

Neoadjuvant Chemotherapy Followed by Pylorus preserving Pancreaticoduodenectomy in Patient with AOV Cancer

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특이 내과적 과거력 없는 55세 남성이 속쓰림 증상으로 시행한 외부 병원 상부 내시경 상 duodenum 2nd portion의 papillary protrusion 소견 관찰되어 본원 내원하였다. 내원시 문진상 복부 불편감 외 체중 감소 및 복부 통증은 없었으며, 본원에서 시행한 초기 화학검사상 AST/ALT 19/17 IU/L, Total bilirubin 0.5 mg/dL, CEA 6.36 ng/mL, CA 19-9는 17.5 U/mL이었다. 입원 후 시행한 EGD 상 ampulla of vater에 ulcerofungating mass 관찰되었고, 이에 대해 시행한 조직검사상 ampulla of vater cancer 소견 보였다. 복부 전산화단층촬영상 S5과 S6에 간전이 소견 보였고, 외과와 상의 후 neoadjuvant 항암 치료 후 수술 고려하기로 하였고, 3차례 Gemcitabine/cisplatin 후 시행한 복부 전산화단층촬영상 partial response 소견 보였다. 추적 관찰 상부 내시경에서도 partial response 소견 보였고, 병변에 대해 ampullectomy 시행하였다. Ampulla 조직검사상 poorly differentiated carcinoma 보이고, 절제연 양성 소견보여 이후 총 16차례 gemcitabine/ cisplatin 항암 시행하였다. 항암 후 외과 입원하여 ampullar of vater cancer에 대해서는 Pylorus preserving pancreaticoduodenectomy과 간내 전이 병변에 대해서는 intraoperative RFA 시행하였다. 수술 후 병리 소견은 절제연 음성, regional lymph node 양성(1/12)으로 현재 복부 전산화단층촬영상 재발 소견없는 상태로 추후 항암 방사선 병합요법 시행 예정이다.

안 O 성 M/55

✓ PI: 본 55세 환자 특이 내과적 과거력 없는 분으로, 속쓰림 증상으로 외부 병원에서 시행한 EGD 상 duodenum 2nd portion의 papillary protrusion 소견 관찰되어 2013년 03월 23일 본원 내원함.

✓ Past History : HTN/DM/Pul.Tbc/Hepatitis (-/-/-/)

smoking history : 1 pack/day *30yrs

alcohol history : 소주 1-2병/day, 주 1-2회

✓ Review of System

General weakness (-)	Anorexia /Nausea/Vomiting (-/-/-)
Easy fatigue (-/-)	Abdominal pain (-)
Fever/chill (-/-)	Abdominal discomfort (+)
Headache/Dizziness (-/-)	Constipation /Diarrhea (-/-)
Insomnia (-)	Hematochezia/Melena (-/-)
Cough/Sputum (-/-)	Wt. Loss (-)
Dyspnea /D.O.E. (-/-)	

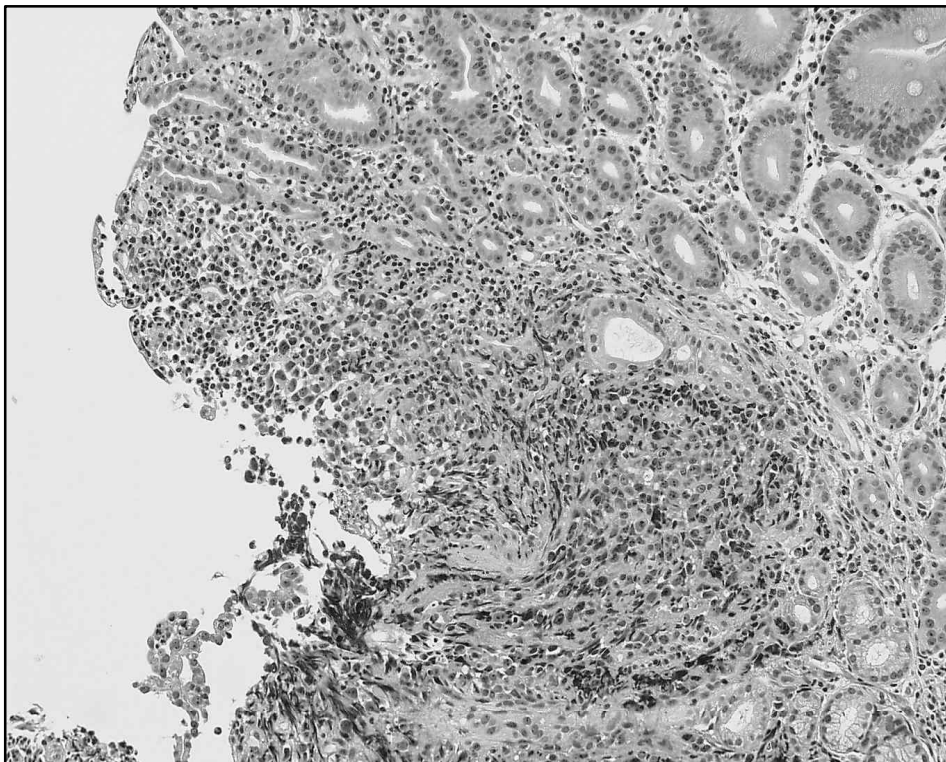
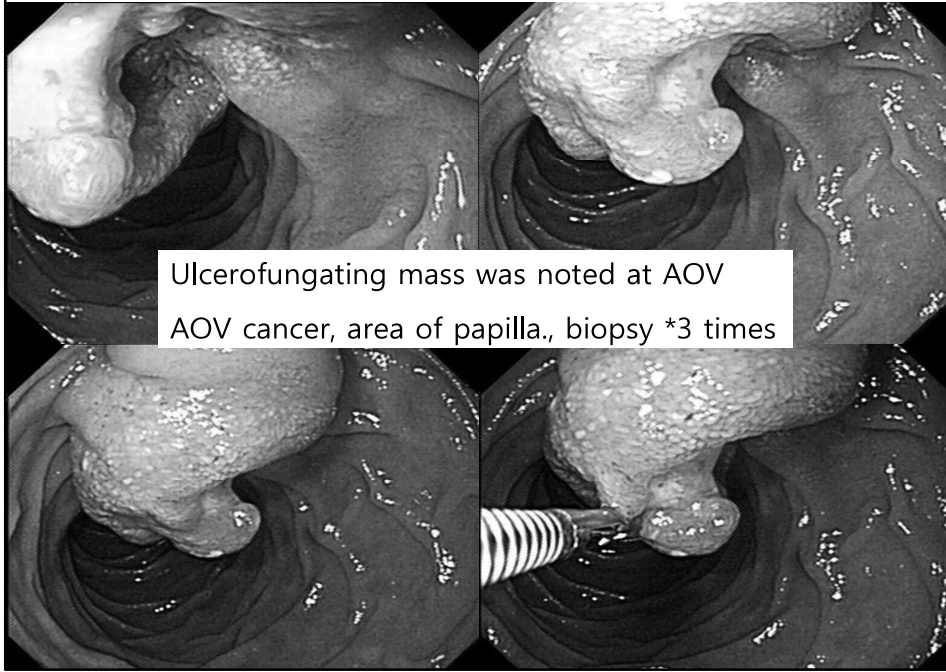
✓ Physical exam

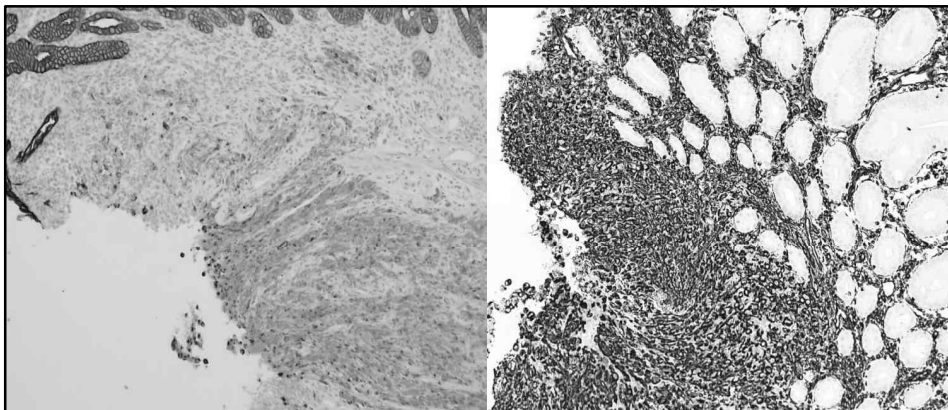
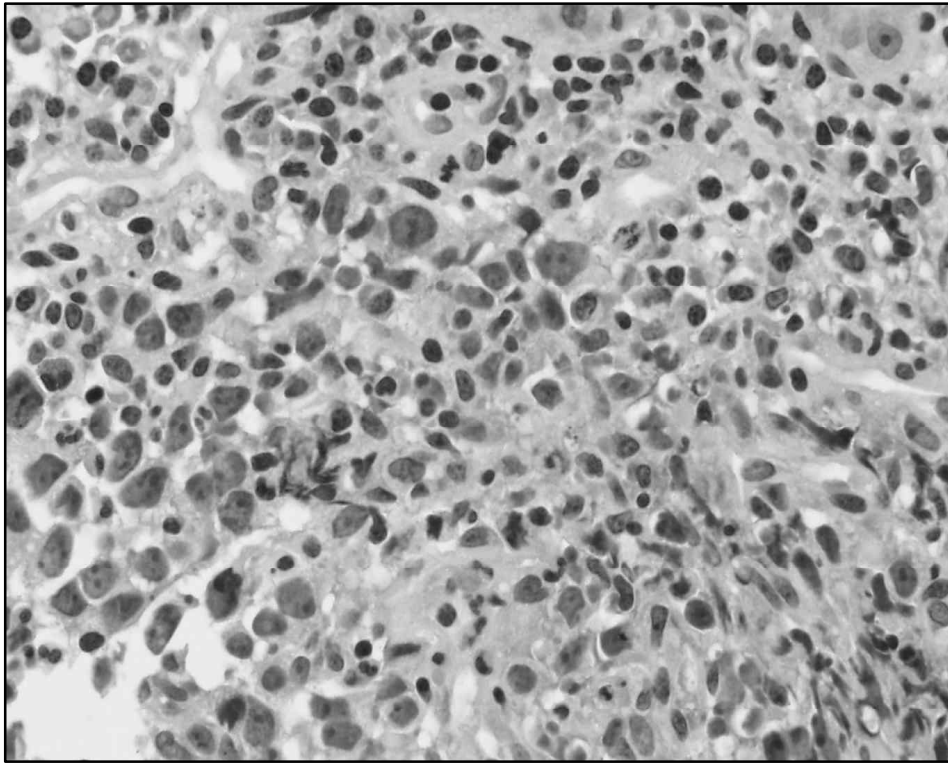
BP 133/80 mmHg PR 70회/min	CBS without rale
RR 15회/min BT 36.4 °C	RHB without murmur
	Soft and flat abdomen
Not so ill-looking appearance	Normoactive bowel sound
Alert mental status	Abdominal DT/RT (-/-)
Not Icteric sclera	Not palpable liver, spleen
Not Pale conjunctiva	Pitting edema (-/-)

✓ Lab

WBC 6,410/ μ L (seg 55%) Hb 15.2 g/dL, Plt 307 k/ μ L
 PT/aPTT 0.9 (INR)/28.8 sec
 BUN/Cr 11.5/0.77 mg/dL T.Pro/Alb 6.9/4.7 g/dL,
AST/ALT 19/17 IU/L, T.bil 0.5 mg/dL
 Electrolyte 142/4.4/104/26 mmol/L
 Amylase/Lipase 93/68 U/L
CEA 6.36 ng/mL CA 19-9 17.5 U/mL

EGD (2013.03.28)





Cytokeratin

Vimentin

- CD3, CD20, CD45(LCA) : (-)
- CD56, synaptophysin, chromogranin A : (-)
- HMB45 : (-)

EGD (2013.03.28)

Pathology report

Focal area of atypical cells showing focal positive for cytokeratin and diffuse positive for vimentin, **suggestive of malignant tumor, see note.**

Note)

1. The immunohistochemical stain results:

Vimentin and CK (AE1/AE3) : positive in the atypical cells

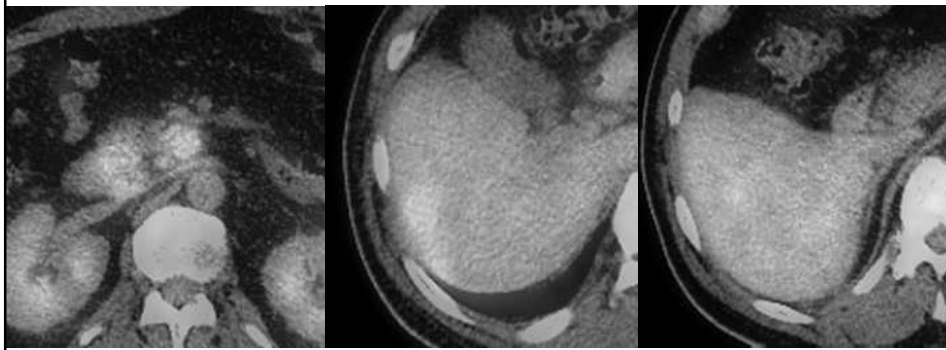
CD3, CD20, CD45 (LCA), CD56, synaptophysin, chromogranin A and HMB45:
negative in the atypical cells

2. 형태학적인 소견으로는 분화가 매우 불량하여 **hematologic malignancy, malignant melanoma, poorly differentiated carcinoma** 등을 감별해야 하나, 면역조직화학 염색 결과를 종합하여 판단하면 **sarcomatoid carcinoma**의 가능성이 높을 것으로 판단됩니다.

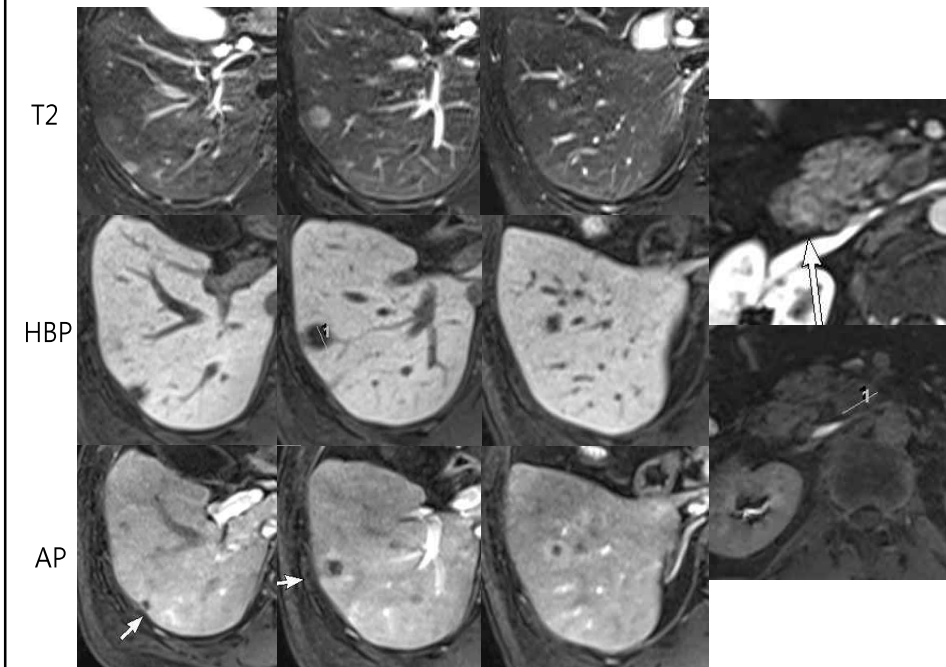
APCT (2013.04.12)



PET-CT (2013.04.15)



Liver MR (2013.04.16)

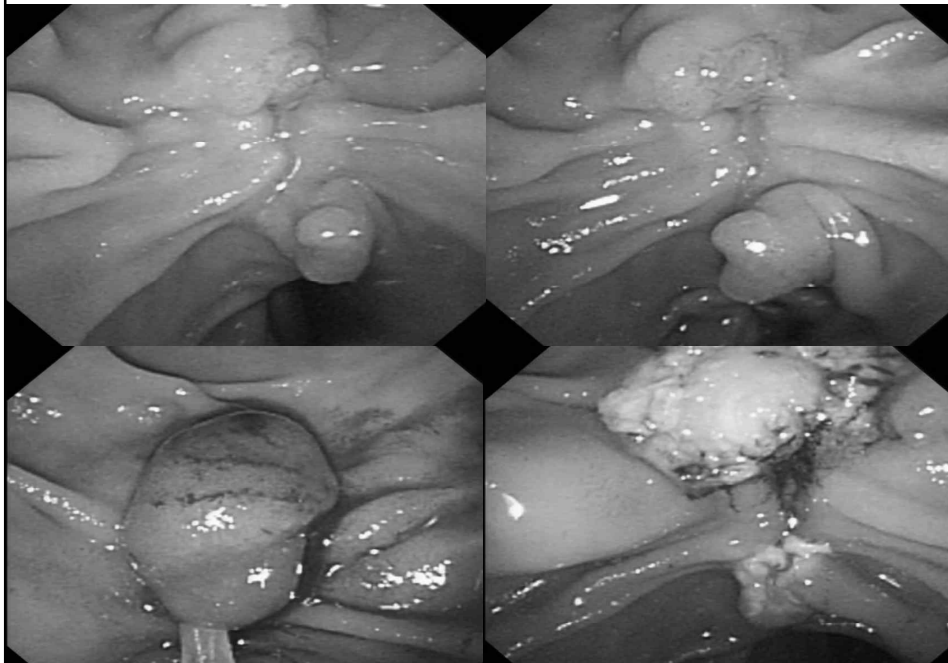


Progress

Ampullar of Vater cancer, R/O liver mets

s/p 1st - 3rd Gem/DDP (2013.4.19~)

Papillectomy (2013.06.17)



Papillectomy (2013.06.17)

Pathology Report

Ampulla, proximal main lesion, EMR: Scattered smudged cytokeratin-positive, p63-negative atypical cells in the lamina propria and submucosa, suggestive of **poorly differentiated carcinoma**

◇ Resection margin: Extension of tumor

Ampulla, distal lesion, EMR: Scattered cytokeratin-positive, p63-negative atypical cells in the lamina propria and submucosa, suggestive of **poorly differentiated carcinoma**

◇ Resection margin: Extension of tumor

Progress

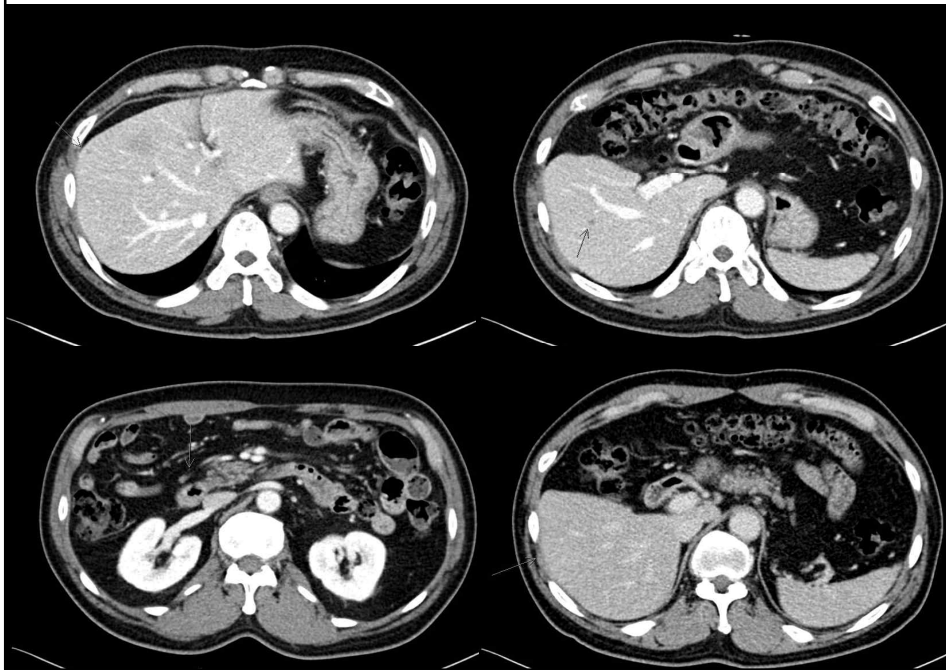
Ampullar of Vater cancer, R/O liver mets

s/p 1st - 3rd Gem/DDP (2013.4.19~)

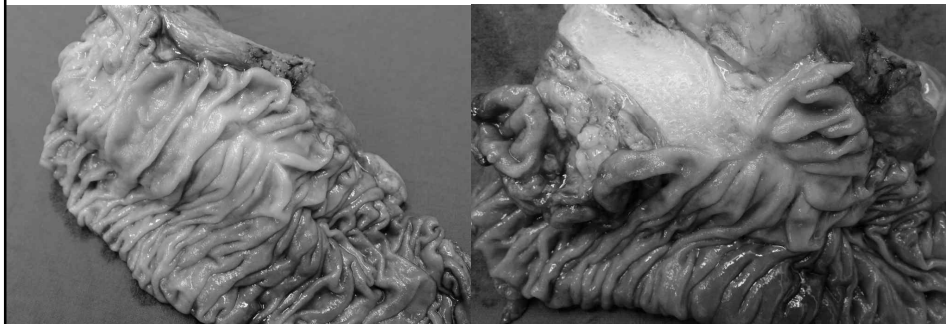
s/p Papillectomy (2013.6.17)

s/p 16th Gem/DDP (~2014.3.26)

APCT (2014.05.07)



PPPD (2014.05.08)



Ampulla of Vater:

1. Status post endoscopic mucosal resection and neoadjuvant chemotherapy

2. **No residual carcinoma,**

- ◇ Pancreas: Free of carcinoma
- ◇ Duodenum: Free of carcinoma
- ◇ Gallbladder: Free of carcinoma

Lymph nodes : total (1/11): Metastatic poorly differentiated carcinoma in 1 out of 11 lymph nodes without perinodal soft tissue extension (maximal diameter: 6 mm)

PPPD (2014.05.08)

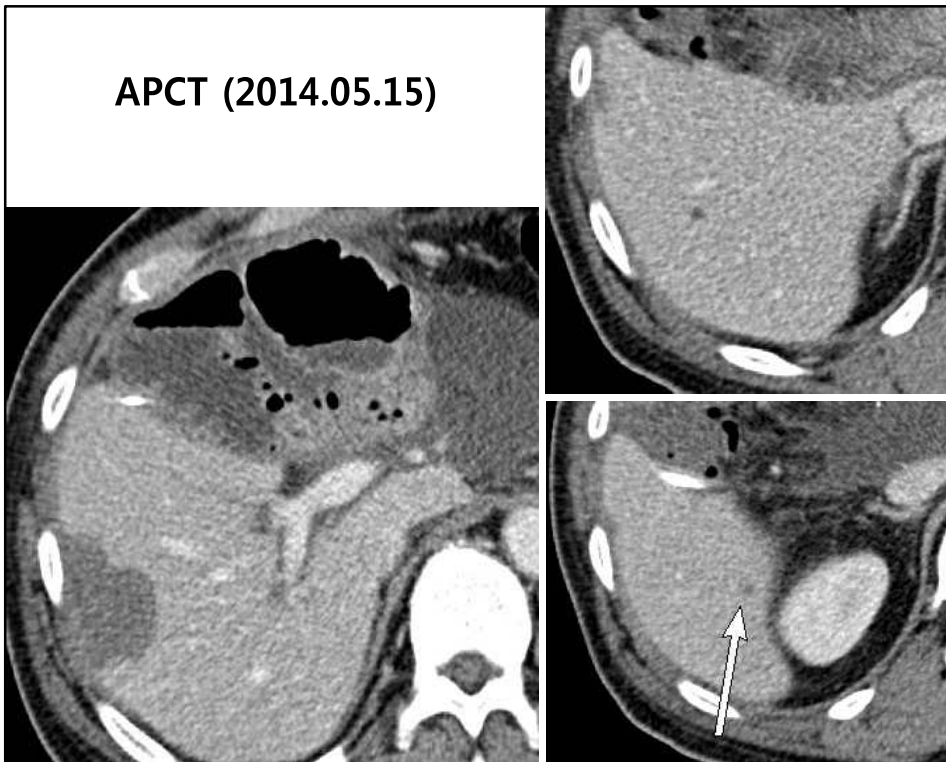
✓ OP:

Pylorus preserving pancreaticoduodenectomy with Intraoperative RFA

✓ OP Finding:

- No peritoneal seeding or malignant ascites
- 영상의학과 협진 하에 Initial liver metastasis lesion 3군데 중 2군데를 찾아 RFA 시행.
- LN 12p, LN 16b frozen
- 수술 전 CT 검사에서 Common hepatic artery와 GDA branch의 aberrant vessel 등이 예상되어 meticulous dissection 시행하여 모든 branch identification 후 GDA ligation 시행함.
- Pancreas texture: soft & fatty, P-duct: 3 mm

APCT (2014.05.15)



Progress

Ampullar of Vater cancer, R/O liver mets

s/p 1st-3rd Gem/DDP (2013.4.19~)

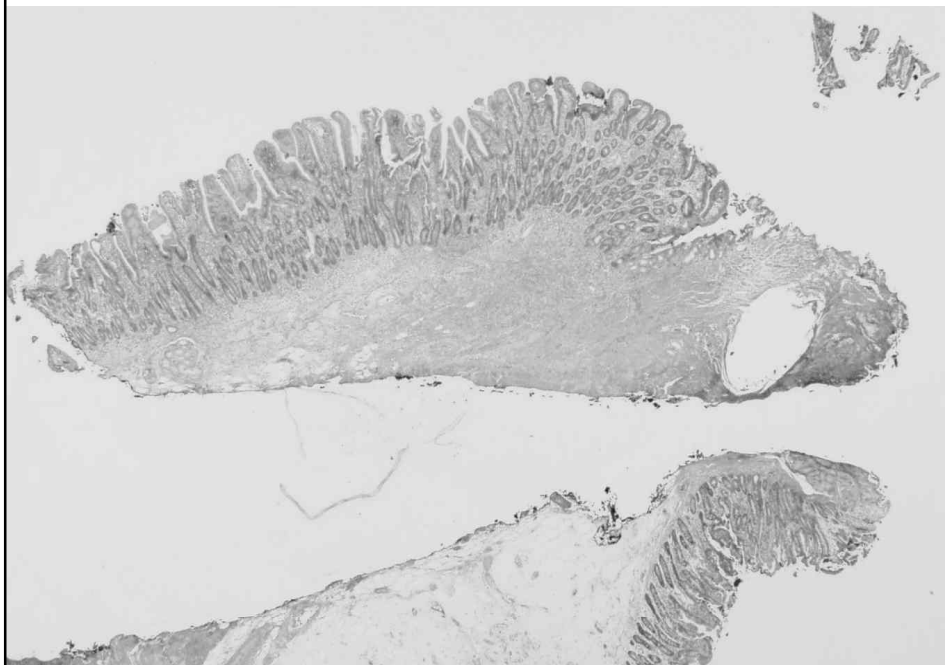
s/p Papillectomy (2013.6.17)

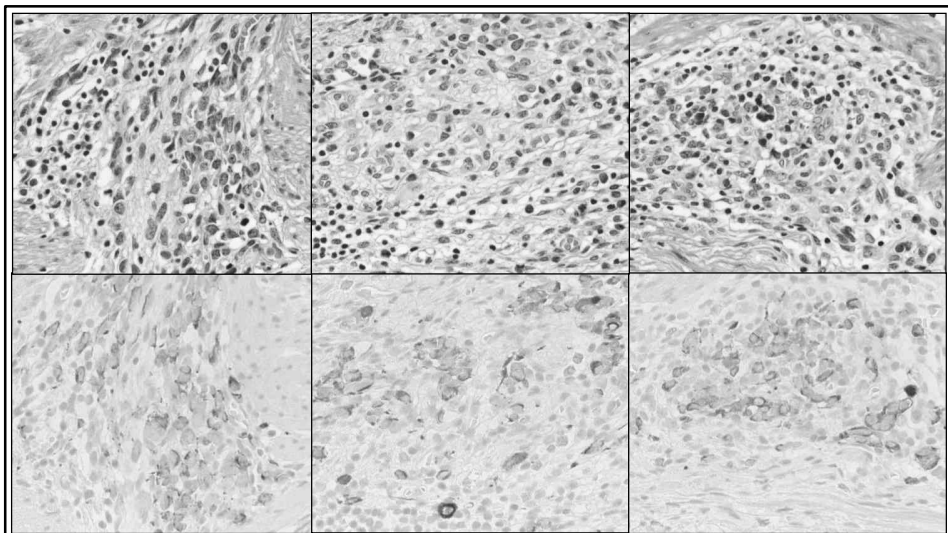
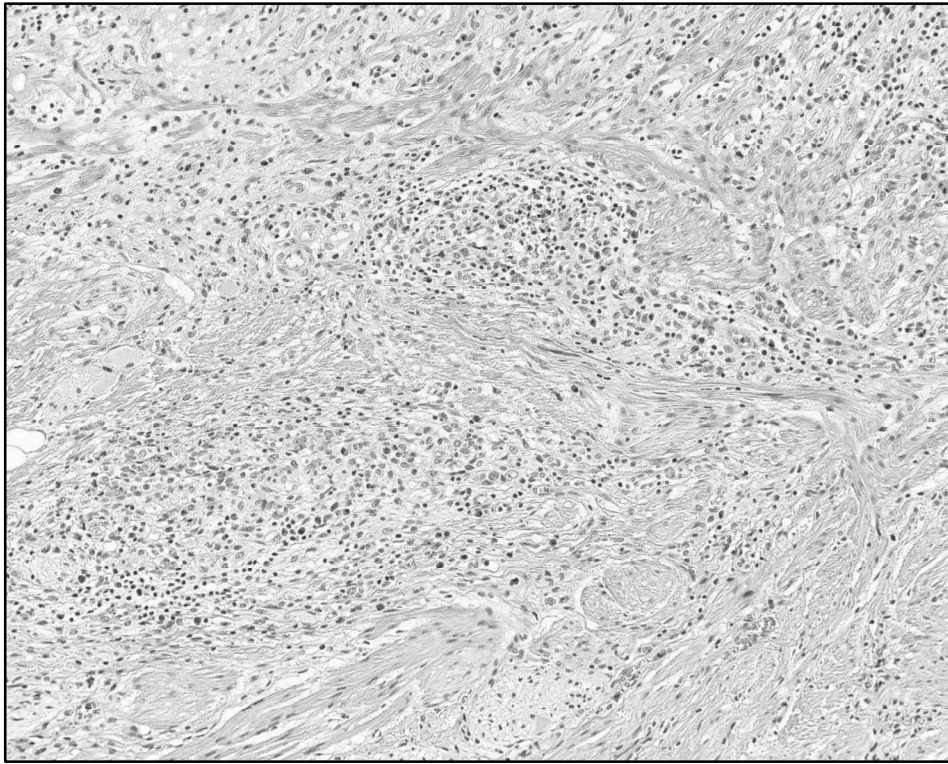
s/p 16th Gem/DDP (~2014.3.26, DR 25%)

s/p Pylorus preserving pancreaticoduodenectomy (PPPD) (2014.5.8)

Intraoperative ultrasonography, Intraoperative RFA

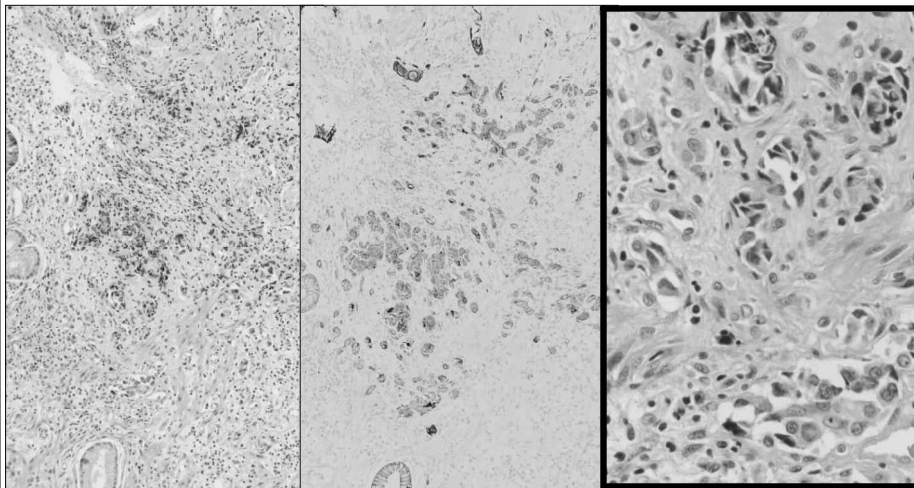
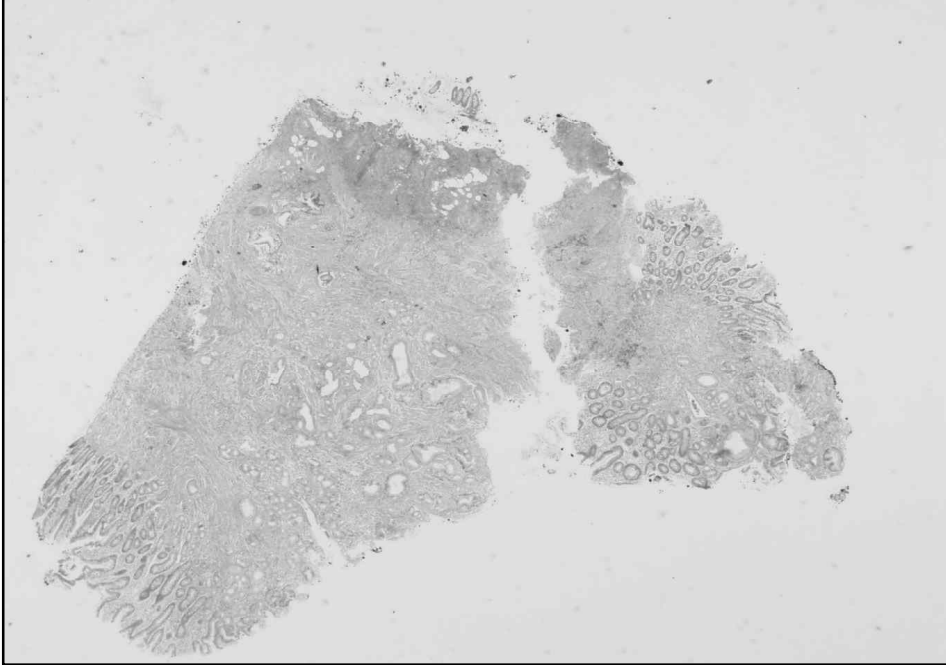
Ampulla, Proximal Main Lesion, EMR





Scattered smudged cytokeratin-positive, p63-negative atypical cells in the lamina propria and submucosa, suggestive of poorly differentiated carcinoma

Ampulla, Distal Lesion, EMR



Scattered cytokeratin-positive, p63-negative atypical cells in the lamina propria and submucosa, suggestive of poorly differentiated carcinoma