

Laboratory Tests and Values

Course Description:

Many clients entering the health care delivery system undergo a variety of diagnostic and laboratory tests. With the need for shortened lengths of stay and improved client outcomes, therapists are being consulted earlier in the course of a patient's acute condition. At the same time, clients are living longer with medical conditions and are presenting with more co-morbidities. This course is designed to provide the Physical Therapist and Physical Therapist Assistant with an understanding of test values, their variations, their interpretations and their implications for therapists when establishing a plan of care.

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Course Objectives:

Course Participants will demonstrate and understanding of Laboratory Tests and Values as follows:

A. Laboratory Tests

1. Purpose
2. Limitations

B. Tests for Blood Composition, Production, and Function

1. Complete Blood Count
2. Red Blood Cell Function
3. White Blood Cell Function
4. White Blood Cell Differential
5. Sedimentation Rate
6. Hemostasis: Clotting Studies and Bleeding Time
7. Bone Marrow Aspiration

C. Serum Chemistries

1. Iron and Iron Binding
2. Ferritin
3. Vitamin B12 and Folate
4. Electrolytes
5. Blood Glucose Level
6. Renal Function Tests
7. Lipids
8. Serum Enzymes and Markers
9. Serum Hormones

D. Immunologic Tests

1. Rheumatoid Factor
2. Antinucleoprotein Antibodies
3. Human Leukocyte Antigen

E. Urinalysis

F. Microbiologic Studies

1. Gram Stain
2. Cultures

G. Special Tests and Procedures

1. Pulmonary Function Tests
2. Pulmonary Artery Pressures
3. Arterial Blood Gases

H. Fluid Analysis

1. Cerebrospinal Fluid Studies
2. Synovial Fluid Analysis
3. Pleural Fluid Analysis
4. Peritoneal Fluid Analysis

CEU Approvals:

For information on specific state approval of this course, refer to PT On-Line Courses "About State Approvals" page.