Arabian Gulf University – Kingdom of Bahrain Year 5 – Gynecology and Obstetrics – 2nd Week Salmanya Medical Complex – Dr. Farah – Abnormal Uterine Bleeding



- Definition of abnormal uterine bleeding: bleeding which occurs outside the menstrual cycle. Bleeding is called abnormal when changes are noticed in: amount, regularity or frequency.
- What is the normal duration of the menstrual cycle?
 - 2-7 days.
- Blood loss during the menstrual cycle should be acceptable (how would you know that?)
 - Ask you patient how many times does she change her pads? if she changes her pads ≥
 5 times and all of them are soaked → this is considered to be heavy bleeding.
 - Sometimes, you might suspect that a lady is having heavy bleeding when a young female presents to your clinic with anemia, weakness or she complains about passing large clots or waking up in the morning and a large area of the bed is soaked.
 - The normal amount of bleeding during the menstrual cycle is < 80 ml per cycle.
- Important terminologies:
 - **Amenorrhea**: absence of menstrual periods. Amenorrhea can be:
 - ✓ <u>Primary</u>: the lack of a first menstrual period by the age of 16. This condition is known as "delayed menarche".
 - ✓ <u>Secondary</u>: the absence of menstrual periods in a woman who has previously menstruated regularly. The periods must be absent for at least 3 months to be considered amenorrhea.
 - **Dysmenorrhea**: severely painful menstrual periods. This condition may be further classified as:
 - ✓ <u>Primary dysmenorrhea</u>: painful menstrual periods that are not caused by an underlying disease or condition.
 - ✓ <u>Secondary dysmenorrhea</u>: painful menstrual periods caused by an underlying disease or condition. In some patients, the pain may extend beyond the menstrual period and become chronic (e.g. endometriosis).
 - **Hypomenorrhea**: unusually light menstrual periods.
 - **Menorrhagia**: unusually heavy or long menstrual periods (> 7 days!).
 - Metrorrhagia: menstrual bleeding that occurs at frequent, irregular intervals.
 - **Menometrorrhagia**: prolonged menstrual periods that occur at irregular intervals. This condition is a combination of menorrhagia and metrorrhagia.
 - Oligomenorrhea: unusually infrequent menstrual periods. Women with oligomenorrhea have fewer than 6-8 periods per year!
 - **Polymenorrhea**: unusually frequent menstrual periods compared to the normal variation of menstrual cycles.
 - **Postmenopausal bleeding**: vaginal bleeding that occurs more than 12 months after the last menstrual cycle.
- A woman gets her period... how does it stop?
 - Prostaglandins will be released from the uterus causing uterine contractions and vasoconstriction.
 - This is also aided by the systemic clotting system.
- <u>Categories of abnormal uterine blee</u>ding:
 - Associated with ovulatory cycles: organic cause.
 - Associated with anovulatory cycles: diagnosis of exclusion; based on the patient's history.
- Examples on systemic causes for abnormal uterine bleeding:
 - ITP (Idiopathic Thrombocytopenic Purpura).
 - Hypothyroidism.

- Coagulation defects.
- Abnormal bleeding (according to age of the patient):
 - **Pre-menarcheal (before puberty):** this can be caused by
 - ✓ Insertion of foreign bodies.
 - ✓ Child sexual abuse!
 - Reproductive age (18-40 years): mostly due to a gestational event.
 - **Post-menopausal:** mostly due to atrophy of the genital tract.
- Reproductive tract-related cause of abnormal bleeding:
 - Gestational event.
 - Malignancies (notice that there is a low risk of malignancy throughout the reproductive age).
 - Benign origin: atrophy, polyps, foreign bodies, infections... etc.
- What is the difference between PGE_2 and $PGF_{2\alpha}$?
 - PGE₂: is secreted by the endometrium of the uterus and causes vasodilation.
 - \mathbf{PGF}_{2a} : causes vasoconstriction and its secretion is increased by progesterone.
- What are your plans for the following patients who might present at your clinic:
 - A young patient with abnormal bleeding.
 - ✓ <u>Take history.</u>
 - ✓ <u>Do physical examination (why?)</u>
 - ❖ To look if there is any foreign body inserted; to check if there is any kind of abuse; to exclude pregnancy.
 - ✓ <u>Investigations</u>: CBC, PT/PTT and platelet count.
 - A female with abnormal bleeding in her reproductive age.
 - ✓ You have to exclude pregnancy.
 - \checkmark Do an ultrasound.
 - ✓ Check for hormonal imbalance.
 - ✓ <u>Hysteroscopy with biopsy.</u>
 - A post-menopausal female with abnormal bleeding:
 - ✓ Do an ultrasound to exclude any sort of malignancy.
 - ✓ Endometrial biopsy must be taken.
 - * Risk factors which increase the chance of endometrial carcinoma are: obesity, diabetes and hypertension.
 - The result of the biopsy can be:
 - Normal.
 - > Simple hyperplasia.
 - > Complex hyperplasia.
 - > Carcinoma in situ.
 - Notice that if endometrial thickness is $> 5 \text{mm} \rightarrow \text{this}$ indicated the presence of an abnormality.
- What are the options available to control abnormal bleeding?
 - IV estrogen (but notice that you must exclude the risk of thrombosis in the patient). Estrogen can also be given as tablets or rings.
 - Surgical procedures:
 - ✓ Ablation.
 - ✓ Resection.
 - ✓ <u>Hysterectomy.</u>
 - Mirena IUCD (which lasts for 5 years in the uterus).

