

General Data

Name: 王〇松
Sex: male
Age: 68 y/o
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:

oprotruding 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

RF

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



• 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
 Iobulated 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,
 Iymphoma 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.





- 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
- Iocated 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.



Discussion :stomach adenocarcinoma 1

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.



Discussion : stomach adenocarcinoma 2

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



Discussion : stomach adenocarcinoma 3

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

Discussion : stomach adenocarcinoma 4-1

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

Discussion : stomach adenocarcinoma 4-2

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.



Discussion : stomach adenocarcinoma 4-3

Chest radiograph
 This is done to evaluate for metastatic lesions

Discussion : stomach adenocarcinoma 4-4

- 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



Discussion : stomach adenocarcinoma 4-5

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



Discussion : stomach adenocarcinoma 5-1

- 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



Discussion : stomach adenocarcinoma 5-2

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



Discussion : stomach adenocarcinoma 5-3

- 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



Discussion : stomach adenocarcinoma 6

Stage	ТММ	5-Year Survival, %
0	TisN0M0	90
IA	T1N0M0	59
IB	T2N0M0	44
II	T1N2M0 T2N1M0 T3N0M0	29
IIIA	T2N2M0 T3N1-2M0	15
IIIB	T4N0-1M0	9
IV	T4N2M0 T1-4N0-2M1	3



Discussion : stomach adenocarcinoma 7

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