BICL2MC - Introduction

Introduction

BICL2MC - Teaching profile

Learning outcomes

The specialist candidate assistant pharmacist (pharmacien assistant candidat spécialiste - PHACS) in clinical biology programme is spread over five years and prepares students for employment in a private or hospital biological analysis laboratory, with the emphasis on aspects of research in the field of clinical biology. This academic training is accompanied by the compulsory submission to the Ministry of Public Health of a 60-month work placement plan, in accordance with Belgian legal requirements, which confers entitlement to an authorisation to practise clinical biology in the field of medical chemistry, haematology and microbiology.

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

1 Laboratory management

1.a Understand and update pre-analytical, analytical and post-analytical processes.
1.b Anticipate long-term technical developments.
1.c Supervise technical staff (schedule management, training, recruitment, assessment, education fees, etc.).
1.d Coordinate tasks within a group of biologists.
1.e Ensure the preparation and monitoring of and compliance with the budget of a clinical biology laboratory.

2 Quality management

2.a Ensure the quality of the results of biomedical analyses.
2.b Develop and monitor compliance with quality assurance procedures.
2.c Ensure the traceability of services.
2.d Interpret the results of internal and external quality checks and improve the laboratory's performance.
2.e Be familiar with and understand the different standards for the validation of analytical methods.

3 Sense of responsibility

3.a Prevent, correct and manage cases of non-compliance and errors likely to occur during the analytical processes.
3.b Monitor the analytical protocols carefully and critically; be able to detect and respond effectively to any abnormal or pathological result.
3.c Integrate the various available medical data in order to validate the biological results produced by the laboratory.
3.d Take responsibility for decision-making

4 Communication

4.a Collaborate and communicate with other healthcare providers, particularly with the clinicians who are responsible for the patient.
4.b Manage internal and external disputes (complaints, claims, etc.) .
4.c Ensure the transmission of information within and outside the laboratory (new techniques, new analyses, etc.).
4.d Attend multidisciplinary clinical meetings.
4.e Read a scientific article from a critical perspective and understand the principles of evidence-based medicine

5 Ability to convey knowledge

5.a Write a scientific article (French/English).
5.b Present a scientific communication (French/English) in the field of clinical biology or another area of medicine .
5.c Provide training within or outside the laboratory.
5.d

Communicate as an expert-consultant with regard to other medical specialities

6 Ability to rapidly master a new area of expertise

6.a Apply their knowledge and skills in a new context .
6.b Familiarise themselves with and understand new technologies.

7 Mobility

7.a Be sufficiently independent to travel in Belgium and abroad.

Programme structure

The "basic training" (also called "common core") of this program includes 2 years. Each year is sanctioned by a test. Admission to the 2nd annual block requires the complete success of the 1st annual block.

The basic training of the specialist candidate in clinical biology is versatile: it includes theoretical and practical teaching supplemented by supervised internships in each of the three areas of clinical biology: medical chemistry (including hormonology, toxicology and monitoring therapy), microbiology (bacteriology, mycology, parasitology, virology) and hematology (including coagulation, hemostasis, cytology and blood banking). Applications of immunology in these three areas are also included.

Additional training in human biology as well as training in sampling techniques are included in these first two years.

The candidate specialist will be required to attend or participate in didactic and scientific activities, as indicated by the Commission.

During their studies, specialist candidates participate in the guards assigned to them.

During full-time internships in the three areas of clinical biology for a minimum of 6 months for each of them, theoretical and practical lessons are given simultaneously. Their distribution between the different blocks of the specialization is shown below.

In addition to the basic training, the candidate specialist continues with three years of training corresponding to the "higher education" provided for in the appendix to the Royal Decree of 3-9-84. All internships must be carried out with internship supervisors approved for this purpose by the Ministry of Public Health, and in approved internship services.

The higher education is dedicated to:

either for three years in one of the three areas of clinical biology;

or for three years in addition to two or three areas of clinical biology, the higher education in each of these branches not being able to be less than one year.

BICL2MC Programme

Detailed programme by subject

CORE COURSES

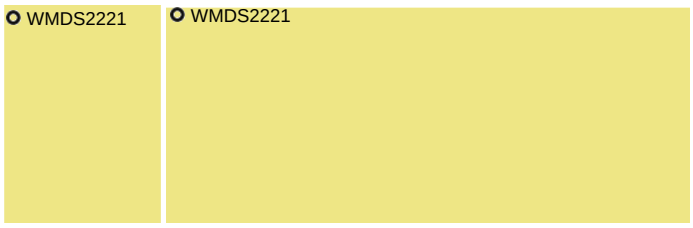
Le Master complémentaire en biologie clinique est un programme en 5 ans. Nous rencontrons actuellement un problème pour l'affichage ci-dessous de la cinquième année (cinquième colonne).

- Mandatory
- Optional
- Not offered in 2023-2024
- Not offered in 2023-2024 but offered the following year
- Offered in 2023-2024 but not the following year
- Not offered in 2023-2024 or the following year
- Activity with requisites
- Open to incoming exchange students
- Not open to incoming exchange students
- [FR] Teaching language (FR, EN, ES, NL, DE, ...)

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

Year

Year
1 2 3 4 5



The programme's courses and learning outcomes

BICL2MC - Information

Access Requirements

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.

Unless explicitly mentioned, the bachelor's, master's and licentiate degrees listed on this page are to be understood as those issued by

Evaluation

The evaluation methods comply with the regulations concerning studies and exams (https://uclouvain.be/fr/decouvrir/rgee.html). More detailed explanation of the modalities specific to each learning unit are available on their description sheets under the heading "Learning outcomes evaluation method".

Contacts

Curriculum Management

Faculty