

# **HAEMATOLOGY AND BLOOD TRANSFUSION**

**MBCHB 111 LECTURES**

**Topic: Introduction To  
Haematology and Blood  
Transfusion.**

# Haematology:

- Is the study of blood

Blood is a tissue with fluid matrix

- Tissue: cells: Red cells white cells and platelets

Fluid: Plasma; Proteins clotting factors, other essential elements.

# Concepts

Cell; biology, biochemistry, physiology immunology  
and Anatomy

Basis;- Molecular and genetics

-Homeostasis Order and disorder

Manifestation: Clinical

Laboratory features

# Application of haematology

**Enables Knowledge and Skills required for**

- **Disease entities; haematological and non haematological**
- **Diagnostic methods**
- **Management of patients**
- **Research**

# Service areas

- Clinical
- Laboratory
- Research
- Teaching

Interactions with the service

# Context

- **Clinical presentation:** How a patient with haematological disease presents/ other non haematological diseases manifest with haematological changes
- **Diagnostic**
  - lab
  - clinical
- **Therapy of various specific diseases**
- **Consultation and working together with other teams**

# Organization

- Routine Haematology/ Cellular haematology
- Haemostasis
- Blood transfusion
- Specials
- Oncology
- HIV

## Presentation of haematology

- Didactic
- Practical
- Integrated continuous medical learning
- Mentoring and developmental education