Course Specifications
Valid as from the academic year 2019-2020

Due to Covid 19, the education and evaluation methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

Course

Vaccinology (D001246)

Valid as from the academic year 2019-2020

Course size (nominal values; actual values may depend on programme)

<table>
<thead>
<tr>
<th>Credits</th>
<th>Study time</th>
<th>Contact hrs</th>
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<tbody>
<tr>
<td>3.0</td>
<td>90 h</td>
<td>20.0 h</td>
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Course offerings and teaching methods in academic year 2020-2021

A (semester 1) Dutch Gent lecture 20.0 h

B (semester 2)

Lecturers in academic year 2020-2021

Leroux-Roels, Isabel GE32 lecturer-in-charge
SCHELSTRAETE, PETRA GE35 co-lecturer
Van Herck, Koen GE39 co-lecturer

Offered in the following programmes in 2020-2021 crdts offering

Master of Science in Nursing and Midwifery 3 A

Teaching languages
Dutch

Keywords
vaccine, vaccination, immune system, immune reaction, infection diseases, prevention, public health

Position of the course
The student gains insight in the mechanisms of action, the use, the safety and the public health aspects of vaccines and vaccination.

Contents
- Short history of vaccination and vaccines
- Immunological principles of vaccination
- Vaccination of infants, toddlers and adolescents against tetanus, diptheria, pertussis, Haemophilus influenzae, polio, hepatitis B, measles, mumps, rubella, varicella, rotavirus, meningococcus, pneumococcus, human papillomavirus (HPV)
- Vaccination of (older) adults against e.g. hepatitis A virus, influenza, pneumococcus, herpes zoster.
- Vaccine safety and clinical vaccine research
- Public health aspects of vaccination, vaccination policy in Belgium, health economic impact

Initial competences
none

Final competences
1 The student understands the immunological principles of vaccination.
2 The student knows the composition, mechanism of action, the use and the safety of the vaccines administered to infants, toddlers and adolescents.
3 The student knows the composition, mechanism of action, the use and the safety of the vaccines administered to (older) adults.
4 The student knows and understands the rationale of the vaccination scheme as recommended by the Belgian Superior Health Council.
5 The student knows how safety, efficacy and effectiveness of vaccines are evaluated.
6 The student understands the public health impact of vaccination.

Conditions for credit contract
Access to this course unit via a credit contract is determined after successful competences assessment

(Approved)
Conditions for exam contract
This course unit cannot be taken via an exam contract

Teaching methods
Guided self-study, lecture

Learning materials and price
slides (in powerpoint presentation) in hand-out format

References
- Epidemiology and prevention of vaccine-preventable diseases - The Pink Book - CDC 13th edition

Course content-related study coaching
The lecturer can be contacted during the lectures or via e-mail.

Evaluation methods

Examination methods in case of periodic evaluation during the first examination period
Written examination with open questions, written examination with multiple choice questions

Examination methods in case of periodic evaluation during the second examination period
Written examination with open questions, written examination with multiple choice questions

Examination methods in case of permanent evaluation

Possibilities of retake in case of permanent evaluation
not applicable

Calculation of the examination mark

(Approved)