

CLINICAL

BIOCHEMISTRY

6 Months Advanced Diploma Course

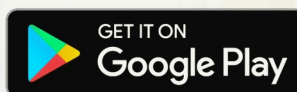


Any Life Science Candidate can join

JOB PROSPECTS: Diagnostic/Pathology Labs

TOPICS TO BE COVERED

1. Pre-Analytical Effects on Laboratory Examinations
2. Reference Values and Methods for Their Determination
3. Analytical Properties of the Laboratory Method, Quality Control
4. Diagnostic Sensitivity, Specificity of the Method, Methods of Determination, Interrelations, Laboratory Screening
5. Basic Urine Tests
6. Kidney Function Tests
7. The Importance of Plasma Protein Assays
8. The Importance of Na, K, Cl Assays in Clinical Practice
9. Metabolism of Calcium, Phosphorus and Magnesium
10. Trace Elements
11. Vitamins
12. Thyroid Gland
13. Hormones of hypothalamus and hypophysis
14. Adrenal Cortex Hormones
15. Disorders of Acid-Base Balance
16. Importance of Oxygen Assays
17. Importance of Osmolality Tests, Water Metabolism
18. Serum Lipids and Lipoproteins, Relation to Atherogenesis
19. Risk Factors for Atherosclerosis (Except Lipids)
20. Free Radicals, Relation to Diseases and Protection against Them
21. Biochemical Tests for Liver Diseases
22. Laboratory Diagnosis of Jaundice
23. Bone Metabolism
24. Laboratory Diagnostics in Gastroenterology
25. Diabetes Mellitus
26. Cardiac Markers
27. Laboratory Signs of Malignant Tumours
28. Cytochemical Examination of Cerebrospinal Fluid
29. Inherited Metabolic Diseases – Laboratory Diagnostics
30. Laboratory Test for Urolithiasis
31. Laboratory Examinations during Pregnancy
32. Specificities of Laboratory Examination during Childhood
33. Basics of Toxicology in Clinical Laboratory
34. Laboratory investigation of Ovarian and Testicular Disorders
35. Therapeutic Drug Monitoring
36. Trends in Laboratory Medicine (POCT, Automation, Consolidation, EBM, Omics)
37. Anticoagulant Therapy Monitoring
38. Clinical Nutrition and Metabolic Balance



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