Session III

Gastric Cancer Recurrence in 12 Years after Surgical Resection Do Hyeong Lee, Jae Hyun Kim, Seun Ja Park, Moo In Park

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1. Case presentation

2018. 7월 constipation과 fecal incontinence를 주소로 내원한 51세 남자 환자

- 2005. 8월 20일 타병원에서 시행한 위내시경에서 위체부 소만의 AGC (Borrmann type 3) 진단되어 radical subtotal gastrectomy with Roux en Y를 받았고, stage 3 (T3N1M0, 림프절 전이:5/25), 조직 검사에서 signet-ring cell carcinoma 포함된 poorly differentiated adenocarcinoma 확인. 수술 후 9개월간 5-FU, cisplatin CTx 시행. 이후 3년간 본원 EGD, CT F/U 하였으며, recurrence 소견은 없음.
- 2017. 4월 20일 타병원 건강검진으로 시행한 CFS상 T-colon mass 및 stricture 동반되어 본원 내원 본원 evaluation에서 colon biopsy 결과 signet-ring cell carcinoma 확인되었고, 12년 전 절제한 gastric cancer 조직과 면역 염색결과 일치소견 보여 위암의 대장으로의 전이 병변 가능성이 높은 것으로 확인됨.

Extended right hemicolectomy 시행 및 FOLFOX CTx. 시행(2017.5.15-2017.10.20)

2018. 4월 20일 F/U CT, PET-CT에서 recurrence 소견 없음.

2018. 6월 08일 Constipation, rectal incontinence 증상으로 본원 소화기내과 외래 방문.

CFS에서 rectal shelf 소견 및 EGD에서 remnant stomach의 cancer recurrence 소견 동반

Colostomy op 및 Palliative CTx: ramucirumab + paclitaxel 시행

2. Diagnosis

- Recurrent stomach cancer with Metastatic rectal cancer with cancer peritonei

3. Therapy and Clinical course

- Colostomy op.
- Palliative 2nd CTx: ramucirumab + paclitaxel

4. Conclusion

- Recent reports from Korea and Japan have shown a late recurrence rate of about 6% among patients with advanced gastric cancer who survived >5 years post-gastrectomy.
- Several reports have suggested that surgery for selected patients with recurrent gastric tumors is worthwhile, due to the potential survival benefit from surgical intervention.
- When resection is to be performed, careful consideration of the surgical margin is needed due to the likelihood of lymph node metastases and the intramuscular spread of tumor cells.

Key word: Stomach cancer, Recurrent remnant stomach cancer, Metastatic rectal cancer

REFERENCE

1. Int J Surg Case Rep. 2014;5(12):954-957

Patient information

• Sex/Age: M/51

• C.C : Constipation, Fecal incontinence

• DM / HTN / Tbc / Hepatitis (- / - / - / -)

• Drug side effect / Allergy (- / -)

• Social Hx.

-Smoking: 13년 전 금연, 18 pack*year

-Alcohol : 맥주1-2병, 3회/주

• Family Hx.: 간암(형제)

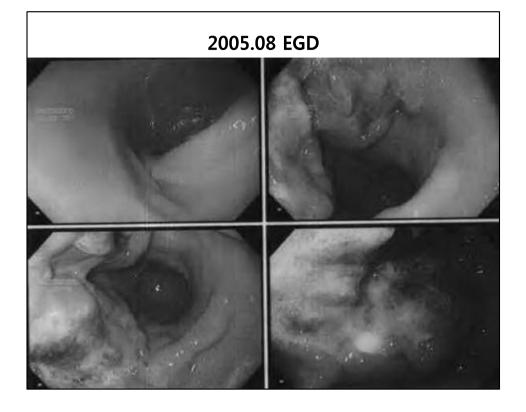
type 3) 진단되어 본원 GS 내원



Present Illness

• 2005. 8. 20 타병원에서 시행한 위내시경에서 위체부 소만의 AGC (Borrmann

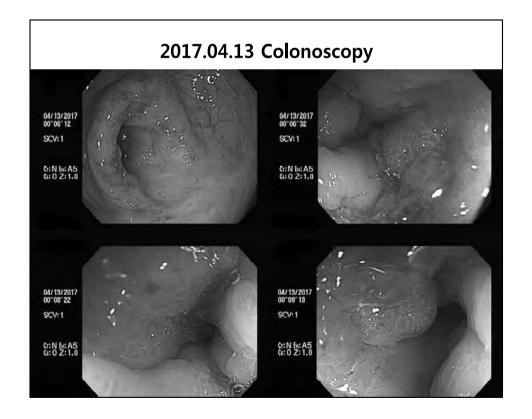


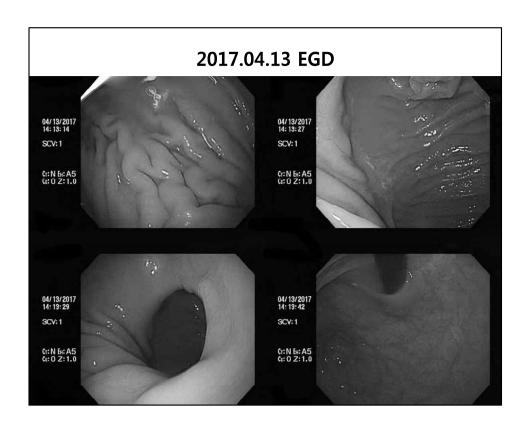


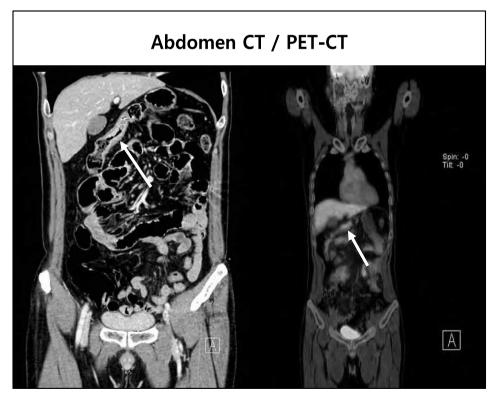
- 본원 GS에서 radical subtotal gastrectomy with Roux en Y을 받았고 stage
 3 (T3N1M0, 림프절 전이: 5/25), 조직검사에서 signet-ring cell carcinoma
 포함된 poorly differentiated adenocarcinoma 확인
- 수술 후 9개월간 5-FU, cisplatin CTx 시행
- 3년간 본원 EGD, CT F/U 하였으며, recurrence 소견없어 연고지 근처 병원에서 F/U 시행

• 2017.3.27 타병원 검진 colonoscopy 에서 transverse colon 협착 및 점막의 취약성 관찰되어 further evaluation 위해 전원



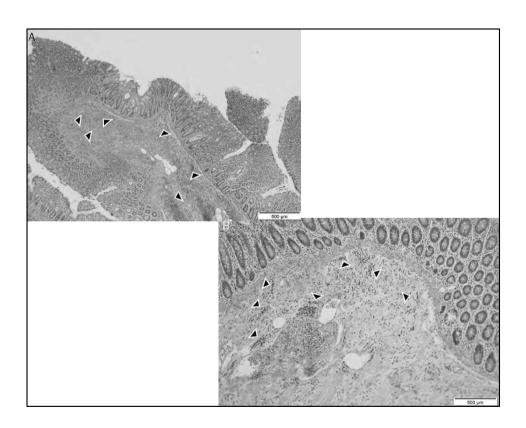


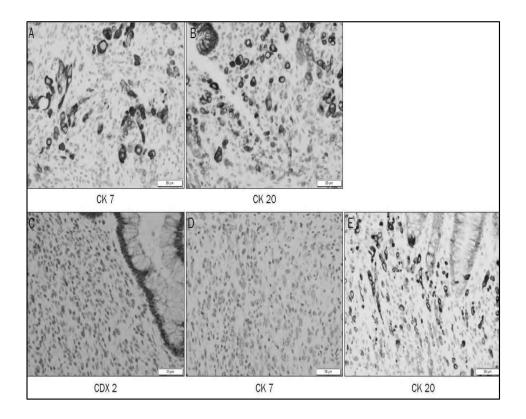




• Biopsy 결과 signet-ring cell carcinoma 진단되어 extended right hemicolectomy 시행(2017.4.20)

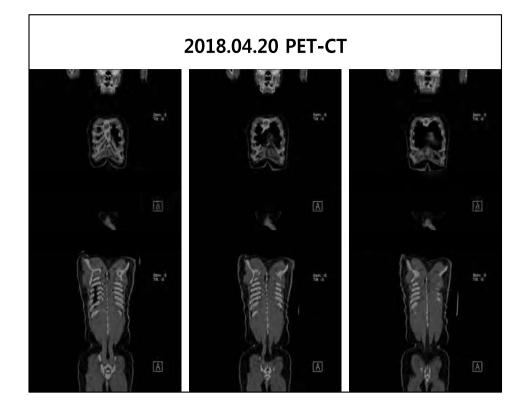






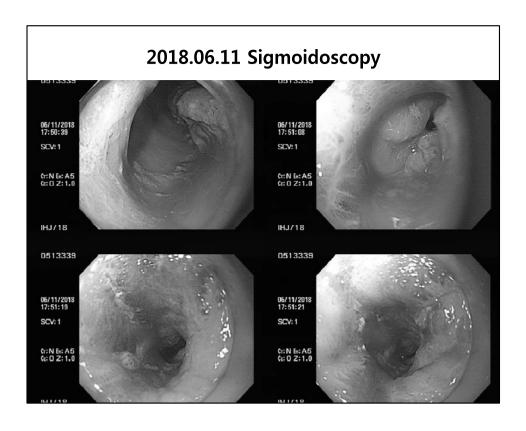
• 12년 전 위암 조직과 대장암 조직의 면역 염색 결과가 일치하여 전이성 병변으로 확인되었으며, 이후 FOLFOX CTx 시행 (2017.5.15-2017.10.20)

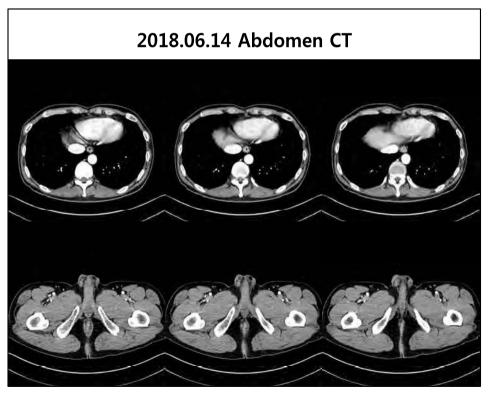


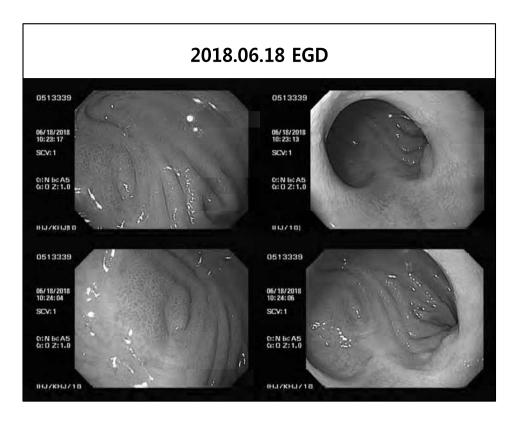


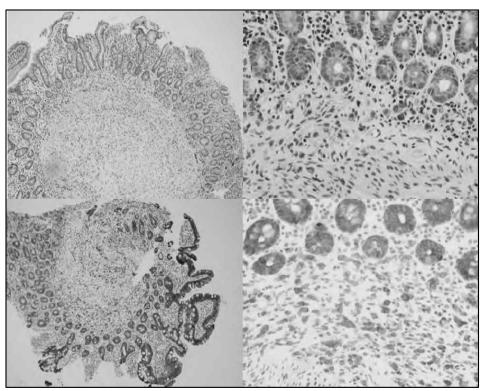
• 2018.4.20 f/u CT, PET-CT에서 recurrence 소견 없이 지내다가 2018.6.8 constipation, rectal incontinence 증상으로 내원.











Diagnosis

- Recurrent stomach cancer
- Metastatic rectal cancer with cancer peritonei

Clinical course

- 2018.6.25
 - Colostomy op. 시행
- CTx
 - Palliative 2nd CTx : ramucirumab + paclitaxel



• RTx



Introduction

- Most common cause of secondary neoplastic infiltration of the colon is gastric cancer
- Intestinal metastasis from gastric cancer is rare



Case report 1

- 52세 남자 환자 gastric cancer 진단 후 radical total gastrectomy 시행
- T3N0M0, poorly differentiated adenocarcinoma involving signet-ring cell carcinoma 진단 받았으며, 이후 5년간 f/u
- 61세 constipation, abdominal distention, lower abdominal pain으로 내원
- Descending colon cancer 진단 후 left hemicolectomy and transverse colectomy with mesenteric lymph node dissection 시행
- 조직검사에서 9년 전 위암조직과 비슷한 poorly differentiated adenocarcinoma 진단

Case report 2

- 37세 여자 환자 gastric cancer 진단 후 radical total gastrectomy 시행
- T3N2M0, signet-ring cell carcinoma 진단
- Adjuvant CTx 시행 후 5년간 f/u
- 43세 때 ovarian tumor 진단되어 ovariectomy 시행 -> Krukenberg tumor 진단
- 46세 constipation, abdominal distention으로 내원하여 rectum, uterus tumor invasion 진단
 - 조직검사에서 9년 전 위암조직과 비슷한 poorly differentiated adenocarcinoma 진단
 - LAR, hysterectomy 시행, mesenteric LN invasion 확인되어 CTx 시행

Discussion

Recent reports from Korea and Japan have shown a late recurrence rate
of about 6% among patients with advanced gastric cancer who
survived >5 years post-gastrectomy.



| 4.00 | | Discussion | | | | | | | | |
|---|-----------------------|------------|--------|------------------|---------|---------------|-------------|----------|--|--|
| able 1 terature reports of late onset colorectal recurrence of gastric cancer >5 years after primary resection. | | | | | | | | | | |
| Year | Author | Age | Gender | Recurrent lesion | LNM | Primary tumor | DFI (month) | Outcome | | |
| 1988 | Okabel | 49 57 | F | E, A | Unknown | Por | 60 | Unknows | | |
| 1988 | Ghta | 57 | M | C | Yes | Por | 68 | 42M dic | | |
| | Ohta | 51 | F | A.T.D.S | Yes | Por | 69 | 22M die | | |
| | Ohta | 4.4 | F | R | Yes | Por | 106 | 27M dies | | |
| 1991 | Yamada [®] | 61 | M | T | Unknown | Por | 64 | 3M alive | | |
| 1994 | Ogiwara | 53 | F | D | Yes | Por | 660 | Unknow | | |
| 2001 | Man-i | 58 | M | T, D, S, R | Yes | Sig | 84 | 10M aliv | | |
| 2001 | Kim ¹ | 75 | M | T | Unknown | Well | 77 | 26M aliv | | |
| | Kim | 70 | M | C | Unknown | Well | 68 | 44M aliv | | |
| 2001 | Hase | 44 | F | T | Unknown | Por, Sig | 68 | Unknow | | |
| 2006 | Hiraki | 68 | F | Λ | Yes | Por, Sig | 60 | 7M alive | | |
| 2008 | Shiokawa1 | 69 | F | T | Yes | For | 156 | 4M alive | | |
| 2009 | Takahashi 14 | 76 | M | R | Unknown | Por | 66 | 6M alive | | |
| 2010 | Iwakawa " | 75 | F | R | Yes | Por | 83 | 25M died | | |
| | Iwakawa | 76 | F | R R | Yes | Por | 82 | 22M dies | | |
| 2011 | Arai ³¹⁰ | 62 | M | A. D. R | Unknown | Por. Mode | 180 | Unknow | | |
| 2011 | Murakami 15 | 60 | M | Ü | Unknown | Mode, Por | 72 | 2M alive | | |
| 2012 | Watanabe ³ | 58 | M | T | Unknown | Por, Sig | 77 | 27M dies | | |
| 2013 | Yamamura* | 79 | M | T | Yes | Por, Sig | 132 | 19M die | | |
| | Our Case 1 | 61 | M | T, D, S | Yes | Por, Mode | 110 | 17M aliv | | |
| 12 | Our Case 2 | 46 | F | R | Yes | Por | 106 | 24M aliv | | |

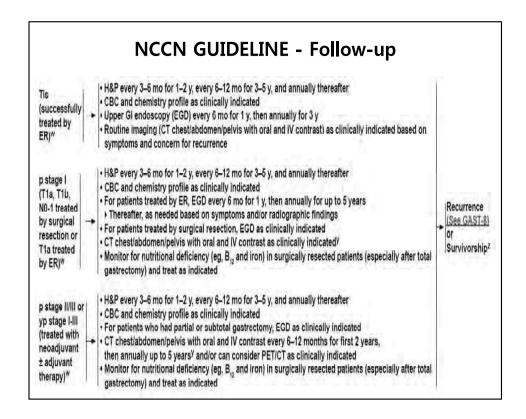
same, improvementations: Det. ausses rice intervals centure (MIE interpretate), C. cecum: A: ascending colon; T. transverse colon; D. descending colon: S. sigmoid colon: R: rectum: Por; poorly differentiated adenocarcinoma; Sig; signet ring cell adenocarcinoma; Mode: moderately differentiated adenocarcinoma; Well: well-differentiated adenocarcinoma; M: month.

3 This patient was not resected; the only treatment was chemotherapy.

- · Median disease-free interval was 74 months.
- Most frequent site of metastasis was the transverse colon
- Majority of metastatic cases originated from poorly differentiated carcinoma
- Median survival from surgery for metastatic lesions was 26 months, and 2 cases survived >3 years.

Discussion

- · Several reports have suggested that surgery for selected patients with recurrent gastric tumors is worthwhile, due to the potential survival benefit from surgical intervention.
- When resection is to be performed, careful consideration of the surgical margin is needed due to the likelihood of lymph node metastases and the intramuscular spread of tumor cells.



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