Course: Pathology

credits: 5

Course code	BOVH25PATHOLOGY
Name	Pathology
Study year	2025-2026
ECTS credits	5
Language	English
Coordinator	A. de Haan
Modes of delivery	Lecture Tutorial
Assessments	Pathology - Computer, organised by STAD examinations

Learning outcomes

- You recognize the structure and appearance of the four tissue types and apply this knowledge in identifying tissues in photographs of histological specimens.
- You use knowledge of reversible and irreversible cell damage and cell death to explain causes and symptoms of pathological conditions.
- You apply your knowledge of the origin, diagnosis, biological mechanism and epidemiology of tumors, leukemia and lymphomas to real-world clinical cases.
- You use your knowledge of immunity, acute and chronic inflammatory responses to describe inflammatory responses in anti-tumor immunity and primary and secondary wound healing.
- You apply your knowledge of anatomy and physiology of the cardiovascular and respiratory system, kidney, liver, intestine and endocrine pancreas in explaining occurred health effects in pathology of these (organ) systems.

Content

This module starts with basic pathology; it first looks at what cells and tissues of the four tissue types look like at the microscopic level and practices recognizing them in photographs of microscopic preparations. Then -stress-induced cell adaptations, reversible and irreversible cell damage, (mechanisms of) cell death and consequences for tissues are discussed. How tumors, leukemia and lymphomas arise and interact with the immune system is then discussed. The nomenclature and epidemiology of cancer are also covered. Finally, acute and chronic inflammatory processes and wound healing are covered.
In addition, examples of pathology of different organ systems are discussed in this module. Using various medical cases (“patients”), the anatomy and (dys)function of the cardiovascular system, respiratory system, liver, kidneys and endocrine pancreas are covered.
The content of the module is a mix of lectures and tutorials. In the tutorials, various formative group assignments are carried out, in which the knowledge from the lectures must be applied.

Included in programme(s)

LST Exchange minor Medical Biology
Minor Medical Biology

School(s)

Institute for Life Science & Technology

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