Course: Pathology

credits: 5

Course code	BOVH24MDPATH
Name	Pathology
Study year	2025-2026
ECTS credits	5
Language	Dutch, with parts in English
Coordinator	T.E. Vrenken

Modes of delivery	Lecture Teaching method 1 Teaching method 2 Tutorial
Assessments	Medische Immunologie - Computer, organised by STAD examinations Pathologie en Cytologie - Computer, organised by STAD examinations

Learning outcomes

You explain in detail how and where the cells and proteins of the innate and acquired immune system are formed and activated and describe their function in fighting infection and reason how changes in the immune system lead to disease.

You apply knowledge of the principles of the main immunological methods to solve simple diagnostic questions and make suggestions for appropriate diagnostics in immune system abnormalities.

You use knowledge of reversible and irreversible cell damage and cell death to explain causes and symptoms of pathological conditions by, among other things, working out a case study and presenting it to the class.

You apply your knowledge about the origin, diagnosis, biological mechanism and epidemiology of tumours to real-life issues.

You will recognise and describe normal (non-neoplastic) and abnormal cervical epithelial cells and you will type and classify cervical abnormalities according to current guidelines including follow-up advice.

Content

In this module, you will learn the basics of cytology, pathology and delve deeper into medical immunology. In Medical Immunology, you will delve into the development and function of the innate and acquired immune system. There is also a special focus on the inflammatory response, the complement system, the MHC system, various immunological laboratory techniques and how disturbances of the immune system can lead to disease. This sub-module consists of theory lessons, working lectures and bonus assignments to test your knowledge.

Pathology and Cytology focuses on the diseased cell, where you learn to recognise healthy and pathological cells and tissues. You will study mechanisms of reversible and irreversible cell damage and cell death and apply these to pathologies. During classes, you will learn about various aspects of tumours such as diagnostic methods, underlying molecular processes, possible causes and epidemiology. You will also work on a case study based on the teaching material and present it in class.

A special section is cervix pathology. You will delve into cytology with knowledge images and backgrounds of the cervical mucosa You will learn to recognise normal cervical cell images and name various non-neoplastic and iaotrogenic cell changes. You will also study (pre-)neoplastic cervical cell images. You will learn the pathogenesis of cervical carcinoma and learn to characterise different cervical carcinomas.

Included in programme(s)

Major Medical Diagnostics

School(s)

Institute for Life Science & Technology

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