1 Molar Pregnancy Gestational Trophoblastic Disease

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2 Gestational Trophoblastic Disease

- Trophoblastic tissue develops abnormally after gestation is established
 - ■Increased HCG X10 at same age for normal gestation
 - Remains elevated after 60 days
 - Risk factor
 - Younger than 20
 - **™**Older than 40

3 Hydatidiform Mole:

- Signs and Symptoms:
 - Vaginal bleeding maybe present with pain
 - ■Increased HCG-very high levels for GA
 - **I**LGA
 - ■Rapid rate of growth of the uterus
 - Hyperemesis gravidarum
 - Signs of pre-eclampsia
 - MHTN, proteinuria, edema

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4 Gestational Trophoblastic Disease

- Benign form:
 - Positive hydatidiform mole
- Invasive form:
 - Invasive mole
- Increased malignant form:
 - Choriocarcinoma

5 Hydatidiform Mole:

- Theca Lutein Cysts
 - Vessicles can pass vaginally (unusual)
- Sonographic Characteristics of Complete
 - First Trimester
 - Mistake AB
 - ■Incomplete AB
 - **■Blighted Ovum**
 - Second Trimester
 - Vessicles larger and have classic appearances
 - ■Theca Lutein cysts

6 Gestational Trophoblastic Disease

- Associated Ovarian Changes:
 - ■Theca Lutein cysts 20-35% of molar pregnancy
 - Theca Lutein cysts form in response to the increased HCG
 - Usually large and multi loculated
 - Bilateral

Resolve after mole removed (2-4months)

7 Partial Mole

- Chorionic Villi edematous not prolific
 - Fetal tissue present although grossly abnormal
 - Some will have a normal placenta
 - ■Usually has numerous cystic areas
 - ■No change to malignant form

8 Complete Hydatidiform Mole:

- - Benign form
 - Trophoblastic proliferation into mass/tumor made up of many cells.
 - Degeneration of chorionic villi in the absence of normal circulation
 - ■Villi become hydropic
 - wessicles-grapelike clusters
 - ■Usually benign can form into a malignancy called choriocarcinoma
 - Fetal parts not seen

9 Complete Mole

- No fetal tissue present in the molar mass
- Symptoms prior to 20 weeks:
 - Pre-eclampsia
 - Vaginal bleeding
 - Increased HCG
- Sonographically:
 - Soft tissue, echogenic mass fills uterine cavity
 - ■Bilateral theca lutein cysts

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10 Coexisting Fetus and Mole

- Def: Dizygotic twin gestation
 - Mole (complete or partial)
 - Fetus
 - One egg fetus, one egg mole
 - Can become invasive
 - Placenta is normal and separate from fetal tissue

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11 Locally Invasive Mole

- Chorionic Villi penetrate myometrium
 - Can have invasion of bladder wall with hemorrhage of local vessels
 - mextensive proliferation
 - willi pattern preserved
 - ■Clinically suspected with increased levels of BhCG after evacuation of hydatidiform mole

12 Metastatic Choriocarcinoma

- Most severe malignant form
- Mets to:
 - Liver, brain, lungs, bone, GI
 - High degree of trophoblastic proliferation which masks the villous pattern
- MA degenerating leiomyoma may mimic:
 - Mydatidiform mole

13 Treatment

- Uterine curettage
- Serial measurements of serum hCG levels
 - ■Typically fall by the 10-12th weeks

14 Conclusion

- Gestational trophoblastic disease
 - Partial or complete
 - ■Coexisting fetus and mole
 - Locally invasive
 - Choriocarcinoma
- Migh beta hCG
- Theca lutein cysts
- Grape like presentation in uterus
- D & C is often treatment plan
 - Long term hormone follow up.

15 Molar Pregnancy

- Clinical signs
 - Large for gestational age
 - **M**Hyperemesis
 - Elevated β hCG
 - ■Increase at an abnormal rate
 - Uterine edema
 - Vaginal bleeding
 - Hypertension
 - Passage of tissue

16 Molar Pregnancy

- Sonographic signs
 - Echogenic material filling uterus
 - Swollen chorionic villi appear "grape-like"
 - ■Theca lutein cysts on ovaries
 - ■Due to the high βhCG
 - **Multilocular**
 - May take 2-4 months to resolve

17 Molar Pregnancy