

HOPi2MC

2015 - 2016

Advanced Master in Hospital Pharmacy

At Bruxelles Woluwe - 180 credits - 3 years - Day schedule - In frenchDissertation/Graduation Project : **YES** - Internship : **YES**Activities in English: **NO** - Activities in other languages : **NO**Activities on other sites : **NO**Main study domain : **Sciences biomédicales et pharmaceutiques**Organized by: **Faculté de pharmacie et des sciences biomédicales (FASB)**Programme code: **hopi2mc** - Francophone Certification Framework: 7**Table of contents**

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HOPi2MC - Introduction

Introduction

HOPI2MC - Teaching profile

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

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 Committee

Part 3:

- a) Clinical pharmacy and pharmaceutical care
- b) Activities falling within the remit of the Medico-Pharmaceutical Committee

Part 4:

Preparation and division activities, best preparation practices and quality assurance:

- a) Oncological preparations and high-risk products
- b) Other preparations, including pharmaceutical preparations and sterile preparations
- c) Radiopharmacy.

2. understand and apply the legislation and standards relating to the duties of a hospital pharmacist as defined by the Royal Decree of 4 March 1991 stipulating the standards which a hospital dispensary must satisfy in order to be approved (Belgian Monitor of 23 March 1991)

The duties of a hospital pharmacist fall into three categories: general duties, specific duties and administrative duties.

- The general duties include the dispensing, preparation, supply, preservation, analysis and quality control of medications

- There are four types of specific duty: (1) clinical activities, in direct contact with patients and members of healthcare teams (these activities include, among others, clinical pharmacy activities); (2) collaboration with the Medical Council, the Nursing Council and the Ethics Committee; (3) active participation on the Hospital Hygiene Committee, the Medico-Pharmaceutical Committee and the Medical Equipment and Implantable Medical Devices Committee; (4) Quality control of day-to-day central sterilisation

- The administrative duties relate to staff management, the preparation and monitoring of budgets, billing the Social Security Department and patients for medications.

3. manage, evaluate and improve the system for using medications in a hospital setting to ensure that it is effective, safe and efficient (medications in the broad meaning of the word, therefore including implantable medical devices and sterile equipment)

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

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

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6. provide pharmaceutical care

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7. be solely responsible for maintaining permanent security

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

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

The hospital pharmacist must continually work with other professionals (doctors, nurses, administrators, etc.). 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

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

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

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Programme structure

The course (including the placement) lasts one year on a full-time basis. The hospital pharmacy committee may agree to it being spread over two years, if students have professional responsibilities or if their personal situation justifies this: it is subject to the agreement of the President of the School of Pharmacy

The programme of classes and placements has recently been modified to give pharmacists better training in the basic principles of clinical pharmacy as well as the pharmacotherapy of the main pathologies encountered in the hospital environment.

[> Core courses](#) [en-prog-2015-hopi2mc-whopi200t.html]

HOPI2MC Detailed programme

Programme by subject

CORE COURSES [180.0]

○ Mandatory

△ Courses not taught during 2015-2016

⊕ Periodic courses taught during 2015-2016

⊗ Optional

⊖ Periodic courses not taught during 2015-2016

■ Activity with requisites

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Le programme présenté ici est le programme réformé à partir de 2013-2014 (passage à 3 ans). Les étudiants ayant débuté la formation en 2012-2013 doivent se référer au programme d'études 2012-2013.

Year

1 2 3

○ Formation théorique

○ Module A. Organisation et gestion hospitalière

○ WHOPI2100	Organisation et fonctionnement de la pharmacie en milieu hospitalier	Olivia Dalleur (coord.), Stefanie QUENNERY, Anne Spinewine, Dominique Marie WOUTERS	30h	4 Credits	1q	x			
○ WFSP2252	Organisation et législation hospitalière	Benoît Hallet	30h	3 Credits	1q		x		
○ WHOPI2104	Management qualité et gestion des risques	Gauthier Desuter (coord.), Véronique DUVEILLER	15h	2 Credits	2q		x		

○ Module B. Lutte contre les infections nosocomiales

○ WHOPI2106	Antibiothérapie et antibiophylaxie	Charline Artoisenet, Nathalie Ausselet (compensates Béeacute;nédicte Delaere), Caroline BRIQUET, Bénédicte Delaere, Gerald Glupczynski, Françoise Van Bambeke (coord.)	25h	3 Credits	2q	x			
○ WMED1264	Hygiène hospitalière	Anne Simon	15h	2 Credits	2q		x		
○ WHOPI2105	Stérilisation et désinfection	Guillaume HENRY	15h	2 Credits	2q		x		

o Module C. Pathologie et pharmacothérapie

○ WHOPI2101	Pharmacotherapy	Christophe Beauloye, Olivia Dalleur (coord.), Thierry De Ronde, Marianne Desmedt, Olivier Dewit, Patrick Durez, Véronique DUVEILLER, Patrick Evrard, Eric Goffin, Olivier Gurné, Denis Jacques, Michel Jadoul, Patrice Laloux, Anne-Sophie Larock, Bernard Le Polain de Waroux, Céline MICHEL, Marc Perreault, Barbara Sneyers, Anne Spinewine, Christian Swine, Sophie VANDERHEYDEN Aline WERTZ	50h+25h	7 Credits	2q	x			
○ WHOPI2109	Compléments de pharmacologie et pharmacothérapie : médicaments à usager hospitalier	Olivia Dalleur, Anne-Sophie Derouaux, Philippe Dubois, Philippe Hantson, Cédric Hermans, Stéphanie QUENNERY, Barbara Sneyers, Anne Spinewine (coord.)	30h	4 Credits	1q	x			
○ WHOPI2107	Méthodologie en pharmacie clinique	Olivia Dalleur (coord.), Céline MICHEL, Ariane MOUZON, Anne Spinewine	20h	3 Credits	1q		x		
○ WHOPI2108	Applications cliniques en pharmacocinétique et pharmacogénomique	Vincent Haufroid, Pierre Wallemacq (coord.)	25h+10h	4 Credits	1q		x		
○ WHOPI2110	Etudes cliniques, pharmacovigilance et risques médicamenteux	Jean-Michel Dogné (coord.), Bruno Flamion, Séverine HALLEUX	25h+5h	4 Credits	2q		x		

o Module D. Technologie hospitalière

○ WHOPI2103	Prosthesis, implants and biomedical equipments	Philippe Baele, Olivier Cornu, Denis Dufrane, Pierre Goffette, Luc-Marie Jacquet (coord.), Michel Jadoul, Reinier- Jacques Opsomer, José Geraldo Ribeiro Vaz, Jean Rubay, Dominique Marie WOUTERS	30h	4 Credits	1q	x			
○ WRDTH3152	Compléments de chimiothérapie et d'hormonothérapie antitumorales	Yves Humblet, Aline WERTZ	30h	4 Credits	1q	x			
○ WHOPI2111	Contrôle qualité et assurance qualité de la fabrication et administration des préparations hospitalières	Patricia GILLET, Jean-Daniel HECQ (coord.), Gisèle LECLERCQ, Céline MICHEL, Catherine PIRLOT, Véronique Préat, Aline WERTZ, Dominique Marie WOUTERS	20h	3 Credits	1q	x			
○ WSBIM2238N	Nutrition spécialisée (partim nutrition parentérale et entérale artificielle chez l'enfant et chez l'adulte)	N.	15h	2 Credits	2q		x		

Year

1 2 3

o Module E. Radiopharmacie

○ WMNUC2100	Master and complementary master	François-Xavier Hanin, Thierry Vander Borgh (coord.)	15h	2 Credits	1q		x	
○ WRFAR2100T	Radiochimie, radiotoxicologie et radiopharmacie (théorie)	N.	22.5h	3 Credits	1q		x	

o Cours au choix

L'étudiant de 3e année choisit un ou des cours au choix en lien avec le stage et le mémoire pour une valeur de 3 crédits minimum. Ce choix à faire dans le portefeuille de cours UCL ou dans une autre institution est à valider par les responsables du programme.

o Accompagnement du stage et du mémoire

○ WHOPI2323	Séminaire d'accompagnement du stage et du mémoire	Olivia Dalleur (coord.), Barbara Reutemann (compensates Olivia Dalleur), Anne Spinewine	15h+45h	6 Credits				x
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o Formation pratique

○ WHOPI2120	Stage 1re partie <i>Le stage se déroule au 1er et au 2e quadrimestres.</i>	Anne Spinewine		31 Credits			x	
○ WHOPI2220	Stage 2e partie <i>Le stage se déroule au 1er et au 2e quadrimestres.</i>	N.		33 Credits				x
○ WHOPI2320	Stage 3e partie <i>Le stage se déroule au 1er et au 2e quadrimestres.</i>	N.		22 Credits				x

o Mémoire

○ WHOPI2399	Mémoire	N.		29 Credits				x
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The programme's courses and learning outcomes

For each UCL training programme, a [reference framework of learning outcomes](#) specifies the competences expected of every graduate on completion of the programme. You can see the contribution of each teaching unit to the programme's reference framework of learning outcomes in the document "In which teaching units are the competences and learning outcomes in the programme's reference framework developed and mastered by the student?"

The document is available by clicking [this link](#) after being authenticated with UCL account.

HOPi2MC - Information

Admission

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

Decree of 7 November 2013 defining the landscape of higher education and the academic organization of studies.
The admission requirements must be met prior to enrolment in the University.

General requirements

Subject to the general requirements laid down by the academic authorities, admission to the specialized Master's degree programme will be granted to students who fulfil the entry requirements for studies leading to the award of a Master's (second-cycle) degree and who hold a second-cycle diploma, degree, certificate or other qualification issued within or outside the French Community of Belgium, or whose prior learning or experience has been accredited by the Examination Board as being equivalent to at least 300 credits.

Specific Admission Requirements

Pour pouvoir être admis au programme, le candidat doit

- posséder un diplôme belge ou européen de master en sciences pharmaceutiques,
- avoir réussi l'épreuve de sélection qui comprend une évaluation du parcours académique (50%), de la motivation (30%), et du parcours professionnel (stages et/ou expérience professionnelle, 20%). Le jury est composé d'un membre du comité de gestion, d'un académique membre de la Faculté, et de deux pharmaciens hospitaliers au sein de l'hôpital universitaire ou d'un hôpital non universitaire.

La commission d'admission se réserve le droit de limiter le nombre d'inscriptions en fonction des capacités des centres de formation pratique et du nombre de postes financés octroyés au niveau fédéral.

Toute demande doit être introduite au secrétariat de la Faculté de pharmacie et de sciences biomédicales avec dossier et curriculum complet au plus tard le 15 avril précédant l'année académique sollicitée. Le canevas de ce dossier est disponible sur le site de la Faculté.

Chaque candidat ne peut introduire une demande qu'auprès d'une seule Académie. Le programme n'est pas un programme inter-académies, mais cette disposition a été prise afin de garantir une équité entre candidats pour l'obtention d'un mandat rémunéré (voir 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 à partir de l'année académique 2015-2015 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 demande d'admission administrative au secrétariat des inscriptions exclusivement à l'aide du formulaire d'inscription intitulé "Demande d'admission pour diplômés étrangers".

Pour les candidats étrangers non-francophones (UE et hors UE), une maîtrise suffisante de la langue française est requise. Ils devront apporter la preuve, dans leur demande d'admission, d'une maîtrise suffisante de la langue française (niveau B1 du [Cadre européen](#)

[commun de référence](#) , pages 24 à 29).

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.

Mobility and/or Internationalisation outlook

As far as the teaching in clinical pharmacy is concerned, students have the opportunity to take advantage of the teaching by a Professor in clinical pharmacy from the University of Montreal, Quebec, Canada (Louise Mallet), as well as by Belgian clinical pharmacists with experience of clinical pharmacy abroad (England, United States and Canada). This is of special interest as, unlike Belgium, English-speaking countries have long experience of practising and teaching clinical pharmacy.

The programme is open to foreign pharmacists, both from Europe and beyond. Each year, several foreign pharmacists enrol for the Advanced Master: in the last few years, they have come from Greece, Spain, Cameroon, Romania, Lebanon, Benin and Mali.

Contacts

Curriculum Management

Entite de la structure FASB

Acronyme	FASB
Dénomination	Faculté de pharmacie et des sciences biomédicales
Adresse	Avenue Mounier 73 bte B1.73.02 1200 Woluwe-Saint-Lambert
Secteur	Secteur des sciences de la santé (SSS)
Faculté	Faculté de pharmacie et des sciences biomédicales (FASB)
Mandats	Joëlle Leclercq Doyen
Commissions de programme	Ecole de pharmacie (FARM) Ecole des sciences biomédicales (SBIM)

Academic Supervisor : [Anne Spinewine](#)

Jury:

Secrétaire de jury : [Anne Spinewine](#)

Président de jury : [Olivia Dalleur](#)

Usefull Contacts

Secrétariat : [Guillaume Arnould](#)

