Medical Diagnostics (15 days)

Module Content
Overview of the healthcare and hospital system and
Laboratory Organization
Complete Blood count, PBF, ESR, BT and CT, Blood
Grouping
Blood Glucose estimation, RFT, LFT
Cardiac Function Test, Pancreatic Function Test
Automation and recent advances
Machines and their working principles, Urine Analysis
Role and Responsibilities of Phlebotomist
Ethics and professional behaviour
Techniques of blood collection
Blood collection in special cases and sites
Central Lab (Biochemistry and Hematology Lab)
Collection centre
Vitamins and their deficiency
BMW, Interpretation, Lab reporting, Quality Assurance
Revision, conclusion and report
Meeting with Dietician, Placement cell

Medical Diagnostics (30 days)

Module Content
Overview of the healthcare and hospital system

Laboratory OrganizationMachines and their working principlesRole and Responsibilities of PhlebotomistEthics and professional behaviourRequisites for sample collectionEquipment used for collectionTechnique of blood collectionBlood collection in special cases and sitesComplete Blood count, PBFESR, BT and CT, Blood GroupingUrine AnalysisInstruments Used in BiochemistryBlood Glucose estimation, HbA1cRenal Function TestLiver Function TestPancreatic Function TestOther parameters of diagnostic importanceAutomation and recent advancesEquipment Handling and BMW	
Role and Responsibilities of Phlebotomist Ethics and professional behaviour Requisites for sample collection Equipment used for collection Technique of blood collection Blood collection in special cases and sites Complete Blood count, PBF ESR, BT and CT, Blood Grouping Urine Analysis Instruments Used in Biochemistry Blood Glucose estimation, HbA1c Renal Function Test Liver Function Test Other parameters of diagnostic importance Automation and recent advances	Laboratory Organization
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Requisites for sample collection Equipment used for collection Technique of blood collection Blood collection in special cases and sites Complete Blood count, PBF ESR, BT and CT, Blood Grouping Urine Analysis Instruments Used in Biochemistry Blood Glucose estimation, HbA1c Renal Function Test Liver Function Test Pancreatic Function Test Other parameters of diagnostic importance Automation and recent advances	Role and Responsibilities of Phlebotomist
Equipment used for collection Technique of blood collection Blood collection in special cases and sites Complete Blood count, PBF ESR, BT and CT, Blood Grouping Urine Analysis Instruments Used in Biochemistry Blood Glucose estimation, HbA1c Renal Function Test Liver Function Test Pancreatic Function Test Other parameters of diagnostic importance Automation and recent advances	Ethics and professional behaviour
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Urine Analysis Instruments Used in Biochemistry Blood Glucose estimation, HbA1c Renal Function Test Liver Function Test Cardiac Function Test Pancreatic Function Test Other parameters of diagnostic importance Automation and recent advances	Complete Blood count, PBF
Instruments Used in Biochemistry Blood Glucose estimation, HbA1c Renal Function Test Liver Function Test Cardiac Function Test Pancreatic Function Test Other parameters of diagnostic importance Automation and recent advances	ESR, BT and CT, Blood Grouping
Blood Glucose estimation, HbA1c Renal Function Test Liver Function Test Cardiac Function Test Pancreatic Function Test Other parameters of diagnostic importance Automation and recent advances	Urine Analysis
Renal Function Test Liver Function Test Cardiac Function Test Pancreatic Function Test Other parameters of diagnostic importance Automation and recent advances	Instruments Used in Biochemistry
Liver Function Test Cardiac Function Test Pancreatic Function Test Other parameters of diagnostic importance Automation and recent advances	Blood Glucose estimation, HbA1c
Cardiac Function Test Pancreatic Function Test Other parameters of diagnostic importance Automation and recent advances	Renal Function Test
Pancreatic Function Test Other parameters of diagnostic importance Automation and recent advances	Liver Function Test
Other parameters of diagnostic importance Automation and recent advances	Cardiac Function Test
Automation and recent advances	Pancreatic Function Test
	Other parameters of diagnostic importance
Equipment Handling and BMW	Automation and recent advances
	Equipment Handling and BMW

Quality Control

Basic Principles of Radio technology, Radiation Hazards and protection

Dark Room Procedure, Positioning in Radiography

X-Ray procedure

Report Printing and distribution