Endocrine Graves's disease



Hyperthyroidism

- Is a condition where the thyroid is overactive, producing high amounts of thyroid hormones, this will lead to thyrotoxicosis.
- Thyrotoxicosis: is a collection of symptoms and signs due to high plasma levels of thyroid hormones.
- *Please remember, Hyperthyroidism is not the only cause of thyrotoxicosis.
- -Ten times more common in females than in males.

Chief Complaint: Can be any of the symptoms of hyperthyroidism, patient may come with goiter as a primary complaint **Questions Indications Onset and Duration** When did you first notice that? And for how long? Is it a continuous problem or it comes as separated attacks? Does the problem get better or worse by certain things? This can help in detecting Have you felt a neck lump or swelling? whether the source of the excess Or symptoms like shortness of hormones is thyroid related or breath, dysphagia and not hoarseness? **Symptoms** Ask about: High appetite Weight loss (If yes how many Kg?) Metabolic and bowel symptoms Diarrhea of thyrotoxicosis Warmness Sweating Preference of cold weather Ask about: Cardiovascular symptoms of Palpitation thyrotoxicosis Shortness of breath

Missed or irregular beats Time to a series.	
• Tiredness	
Ask about:	
Hyperactivity	
 Nervousness 	Neurological symptoms of
• Insomnia	thyrotoxicosis
Irritability	
Depression	
Ask about eye problems such as:	
Double vision	Eye manifestations of
Grittiness	thyrotoxicosis
Redness	,
Pain behind the eyes Information Asia should	Mantagan with this are 100
In females, Ask about:	Most women with this condition
Amenorrhea or decreased	have a reduction in the quantity
amounts of menses Ask about:	of their menses
Do you complain of difficulty in	
standing after being setting on	(Proximal muscle weakness)
the ground? Or difficulty in	(Floximal muscle weakness)
getting out of a chair?	
Past medical history	
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thyrotoxicosis?	Grave's disease	
Social history		
Origin or place of residence?	Some areas are known to be endemic with multinodular goiter	
Current pregnancy?	Pregnancy is associated with higher levels of thyroid hormones in the serum. Thus it may cause milder symptoms of hyperthyroidism or exaggerate a silent hyperthyroid state.	
Exposure to iodine whether in diet or as supplements or any other source like imaging contrast?	Excess iodine may be responsible for thyrotoxicosis.	
Systemic review		

Possible differential diagnoses of Thyrotoxicosis:

1ry

- Grave's disease (Most common cause)
- Toxic multinodular goiter
- Toxic adenoma
- Early coarse of Hashimoto's thyroiditis
- Subacute thyroiditis
- Postpartum thyroiditis
- Iodine-induced (Jod-Basedow phenomenon)

2ry

- Pituitary (TSH hypersecretion)
- Choriocarcinoma (High HCG)
- Struma ovarii (Ectopic thyroid tissue in the ovaries)
- Excess thyroxine or amiodarone ingestion

Hyperthyroidism

Investigations of hyperthyroidism:

- Thyroid function test (To distinguish 1ry from 2ry causes)
- Others 1/Ultrasound 2/Thyroid scan

Management

Primary causes like Grave's disease is treated either medically by anti-thyroid medications (e.g. Carbimazole) or surgically (Total thyroidectomy) with lifelong thyroxine replacements.

Secondary causes: Treat the underlying cause.



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