HOPI2MC - **Introduction**

## Introduction

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**HOPI2MC -  Teaching profile**

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## Learning outcomes

The training is intended to equip students with the essential theoretical and practical knowledge and skills required for employment as a hospital pharmacist, as referred to in the Ministerial Decree of 22 October 2012 (Belgian Monitor of 03/12/2012) setting the criteria to be met in order to qualify for the position of hospital pharmacist. The areas of expertise are wide and varied, and this diversity is reflected in the training programme.

By way of example, the term "medications" is used in the broadest sense. Among other interpretations, the term "medications" refers to: proprietary medicine, compounding, common pharmaceutical products, antiseptics and disinfectants, registered health foods, implantable medical devices, products undergoing clinical trials and samples intended for use on hospitalised patients. The training also allows the acquisition of special and cross-disciplinary skills, which are essential.

On successful completion of this programme, each student is able to :

1 Assimilate knowledge in the areas defined by the Ministerial Decree and apply them to professional practice

1.a

The **theory training** covers five main areas (Ministerial decree of 20/12/2012).

1. Hospital organisation and management:

a) The hospital: Legislation and organisation of hospitals – Legislation of pharmacovigilance and materiovigilance - Management and quality of care

b) The hospital pharmacy: Legislation - General tasks - Specific tasks

2. Fighting and preventing infection:

a) Hospital hygiene; b) Microbiology; c) Sterilisation and disinfection; d) Antibiotherapy and antibioprophylaxy; e) Vaccines

3. Pharmacotherapy:

a) Physiopathology; b) Pharmacotherapy and pharmacokinetics; c) Clinical trials d) Clinical pharmacy

4. Hospital technology

a) Pharmaceutical preparations in hospitals; b) Enteral and parenteral food products c) Medical devices; d) Advanced therapy medications

5. Radiopharmacy

The **practical training** (work placements) covers the following modules (Ministerial decree of 20/12/2012):

Part 1

a) Organisation and management of hospital pharmacy; organisation and management of medication distribution, including command of the processes, management of medication quality and information

b) Clinical trials

Part 2:

a) Fighting infections, including hospital hygiene and central sterilisation

b) Management of antibiotherapy and antibioprophylaxy

c) Organisation and management of the medical device circuit, including the activities falling within the remit of the Medical Equipment

4 ensure that medications are dispensed carefully and thoroughly in the hospital

5 assimilate and apply the principles of sterile or non-sterile preparation in the hospital

6 provide pharmaceutical care

7 be solely responsible for maintaining permanent security

8 develop and execute a research project on the practice of hospital pharmacy using a scientific approach

8.a The research project will culminate in the presentation of a dissertation. This will take place in the 3rd year of training, in a specific field related to the skills of a hospital pharmacist.

9 work as part of a team and with professionals from other disciplines

9.a This interdisciplinary work is highlighted as part of a number of theoretical courses, where members of different professions teach courses together (e.g. a hospital pharmacist with a doctor responsible for quality; a nurse with a specialist doctor; a hospital clinical pharmacist with a specialist doctor). This interdisciplinary approach is also implemented and assessed within the framework of practical training. This objective is systematically included in the assessment forms for each work placement.

10 communicate appropriately, in writing and verbally, with patients and with other pharmacists and health professionals

11 operate in accordance with the ethical, legal and deontological framework of the profession

12 identify their own learning needs, set objectives and work to achieve them

| | | | | Year | | |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| ⦾ WHOPI2100 | Organisation et fonctionnement de la pharmacie en milieu hospitalier | Caroline Briquet<br>Olivia Dalleur (coord.)<br>Bénédicte Lambaux<br>Stefanie Quennery<br>Anne Spinewine | FR [q1] [30h] [4 Credits] 🌐 | x | | |
| ⦾ WFSP2252 | Hospital Organisation and Hospital Act | Benoît Hallet | FR [q1] [30h] [3 Credits] 🌐 | | x | |
| ⦾ WHOPI2104 | Management qualité et gestion des risques | Marc Bourgeois (coord.)<br>Véronique Deneys<br>Anna Hontis<br>Anne-Sophie Larock | FR [q2] [15h] [3 Credits] 🌐 | | x | |

| | | | | Year | | |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| **O** WHOPI2103 | Prosthesis, implants and biomedical equipments | Olivier Cornu (coord.) Maude Coyette Jean-Michel Evrard Pierre Goffette Valérie Hox Alexandra Kozyreff Guillaume Krings Laura Labriola Bénédicte Lambaux Marie Meunier Alain Poncelet Thomas Schubert Robert Tircoveanu | [q1] [30h] [4 Credits] 🌐 | x | | |
| **O** WRDTH3152 | Compléments de chimiothérapie et d'hormonothérapie antitumorales | Jean-François Baurain Frank Cornelis Lionel D'Hondt François Duhoux Rachel Galot Xavier Poire Marc Van den Eynde (coord.) Cedric Jacques van Marcke de Lummen Aline Wertz | [q1] [30h] [4 Credits] 🌐 | x | | |
| **O** WHOPI2111 | Contrôle qualité et assurance qualité de la fabrication et administration des préparations hospitalières | | | | | |

# The programme's courses and learning outcomes

For each UCLouvain training programme, a reference framework of learning outcomes specifies the the skills expected of every graduate on completion of the programme. Course unit descriptions specify targeted learning outcomes, as well as the unit's contribution to reference framework of learning outcomes.

| HOPI2MC -  **Information** |
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## Access Requirements

*In the event of the divergence between the different linguistic versions of the present conditions, the French version shall prevail.*

ci-dessous). La procédure de sélection des candidats pour l'obtention des mandats rémunérés et le calendrier de cette procédure sont cependant communs aux 3 Académies francophones qui organisent le master complémentaire en pharmacie hospitalière.

Etant donné que la loi n'autorise pas les titulaires d'un diplôme de pharmacien obtenu dans un pays hors union européenne à pratiquer sur le territoire belge, les titulaires d'un diplôme de pharmacien obtenu hors de  l'union européenne ne sont pas admissibles au master complémentaire mais pourront être orientés vers une inscription à un certificat en pharmacie hospitalière, moyennant accord de la commission d'admission sur le dossier du candidat. L'admission académique nécessite d'effectuer au préalable une

# Teaching method

Throughout the year, students take some courses taught by pharmacists and other health professionals (mainly doctors) and undertake placements under the supervision of an approved placement supervisor and in collaboration with hospital pharmacists and other professionals, such as specialist doctors in different fields, nurses etc.

The teaching methods are varied and include lectures as well as problem-based learning. The majority of the teachers are university staff with practical experience. There is special emphasis on creating a link between theory and practice.

The wide variety of placements which students undertake provide many different learning situations. By the end of the academic year, students will have had the opportunity to learn about all the aspects of a career as a hospital pharmacist.

# Evaluation

***The evaluation methods comply with the regulations concerning studies and exams. More detailed explanation of the modalities specific to each learning unit are available on their description sheets under the heading "Learning outcomes evaluation method".***

The students are evaluated in various ways:

- oral and/or written exams in relation to the theoretical training;

- presentation of course work (individual or group) in relation to both the theoretical and practical training; this work is evaluated by members of the teaching team and/or by the professionals working in the area in question; each piece of work is accompanied by a list of objectives, explanations of the methodology used and an evaluation grid;

- production of a placement report reflecting the different activities and work carried out within the framework of the work placements;

- detailed evaluations for each module of the practical training, based on a comprehensive list of the learning objectives; these evaluations are carried out in the following manner:

- A "formative" evaluation is conducted halfway through the work placement, by the student and the supervising pharmacist. This evaluation (and the self-assessment by the student) must clearly identify areas to be improved during the second part of the placement, as well as any aspects that were not addressed during the first half of the placement.

- A "summative" evaluation is conducted on completion of the work placement by the supervising pharmacist, validated by the placement supervisor and communicated to the student.

A complete list of the learning objectives for each placement is communicated to the students at the start of the academic year and is available on icampus.

To obtain the average, the marks obtained for the teaching units are weighted by their respective credits.

# Mobility and/or Internationalisation outlook

According to the terms of the ministerial decree, if it is included in an approved internship plan, part of the practical training can be carried out in an approved foreign establishment. In all cases, at least one year of practical training is followed in an approved internship service in Belgium.

The Faculty maintains an international network of partner hospitals to welcome UCLouvain specialist candidates. An agreement for the realization of internships exists with the University of Montreal and certain universities in France. We also work with other partner institutions, on a case-by-case basis, mainly in France and Switzerland.

# Contacts

## Curriculum Management

Faculty

Structure entity                                                     SSS/FASB

Commission(s) of programme

- Ecole de pharmacie (FARM)

Other academic Supervisor(s)

- Anne Spinewine
- Olivia Dalleur

Jury

- Président du jury d'examens: Anne Spinewine
- Secrétaire du jury d'examens: Olivia Dalleur

Useful Contact(s)

- Secrétaire et gestionnaire des admissions: Guillaume Arnould