General Data

- Sex: male
- Age: 68 y/o
- Birth date: 51.04.30
- Birth place: Taiwan
- Date of Admission: 92.10.21
- Date of Discharge: 92.11.19

Chief complaint

Dark-green colored stool passage twice yesterday

Present Illness (1)

- HTN for 6 years under regular control
- DM for 5 years under regular control
- Gout for 11 years under regular control
- Peptic ulcer history for 20 years
- 91.11.20
 - Due to black stool :admitted to 長庚醫院
 - EGD:gastric ulcer in middle body
 - Biopsy:focal low grade dysplasia

Present Illness (2)

- 93.3
 - admitted to 長庚醫院
 - melena
 - vomiting with coffee-ground material
 - Ulcer biopsy:
 - chronic inflammation
 - cluster of mildly to moderately dysplasia glands
- 93.10.20
 - Came to our ER
 - Dark-green colored stool

Present Illness (3)

- 92.10.20 at ER:
 - Panendoscope:
 - protruding hard tumor with central ulceration with active bleeding
 - Impression :submucosal tumor
 - Admitted for further management





Vital sign 92.10.20

- *BP=123/69
- **★** T=36.7
- P=74
- *R=16

Lab Data 92.10.20

CEA	1.13
occult blood(stool)	++++
Glucose	154
BUN	62
Creatinine	1.7
WBC	9.49
%NEUT	78.3
RBC	2.77
Hb	8.4

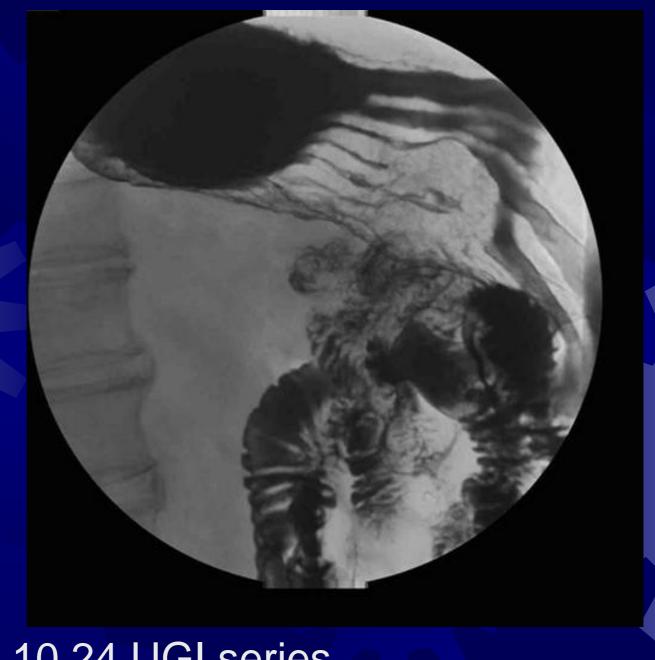


Chest X-ray 92.10.20

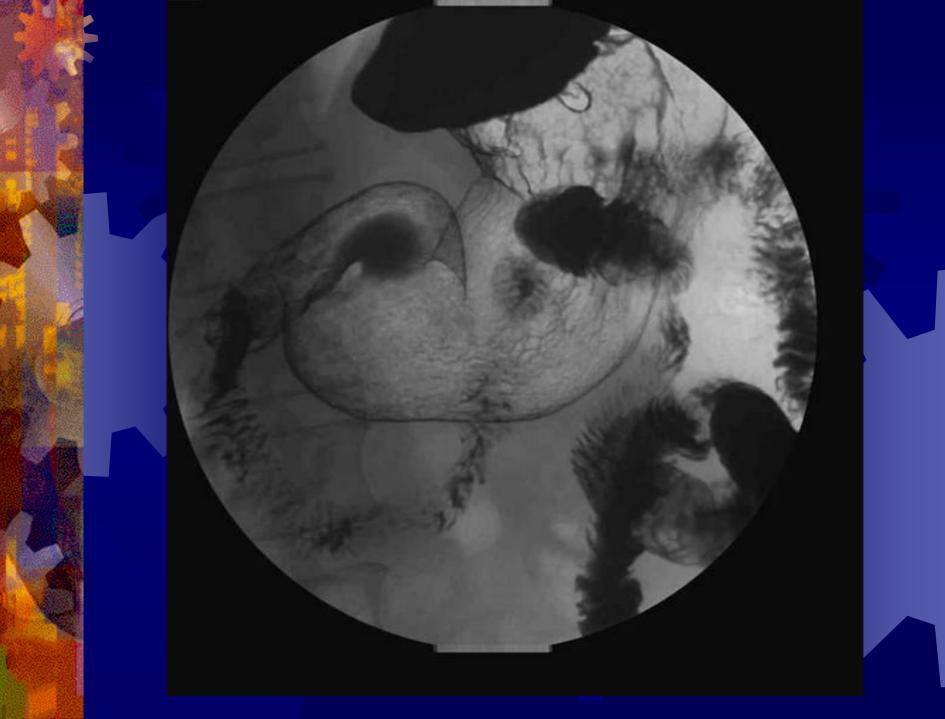
Cardiomegaly with globular configuration, probably pericardial effusion, valvular dx, cardiomegaly or CHD.

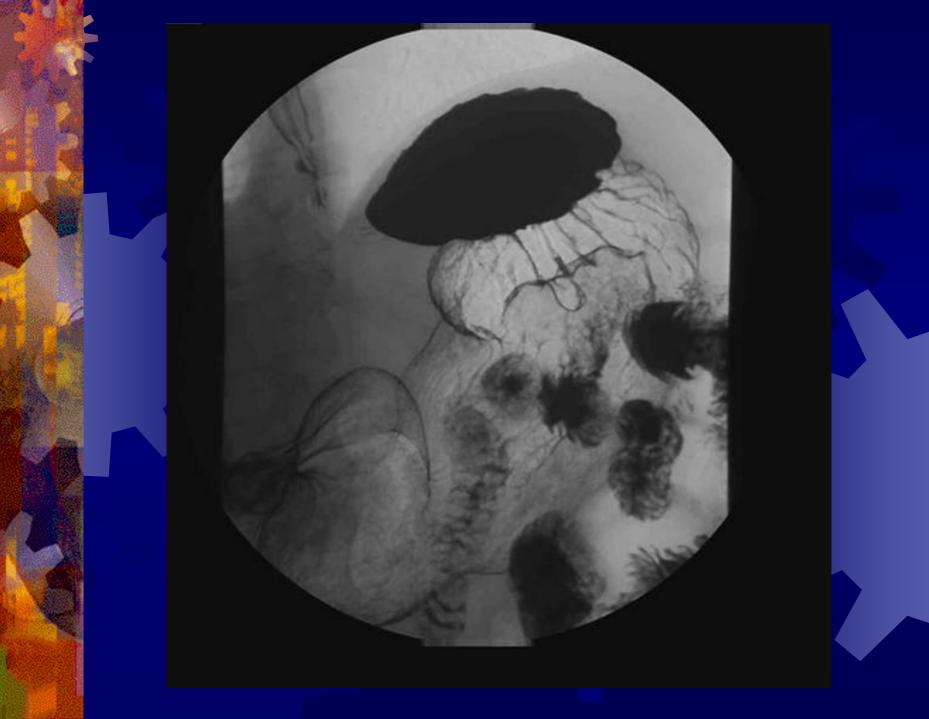


*KUB 92.10.20



• 92.10.24 UGI series





UGI finding

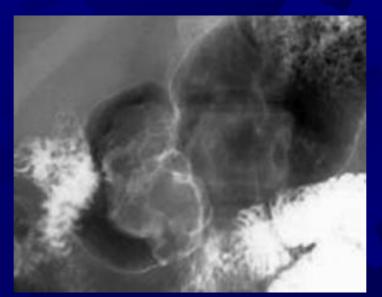
- a partially well-defined, lobulated mass (measuring approximately 3.8 cm x 4.0 cm in dimension)
- with a central ulceration (about 0.6 cm in diameter)
- located at the lesser curvature side of high to middle gastric body.
- Somewhat smoothly widening of the overlying mucosa are noted.

Differential Diagnosis

- Gastric ulcer
- Gastric cancer
- submucosal lymphoma
- Gastrointestinal Stromal Tumor (GIST)

- Early gastric cancer
 - mucosa or submucosa
 - classified into 3 types:
 - Type I: elevated and protrude more than 5 mm into the lumen.
 - Type II: superficial lesions that are elevated (IIa), flat (IIb), or depressed (IIc).
 - Type III: shallow, irregular ulcers surrounded by nodular, clubbed mucosal folds.

- * Advanced carcinoma
 - Polypoid carcinoma
 - lobulated masses that protrude into the lumen
 - may contain 1 or more areas of ulceration.



- ulcerated carcinoma
 - an irregular crater is located in a rind of malignant tissue.



- Infiltrating carcinomas
 - irregular narrowing of the stomach, with nodularity or spiculation of the mucosa

Pic.:Infiltrating carcinoma involving the greatercurve of the stomach.



submucosal lymphoma

- Because of the thickening of gastric rugae, lymphoma must be included in the differential diagnosis
- The above diagnoses could be excluded by pathology
- Iymphoma should be strongly considered if the distal stomach or lesser curvature is involved with loss of elasticity of gastric wall.

GIST 1

- intramural masses
- tumor margins
 - smooth, ulceration, irregularity
- tumor borders
 - form right or obtuse angles with the adjacent visceral wall.
 - the intraluminal surfaces often have welldefined margins



GIST 2

- tumors are intramural
 - extramucosal, the overlying mucosa can be intact
- overlying mucosal ulcerations
 - common in malignant GISTs.
 - ulcerations fill with barium
 - causing a bull's eye or target-lesion appearance

OP finding

- 92-11-03 Radical subtotal gastrectomy
- ascites(-)
- Submucosal tumor about 3 cm in diameter
- located at posterior wall of midbody
- with central ulcer
- Perigastric LN grossly negative

Pathology

- * Adenocarcinoma
- Intestine, small, duodenum, cuff, radical subtotal gastrectomy, no specific change
- Lymph node, group 1 (0/13)
- Lymph node, group 2, (0/8)
- Omentum,total omentectomy, no specific change

Pathology

- intestinal type
- moderately differentiated adenocarcinoma
- tubular or glandular pattern
- infiltrating in desmoplastic stroma
- Invaded:
 - through the muscularis propria
 - deeply into the serosal soft tissue
 - no serosa exposure.

- Symptom and sign:
 - Early disease
 - no associated symptoms
 - advanced disease
 - complaint of indigestion, nausea or vomiting, dysphagia, postprandial fullness, loss of appetite, and weight loss.

- Late complications
 - peritoneal and pleural effusions;
 - obstruction of the gastric outlet,
 - bleeding in the stomach
 - intrahepatic jaundice caused by hepatomegaly;
 - extrahepatic jaundice

- Lab Studies:
 - complete blood cell count
 - identify anemia,
 - caused by bleeding, liver dysfunction, or poor nutrition.
 - Approximately 30% of patients have anemia
 - Electrolyte panels and liver function tests
 - characterize the patient's clinical state

- Esophagogastroduodenoscopy(EGD)
 - safe and simple procedure
 - permanent color photographic record of the lesion
 - primary method for obtaining a tissue diagnosis of suspected lesions

- Double-contrast upper GI series
 - detects large primary tumors
 - detects their spread to the esophagus and duodenum (particularly if the tumor is small and submucosal)
 - The smaller the primary lesion: use of double-contrast and cineradiography.

- Chest radiograph
 - This is done to evaluate for metastatic lesions

- CT scan or MRI of the chest, abdomen, and pelvis
 - evaluate potential areas of spread (ie, enlarged lymph nodes, possible liver metastases)
 - tumors are judged surgically unresectable on the basis of radiographic criteria

- Ultrasound
 - assessment of the tumor stage.
 - Endoscopic sonography is useful as a staging tool when the CT scan fails to find evidence of T3, T4, or metastatic disease.
 - neoadjuvant chemoradiotherapy for patients with locally advanced disease rely on endoscopic ultrasound data to improve patient stratification

- Sugical treatment
 - Total gastrectomy
 - Esophagogastrectomy
 - cardia and gastroesophageal junction
 - Subtotal gastrectomy
 - tumors of the distal stomach.
 - Maintain a 5-cm surgical margin
 - proximally and distally to the primary lesion
- Chemotherapy

- Lymph node dissection 1
 - extent of the lymph node dissection is somewhat controversial.
 - nodal involvement indicates a poor prognosis
 - aggressive surgical approaches to attempt to remove involved lymph nodes

- Lymph node dissection 2
 - patients were randomized to an R1 or a R2 nodal dissection
 - local regional recurrence and overall survival were similar
 - Critics of extended nodal dissections argue that the apparent benefit associated with extended lymph node dissection reflects stage migration

Stage	TNM	5-Year Survival, %
0	TisNOMO	90
IA	T1NOMO	59
IB	T2NOMO	44
	T1N2M0 T2N1M0 T3N0M0	29
IIIA	T2N2M0 T3N1-2M0	15
IIIB	T4NO-1MO	9
IV	T4N2M0 T1-4N0-2M1	3

- Prognostic features
 - the depth of tumor invasion
 - gross appearance
 - size
 - location of the tumor
 - number of metastatic lymph nodes

