

## **CBL**

### **Objectives**

- Discuss the structure and functions of thyroid gland
- Recognize the mechanism of action of thyroid Hormones and regulation
- Relate the clinical picture with the presentation of such clinical condition.
- Recognize the importance of selection of salt utilized in cooking
- Recognize the social issues related to swelling in front of neck
- Identify the anatomical structures of the endocrine gland in front of the neck
- Discuss the synthesis of T3 T4

### **Case**

30 year old female with H/O wt loss, diarrhea, heat intolerance for five weeks along with Palpitations, and excessive sweating. O/E she had swelling in front of neck, fine tremors at both out stretched hands. Palms are sweaty and warm, BP 140/ 60 mm Hg. Pulse is 140 irregularly irregular.

### **Investigation's: Findings:**

WBCs 11000/ cumm

Thyroid function Test:

ESR 40

TSH 0.002

Hb 11 gm/lit

T3 17

T4



### **Questions**

1. Which is the commonest structure enlarged in front of the neck in hilly / mountainous areas of the Pakistan?
2. Which endocrine gland is involved in this case?
3. How thyroid hormone is playing role for normal functions of the body?
4. Discuss the underlying mechanism of these symptoms?
5. How iodine is incorporated in thyroid gland and hormone and what other macromolecules are involved for its synthesis?
6. How thyroid hormone is regulated for normal functions of the body?
7. How to investigate biochemical grounds in such a case to reach the disorder?
8. How would you address patients concerns regarding swelling in front of the neck?