



Clinical Pathology

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Overview

Anatomic Pathology is the branch of medicine that focuses on the study of tissue samples to reach a diagnosis. Samples which are studied may include surgically removed organs, biopsy specimens, bodily fluids, and in some cases the whole body (autopsy). Pathology plays a crucial role in forensic investigations by providing expert assessment of the cause and manner of death.

In this course, the student will be introduced to the most important conditions that affect every organ system in the human body, providing an in-depth look at the pathophysiology and progression of disease. These in-depth lectures include how the cell adapts to injury, necrosis (death of living cells or tissues), inflammation, wound healing, and neoplasia (abnormal new growth of cells). Genetic studies and gene markers used in the assessment of various diseases are discussed.

Pathology and Laboratory Medicine form the basis of modern scientific medical knowledge. To adequately diagnose and manage a particular illness, a competent physician must have a good understanding of the pathophysiology of the disease as well as the best laboratory tests needed for its diagnosis and management. This course helps fulfill that requirement.

For optimal comprehension, the student should be familiar with the concepts of human anatomy and physiology.

Cellular Pathology

- Cellular Housekeeping Functions
- Cellular Injury
- Acute and Chronic Inflammation
- Hemostasis
- Atherosclerosis
- Immune-mediated Diseases
- Host–pathogen Interaction
- Neoplasia
- Tumor-host Interactions
- Cancer Morbidity and Mortality
- Surgical Pathology of Tumors

Optic Pathology

- Introduction to Ophthalmology
- External Eye Diseases
- Diseases of the Anterior Chamber and Uvea
- Posterior Segment Eye Diseases
- Trauma and Neoplasms of the Eye

Cardiovascular Pathology

- Structure-Function Relationships in the Cardiovascular System
- Hypertension
- Aortic Disease
- Vasculitis
- Vein and Lymphatic Pathology
- Heart Failure
- Ischemic Heart Disease

- Arrhythmia
- Valvular and Hypertensive Heart Disease
- Cardiomyopathy
- Myocarditis and Pericarditis
- Heart Sounds

Mood Disorders

- Depression: Definition and Pathogenesis
- Depression: Diagnosis and Symptoms
- Depression: Types
- Depression: Screening and Treatment
- Antidepressants
- Major Depression: Treatment
- Bipolar Disorder: Definition, Types and Diagnosis
- Bipolar Disorder: Causes, Assessment
- Bipolar Disorder: Diagnosis and Major Depression
- Bipolar Disorder: Treatment
- Mood Stabilizers

Respiratory Pathology

- Introduction to Pulmonary Pathology
- Pulmonary Diagnostics
- Respiratory Failures
- Obstructive Lung Disease
- Restrictive Lung Disease
- Occupational Lung Diseases
- Disorders of the Pulmonary Circulation and the Respiratory Regulation
- Lung Cancer
- Pulmonary Critical Care

Renal Pathology

- Introduction to Renal Pathology
- Tubulointerstitial Diseases
- Glomerulonephritis
- Cystic Diseases (Renal Cystic Pathology)
- Renal Clinical Anatomy
- Urinalysis
- (Nephrogenic) Diabetes Insipidus (DI)
- SIADH
- Fluid and Electrolyte Balance
- Diseases of the Nephron
- Renal Diagnostics
- Nephrolithiasis

Gastrointestinal Pathology

- Congenital Gastrointestinal Tract Disorders
- Disorders of the Oral Cavity and Salivary Glands
- Disorders of the Esophagus
- Disorders of the Stomach
- Small and Large Intestines Disorders
- Disorders of the Hepatobiliary System
- Disorders of the Biliary Tract
- Disorders of the Pancreas

Endocrine Pathology

- Introduction to the Endocrine System
- Pituitary Gland Disorders
- Thyroid Gland Disorders

- Adrenal Gland Disorders
- Pancreatic Disease and Diabetes
- Parathyroid Gland Disorders
- Bone Disease

Reproductive Pathology

- Disorders of Vulva, Vagina and Cervix
- Sexually Transmitted Diseases (STDs)
- Uterine and Fallopian Tube Disease
- Ovarian Diseases
- Pregnancy Complications
- Breast Disease
- Male Reproductive System Diseases
- Reproductive Hormone Disorders

Hematology & Oncology — Pathology

- Introduction to Red Blood Cell Disorders
- Microcytic Anemia – Red Blood Cell Pathology (RBC)
- Macrocytic Anemia – Red Blood Cell Pathology (RBC)
- Normocytic Anemia – Red Blood Cell Pathology (RBC)
- Hemolytic Anemia – Red Blood Cell Pathology (RBC)
- Lymphadenopathy – White Blood Cell Pathology (WBC)
- Quantitative White Blood Cell Disorders – White Blood Cell Pathology (WBC)
- Leukemia – White Blood Cell Pathology (WBC)

Neuropathology

- Stroke (Cerebrovascular Accident)
- Cerebral Aneurysm (Intracranial Aneurysm)
- Increased Intracranial Pressure (ICP)
- Trauma
- Spinal Cord Pathology
- Headache – Pathophysiology
- Seizures
- CNS Infections - Clinical Neurology
- Multiple Sclerosis
- Dementia
- Mononeuropathy
- Polyneuropathy
- Tumors of the CNS
- Movement Disorders
- Altered Mental Status and Coma
- Vertigo and Dizziness
- Sleep
- Pediatric Neuropathology
- Other Diseases: Hydrocephalus, Neuromuscular Disease, Plexopathy, and Mononeuritis

Dermatopathology

- Inflammatory Skin Diseases
- Infectious Skin Diseases
- Other Skin Diseases
- Neoplastic Skin Diseases

Rheumatology - Pathology

- Introduction and Non-Autoimmune Arthritis
- Seronegative Spondylarthropathies
- Connective Tissue Diseases
- Vasculitis: Basic Principles with Carlo Raj
- Muscle and Soft Tissue: Pathology



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Faculty to learner ratio	✓ 1:10	✓ 1:50 or 1:75
Case based learning	✓ Yes	✗ No
AI supported learning	✓ Yes	✗ No
Live Interaction Sessions	✓ Yes	✗ No
Clinical Attachments	✓ Yes (Case to Case basis)	✓ Yes
Associated with Hospitals for Clinical Training	✓ Yes	✓ Yes
Books	✓ Yes (Printable Pdf copy)	✗ No
Complementary e-Learning Module & Certification	✓ Yes	✗ No
Learner Support	✓ Yes	✗ No
Community of Doctors for peer support (Mediversal Alumni only)	✓ Yes	✗ No
Alumni Support	✓ Yes	⚠ Only a few
e-Certification	✓ Yes	✓ Yes
Physical Certification	✓ Yes	⚠ Only a few
Lifetime certificate validity	✓ Yes	✓ Yes
Digital Marketing and Business Support for your hospital/clinic	✓ Yes	✗ No
Admission process	✓ Smooth, Transparent & all details provided	⚠ Spamming through multiple channels.
Data and privacy protection	✓ Yes	✗ No
CME access	✓ Yes (Lifetime)	✗ No
Medico Legal Session	✓ Yes (Free. By renowned high court advocates)	✗ No
National Level Felicitation Award (for Mediversal Alumni)	✓ Yes	✗ No



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