# Arabian Gulf University - Kingdom of Bahrain **Year 5 – Gynecology and Obstetrics – 4<sup>th</sup> Week** Salmanya Medical Complex – Dr. Saeeda – Trophoblastic Disease



#### What is Gestational Trophoblastic Neoplasia (GTN)?

• Abnormal proliferation of placenta tissue involving both the cytotrophoblast and/or syncytiotrophoblast.

#### **Risk factors:**

- Being from Philippines or Taiwan.
- Maternal age extremes (< 20 years old, > 35 years old).
- Folate deficiency.

#### What are the clinical findings?

- Bleeding before 16 weeks of gestation with passage of vesicles from the vagina.
- Fundus larges than dates.
- Hyperemesis gravidarum.
- Pre-eclampsia.
- Hyperthyroidism.

#### **Classification of GTN:**

• Benign GTN: it is the classic hydatidiform mole which is common in Far East (especially Philippines and Taiwan):

Complete Mole	Incomplete Mole	
Fertilization of an empty egg with a	Fertilization of a normal egg with two	
single X sperm resulting in paternally	sperms resulting in triploid 69,XXY	
derived normal 46,XX karyotype	karyotype	
No fetus is present and uterus is filled		
with grape-like vesicles (snowstorm	Parts of the fetus are present	
appearance with ultrasound)	-	
Progression to malignancy is 20%	Progression to malignancy is 10%	
Management: no chemotherapy is needed; weekly β-hCG titers for 3 weeks then		
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monthly for 12 months (with oral contraceptive pill)

## • Malignant GTN:

Non-metastatic	Good prognosis	Poor prognosis
Uterus only	Pelvis or lungs	Brain or liver
100% cure	> 95% cure	65% cure
Single agent chemotherapy		Multiple agent chemotherapy
(methotrexate)	(methotrexate, actinomycin-D and	
	cytoxan)	
Weekly β-hCG for 3 weeks then monthly for 12 months (with oral contraceptive pill)	Weekly β-hCG for 3 weeks; then	
	monthly for 2 years; then every 3 months	
	•	for another 3 years (total of 5 years –
	.11)	with oral contraceptive pill)

### **Initial management includes:**

- Baseline quantitative  $\beta$ -hCG titer.
- Chest x-ray to rule out lung metastasis.
- Suction D&C to evacuate the uterine contents. Then you will follow the management plan depending on the classification of GTN (as mentioned above).