Endocrine Graves's disease



Goiter (Thyroid swelling)

most common cause of neck swelling and is one of the commonest presentations and usually the first symptom in patients with many thyroid conditions.

- More common in women.
- Used to be called Struma.
- 90% of cases worldwide are caused by iodine deficiency.

Chief Complain: Neck mass (Swelling)		
Questions	Indications	
Questions about the main problem		
1-When did you first notice that?	Acute or Chronic	
2-Is it growing in a fast or slow pattern?	Very fast: hemorrhage within a follicle or cyst Fast: Malignancy Slow: Benign lesions	
3-Is it increasing in growth constantly or grow then decline in size?	Malignancies usually grow without stopping	
4-Painful or painless?	 Painless mass is usually a bad sign, indicating malignancy Painful mass usually benign (e.g. subacute thyroiditis and bleeding into a nodule in case of non-toxic nodular goiter) 	
5-Any other current masses or history of other masses?	MENII syndrome may result in more than one endocrine tumor at the same time (e.g. Thyroid medullary carcinoma + Pheochromocytoma)	
Associated and related symptoms		
6-Have you noticed shortness of breath, difficulty in swallowing or hoarseness of your voice?	This reflects the extent of invasion to the nearby structures (Trachea, esophagus and	

	recurrent laryngeal nerve
7 Danish have 100	respectively)
7-Do you have any of these	To identify whether the goiter is
symptoms:	toxic (active) or non-toxic
Palpitation and arrhythmias,	(inactive)
tremor, insomnia, hyperactivity,	Toxic goiter is usually one of four
anxiety, diarrhea, weight loss	differentials:
despite increased appetite, heat	1/Grave's disease
intolerance, muscle weakness,	2/Toxic multinodular goiter
sweating and moist skin,	3/Toxic Adenoma
oligomenorrhea and eye	4/Early attack of Hashimoto's
problems?	thyroiditis
Then ask about the opposite	This is common in late stages of
symptoms:	Hashimoto's thyroiditis and
Lethargy, cold intolerance,	sometimes in non-toxic nodular
weight gain despite decreased	goiter.
appetite, constipation, apathy	9-11-11
(inactivity), sluggishness during	
talking (heavy tongue), brittle hair	
or hair loss and dry skin?	
8-Symptoms of bone pain, liver	These indicate the presence of
nodules, jaundice, shortness of	
	metastasis (2ry masses) into
breath or cough?	bone, liver and lung respectively
Medication history	
9-Do you use medications	
related to thyroid gland disorders	
such as Thyroxine	
replacements?	
10-Recent use of Lithium?	Goiter can be a side effect of
*Lithium is used in depression	Lithium
Past Medical and Surgical history	
11-Previous disorders of thyroid?	
12-Were you diagnosed with an	MENII syndrome
endocrine gland cancer in the	-
past?	
13-History of autoimmune	Tendency to develop Grave's
diseases?	disease or Hashimoto's thyroiditis
Family history	
14-Anybody in your family has or	Some thyroid diseases run in a
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had the same problem?	familial pattern (Grave's disease and Medullary carcinoma)

15-Any member in your family was diagnosed with an endocrine gland cancer?	MENII syndrome
Social history	
15-Origin or place of residence?	Some areas are known with endemic goiter due to lack of iodine in food
17-Current pregnancy?	Can lead to a physiological enlargement of the thyroid
18-Diet habits especially (Seafood and iodized salt)	
Systemic review	

Possible differential diagnoses of Neck swelling:

1/Thyroid related

- Physiological: in pregnancy and during puberty.
- Inflammatory
 - Grave's disease (Present with symptoms of thyrotoxicosis)
 - Hashimoto's thyroiditis (Symptoms of hypothyroidism)
 - Subacute thyroiditis (Influenza like symptoms)
 - Riedel's thyroiditis (rare, thyroid is replaced by dense fibrous tissue and become non-functional)
- Thyroid cyst (may bleed causing pain and compression symptoms)
- Benign growth (such as follicular Adenoma, can be toxic)
- Malignancy (Most common type is Papillary)

2/Non-thyroid related

- Lymph nodes (such as lymphoma)
- Parotid gland
- Sebaceous cyst or lipoma
- Carotid aneurysm
- Parathyroid gland (rare)

Investigations done in thyroid diseases:

- Ultrasound (Usually first choice), sometimes + biopsy
- Thyroid function test (Best to detect grave's disease)
- Radioiodine isotope scan
- Sometimes CT + MRI

Management:

- Grave's disease is treated either medically by anti-thyroid medications (e.g. Carbimazole) or surgically (Total thyroidectomy)
- 2. Other thyroid causes of goiter are managed by total or subtotal thyroidectomy with life-long replacement of thyroxine



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