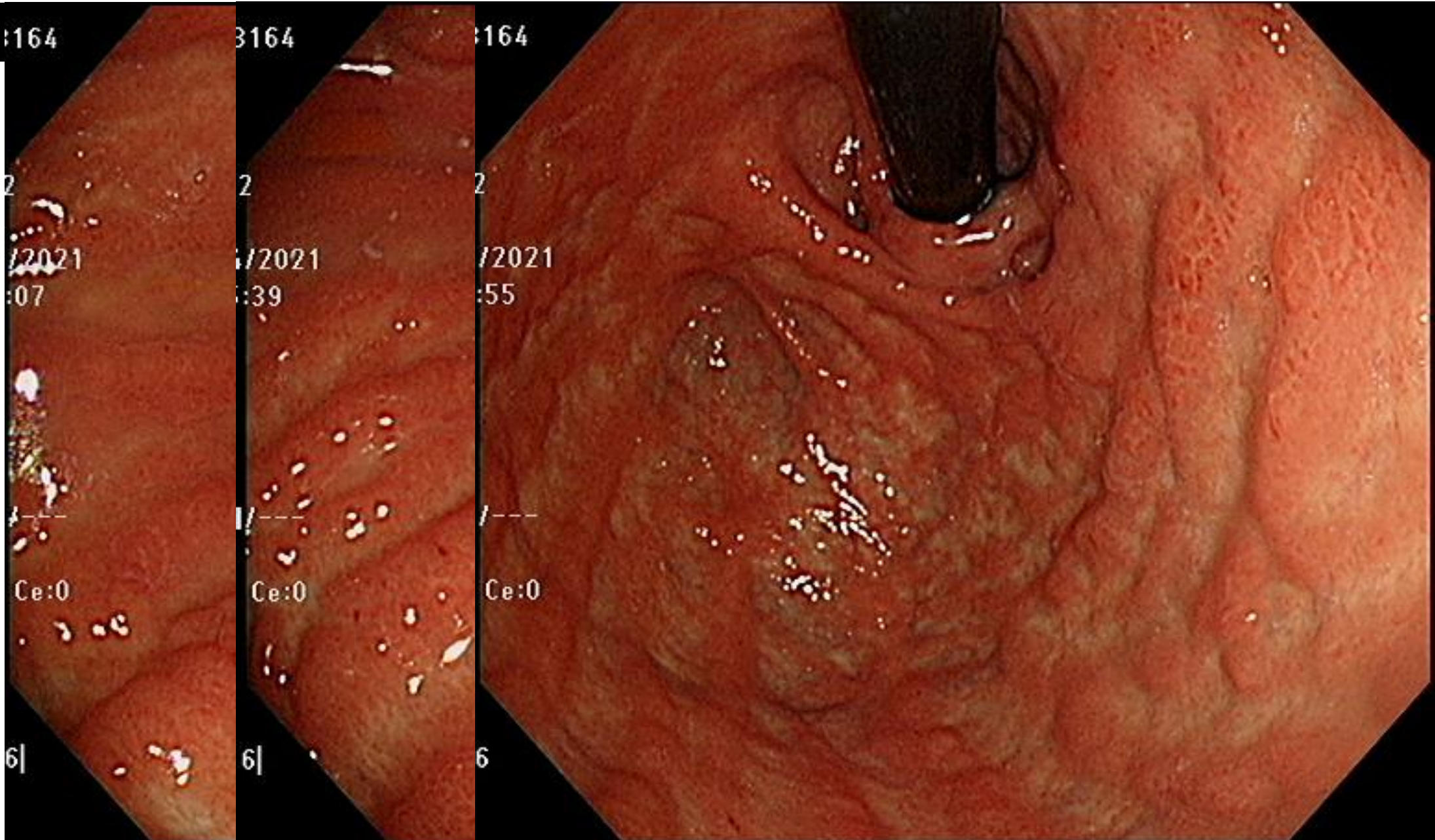
Improved gastric wall thickness



Improved peritoneal infiltration

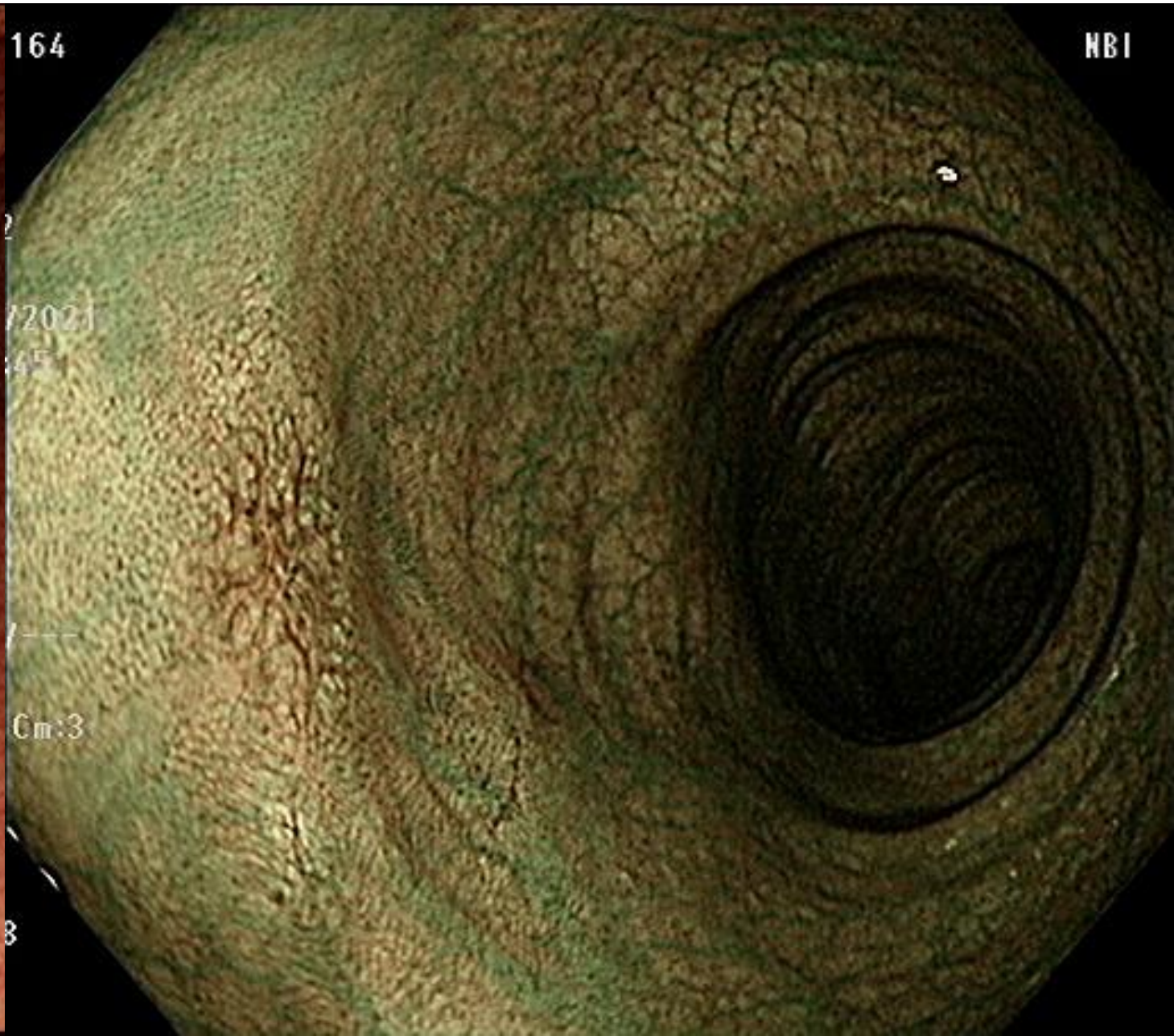
A few individually infiltrated poorly cohesive carcinoma

For



No evidence of malignancy

For



Disease course & Plan

- No progression until 6th cycle chemotherapy
 - Suffered chemotherapy induced peripheral neuropathy
 - Patient's willingness for operation
 - Young age
-
- With decisions shared by multidisciplinary team
→ **Radical surgery** (debulking >> conversion)

Surgical specimen

Op finding: Peritoneal seeding이 많이 호전되어 sigmoid colon invasion는 제거하지 않음.



Pathology

- Total gastrectomy with cholecystectomy, appendectomy, and metastectomy:
Advanced gastric carcinoma (post preoperative chemotherapy)
 - 1) Location: high body to proximal antrum
 - 2) Gross type: Borrmann type 4, 11x8cm
 - 3) Histologic type: Poorly cohesive carcinoma
 - 4) Lauren classification: diffuse type
 - 5) Depth of invasion: Tumor invades the serosa (**visceral peritoneum**) (**pT4a**)
 - 6) Lymph node: metastasis in **23 out of 34** regional lymph nodes (**pN3b**)
 - 7) **Appendix: metastatic carcinoma (pM1)**
 - 8) **Peritoneum: metastatic carcinoma (pM1)**
 - 9) AJCC cancer staging (8th edition): **ypT4aN3bM1**

Disease course after surgery

- Palliative chemotherapy
- Progression
- Bowel obstruction
- 28 months survival



0 deg

Conclusion

- A rare case of advanced gastric cancer with colon metastasis
 - Distal metastases spreading to **liver (48%), peritoneum (32%),** lung (15%), and bone (12%) are found in **30-35%** patients at initial clinical observation
 - Colon metastasis in reported cases only (majority poorly differentiated or signet ring cell)
- Undetected metastatic lesions on diagnostic image studies has altered the prediction for cancer stage.
- False negative (Low FDG uptake) results in PET CT has been correlated with **diffuse type Lauren classification (undifferentiated), macroscopic types (Borrmman type 4 > > 1),** and **HER2 negative expression** in gastric cancer.

Thank you for your attention

