

Logbook-cum-Portfolio

Elective Module : Evaluation of Haematological parameters

Introduction :

Haematological parameters are the fundamental components of a person's health assessment and these traits are tightly regulated in healthy individuals. Blood has been widely used in research and monitoring of patients as a promising indicator of physiological and pathological changes for the diagnosis and follow up of various diseases. The haematological parameters like hemoglobin, haematocrit, red blood cell count, white blood cell count, absolute eosinophil count, reticulocyte count, differential leucocyte count and platelet count, red cell distribution width and hematological indices such as mean corpuscular volume, mean corpuscular hemoglobin and mean corpuscular hemoglobin concentration are commonly examined to assess the severity of the disease and associated prognosis or mortality. These routine haematological parameters are cost effective, convenient and extremely vital tools for the health care personnel in establishing the diagnosis of various diseases. The examination of blood gives the opportunity to investigate the presence of several metabolic and other constituents which help detect any deviation from normal in the human body. Evaluating these tests can help to identify the severity of the cases and initiate effective timely management of various disease processes thus having a far-reaching impact on healthcare.

Name of the Block	Block 1
Name of the Elective	Evaluation of haematological parameters
Location of hospital lab/research facility	Department of Physiology, College Campus, DMCH
Name of the Internal Preceptor	Dr. Garima Sharma
Name of the External Preceptor	NA
Learning objective of the elective	• To demonstrate the conduct of routine blood tests in the haematology lab. • To enumerate the indications for the various haematological tests. • To enumerate the testing protocol for commonly performed haematological tests. • To interpret the results of various haematological tests and correlate with the results in various blood disorders. • To be able to identify and explain the evaluation of the patients of anaemia.
No. of students that can be accommodated in this elective	4
Prerequisites for elective	Thorough knowledge about physiological aspects in haematology
Learning resources for students	• De Gruchy handbook • Lab manual
List of activities of student participation	• Work daily in observing and performing various blood tests. • Participate in departmental educational activities for Block-1 undergraduate students.
Portfolio entries required	Documentation of various tests done
Log book entry required	Completion of posting signed by preceptor with a meet expectation (M) grade
Assessment	• Attendance • Completion of haematological tests with log book entry. • Day to day participation in conducting tests and assigned tasks. • Presentation by the students.

