

- ID no.: 13498955
- Name: 徐〇傑
- Gender: male
- Age: 13 years Admission Date: 2012/ 9/ 23
- Chief Complaint
- Abdominal pain for 1 week

Underlying Disease

- Smith-Lemli-Opitz syndrome
- Mental retardation
- Type I DM since 7 years old
- Control with SC Novorapid/NPH 20~25U/day (~0.5~0.6 U/kg/day) Usual sugar AC: 200~300 mg/dL
- HbA1C: 9.1% (2011/12) => 9.0% (2012/4) => 7.9% (2012/7)

Present Illness

- Severe epigastric pain on and off for 1 week
- Post-pradinal vomiting 4 times a day
- No stool passage in recent 2 days
- Tarry stool for 3 months

Physical Examination

- General appearance: <u>chronically ill, weak,</u> <u>pale-looking</u> Height: 133cm (<3th percentile) • .
- Weight: 38Kg (15-50th percentile)
 Conscious level: alert, responsive
 Vital signs : BT36.5°C, PR:<u>138/min</u>, RR:24/min
- .
- BP: 123 / 72 mmHg HEENT: sunken eye, conjunctiva: pale
- -Neck: supple, no palpable mass

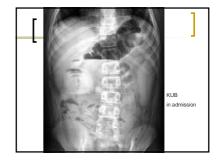
- Physical Examination Chest: symmetrical expansion, clear breathing sound Heart: regular heart beat, no murmur
- Abdomen;
- Abdomen:
 Auscultation: normoactive bowel sound
 Percussion: tympanic
 Palpation: distended, severe epigastric tenderness(+), rebounding pain (+/-), no muscle guarding, no hepatomegaly, no splenomegaly
 Extremities: warm, freely movable, no deformity, no pitting edema
 Stiric acathosis nigra aver the whole body, dry kit
- . Skin: acanthosis nigra over the whole body, dry skin turgo

Lab Data (in admission)

- WBC= 6130, DC: N/L/M= 78.8%/ 16.0%/ 4.7%
- WBC= 6130, DC: NULM= 78.8% 16.0% 4.7,
 RBC= 2.53 * x10⁴U, Hb= 5.1, HC= 18.7%

 RDW= 18.1%, MCV= 73.9 fl, MCH= 20.2 pg, MCHC= 27.3 g/dL (microsylic hypochromic anemia Reticulocyte= 1.81%
 Blood smear: RBC hypochromia 3+

- Platelet= 229K
- Glucose= 211
- Other biochemistry data normal



Initial Treatment

- PRBC 1U transfusion
- IV Ranitidine
- IV Metoclopramide
- Glycerin enema

Hospital Course

- Upper GI panendoscope:
- Esophagus: a esophageal ulcer with blood clot about 0.3cm
 Stomach: several hemorrhagic spots with erosion over fundus, body to antral area
 H1 gastric ulcer,sized about 0.3 cm, over high body area
- Discharged 3 days later since symptoms improved

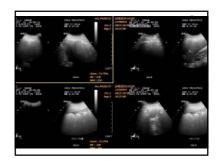
Hospital Course

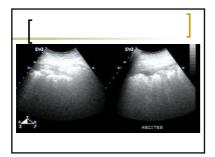
- Admitted again 1 week later
- Vomiting several times, no coffee ground vomius
- Diffused abdominal pain No stool passage for 3-4 ; days



Hospital Course

- Still no stool passage after 4 days of conservative treatment
- Severe bowel distention
- Abdominal echo: ascites (+)





Hospital Course

- Consult pediatric surgeon and laparotomy was done
- Severe distended small bowel from the ligament of Treitz to the ileocecal valve ÷
- Much fecoloma retention in the A-T colon
- The D-S colon was collpase
- The appendix was congestive No true obstruction site was identified

Operation

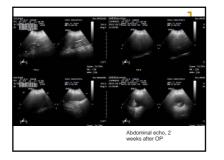
- Tried to remove the fecoloma on table but failed
- Decompressed the bowel retrogradely but failed due to thick material in the stomach. .
- Opened the terminal ileum and made an ileostomy
- Appendectomy





Hospital Course

- Transferred to PICU after operation •
- Wound pus formation after OP => MRSA => Vancomycin => Teicoplanin Transfer to ward after infection has
- controlled
- Still poor feeding (could not tolerate 300cc/day and vomiting) after almost 2 months after OP => arrange lower series

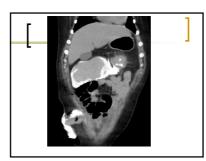


Lower GI Series + Abdominal CT

- Contrast medium was inflated from anus, and it could not pass through T-colon
- Contrast medium was inflated though the ileostomy, and obstruction at T-colon is noted •
- CT findings:
- Bowel wall thickening with narrowing lumen of T-colon Enlarged paraaortic and mesentery lymph nodes







Hospital Course

 Consult pediatric surgeon again Extended right hemicolectomy + stoma takedown + ileocolostomy + enterolysis

- OP finding Severe peritoneal adhesion with bowel loops Stony harddish yellowish tumor mass about 8 x 7 cm in size located at T-colon near splenic
- flexure Multiple mesenteric root LNs enlargement, including the mesoileum
- Luminal narrowing by external compression of tumor
- Diffuse scattering mucosal ulceration and blackish spots in the proximal side of obstruction.
- The mucosa of the distal colon and terminal ileum were not involved

Pathology

- Large intestine, transverse colon, extended right hemicolectorny, moderately differentiated intestinal type adenocarcinoma (tumo size about 4.0-cm in maximal diameter) invading through periodic soft lissue and penetrating to the servical surface, revealing moderate strom desmoplasis with evident throppasie, moderate mixed acute focal lymphovascular permeation, but no definite perineural invasion identified.
- invasion identified. Serosa, outmost periodic soft tissue, ascending colon, extended right hemicolectomy, penetrated through by moderately differentiated intestinal type adenccarcinor transverse colon (section A5). ma of

Pathology

÷

- Surgical margin, proximal and distal, ileum and colon, extended right hermicolectomy, free of tumor invasion or glandular dysplastial, anding olon, poximal from main tumor, towancied right hermicolectomy, two tubular adenomas with low to locally high-grade glandular dysplasta, evident intranucosal hermicinage, and free of invasive malignancy. Large intestine, accending colon, one-tumor part, extended mith mericosal termicinages and submiticosal hypothesis with a submit of the submit ocal hypothesis and gargeragation in termina propia, overlying mith mucceal erosion, submicceal edema, and free of tumor invasion or glandular dysplasta. ÷ .

Pathology

- Small intesting, ileum, extended right hemicolectomy, one ileostoma, revealing submucosal and peri-ileal fibrosis, vascular congestion, hemorthage, focal inflamed granulation fissue formation, and free of tumor involvement or glandular dysplasia. Lymph node, regional, lymphadenectomy, metastatic moderately differentiated intestinal type adenocarcinoma moderately differentiated intestinal type adenocarcinoma without extranodal extension.
- .
- winiout extranodal extension. Omentum, omentectomy, no specific pathologic change, and free of tumor Lymph node, mesenteric root and mesoileum, lymphadenectomy, metastatic moderately differentiated intestinal type adenocarcinoma (1/2, intranodal lesion about 0.7 cm in diameter) with evident extranodal soft tissue extension.

Pathology

- Immunohistochemistry study for primary tumor cells: CK7 (negative), CK20 (positive, diffuse strongly membranous staining), CDX2 (positive, diffuse moderately unclear stain, c/w he immunoprofiles of moderately differentiated intestinal type adenocarcinoma of colonic primary
 EGFR study for nodal metastatic tumor cells: positive (moderately basolateral membranous staining in 80% tumor cells).
 The KPA space mutation test: already arranged at
- . The KRAS gene mutation test: already arranged at section A5 and will be performed as soon as
- pTNM: T4aN1bM0, stage IIIB

Final Diagnosis

- Colon adenocarcinoma, wild type KRAS
- Staging: cT3N2M0, pT4aN1bM0
- Bowel obstruction due to mass effect

