# The Hebrew University of Jerusalem

## Syllabus

# Introduction to pathology for dentistry students - 96224

Last update 21-04-2024

HU Credits: 3.5

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Medicine

Academic year: 0

Semester: 2nd Semester

Teaching Languages: Hebrew

Campus: Ein Karem

Course/Module Coordinator: Dr. Yakov Fellig

Coordinator Email: fellig@hadassah.org.il

Coordinator Office Hours:

*Teaching Staff:*
*Prof. Eli Pikarsky,*
*Dr. Yakov Fellig,*
*Dr. Tal Keidar,*
*Dr. Karen Meir,*
*Dr. Eliahu Golomb,*
*Dr. Tzahi Neuman*

*Course/Module description:*
*This course is presented in a frontal lecture format consisting of: introductory lectures into the general pathology of cellular injury/adaptation, inflammation and tissue repair, neoplasia, immune processes, amyloidosis, hemodynamic disorders, thrombosis and shock, genetic and metabolic diseases and diseases of infancy and childhood, infectious diseases and environmental injury.*
*A bibliography is provided for supplemental reading and histopathology atlas.*
*At the end of the course there is a test based on lectures, presentations, and required reading.*

*Course/Module aims:*
*1. To grant knowledge about cellular/tissue/organ morphological changes in reaction to stress/injury.*
*2. To understand pathological processes and their mechanism, including: inflammation; autoimmunity, neoplasia, etc.*
*3. To understand the relation between morphological and functional changes.*
*4. To understand the relation between morphological changes and clinical presentation as a bases for clinical and therapeutic medicine.*

*Learning outcomes - On successful completion of this module, students should be able to:*
*1. Recall pathological terminology*
*2. Outline cellular/tissue/organ adaptation to stress/injury, and associate them with clinical*
*presentation in various diseases.*
*3. Describe the pathological processes observed in inflammation, repair, hemodynamic disorders,*
*infectious diseases, autoimmune diseases and environmental injury*
*4. Recognize certain genetic and metabolic diseases*
*5. Classify neoplasms according to customary nomenclature, and recognize common moleculargenetic*

*alterations and risk factors underlying neoplasia.*

*Attendance requirements(%):*
*80% Minimum.*

*Teaching arrangement and method of instruction: Integration of frontal lectures, presentations and required reading in the course book.*

*Course/Module Content:*
- *Introduction*
- *Cellular Responses to Stress and Toxic Insults:Adaptation, Injury, and Death*
- *Inflammation and Repair*
- *Hemodynamic Disorders, Thromboembolic Disease, and Shock*
- *Genetic and metabolic disorders, and diseases of Infancy and Childhood*
- *Diseases of the Immune System, including amyloidosis*
- *Neoplasia: Morphological/molecular features (genotype-phenotype relation)*
- *Infectious Diseases*
- *Environmental and Nutritional Diseases, including radiation injury*

*Required Reading:*
*Kumar, Abbas, Aster. Robbins & Cotran Pathologic Basis of Disease, 10th Edition 2021*

*Additional Reading Material:*
*Kumar, Abbas, Aster. Robbins Basic Pathology, 10th Edition 2018*

*Klatt, Robbins and Cotran Atlas of Pathology, 4th Edition 2020*

*Grading Scheme:*
*Written / Oral / Practical Exam 100 %*

*Additional information:*
*Changes in teaching arrangement/method of instruction, teaching staff and/or course assessment may occur subject to staff considerations or unpredictable events.*
*The course, except for the issue of slide laboratory, is identical to course 96214,*

*including the lecturers list.*
*Subject to constraints the finalizing test may be in an online format.*