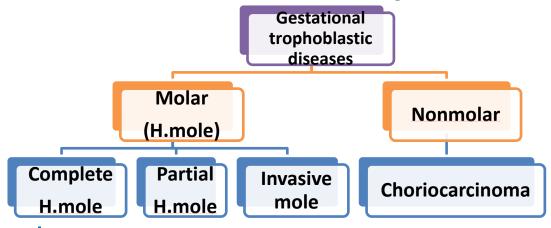
Female Genital System

Dr.Noor Sabeeh, 4th lecture 2022/2023

Diseases of pregnancy

- Ectopic Pregnancy
- o Defined as implantation of a fertilized ovum in any site other than the uterus.
- o 90% occurs in the fallopian tube (tubal pregnancy); other sites include the ovaries and the abdominal cavity.
- o Can be caused by any factor that retards passage of the ovum through the fallopian tube. Such as chronic inflammation and scarring in the oviduct; intrauterine tumors and endometriosis.
- o Rupture of an ectopic pregnancy causing acute abdomen and shock.
- Gestational trophoblastic disease
- Abnormal proliferation of fetal trophoblast cells, characterized by elevated blood and urine HCG level higher than normal pregnancy. The WHO divides these diseases into two categories:



Hydatidiform mole

- It is a benign gestational trophoblastic proliferative disease characterized by a Voluminous mass of swollen **cystically dilated** chorionic villi appear as **grape like structure**
- Before 20, after 40 years.
- History of mole increase the risk for molar diseases in subsequent pregnancies
- Larger for dates uterus
- High HCG.
- Two types both result from abnormal fertilization:

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1.Complete H.mole: fertilization of an empty ovum by diploid sperm or two sperms resulting in diploid 46xx, 46xy karyotype (paternal origin)
2.Partial H.mole: fertilization of normal ovum by diploid sperm or two sperms resulting in Triploid 69xxy karyotypee

Complete mole	Partial mole
diploid 46xx, 46xy	■ Triploid 69xxy
 All villi are abnormal 	 Some villi are normal
No fetal parts	 Fetal parts are present
 Diffused circumferential trophplastic proliferation 	Focal trophoblastic proliferation
 Serum and tissue HCG markly elevated 	Slight elevation
Risk of choroicarcinoma 2%	• rare

Grossly

Expanded uterus by friable mass of translucent cystic vesicles contains clear watery fluid (hydrobically swelling). No fetal parts in complete mole, common in partial mole

Microscopically

- ☐ Hydropic swelling of chorionic villi which consist of loss edematous connective tissue core
- ☐ No fetal blood vessels in complete mole, while present in partial mole
- ☐ Proliferation of both cyto and syncytio trophoblast

Gestational choriocarcinoma

- highly aggressive malignant tumor
- Arise either from gestational chorionic epithelium.
- 50% follow H. mole, 25% follow abortion and the remainder after normal pregnancy
- High level of serum and urine HCG
- Wide spread to lungs (cannon ball appearance on X-ray), brain, liver, vagina.....
- The abnormal the conception the more risk of choriocarcinoma