



جامعة المستقبل  
قسم تقنيات البصريات

مشاكل العين بالامراض الباطنية و العصبية

L11

## Ocular manifestation in thyroid disorders

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### HYPOTHYROIDISM

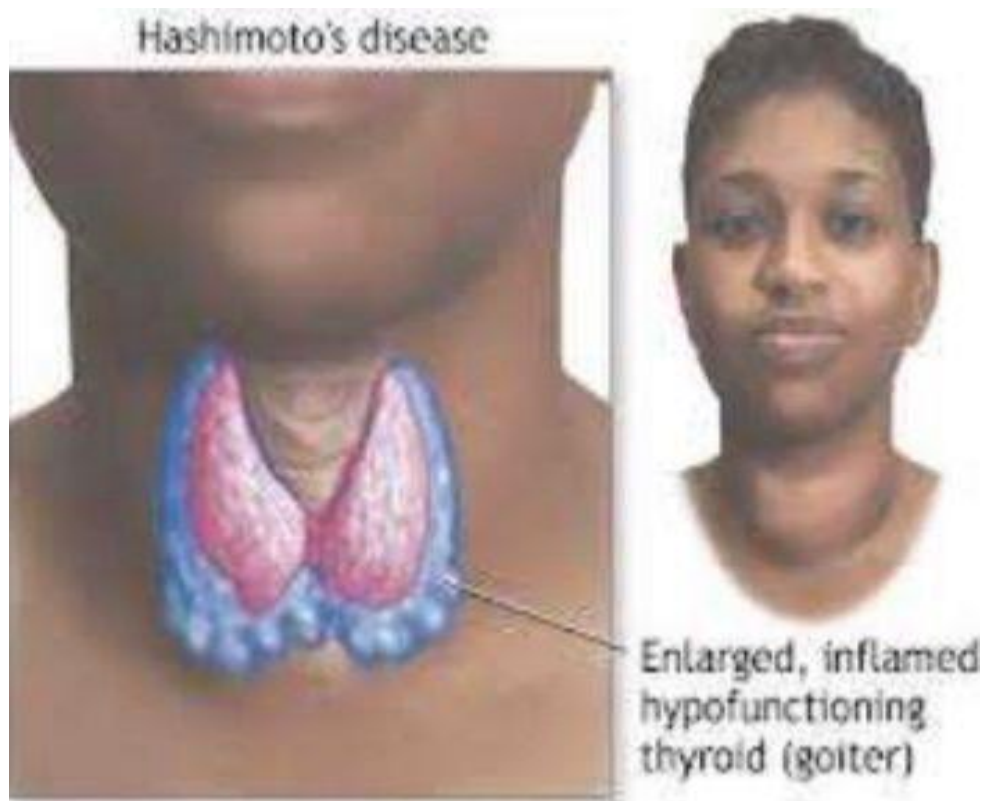
#### - HYPOTHYROIDISM

- Insufficiency synthesis of thyroid hormones.
- Female: Male ratio is 6: 1.
- Causes :
  - Hashimoto's thyroiditis
  - Thyroid failure following radio iodine.
  - Surgical treatment of thyrotoxicosis.
  - Drugs like carbimazole, amiodarone.
  - Iodine deficiency.

#### - Signs and symptoms

- Weight gain.
- Enlarged thyroid gland.
- Depression.
- Fatigue.
- Bradycardia
- Constipation

- Decreased reflexes
- Cold intolerance



- **Ophthalmologic features:**

- Periorbital swelling (part of the generalized nonpitting skin edema of myxedema).
- Characteristic loss of the outer third of the eyebrow.
- Open-angle glaucoma (deposition of a mucopolysaccharide within the trabecular meshwork).



- **Diagnosis**

- TSH ---elevated
- T3 & T4 levels-----low.
- Presence of antibodies

- **Treatment**

- Thyroxine .