

Biochemistry and Laboratory Medicine

Applied Biochemistry and Laboratory Medicine content is not centered within a single course but is integrated throughout the medical curriculum, contextually associated with relevant body systems physiologic or pathologic states. Content related to applied biochemistry and laboratory medicine can be found in the following areas of the UGME program:

Foundations of Clinical Medicine I-IV	Introduction to Foundations of Medicine Module: Immunology Pathology: approach to laboratory diagnostics, gross anatomic and histopathologic diagnosis Haematology/Oncology: hemoglobinopathies, coagulation disorders, tumour markers, other Cardiovascular: lipid metabolism, biochemical markers of congestive heart failure, cardiac ischemia, other Respiratory: arterial blood gas analysis, other Gastrointestinal: biochemical markers of hepatic, pancreatic, other gastrointestinal diseases or presentations, bilirubin metabolism, nutrition assessment, other Kidney/Urinary Tract: acid-base balance, electrolytes, urine testing, renal function, other Musculoskeletal: autoantibody testing, acute phase response markers, synovial fluid analysis, other Endocrine: biochemistry of pituitary, adrenal, thyroid, pancreatic islet, parathyroid glands, hypercalcemia, diabetic states, other Reproductive: hormonal biochemistry in relation to puberty, pregnancy, and disease states. Histology and microanatomy Microbiology: cultures, gram stains, PCR, serologies, other Pharmacology: therapeutic levels, toxicity monitoring, basis of dosing adjustment requirements, other
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<i>Core Rotations of Clerkship</i> <i>Clinical Rotations I</i> <i>Clinical Rotations II</i>	<i>Laboratory Medicine</i> plays a significant role in the diagnostic process used daily during clinical experiential rotations.
<i>Selected Topics in Medicine</i>	<i>Laboratory Medicine Bootcamp Sessions.</i> <i>Applied biochemistry and laboratory medicine are also included in presentation/disease specific sessions</i>