

Laboratory Findings: More Than Just Numbers



Overview

Clinical trial management relies on accurate laboratory testing for trial admission and continuing trial participation. **Laboratory Findings** is designed to update clinical research professionals on the significance of laboratory tests in patient diagnosis and clinical trial management. This four-hour course covers the most commonly used laboratory tests, adequate labeling and storage, the physiological bases for the tests, typical reference ranges and the clinical implications of values outside of the ranges.

Audience

Clinical research professionals and other healthcare workers that want an overview of laboratory test results and their significance.

Learning Objectives

Laboratory Findings content includes:

- Major reasons for requesting laboratory tests
- Factors that impact the accuracy of laboratory tests
- Purpose of the most commonly used laboratory tests.
- Typical reference ranges
- Possible indications of results outside of “normal”.
- Tests discussed include:
 - *Urinalysis*: color, specific gravity, pH, protein, bilirubin, urobilirubin, glucose, ketones, occult blood, RBCs, WBCs, cast, crystals
 - *Blood Studies*: CBC, WBC, RBC, Hemoglobin (Hgb), Hematocrit (Hct), Red cell indices - MCV, MCH, MCHC, Platelet Count, Iron, Reticulocyte, Differential WBC, segmented neutrophils, eosinophils, basophils lymphocytes
 - *Chemistry Studies*: Bilirubin, Uric Acid, Glucose, Protein, Blood Urea Nitrogen (BUN) and Creatinine (Cr), Creatinine Clearance
 - *Enzyme Tests*: Alkaline Phosphatase, ALT, SGPT, AST, SGOT, LDH, CPK, CPK Isoenzymes, Cardiac Troponin T
 - *Electrolyte Tests*: Sodium (Na⁺), Potassium (K⁺), Chloride (Cl⁻), CO₂, Calcium, Phosphorus, Magnesium
 - *Lipoprotein Tests*: Lipid Profile, Cholesterol, HDL, LDL, VDL, Triglycerides,
 - *Coagulation Studies*: PT, PTT, INR
 - *Cultures*: Throat, Urine, Blood
- Group exercise to apply key lab tests & physical signs & symptoms to kidney function, liver function, infection, diabetes mellitus and cardiac disease

Accreditation

Corexcel is an Authorized CEU Sponsor of the International Association of Continuing Education and Training (IACET). Corexcel is nationally accredited as a provider of Continuing Education in Nursing by the American Nurses Credentialing Center's Commission on Accreditation (ANCC).