

# *The Hebrew University of Jerusalem*

## *Syllabus*

### *Introduction to Medicine for Clinical Pharmacists - 64112*

*Last update 11-11-2018*

*HU Credits: 12*

*Degree/Cycle: 2nd degree (Master)*

*Responsible Department: Clinical Pharmacy*

*Academic year: 0*

*Semester: 1st Semester*

*Teaching Languages: Hebrew*

*Campus: Ein Karem*

*Course/Module Coordinator: Iddo Ben-Dov*

*Coordinator Email: [iddobe@ekmd.huji.ac.il](mailto:iddobe@ekmd.huji.ac.il)*

*Coordinator Office Hours: 16:00-18:00*

*Teaching Staff:*

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Course/Module description:

A 9 week course, during which clinical pharmacy students acquire basic knowledge of the main conditions in Internal Medicine discipline and pediatrics.

Course/Module aims:

The aim of the course is that clinical pharmacy students will acquire basic knowledge of the main conditions in Internal Medicine discipline and pediatrics; learn basic skills of history taking and physical examination; acquire basic ethical reasoning and professional behavior.

Learning outcomes - On successful completion of this module, students should be able to:

Student will demonstrate basic knowledge of basic knowledge the main conditions in Internal Medicine discipline and pediatrics; demonstrate skills of history taking and physical examination, apply basic ethical reasoning and professional behavior, and demonstrate humanistic approach to patient care.

Attendance requirements(%):

80

Teaching arrangement and method of instruction: Small group teaching clinical seminars case discussions

Course/Module Content:

Cardinal Manifestations and Presentation of Diseases and differential diagnosis: Chest Discomfort Alterations in Body Temperature Fever and Hyperthermia Fever and Rash Fever of Unknown Origin Syncope Dizziness and Vertigo Confusion and Delirium Pharyngitis, Sinusitis, Otitis, and Other Upper Respiratory Tract Infections Respiratory Functions Dyspnea Cough and Hemoptysis Hypoxia and Cyanosis Edema Nausea, Vomiting, and Indigestion Diarrhea and Constipation Gastrointestinal Bleeding Jaundice Abdominal Swelling and Ascites Azotemia and Urinary Abnormalities Fluid and Electrolyte Disturbances (Sodium, Potassium, Calcium, Magnesium) Acidosis and Alkalosis Anemia and Polycythemia Bleeding and Thrombosis Enlargement of Lymph Nodes and Spleen Disorders of Granulocytes and Monocytes Evaluation and Management of Obesity Involuntary Weight Loss Principles of Clinical Pharmacology Ethical Issues in Clinical Medicine Hematology Disorders: Iron Deficiency and Other Hypoproliferative Anemias Disorders of Hemoglobin Megaloblastic Anemias Hemolytic Anemias and Anemia Due to Acute

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Blood Loss Aplastic Anemia, Myelodysplasia Bone Marrow Failure Syndromes Polycythemia Vera and Other Myeloproliferative Diseases Acute and Chronic Myeloid Leukemia Malignancies of Lymphoid Cells Plasma Cell Disorders Amyloidosis Transfusion Biology and Therapy Hematopoietic Cell Transplantation Hemostasis Disorders of Platelets and Vessel Wall Coagulation Disorders Arterial and Venous Thrombosis Antiplatelet, Anticoagulant, and Fibrinolytic Drugs Disorders of the Cardiovascular System: Epidemiology of Cardiovascular Disease Approach to the Patient With Cardiovascular Disease Physical Examination of the Cardiovascular System Electrocardiography Noninvasive Cardiac Imaging: Echocardiography, Nuclear Cardiology, and MRI/CT Imaging Diagnostic Cardiac Catheterization and Coronary Angiography Disorders of Rhythm Principles of Electrophysiology The Bradyarrhythmias The Tachyarrhythmias Heart Failure and Cor Pulmonale Cardiac Transplantation Congenital Heart Disease in the Adult Valvular Heart Disease Cardiomyopathy and Myocarditis Pericardial Disease Tumors and Trauma of the Heart Vascular Disease The Pathogenesis, Prevention, and Treatment of Atherosclerosis The Metabolic Syndrome Ischemic Heart Disease Unstable Angina and Non-ST-Segment Elevation Myocardial Infarction ST-Segment Elevation Myocardial Infarction Percutaneous Coronary Interventions Hypertensive Vascular Disease Diseases of the Aorta Vascular Diseases of the Extremities Pulmonary Hypertension Disorders of the Respiratory System: Approach to the Patient With Disease Disturbances of Respiratory Function Diagnostic Procedures in Respiratory Disease Asthma Hypersensitivity Pneumonitis and Pulmonary Infiltrates With Eosinophilia Occupational and Environmental Lung Disease Pneumonia Bronchiectasis and Lung Abscess Cystic Fibrosis Chronic Obstructive Pulmonary Disease Interstitial Lung Diseases Deep Venous Thrombosis and Pulmonary Thromboembolism Disorders of the Pleura and Mediastinum Disorders of Ventilation Sleep Apnea Lung Transplantation Disorders of the Kidney and Urinary Tract: Adaption of the Kidney to Renal Injury Acute Kidney Injury Chronic Kidney Disease Dialysis in the Treatment of Renal Failure Renal Transplantation Glomerular Diseases Polycystic Kidney Disease and Other Inherited Tubular Disorders Tubulointerstitial Diseases of the Kidney Vascular Injury to the Kidney Nephrolithiasis Urinary Tract Infections, Pyelonephritis, and Prostatitis Urinary Tract Obstruction Disorders of the Gastrointestinal System: Disorders of the Alimentary Tract Approach to the Patient With Gastrointestinal Disease Gastrointestinal Endoscopy Diseases of the Esophagus Peptic Ulcer Disease and Related Disorders Disorders of Absorption Inflammatory Bowel Disease Irritable Bowel Syndrome Diverticular Disease and Common Anorectal Disorders Mesenteric Vascular Insufficiency Acute Intestinal Obstruction Acute Appendicitis and Peritonitis Liver and Biliary Tract Disease Approach to the Patient With Liver Disease Evaluation of Liver Function The Hyperbilirubinemias Acute Viral Hepatitis Toxic and Drug-Induced Hepatitis Chronic Hepatitis Alcoholic Liver Disease Cirrhosis and Its Complications Genetic, Metabolic, and Infiltrative Diseases Affecting the Liver Liver Transplantation Diseases of the Gallbladder and Bile Ducts Disorders of the Pancreas Acute and Chronic Pancreatitis Disorders of the Joints and Adjacent Tissues: The Immune System in Health and Disease Primary Immune Deficiency Diseases Primary Immunodeficiencies Associated With (or Secondary to) Other

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*Diseases Allergies, Anaphylaxis Systemic Mastocytosis Autoimmunity and Autoimmune Diseases Systemic Lupus Erythematosus Antiphospholipid Antibody Syndrome Rheumatoid Arthritis Acute Rheumatic Fever Systemic Sclerosis (Scleroderma) Sjögren's Syndrome The Spondyloarthritides The Vasculitis Syndromes Behçet's Syndrome Relapsing Polychondritis Sarcoidosis Familial Mediterranean Fever Auto inflammatory diseases Approach to Articular and Musculoskeletal Disorders Osteoarthritis Gout and Pseudogout Infectious Arthritis Fibromyalgia Endocrinology and Metabolism: Disorders of the Anterior Pituitary and Hypothalamus Disorders of the Neurohypophysis Disorders of the Thyroid Gland Disorders of the Adrenal Cortex Pheochromocytoma Diabetes Mellitus Hypoglycemia Endocrine Tumors of the Gastrointestinal Tract and Pancreas Disorders Affecting Multiple Endocrine Systems Bone and Mineral Metabolism in Health and Disease Disorders of the Parathyroid Gland and Calcium Homeostasis Osteoporosis Paget's Disease Disorders of Lipoprotein Metabolism Hemochromatosis The Porphyrias Wilson's Disease Lysosomal Storage Diseases Glycogen Storage Diseases Heritable Disorders of Connective Tissue Polymyositis, Dermatomyositis Chronic Fatigue Syndrome*

*Pediatric medicine*

*Required Reading:*

*Harrison's principles of internal medicine  
Nelson (pediatrics)*

*Additional Reading Material:*

*Cecil essentials of medicine*

*Course/Module evaluation:*

*End of year written/oral examination 100 %*

*Presentation 0 %*

*Participation in Tutorials 0 %*

*Project work 0 %*

*Assignments 0 %*

*Reports 0 %*

*Research project 0 %*

*Quizzes 0 %*

*Other 0 %*

*Additional information:*