



SUBJECT : Pathology

LEC NO.: 13-part 1-Uterus diseases

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وي المالية المالية



يعطيكم العافية وريد ، هاي المحاصرة حأوزنها بخط الإيد بسبب طبيق الوقت فاعدروني 🖤



Puerpural Sepsis

- حمن النفاس ، و النقاس هو الفترة الي بعد الولادة ، و مد ترا 40 يور محمد لاحم لحجمه المبيعي

suppurative inflamation 4 so Sepsis 119

* So it's an acute suppurative inflamation of uterus following labour or abortion.

Note any fever within 10 days after labour or abortion is considered puerpural Sepsis until proved other wise.

* The organism -> pyogenic bacteria, E-coli, Strept. hemo.

* Route of infection ___ endogenous من infection المناع المناع المناع و vulva و vaging .

blood born infection.

exogenous من نفاء الولادة أوللاجهاما و contaminated و gloves instruments.

و على المالية



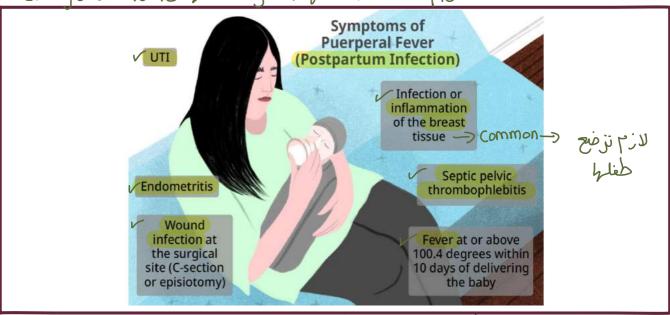
Disease of Uterus

1-Purperal sepsis دهن النقاس

acute suppurative inflammation of uterus following labour or abortion

مهمة

- **Any fever during 2 weeks post labour or abortion consider Purperal sepsis till proved otherwise
 - *Caused by pyogenic bacteria E. Coli or Streptococcus (endogenous route of infection or exogenous)
 - *Complication:
 - 1 Toxemia
 - 2-Septicemia
 - 3-Peritonitis
 - 4- Pyemia
 - 5-Septic Thrombophlebitis we embolism + thrombosis in blood vessels
 - * It's a life threatening condition in endometrium.
 - * Exogenous route => contaminated tools.
 - * Endogenous route > through vagina for example.



- هي Severe وبعطن المريفن Severe.
- وبنصح المرأة الحامل تضل تنظف المنطقة بمن وملح لمنح UTI.
- و برضه ضروري نزهنج البيمي والا ال Breast حيجو و يعير فيه ۱۸۴۱amation.



2-ENDOMETRITIS

- ☐ Inflammation of the endometrium.
- ·Causes:
- 1-Pelvic inflammatory disease (PID)
- 2-Miscarriage or delivery
- 3-Intrauterine device (IUCD). → اللوب

Clinically: pelvic pain

Fever, abdominal pain, menstrual abnormalities, infertility and ectopic pregnancy due to damage to the fallopian tubes.

Pelvic با ممكن يكون عنه ها abscess في مكان في PID **

Chronic pelvic pain ممكن يكون عنه ها PID .

يد حيمير معمل ectopic pregnency ليسب التغيرات الاي حتميد عالرحم لسبب المحاومة . fallopian tube في الأهداب في fallopian tube . البويفتات ما حتنترك باغماه الرحم بسبب اناه المهام المحكن يأثر على الأهداب في

- * Acute or Chronic
- Acute: due to N. gonorrhoeae or C. trachomatis with predominant neutrophilic cell respond
- Chronic endometritis, frequently due to chlamydial & Mycoplasma, with predominant lympho-plasmacytic cell response; the diagnosis of which requires the presence of plasma cells in the endometrium.
- ❖ Occasionally TB endometritis may present, frequently with TB salpingitis & peritonitis
- * Rx: removal of cause, antibiotics, D&C.

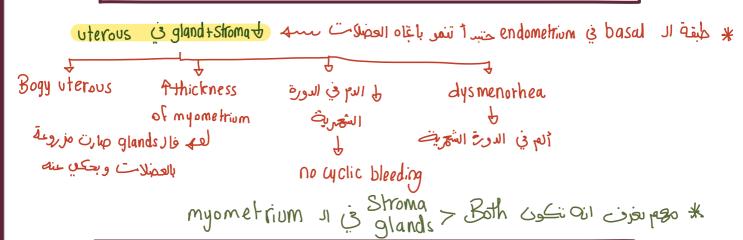
microscopic feature و ميت السبب و مدمة و Cervix و مدمة المانتين مده المانتين المانت

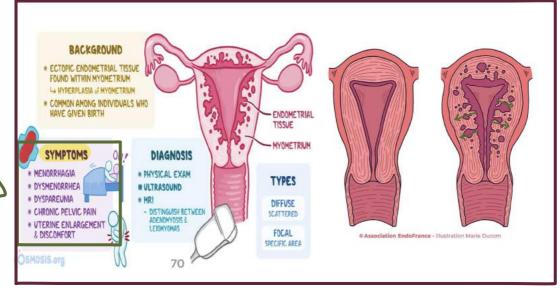




3-ADENOMYOSIS

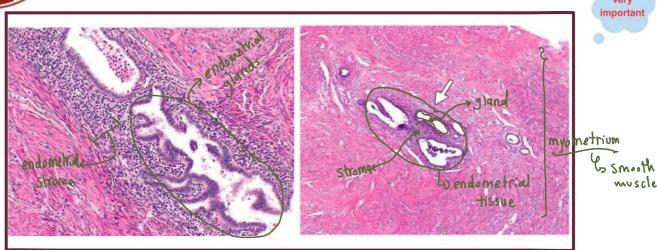
- Is the growth of the basal layer of the endometrium down into the myometrium.
- Endometrial stroma, glands, or both embedded in myometrium.
- Thick uterine wall, enlarged uterus.
- Derived from stratum basalis, no cyclical bleeding.
- Marked adenomyosis may produce premenstrual menorrhagia, dysmenorrhea (painful menses), (due to enlarged uterus, uterine contractions are exaggerated)
 & pelvic pain





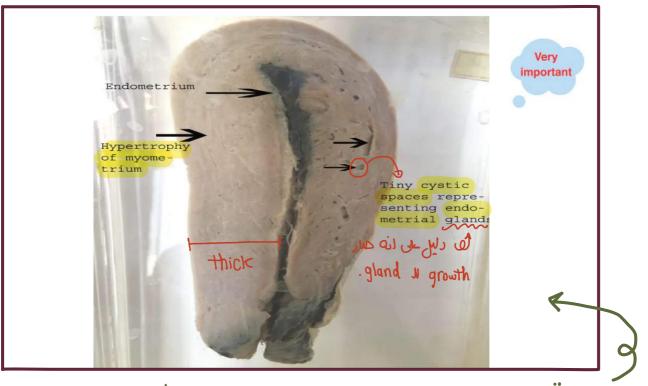






* الطورة اجت بسنة من السنوات ، وهبي Spot diagnosis يهوا

a 40 year old woman, presented with dysmenorrhea, menorrhagia, pelvic pain, what's your diagnose?



it leads to hypertrophy of myometrium versus Joles where uterous I Line was uterous I Line

العسرة جايت اللامتمان

وأقل بالرين علااً



Endometriosis

فه العدا حما قن الع

- * Endometrial gland and Stroma outside of uterine endometrial lining commost likely due to retrograde menstruation with implantation at an ectopic site.
- * Present as dysmenorrhea (باريناء الدرة) + pelvic pain + may cause infertility

 (عمر المراتاء الدرة) + pelvic pain + may cause infertility

 (عمر المراتاء الدرة) + pelvic pain + may cause infertility
- * Most common site wo ovary wo Chocolate cyst
- * Other sites of involvement wouterine ligments --> pelvic pain

 Description poin with defecation

 Bladder wall --> pain with urination

 Bowel serosa --> abdominal pain and adhesions

 Fallopian tube mucosa --> Scarring increases risk factor

 for ectopic tubal pregnency.

-implants appear as yellow-brown "gun-powder" nodules.

- * involvement of the uterine myometrium >>> Called adenomyosis of servine with there's an increased risk of carcinoma at the site of endometriosis,
 - especially in the ovary.

و على المالية



4-ENDOMETRIOSIS

- Is the presence of endometrial glands and stroma outside the uterus.
- It occurs in 10% of women in their reproductive years & in 50% of women with infertility
- •Dysmenorrhea, and pelvic pain, pelvic mass filled with blood (chocolate cyst).

es hemosidrin

•Multifocal, multiple tissues in pelvis (ovaries, pouch of Douglas, uterine ligaments, tubes, and rectovaginal septum).



"Chocolate" cyst in an ovary

 Sometimes distant sites e.g. umbilicus, lymph nodes, lungs, etc

. adenomy osis I use de Golic bleeding mei *

. Dloeding ا قَتْكَ ربس hemosidrin ندة قرابد Choclate cyst ا مج

Pathogenesis

•Three theories:

regurgitation theory. (most accepted).

Menstrual backflow through tubes and implantation..

metaplastic theory. Endometrial

differentiation of coelomic epithelium.

vascular or lymphatic dissemination theory.

May explain extrapelvic or intranodal implants.

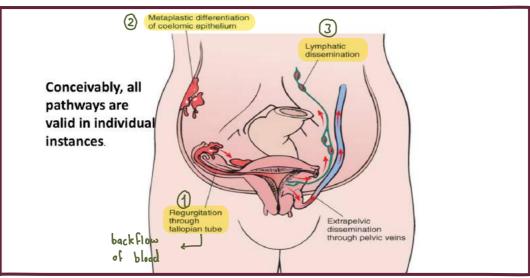
بد هدول نظریات لا etiology بعت المرض به هدول نظریات لا etiology به مفتحة لکلشی من صفت .sys. الأولى: رجوع المام به وهای مفتحة لکلشی من صفت .sys. الأولى: من مفتحة لکلشی من صفت .sys. النظریت الثالثات بنفسر حدوثوا باد واما أد Lymph nodes أو موسم

لفيه له سد قنويها ريحيد

بالأنف مع كل دوية شهريت

وأقل رجازة في علااً



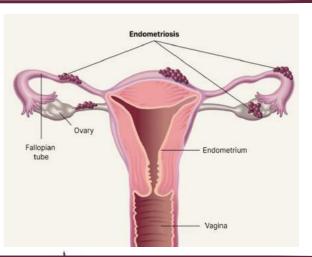


Endometriosis: umbilicus. Accidental implantation of endometrial tissue during previous caesarean section in the abdominal wound caused the formation of a raised greyish-white mass of endometriotic tissue mass in the umbilicus within which there are several small blood-filled cysts.



* Small blood-filled cyst => endometrial glands + stroma







Grossly

*in contrast to adenomyosis, endometriosis almost always contains functioning endometrium, which undergoes cyclic bleeding.

*Because blood collects in these abnormal foci, they usually appear grossly as red-blue to yellow-brown nodules or implants. who due to implantation of functional endometrium.

contains functionalis endometrium, so undergoes cyclic bleeding.

*In the affected ovaries, large blood-filled cysts may form chocolate cysts as the blood ages. Seepage(leakage) & organization of the blood leads to widespread fibrosis.

*Consequences: fibrosis, sealing of tubal fimbriated ends, and distortion of the ovaries, and infertility

- *In all sites, the histologic diagnosis of endometriosis depends on finding 2 of the following 3 features within the lesions:
- (1)endometrial gland
- (2) endometrial stroma (Positive CD10 immuno-stain)
- (3) hemosiderin pigment.

Clinical manifestations of endometriosis depend on its site:

- *Endometriosis is a common cause of dysmenorrhea (painful menses) & pelvic pain; both of which are present in almost all cases of endometriosis as a result of intrapelvic bleeding & peri-uterine adhesions.
- *Extensive scarring of the oviducts & ovaries produces lower abdominal discomfort & eventually causes sterility.
- *Pain on defecation reflects rectal wall involvement, &
- *Dyspareunia (painful intercourse) & dysuria reflect involvement of the uterine & bladder serosa, respectively.
- *Ovarian endometriosis may present as a pelvic mass (chocolate cyst).

