

## Resectable Intrahepatic Cholangiocarcinoma after Chemotherapy

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Present illness: 2010. 12 외부병원; Abd. CT, EGD, CFS, Chest CT, PET

liver bx.; adenoca, P/D

left SCN. LN bx.; metastatic adenoca

→ intrahepatic cholangiocarcinoma로 진단받고 전원.

Past medical history: DM, HT-5년

Review of system: 체중감소 3 kg

P/E: Lt. SCN LN palpable-firm, non-tender

lab. findings: WBC 14,550/mm<sup>3</sup>, Hb 13.2 g/dl, platelet 371,000/mm<sup>3</sup>

total cholesterol 225 mg/dL, protein/albumin 7.7/4.7 g/dL,

total bilirubin 0.9 mg/dL, ALP/AST/ALT 90/16/12 U/L

fasting blood glucose 122 mg/dL

BUN/creatinine 12/1.0 mg/dL

HBsAg/anti-HCV Ab (-/-)

CEA 2.6 ng/mL, CA19-9 6.1 U/mL

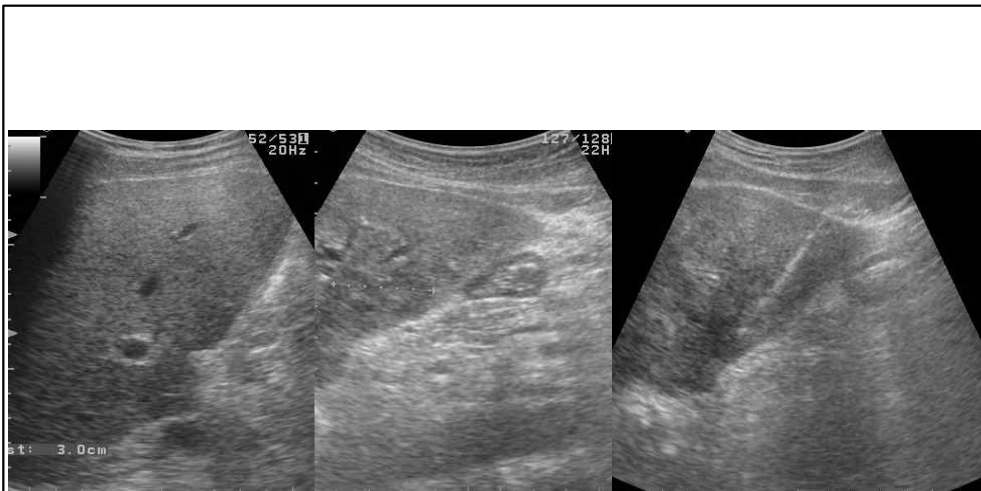
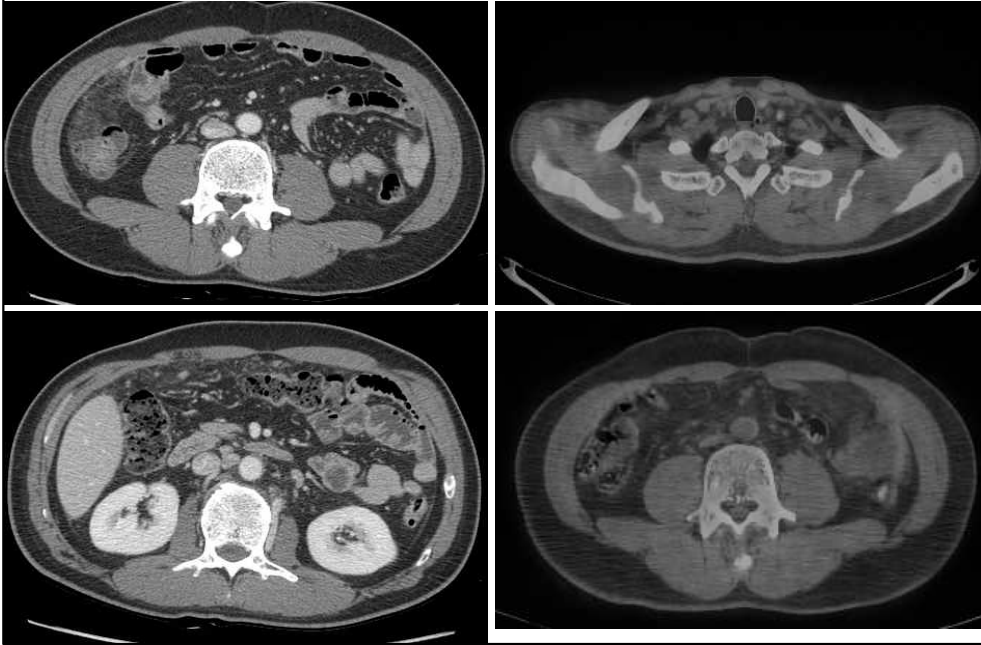
## 43/M

- 2010. 12 외부병원; Abd. CT, EGD, CFS, Chest CT, PET  
liver bx.; adenocarcinoma, P/D  
Lt. SCN LN bx.; metastatic adenocarcinoma  
→ intrahepatic cholangiocarcinoma로 진단받고 전원
- Past medical history: DM, HT-5년
- Review of system: 체중감소 3 kg
- P/E: Lt. SCN LN palpable-firm, non-tender

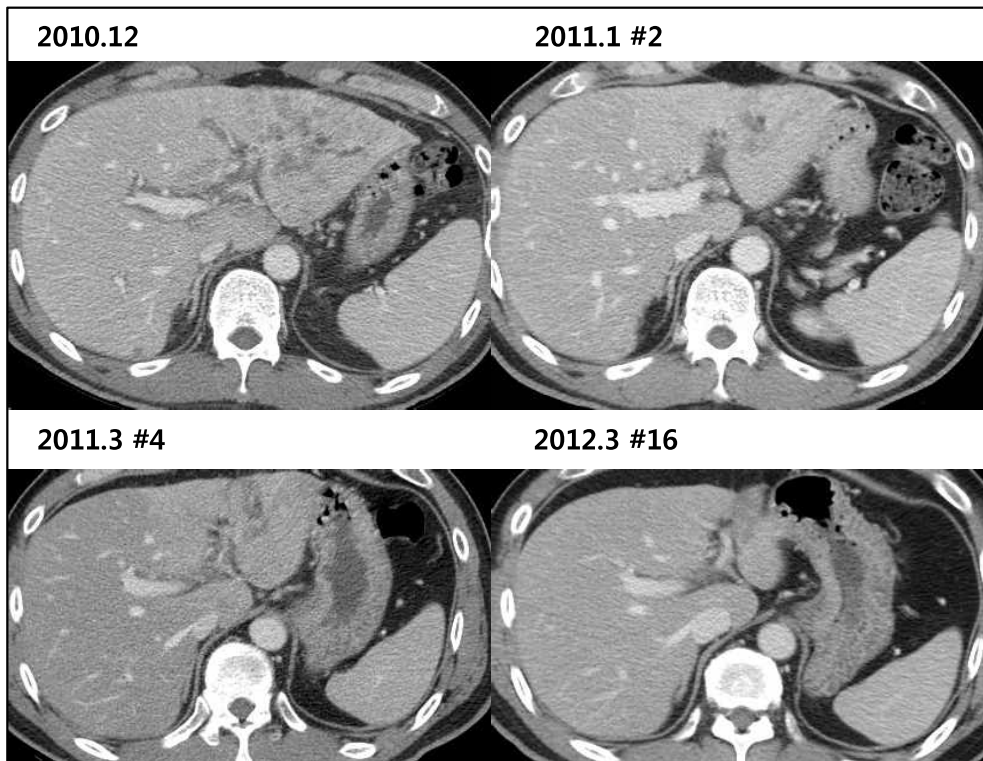
## Lab. Findings

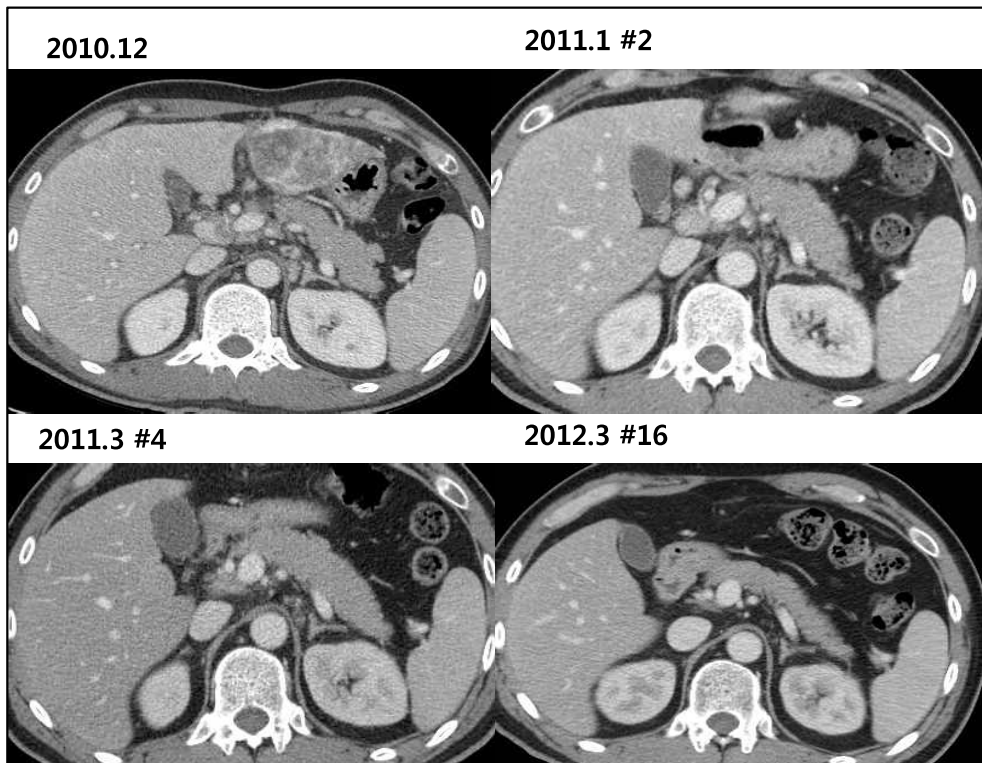
WBC 14,550/mm<sup>3</sup>, Hb 13.2 g/dl, platelet 371,000/mm<sup>3</sup>  
total cholesterol 225 mg/dL, protein/albumin 7.7/ 4.7 g/dL,  
total bilirubin 0.9 mg/dL, ALP/AST/ALT 90/16/12 U/L  
fasting blood glucose 122 mg/dL  
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2010. 12



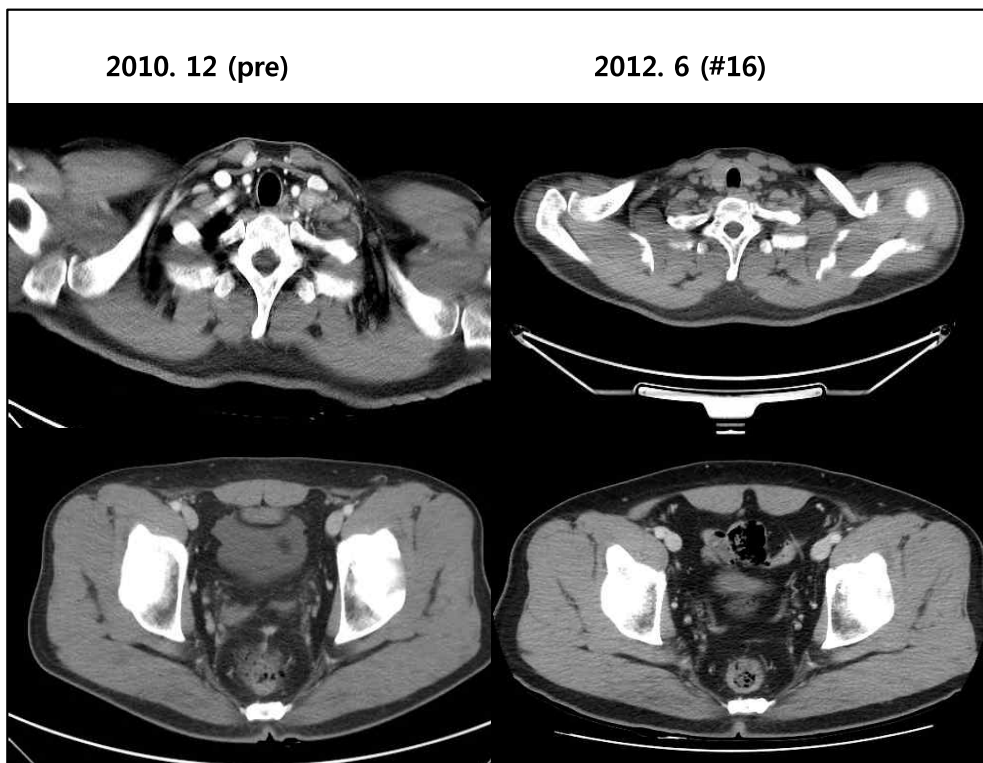
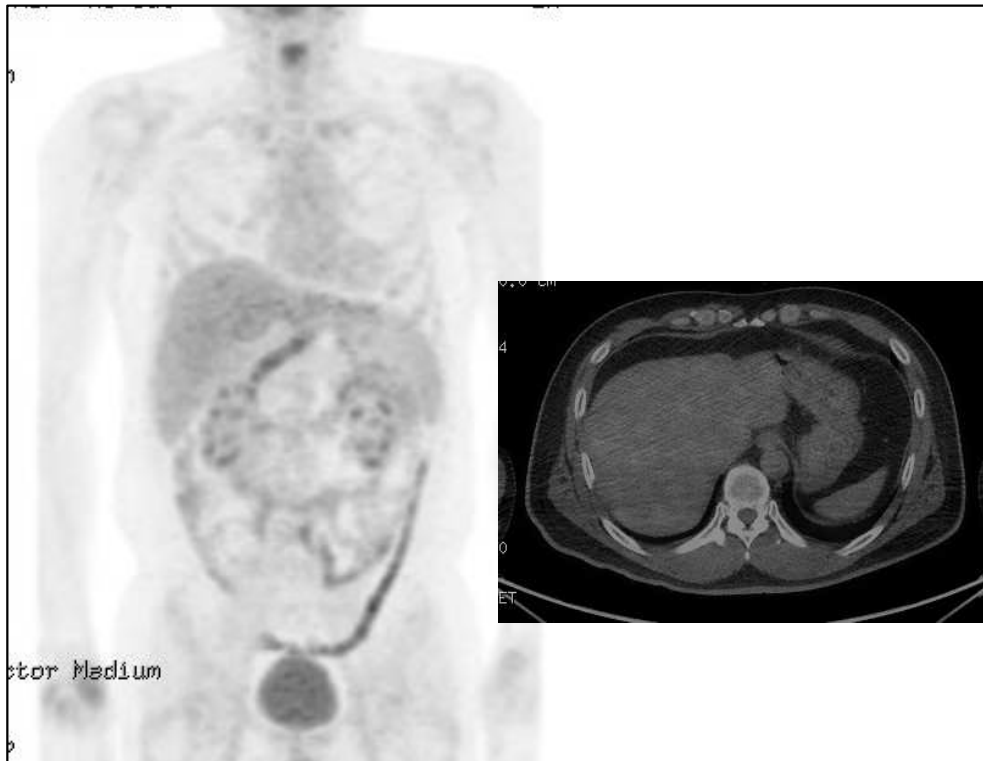
- Gemcitabine 1,800 mg (1,000 mg/m<sup>2</sup>)  
cisplatin 45 mg (25 mg/m<sup>2</sup>)  
D1, D8 → every 3 week, 16 cycle

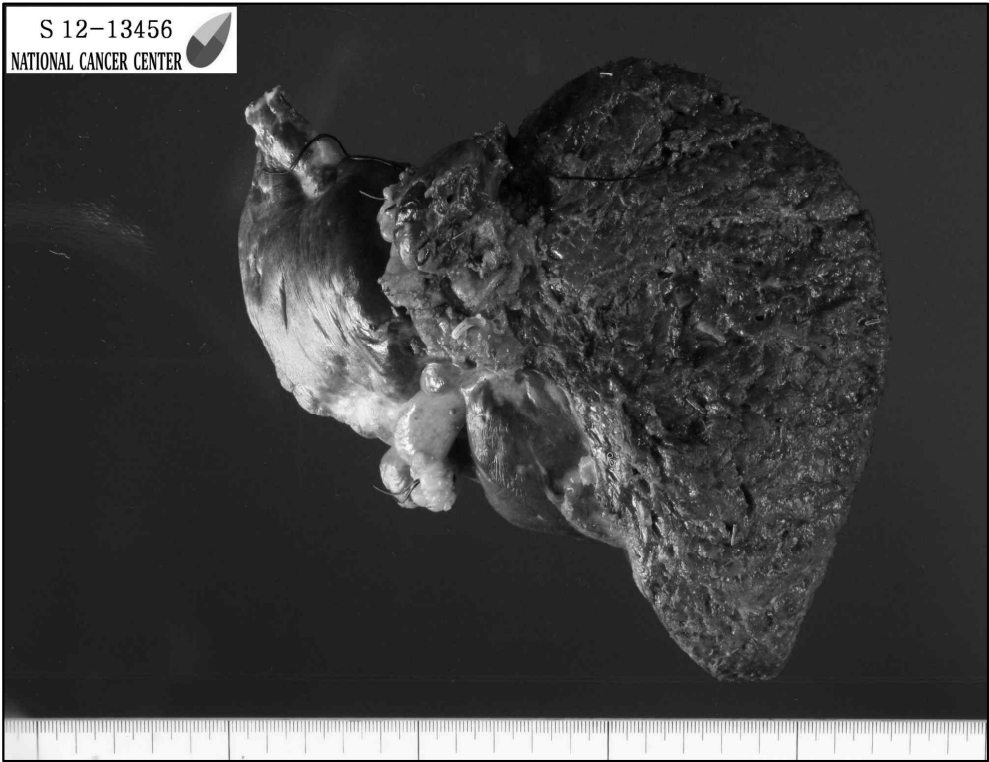


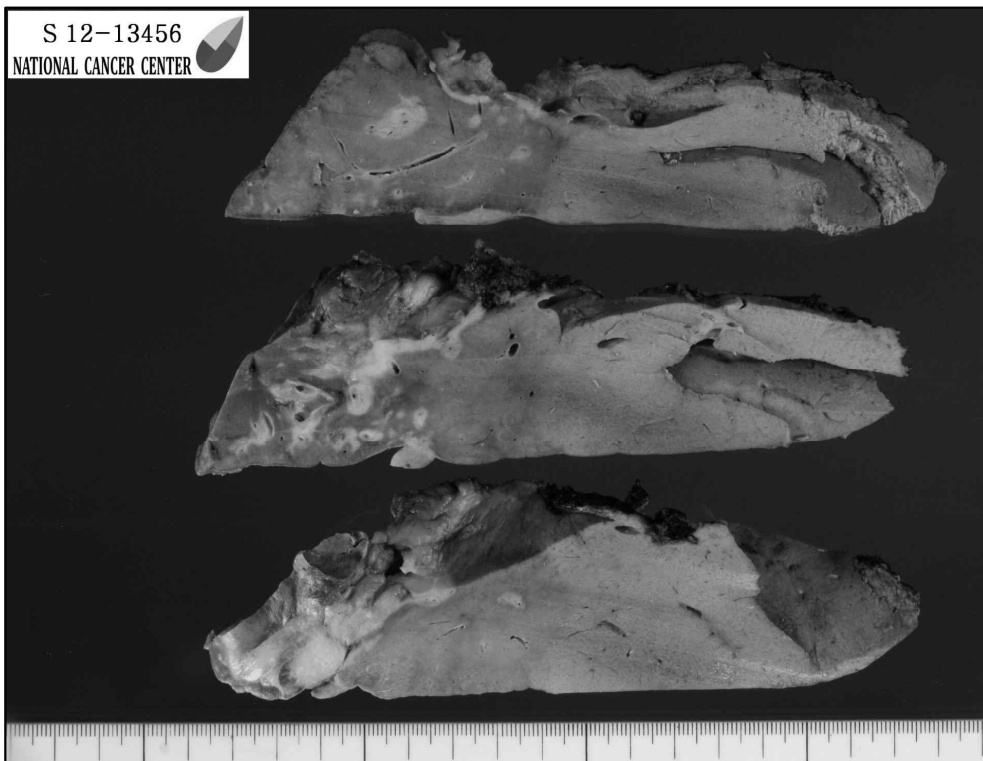
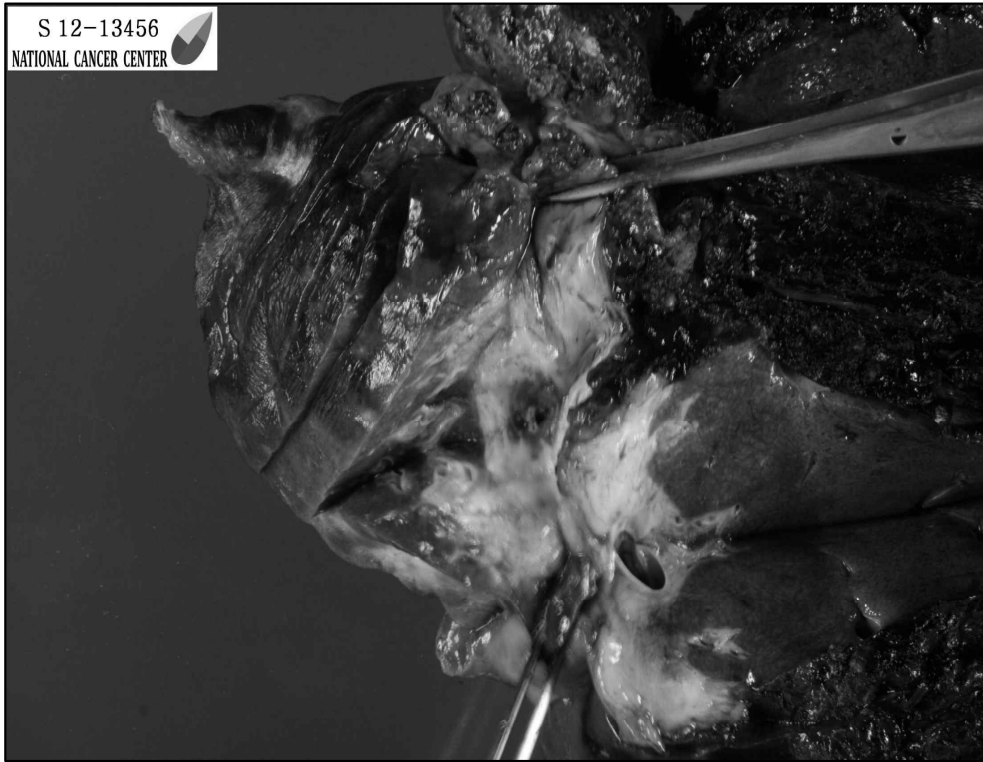


### Hospital Course

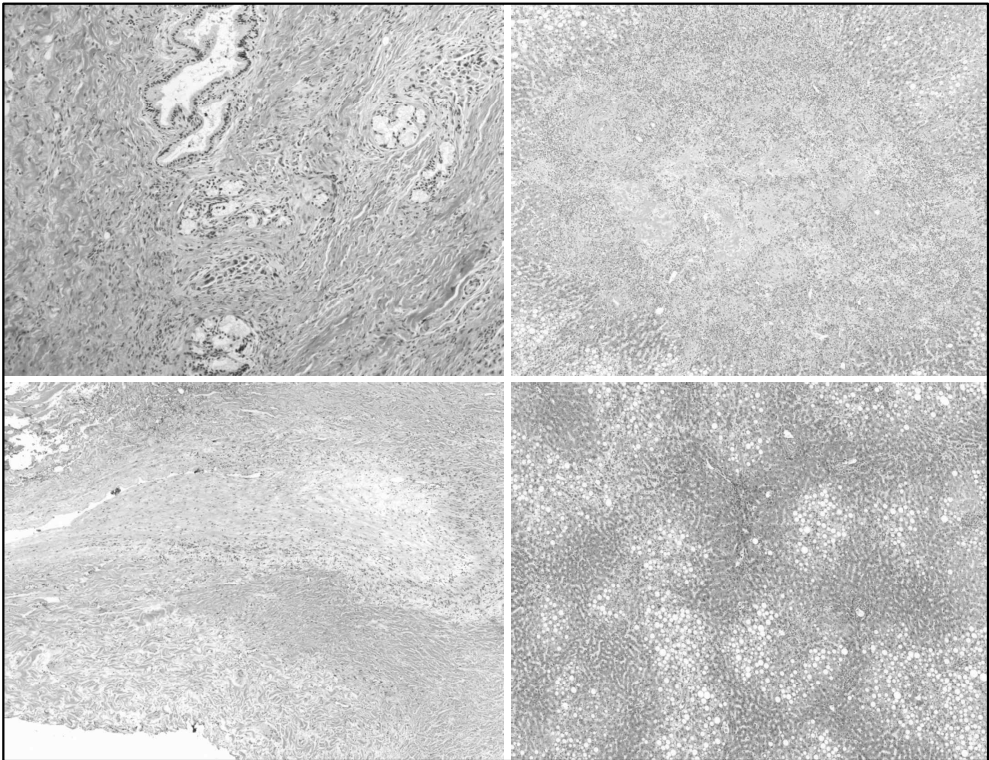
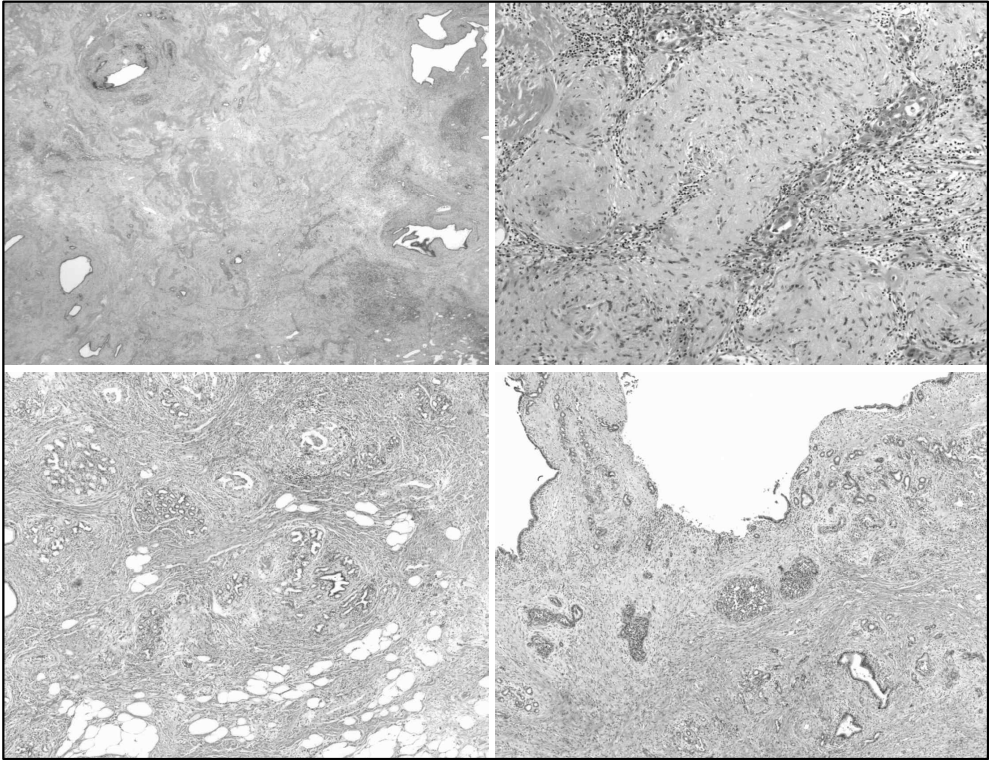
- Intrahepatic cholangiocarcinoma r/o peritoneal seeding, with multiple LN metastasis, distant LN (SCN) metastasis
- 2010.12~2012.3. gemcitabine + cisplatin, 16 cycle; PR
- 2012.3~2012.6. rest d/t cytopenia
- 2012.6.21 extended left hemihepatectomy & radical bile duct resection, cholecystectomy











## Pathologic Findings

Liver and bile duct, extended left hemihepatectomy & radical bile duct resection:

1. Adenocarcinoma, moderately differentiated
  - 1) Status post chemotherapy for cholangiocarcinoma
  - 2) Regression grade: moderate
  - 3) Invasion to hepatic parenchymal perihilar soft tissue (pT2b)
  - 4) Size of tumor: 6.0 x 5.0 x 3.5cm
  - 5) Gross type: mass forming
  - 6) Histologic type: classical adenocarcinoma
  - 7) Vascular invasion(microscopic): absent
  - 8) Lymphatic invasion: absent
  - 9) Perineural invasion: present
  - 10) Tumor necrosis: present (20%)
  - 11) Capsule formation: absent
  - 12) Infiltration of capsule: absent

- 13) Involvement of a major branch of the portal vein: absent (see note)
- 14) Involvement of a major branch of the hepatic vein: absent
- 15) Bile duct invasion: present
- 16) Serosal invasion: absent
- 17) Surgical margin: involved by carcinoma of left bile duct
- 18) Lymph node:
  - a) metastasis in 2 out of 28 lymph nodes  
(LN #1: 0/5, LN #12: 2/15, LN #16: 0/8)
  - b) largest metastatic tumor size: 0.7cm
- 19) Intrahepatic metastasis: absent
- 20) Pathologic stage: AJCC 2010 (pT2bN1)
- 21) Additional pathologic findings
  - Cholangiodysplasia: absent

2. Adenocarcinoma present in "hepatic vein"

3. Moderate fatty change, liver

Note) Portal vein은 fibrous occlusion 되어있으며 tumor involvement의 증거는 없습니다.

Gallbladder, cholecystectomy: Cholesterol polyps

Peritoneal cavity, washing cytology: Negative for malignant cells

## Hospital Course

- ❑ Intrahepatic cholangiocarcinoma r/o peritoneal seeding, with multiple LN metastasis, distant LN (SCN) metastasis
- ❑ 2010.12~2012.3. gemcitabine + cisplatin, 16 cycle; PR
- ❑ 2012.3~2012.6. rest d/t cytopenia
- ❑ 2012.6.21 extended left hemihepatectomy & radical bile duct resection, cholecystectomy
- Postop. adhesive ileus-covered duodenal stent; improved (spontaneous migration occurred)
- 2012.11.26 NED follow-up