Basic Data : Age :62y/o Date of admitted:940510

Married status : Married

Chief Complain :

bilateral ovarian cyst incidentally being found out during pap smear.

Present Illness :

- 1. HTN for half year without regular medication control.
- 2. Denied other significant disease and symptoms.

Surgery history : cholecystectomy Personal history : NIL GYN/OBS history : OBS : G7P5 SA1AA1 menopause : 52y/0

Review of system : no significant positive finding Physical examination : B.W.:83.1KG Height : 155.8cm vital sign : T/P/R : 36.8c/91bpm/20 B.P. : 127/89 mmhg

Lab data

WBC : 7.75 10x3 mg/dl Glucose : 170 mg/dl CA125 : 55.05 U/ml CA199 : 157.70 u/ml

- o CXR ; no active lung lesion
- Abdominal sono :
 - Uterus
 RVF 49x34x37mm
 endometrium : 5mm
 mass : post. Wall , thickness
 - 2. adnexa

R't ovary : with cyst 29x41mm L't ovary : with mass 39x42mm cul-de-sac : no fluid



 Left heterogenous, solid mass with cystic or necrotic component within the lesion

- Right homogeneous solid mass.
- Impression : pelvic masses
 R/o ovarian tumors



o Left solid mass abutting to left lateral wall of sigmoid colon o R/o colon malignant changed



o Left solid mass abutting to left lateral wall of sigmoid colon o R/o krukenberg' s tumor



- Ill-defined hetetogenou s mass with uterus at pelvic cacity.
 R/o myoma
 No lymph
 - adenopathy involvement

Differential diagnosis

o Ovarian tumor

- Colon cancer
- Metastases Krukenberg's tumor

Ovarion tumor

- Normal ovary size : 3.5x2.5x1.0cm
- masses pose the greatest concern:
 - .Those larger than 7 cm in diameter
 - .Those that persist beyond the length of a normal menstrual cycle
 - .Those that have solid components
 - .Those that have a complex internal structure
 - .Those that are associated with pain
- Clinical symptoms : urinary frequency, pelvic or abdominal pressure, and bowel habit changes, acute pain with twisted masses.
- Imaging studies : most common- ultrasound, either transabdominal or transvaginal, CT scan can help identify the size, location, and relationship to other organs, evaluated vascular supply and enlarged lymphnodes

Colon cancer

- History : found by screening or maybe asymtomatic
- 50% of patients present with abdominal pain, 35% with altered bowel habits, 30% with occult bleeding, and 15% with intestinal obstruction
- Clinical symptoms: weight loss, cachexia, abdominal discomfort or tenderness, liver mass, abdominal distention, ascites, rectal mass, rectal bleeding, or occult blood on rectal examination.
- Imaging studies : Abdominal/pelvic CT scans can be useful in diagnosis of colon cancer that has metastasized to lymph nodes and liver
- Colonscopy: examed entire colon, obtained biopsy, removed polyps
- Double contrast barium enemas : screening and diagnosis

Krukenberg's tumor

- Mucocellular carcinoma of the ovary
- o usually metastatic from the gastrointestinal tract
- character : mucoid degeneration , signet-ring-like cells ,
- The lesions may not be discovered until the primary disease is advanced. In some cases, a primary tumor is not found
- Clinical feature : large, bilateral and poor prognosis. Rarely unilateral
- Ultalsound : bil.solid ovarion masses, hypervascular, clear margin, intratumoral cysts
- CT scan: bil.solid masses, demarcated intratumoral cysts, enhanced rim of cysts

Pathology result

 1. L't ovary : mucinous cystadenoma with borderline malignancy

2. R't ovary : mucinous cystadenoma, minimal histologic change

- 3. uterus : leiomyoma , adenomyosis , adhension
- 4. omentum : fat necrosis
- 5. Stomach: gastritis

6. colon : chronic inflammation, no evident of cancer cell.

Diagnosis : mucinous cystadenoma, borderline

Discussion

 Mucinous cystadenoma 15-20% of ovarian tumours \diamond can attain a huge size \diamond multilocular \diamond contain viscid mucin \bigcirc may rupture and cause pseudomyxoma peritonei

Borderline mucinous cystadenoma

- about 10% of mucinous ovarian tumours
- o bilateral in 10% of cases

Clinical features of ovarian tumor

- o ften asymptomatic, non-specific symptoms
- o pain: rapidly enlarging malignant lesion
- o abdominal girth: tumour or ascites
- pressure effects: distorting the urethra, urinary retention, urinary frequency
- o Rupture
- o endocrine effects: rarely
- Others: infarction/haemorrhage, torsion of a cyst

Investigation of ovarian tumor

- o routine haematologic and biochemical studies
- abdominal radiograph calcifications in a younger patient may be due to a benign cystic teratoma
- barium enema to rule out ovarian metastases from a primary colonic cancer in older patients
- breast mammography in patients with suspicious breast lumps to eliminate breast metastases
- pelvic ultrasonography, especially transvaginally more effective than CT
- serum tumour markers CA-125(normal: < 30ku/L) is elevated in 80% of patients with advanced ovarian cancer.
- endometrial biopsy if abnormal vaginal bleeding to exclude concurrent primary endometrial and ovarian tumours

Imaging finding

 Indicators for a benign lesion smooth walled, cystic freely mobile frequently unilateral may adhere to an adjacent structure because of infection

 Indicators for a malignant lesion irregular, nodular, partially solid mass, usually bilateral fixed ascites

Treatment for borderline mucinous cystadenoma (1)

- A high index of suspicion for possible malignancy is necessary. Indications for exploratory laparotomy, the collection of any ascitic fluid and washings from the pelvis, both paracolic gutters and both hemidiaphragms.
- If the frozen section revealed invasive or borderline malignancy (low malignant potential,LMP). Proceed with complete staging for ovarian cancer.
- Consider more conservative therapy for young patients if future fertility is required
- In postmenopausal women, total abdominal hysterectomy and bilateral salpingooophorectomy are appropriate.

Treatment of borderline mucinous cystadenoma (2)

Surgery

Vertical incision

Multiple cytologic washings

Intact tumor removal

Complete abdominal exploration

Removal of remaining ovaries, uterus, tubes^a

Omentectomy

Lymph-node sampling

Random peritoneal biopsies, including diaphragm

^aMay be preserved in selected patients.

Prognosis factor

- Early stage
- Younger age
- Serous histology demonstrating psammoma bodies and diploid tumors
- Survival rate:
 - 5 years 97%
 - 10 years 95%
 - 15 years 92%
 - 20 years 89%

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