Gynecology & Obstetrics

Khaled khalilia IMLE Preview from of 30 of 30

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_____Khaled khalilia 🤻

Amenorrhea	Primary Amenorrhea	Secondary A	menorrhea	
 Absence of menes for X ≥ 3 Months Injury to arcuate nucleus 	 Def: No Menes at Age 14 without secondary sexual development. No Menes at Age 16 with/without secondary sexual development. 	 Def: No Menes for X> 6 months or 3 cycles I a women with a previous normal cycle. ET: Pregnancy (pregnancy should be ruled out first) Functional hypothalamic (stress, exercise) Sheehan Syndrome (Ant. Pituitary Necrosis) Asherman Syndrome (intrauterine scarring following D&C) Arcuate nucleus injury Ovarian Failure Hyperprolactinemia ↑ polycystic ovarian syndrome 		
 Normal menes: Frequency → 21-35 day Duration → 3-7 day Volume → 30-80 ml Oigomenorrhea: bleeding > 35 day Polymenorrhea: bleeding < 21 day Metrorrhagia: bleeding at irregular interval Hypomenorrhea: low intensity bleeding ↓ Hypermenorrhea: high intensity bleeding ↑ 	 With secondary sex development: Müllerian agenesis Androgen insensivity syndrome (Morris) Imperforate Hymen Hyperprolactinemia ↑ Hypothyroidism ↓ Polycystic Ovary Syndrome (PCOS) Cushing Syndrome Anorexia Nervosa Congenital Adrenal Hyperplasia Pituitary Tumor without secondary sex development: Kallman Syndrome Turner Syndrome XO (Gonadal Dysgenesis) Diabetes Mellitus (DM) 			
Virilization	Hirsutism	CO Dysmenorrhea		
Premenstrual Syndrome	 Cushing Syndrome Ovarian Tumor Von-Hipel-lindau Cong. Adrenal Hyperplasia Aromatase Deficiency Sulfatase Deficiency 21-Hydroxylase Deficiency 11-Hydroxylase Deficiency 	Menstrual pain in absence of organic disease. Allergic/ psychogenic Ovulatory cycle Normal pelvic exam Tx: Antiprostaglandins (I NSAIDs (first line) Combined oral contr Progestin (IM,oral,IU	aceptive D)	
The age of onset of puberty varies and is correlat	 GnRH-Agonist Cyproterone Acetate Combined Oral Contraceptive Development + Puberty	 Endometrial ablation (increase the risk of infer miscarriage, preterm labor, antepartum hemorrhage abnormal placental attachment. It is therefore traindicated in women who wish to maintain the poss of fertility.) 		

- The breast bud (the larche) is the 1st sign of puberty (10-11 yr), followed by pubic hair (pubarche) 6-12 mo later.
- Precocious puberty \rightarrow pubertal changes before age 8 or menarche before age 10.
- precocious puberty $Tx \rightarrow \text{long-acting GnRH agonist} \rightarrow \text{leuprolide (Lupron)}$
- The production of sex steroids induces secondary sex characteristics, endometrial proliferation (leading to menstruation), vaginal cornification, and growth of long bones.

Leiomyoma (Fibroids) Fibromyoma, Fibroid, Leiomyoma, Myoma Uterine myoma → most common benign Tumor of Female Genital Tract. Not detectable before Puberty. (↑ during reproductive years x> 35) Have rich vascular supply Anemia → most common complication Types: Summucous: Intramural: within uterine wall → prolonged bleeding + Dysmenorrhea Sunserous: bladder symptoms, constipation, back pain
Uterine myoma → most common benign Tumor of Female Genital Tract. Not detectable before Puberty. (↑ during reproductive years x> 35) Have rich vascular supply Anemia → most common complication Types: Summucous: Intramural: within uterine wall → prolonged bleeding + Dysmenorrhea Sunserous: bladder symptoms, constipation, back pain S: Asymptomatic Uterine Bleeding Dysmenorrhea Pelvis pain Pelvis Pressure Urinary frequency + urgency Urinary retention Constipation Infertility Compression of ureter, Bladder, Rectum.
 Anemia (rost 0 mmon) Information E dometritis, salpingitis) Ortion Substruction (Bowel, urinary) Malignancy Only if symptomatic, rapidly enlarging, menorrhagia, intracavitary. Treat anemia if present. Conservative :(watch and wait) if: symptoms absent or minimal fibroids <6-8 cm or stable in size Currently pregnant due to increased risk of bleeding (follow-up U/S if symptoms progress). Medical: NSAIDS OCC /Depo-provera GnRH-analouges: (Leuprolide, Danazol) Short term (6 months) Before myomectomy,Hysterectomy → reduce fibroid size Reduce bleeding Progesterone
Reduce bleeding
· · ·

Tumors						
Ovarian Tumor		Endometrial Cancer				
 Benign: cystic, smooth, unilateral, mobile Malignant: Solid, nodular, Bilateral, Fixed Protective Factors: OCP, Pregnancy, Breastfeeding Serous: most common ovarian cancer 50 % (Postmenopausal) Most common in Young patient (20s) → Germ Cell origin (Teratoma, dysgerminoma↑) 		 Adenocarcinoma: x > 80% (most common) ↑Estrogen, X progesterone → Endometrium → Hyperplasia → Adenocarcinoma most endometrial cancers are diagnosed as Stage I 				
 Dx: CA-125 US Labaroscopy (Biopsy) Pelvic ultrasound findings of: ovarian papillary vegetations, ovarian > 10 cm, ascites, ovarian torsion, or solid ovarian lesions → Do exploratory laparotomy. Transvaginal Ultrasaunde with Doppler color flow imagining → detect Neuvascularity of tumor blood supply. Fisk Factors: ↑ Age > 40 Nulliparity Family History (BRCA-1) 		 Dx: Endometrial Sample: Endometrial Biopsy (office) D&C +/- Hysteroscopy US X-ray, CT, MRI, Urography Any Genital Bleeding during post menopause must be investigated to rule out Endometrial Carcinoma. 	S+S: • ↑Age (60-70) • Uterine Bleeding (postmenopausal). • Uterus: enlarged, soft • Hematuria Risk Factors: • Age postmenopausal ↑↑ • obesity ↑↑ • Estrogen replacement Therapy • nulliparity • late menopause (after 52) • polycystic ovarian syndrome • estrogen-producing tumors			
Stage: 1A 1 ovary 1B 2 ovary 1C 1 or 2 ovaries + Ruptured capsule/ca involvement/malignant Ascites Stage 2: Ovaries (one or both) + Pelvic Ext 2A Extension to Tube/ Uterus 2B Extension to pelvic structul e urback 2C Stage 3: Ovaries + outside pelvic + Positive 3A Microscopic peritoneal metastasis o 3B Macroscopic peritoneal metastasis o 3C Implant > 2cm / Retroperitoneal/ ing Stage 4: Distant Organ Involvement (Liver)	ensior I O ler, Rectum, Vagina e Node utside pelvis putside pelvic (X<2cm) guinal Nodes	Stage: FIGO Classification ↗ Stage 1: Limit P: It is one Fundation Provided in the stage 1: Limit P: It is one Fundation Provided in the stage 1: Local/Regional spread 1C Myometric It vasion X > Stage 2: Local/Regional spread 3A Invade serosa / Adnexa 3B Vaginal metastasis 3C Pelvis metastasis / para-a Stage 4: invade Bladder/Rectum (4A Invade Bladder/Rectum (4B Distant metastasis	n 50 % 50 % romal invasion aortic LN metastasis mucosa + Distant metastasis			
 Ix: Early Stage Disease: X want children: Total Hysterectomy + Bilateral Salpingo-oophorectomy. Want children: surgery + preserve (uterus, opposite Tube + Ovary) if they are free of Tumor Remove remaining reproductive Organs after Childbearing. Advanced Stage Disease: Ill or IV (large pelvis mass, Ascites) Total Hysterectomy + Bilateral Salpingo-oophorectomy + Omentectomy Procedures may be necessary: Resection of Colon, intestine, retroperitoneal LN. Chemotherapy: Cisplastin + Cyclophosphamide Extra: ovarian endodermal sinus tumor → Schiller-duval body mucinous ovarian tumors → Usually very large. Intestine → first affected by spread and encroachment of ovarian cancer. the leading cause of gynecological cancer deaths 		Tx: Stage I: • Total Hyterectomy • + Bilateral Salpingo-oophorectomy • + peritoneal cyto. Examination Stages 2 + 3, grade 1 with deep myometrial invasion: • Total Hyterectomy + Bilateral Salpingo-oophorectomy + pelvic and para-aortic lymphadenectomy. • Extended-field radiation for extra pelvic cancer (depending on the site and extent) Stage 4: systemic chemotherapy Recurrence: high-dose progestins (Depo-Provera) Endometrial Hyperplasia It is considered weakly premalignant because it progresses to endometrial carcinoma in approximately 1% of women.				

	Tu	mors		
Uterine Sarcoma	Vulvular Cancer			
 Arise from Stromal components (Endometrial stroma, Bad prognosis most common after age 40 rapidly enlarging uterus → Pain Vaginal Bleeding: most common symptom vaginal discharge. 	mesenchymal). Types: • Leiomyosarcoma • Endometrial stroma carcinoma • Adenosarcoma • carcinosarcoma	 squamous cell carcinoma: most common type 90% S+S: Pruritus Bloody vaginal discharge Postmenopausal bleeding Ulcerated lesion cauliflowerlike lesion 	Squa 0 1 11	Carcinoma in situ Limited to vaginal wall x<2cm Limited to vulva/perineum X>2cm Spread to lower urether (nour (Linitateral LN)
Lichen Sclerosus	Lichen Sclerosus		IV	urethra/anus/Unilateral LN Invade into
 White, thin skin extending from labia to perianal area. Most common in postmenopausal women (can occur a associated with a higher risk of cancer → Vulvar carcin S+S: Pruritus Dyspareunia Burning Tx: Topical steroid (clobetasol) 		Dx: Biopsy (always) Risk factors: • HPV 16 positivity • smoking • immunosuppression Staging: done during surgery Tx:	IVa	Bladder/rectum/bilateral LN Distant metastasis
		 Unilateral lesion without LN invo Bilateral → radical vulvectomy 	lvemen	t $ ightarrow$ modified radical vulvectomy
Surface thickened and hyperkeratotic Postmenopausal women ↑ Pruritus (most common symptom) Dx: Biopsy Tx: corticosteroid	Ivmphatic drainage : superficial inguinal lymph nodes → drep femoral nodes → external iliac lymph nodes. 2) Paget usearc in raepithelial neoplasia 5 : . • Sorenese . • Prucings . Res lar on + superficial white coating Dx: Biopsy (always) Tx: • Bilateral Lesion: radical vulvectomy • Unilateral Lesion: modified Vulvectomy			