Patient Information

■ Name:李X光

■ Age: 58 y/o

■ Gender: male

Marital status: marriedHospitalization:96-01-02

Chief Complaint

Sudden onset low abdominal cramping pain in the afternoon

Present Illness

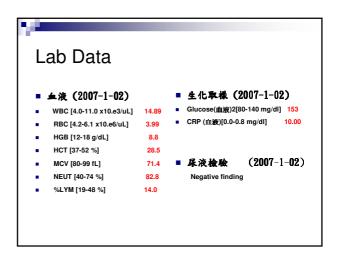
- Persistent low abdominal fullness without association with meals and RLQ tenderness since 6 days ago.
- Mildly easy fatigue and dizziness in this week
- Sudden onset of severe low abdominal cramping pain, especially RLQ
- Non radiating, accompanied by fever with chills and nausea, without vomiting this afternoon

Past History

■ Duodenal ulcer 29 years ago

Physical Examination

- Low abdominal tenderness, especially RLQ.
- Diffuse rebounding tenderness(+),
- Murphy's sign(-).



Imaging study-1

- Chest x-ray: negative finding
- KUB:
 - □ Nonspecific gaseous pattern of bowel.
 - □ Fecal material distension of abdominal-pelvis

Imaging study-2

- CT
 - □ An irregular soft tissue mass, 9.5x7 cm at the right lower abdomen, inhomogeneous enhancement
 - ☐ The mass is suspected arising from the terminal ileum.
 - □ Right lower abdominal mass, r/o small bowel tumor, abscess, diverticulits

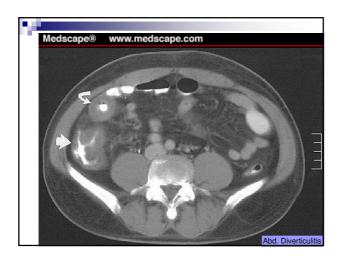




Different diagnosis

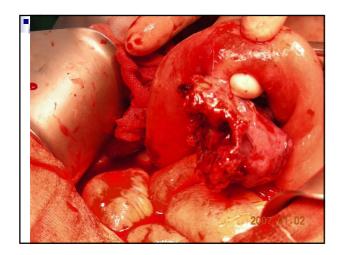
- Small bowel tumor
- Abscess: small bubbles or large collection of air, fluid-fluid level
- Diveriticulitis: an exophytic pouch with airfilling or gas, small collection of fluid

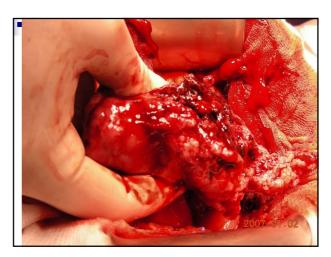




Operation

- Pre-op dx: Peritonitis
- OP method: Excision of intraperitoneal tumor by segmental resection of intestine & Partial omentectomy
- Post-op dx: Intestine tumor , R/O malignant GIST with rupture and hemoperitoneum
- Op finding :
 - One 10 X10 X 10 cm fragile exophyting hypervascular tumor arising from jejunum, 40 cm below ligament of Trietz with rupture.
 - $\hfill \square$ Psuedotumor formation surrounding by omentum , R't side colon & intestine
 - □ About 200 cc blood in abdominal cavity on opening peritoneum







Pathologic Report-1

- Intestine, small, jejunum, segmental resection, gastrointestinal stromal tumor (GIST), high risk with ruptured
- Soft tissue, intra-abdomen, excision, tumor involvement
 - □ one excised mass with attached small bowel 7.2 cm*7.1 cm
 - □ 3 separate soft tissue fragments and 1 membranous soft tissue, in fresh status

Pathologic Report-2

- Microscopically, ruptured high risk GIST
 - □ High risk GIST according to the risk categories of Fletcher CDM et al (size>5 cm and mitotic figures> 5 / 50HPF)
- The immunohistochemical study diffusely strongly positive of CD117 and CD34 and negative of desmin and S-100 protein.
- The both cut ends of small intestine are free of tumor.

Discussion

Clinical Presnetation-1

- Frequently diagnosed incidentally with nonspecific symptoms during endoscopy or sugery or radiologic studies
- Manifestation: GI disease or an emergent condition such hemorrhage or obstruction
- Up to 75% of GIST found < 5 cm
- >5 cm more likely to be sympatomatic → a palpable abdominal mass or swelling, abdominal pain, nausea, vomiting, anorexia, and early satiety
- 60% to 70% stomach, 20% to 30% small intestine and less than 10% in the esophagus, colon, and rectum

Clinical Presnetation-2

- GIST metastases: intra-abdominal, either with metastases to the liver, omentum, or peritoneal cavity
- Lymphatic metastasis is rare
 - most lesions thought to be nodal metastases by imaging studies simply represent metastatic deposits of tumor nodules in the omentum or peritoneum rather than true lymphatic spread
- Intestine GIST: worse prognosis
 - □ Predominant site: jejunum, followed by ileum and duodenum
 - □ The large lesions may be highly vascularized

Lab

■ No specific lab test

Image study

- CT: important to diagnosis and staging
 - □Small GIST(<5cm) homogeneous density
 - □Intermediate GIST(5~10cm) irregular shape, heterogeneous density
 - □ Large GIST(>10cm): irregular shape, heterogeneous density, locally aggressive behavior, distant metastasis

