

## *Haematology Department*

### **1-Basic Laboratory Hematology**

This course is intended to provide the participant with the necessary basic training in

hematology laboratory techniques under the supervision of highly experienced specialists.

Course topics include: Automated blood cell counters (principles & histograms), Interpretation of

CBC, diagnostic approach to anemia, red blood cell morphology, screening tests for hemolytic anemia

and screening coagulation

Practical training includes: Operating automated blood cell counters, blood smear preparation and

staining Microscopic slide examination of various RBCs morphology, ESR,

Screening tests of hemolytic anemia: (Reticulocyte staining and count, Coomb's test (direct and indirect), Sickle test, Osmotic fragility test), Morphologic examination of mature and immature WBCs, Morphologic examination of normal and megaloblastic erythropoiesis, Coagulation profile: PT, PTT and bleeding time

**Duration:** 5 days

**Fees:** Egyptians 500 EGP/35US\$ for non-Egyptians

### **2-Principal Blood Bank Techniques:**

This course will offer the trainee the essential training in blood bank techniques. With completion of the course, the trainee will be able to carry out these techniques on an experienced level. The course includes training on:

- Blood groups & Rh testing
- Blood donation

- Serological examination of donated blood ( HCV, HBV, HIV & syphilis) by ELISA & chemiluminescence techniques
- Cross matching procedure (manual & card methods)
- Preparation of packed RBCs
- Preparation of FFP
- Preparation of platelet concentrate
- Preparation of cryoprecipitate

**Duration:** 5 days

**Fees:** Egyptians 500 EGP/ non-Egyptians 35S\$

### **3-Thrombosis and Hemostasis:**

During this course, participants will acquire clinical and basic knowledge in this field. The course is also eligible for a senior hematologist looking for updated information.

Course topics include:

- Current concepts of the coagulation system
- Control of coagulation
- Hemostasis in patients with impaired liver function
- Venous thrombosis: manifestations, diagnosis and therapy
- How to approach a patient with bleeding
- How to approach a patient with venous thrombosis
- Platelet disorders
- DIC identification and diagnosis
- Novel antithrombotic drugs

Practical training:

Measuring PT, PTT and TT, coagulation factor assays and D- dimer level by semi and fully automated coagulometers.

**Duration:** 5 days

**Fees:** Egyptians 750 EGP/ non-Egyptians 50 \$

#### **4-Hematopoietic Stem Cell (HSC):**

This course covers a wide range of topics from basic science to clinical aspects including HSC biology, separation and use in hematological and non-hematological diseases.

Course topics include:

- HSC biology
- Methods of HSC collection
- Identification of HSC
- Comparison with other sources of stem cells
- HSC transplantation in hematological diseases
- HSC therapy in non-hematological diseases

Practical training:

- Separation of HSC by fully automated closed system cell separator
- Identification of HSC by flowcytometry

**Duration:** 5 days

**Fees:** Egyptians 1500 L.E/ non Egyptians 100 \$

