# <u>Arabian Gulf University – Kingdom of Bahrain</u> <u>Year 5 – Gynecology and Obstetrics – 8<sup>th</sup> Week</u>

# Salmanya Medical Complex – Dr. Hatem – Dysmenorrhea and Endometriosis



- **Definition**: recurrent, crampy lower abdominal pain along with GI symptoms (nausea, vomiting and diarrhea) that occurs during menstruation in absence of pelvic pathology.
- It occurs among adolescent females (onset is correlated with occurrence of ovulatory cycles).
- **Symptoms**: they start several hours prior to menses and continue for 1-3 days.
- Pathogenesis:
  - ✓ Increased production of endometrial  $PGF_{2\alpha}$  which leads to dysrhythmic uterine contractions, hypercontractility and increased uterine muscle tone  $\rightarrow$  all of this will result in uterine ischemia.
  - ✓ Increased production of PG also causes nausea, vomiting and diarrhea due to stimulation of GIT smooth muscles.

### • Management:

- ✓ NSAIDs (Drug of Choice) → inhibiting PG synthesis.
- ✓ Combined oral contraceptives (2<sup>nd</sup> choice).

# Secondary dysmenorrheal (example: endometriosis):

• **Definition**: dull aching pain which occurs at the age of 20-30 with the presence of pelvic pathology but no GI symptoms (nausea, vomiting or diarrhea).

### • Endometriosis:

- ✓ <u>Definition</u>: presence of ectopic endometrial glands and stoma outside the uterus (most commonly on ovaries).
- ✓ <u>Pathophysiology</u>:
  - \* Retrograde menses: backward through the fallopian tubes.
  - Or autoimmune.
- ✓ Common sites (other than ovaries):
  - Cul-de-sac.
  - Uterosacral ligament (hence the nodularity which you will detect with physical examination).
  - \* Rectosigmoid.
    - Notice that the uterus may become retroverted, adherent and non-mobile.

### ✓ Clinical findings:

- Dyspareunia (painful intercourse).
- ❖ Uterosacral ligament nodularity (felt by rectovaginal exam).
- **❖** Infertility.

#### ✓ Diagnosis:

- Visualization via laparoscopy.
- Ultrasound may show chocolate cyst.

#### ✓ Treatment:

- ❖ *Medical*: the aim is to create
  - Pseudopregnancy: continuous medroxyprogesterone acetate or combined oral contraceptives.
  - > Pseudomenopause: GnRH agonist (e.g. Leuprolide).

## **❖** Surgical:

- ➤ Conservative (preserving fertility): laser vaporization + adhesion lysis.
- Aggressive: TAH-BSO (+ estrogen replacement).

