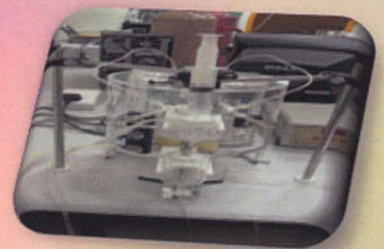
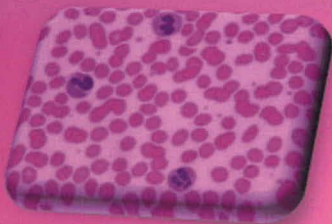


**KULLIYAH OF DENTISTRY INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA**



## **ESSENTIAL LABORATORY INVESTIGATIONS FOR DENTAL STUDENTS**

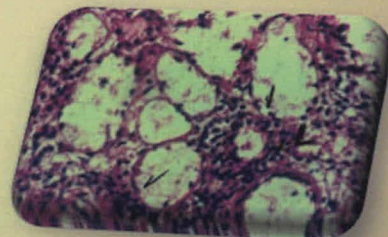
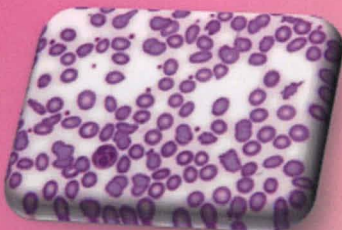


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## **CHAPTER THREE**

### **Thyroid Function Test**

*Dr.Basma Ezzat Mustafa*

Is the tests use to evaluate thyroid function (TSH, T4 and T3)

#### **3.1 TSH Tests**

Consider as the best way to test thyroid function, high TSH level shows that there is a problem in the gland that is directly affecting the thyroid (primary hypothyroidism).

But when the TSH level is low, it indicates that the gland is over active and the production of thyroid hormone is high (hyperthyroidism). And this may result from an abnormality in the pituitary gland (secondary hypothyroidism).

#### **3.2 T4 Tests**

T4 is found in two forms: T4 bound to proteins that prevent the T4 from entering the tissues, and free T4, which enters the various target tissues to exert its effects.

The free T4 fraction is very important to determine how the thyroid is functioning.

Individuals who have hyperthyroidism will have an elevated FT4 whereas patients with hypothyroidism will have a low level of FT4. Combining the TSH test with the FT4 determines how the thyroid gland is functioning.