

Medical School – Course catalog – 2023-2024

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DFGSM2

The DFGSM2 course comprises teaching units (core courses and compulsory free courses).

Notes taken by students in class and distributed are the sole responsibility of the students, and are not binding. Students are responsible for respecting copyright, and for obtaining the necessary authorizations from lecturers where applicable.

Training also includes :

- hospital internships (introduction to nursing care and semiology)
- simulation workshops dedicated to learning semiology on iLumens simulation platforms.

Supervised Teaching (ED=Enseignements Dirigés) is carried out by groups of students, which are set up by the school at the beginning of the semester. **Any change of group must be requested in advance and justified to the school, with presentation of supporting documents.** Students may not change their group at the time of the ED.

Proof of absence from a clinical placement, simulation workshop or ED must be received by the Registrar's Office within 48 hours of the absence to be taken into account.

SEMESTER 1

UE1 : Cellular, Biochemical and Genetic Bases of Disease (BCBGM)

ECTS : 7

Course duration : 48 hours of lectures (CM=Cours Magistraux) face-to-face, 6 hours of supervised teaching (ED=Enseignements Dirigés) face-to-face, 1 question and answer session (QR) (2 hours) face-to-face

Final exam: assessment at the end of semester 1, 1h30, single QI¹ and/or DP² test

The Cellular, Biochemical and Genetic Basis of Disease (BCBGM) course is designed to teach you the essential concepts of the disciplines of **cell biology**, **biochemistry** as well as **genetics**, in order to understand how cells, tissues and organs function. It's a multi-disciplinary, deliberately cross-disciplinary course, tackling the main principles of life, death and fate of the normal and pathological cell through emblematic examples of disease.

The aim is to provide a basic grounding in fundamental biology, crucial to understanding the increasingly molecular aspects of today's medicine.

Teaching methods

¹ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise) – long open-response question (QROL=question à réponse ouverte et longue))

² DP : Progressive files (DP=Dossiers Progressifs)

The teaching team is multidisciplinary, and teaching takes the form of 20-30 minute video sequences grouped into 6 major thematic cycles, accessible on the UE Moodle page.

Course content and key concepts are also summarized in the EU reference guide, available on Moodle.

The different cycles are as follows:

- Cycle 1: Introduction to biochemical, cellular and molecular basics
- Cycle 2: Metabolism: homeostasis and growth
- Cycle 3: Genetics and genomics
- Cycle 4: Central metabolism, proteins and cellular stress
- Cycle 5 : The cell and its environment
- Cycle 6 : Epigenetics, stem cells and differentiation

We strongly recommend that you have familiarized yourself with all the cycle's lessons before each interactive Q&A session with the teachers, so that you can make the most of it. A forum is available on Moodle to ask any useful questions beforehand.

The course is supplemented by 3 sessions of tutorials to review concepts in small groups and reflect on illustrative clinical cases.

The whole course is rounded off with a multidisciplinary review session and practice for the final assessment, in the form of clinical cases and Q/Rs.

QRM games and clinical case studies are available on the EU Moodle site.

UE2 : Cellular and Tissue Biopathology (Anatomopathology and Cell Biology) (BCT)

ECTS : 2

Course duration : 6,5 hours of lectures (CM=cours magistraux) face-to-face, 1 hour of question and answer test (QR)

Final exam : assessment at the end of semester 1, 30min, single Q³ and/or DP⁴ test

This course combines an introduction to pathological anatomy with cell biology. Its main aim is to introduce the pathologist to the main pathological phenomena, such as inflammation, fibrosis and tumor development, and to explain how they can be diagnosed. The aim is to identify the main lesions and lesion syndromes, so as to guide diagnosis. This course also serves as a basis for the specialized anatomical pathology courses taught in the various courses of the first cycle.

Commenté [u2]: DFGSM2 – Semestre 1

³ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise) – long open-response question (QROL=question à réponse ouverte et longue))

⁴ DP : Progressive files (DP=Dossiers Progressifs)

UE4 : Imaging

ECTS : 3

Course duration : 15 hours of lectures (CM=cours magistraux), 1 question and answer session (QR) (2 hours)

Final exam : assessment at the end of semester 1, 30min, single QI⁵ and/or DP⁶ test

Face-to-face teaching (no capsules or options). 15 hours of lectures divided into 6 seminars of 3 hours each, plus 1 question-and-answer session taking up 2 hours of the 6th seminar.

This module is a general introduction to the main medical imaging techniques used in clinical practice. Each technique will be presented from both a fundamental (principles of image formation, major physics concepts involved) and clinical standpoint.

The aim of this course is to familiarize students with these different modalities, so that they can grasp both their advantages and their major limitations. Radiological techniques (ultrasound, radiography, CT, MRI, angiography) and nuclear medicine techniques (scintigraphy, positron emission tomography) will be covered. Radiation protection and contrast agent injection issues will also be addressed. Finally, the notion of "image-guided therapy" will be presented. The teaching staff are physicists and physicians specialized in the production, handling and interpretation of medical imaging.

Commenté [U3]: DFGSM2 – Semestre 1

UES : Semiology

ECTS : 3

Course duration : lectures (CM=cours magistraux) in capsule form (approx. 6 hours), 4,5 hours of supervised teaching (ED=Enseignements Dirigés) and 6 hours of question and answer

Final exam : assessment at the end of semester 1, 1h15, x2 sub-tests of QI and/or DP (adult semiology, pediatric semiology)

4 seminars (1 on pediatric semiology and 3 on adult semiology), all delivered in the form of pre-recorded PANOPTO capsules. A 1H30 face-to-face Q&A session is organized for each seminar (for a total of 4 sessions of 1h30).

In addition, 3 ED sessions of 1h30 (one for pediatrics and two for adult semiology). Assessment of knowledge (half-semester): QI and/or DP lasting 1 hour 15 minutes, 2 sub-tests (adult and pediatric semiology).

This module is a general introduction to adult and pediatric semiology. Semiology is the science of clinical signs and syndromes, identifiable by questioning and physical examination, and is an indispensable element of medical practice.

Commenté [U4]: DFGSM2 – Semestre 1

⁵ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise) – long open-response question (QROL=question à réponse ouverte et longue))

⁶ DP : Progressive files (DP=Dossiers Progressifs)

The aim of this course is to familiarize students with patient questioning, clinical examination of the healthy subject, pediatric and elderly semiology, as well as pain semiology, quantitative semiology and radiological semiology in children and adults.

UE6 : Cardiovascular

ECTS : 3

Course duration : 30 hours of lectures (CM=cours magistraux) (x10 seminars of 3 hours each), 9 hours of supervised teaching (ED=Enseignements Dirigés)

Final exam : assessment at the end of semester 1, 1h30, x3 sub-tests of QI⁷ and/or DP⁸ (semiology, physiology pharmacology, anatomy radiology HAE)

This module, dedicated to the fundamentals of the cardiovascular system and its main pathologies, will provide all the knowledge needed to understand the "normal" and "pathological" functioning of the cardiovascular system. Teaching will take the form of seminars, providing an integrative, cross-disciplinary approach to cardiovascular physiology and pathology, covering the basics of anatomy, embryology, histology and physiology, as well as clinical and radiological semiology and pharmacology. The first part of the course is devoted to "normal" functioning, with seminars on cardiac structure, cardiovascular physiology and adaptation to exercise, blood pressure physiology and the basics of electrophysiology and the electrocardiogram (ECG), with a global view integrating the various sub-disciplines.

Understanding heart-vessel interaction at rest and during exercise is one of the concepts at the heart of the course. The second part of the course will focus on the main cardiovascular pathologies, such as arterial hypertension, coronary and vascular atherothrombosis, heart failure and valvular heart disease. In each seminar, the fundamental concepts needed to understand the mechanisms, the clinical, ECG and radiological signs, the main functional explorations and pharmacological principles will be taught. Last but not least, particular attention has been paid to the practical application of all these fundamental concepts. This module will provide the necessary and indispensable foundations for teaching cardiovascular pathology and therapeutic principles in the second cycle. The program is designed to be innovative and dynamic, with practical, hands-on application of pathophysiological mechanisms. We hope that this rich, interactive program will provide you with the quality teaching you need for your entire professional career, whatever your future specialty.

Commenté [U5]: DFGSM2 – Semestre 1

⁷ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise) – long open-response question (QROL=question à réponse ouverte et longue))

⁸ DP : Progressive files (DP=Dossiers Progressifs)

UE7 : Pneumology

ECTS : 3

Course duration : 21,75 hours of lectures (among which 2h15 in capsule form) and 12 hours of supervised teaching (ED=Enseignements Dirigés) (8 x 1,5 hours)

Final exam : assessment at the end of semester 1, 1h30, x3 sub-tests of QI and/or DP (semiology, physiology pharmacology, anatomy radiology HAE)

The aim is to provide a basic understanding of the anatomy, physiology, histology and radiology of the respiratory system. This knowledge of the normal respiratory system is complemented by general knowledge of the pathological respiratory system: the main anatomical and pathological changes observed, the clinical and radiological semiology of respiratory diseases and the pharmacological principles of their treatment. The knowledge acquired will enable the study of respiratory diseases and their treatment during the 2nd cycle of medical studies.

Commenté [u6]: DFGSM2 – Semestre 1

UE9 : General pharmacology

ECTS : 3

Course duration : 12 hours of lectures (CM), 4 hours of supervised teaching (ED=Enseignements Dirigés)

Final exam : assessment at the end of semester 1, 1h, single QI⁹ and/or DP¹⁰ test

Teaching is face-to-face, organized into 4 seminars of 3 hours each and 2 ED sessions of 2 hours each.

The aim of this course is to provide an understanding of the pharmacological targets of different physiological systems, in order to reason about the action of the main drug classes. This course will also cover the notions of variability in drug response (pharmacokinetics, safety related to drug use, special populations, pharmacogenetics, etc.), enabling you to acquire the pharmacological reasoning essential for safe and appropriate drug prescribing.

Commenté [U7]: DFGSM2 – Semestre 1

⁹ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise) – long open-response question (QROL=question à réponse ouverte et longue))

¹⁰ DP : Progressive files (DP=Dossiers Progressifs)

SEMESTER 2

UE3 : Hematology

ECTS : 3

Course duration: 11 hours of lectures (CM=cours magistraux), 10 hours of supervised teaching (ED=Enseignements Dirigés) (4 x 2h30)

Final exam: assessment in half-semester 2, 1 hour, single QI¹¹ and/or DP¹² test

Commenté [U8]: DFGSM2 - Semester 2

11 hours of face-to-face teaching (3 seminars of 3 hours, 1 of 2 hours), and 4 ED sessions of 2H30 each.

Hematology is taught through seminars and ED sessions. The aim of this course is to introduce you to the physiology of hematology, covering fundamental concepts such as hematopoiesis and its regulation, onco-hematology and hemostasis. A reference framework has been drawn up by the teachers of each course. The first part of the course covers hematopoiesis (myelopoiesis, lymphopoiesis and erythropoiesis), the main lines of etiological orientation in the event of an abnormal blood count and the physiology of the red blood cell, enabling you to grasp the concept and reasoning behind anemia, which will be reviewed during the first two EDs and of course later in your studies. The second part of the course covers models of deregulation of hematopoiesis, leading to the major nosological frameworks in onco-hematology (myeloid and lymphoid leukemias, lymphomas).

This second part is also the subject of an ED and borders on oncology, which you will see in the third year. The third part concerns another aspect of hematology: hemostasis. A seminar and an ED are also devoted to this subject, so that you can begin to understand the pathological situations of haemorrhage and, at its opposite extreme, thrombosis.

Understanding the function of blood cells is important for all medical disciplines, for example:

- thrombotic risks in cardiology, vascular medicine, obstetrics and surgery
- anemia in general practice
- hematological cancers and their treatment with hematopoietic stem cell transplants, ...

The knowledge acquired in this course will enable you to approach the study of hematological and hemostasis pathologies, as well as their treatment, with greater serenity in the 2nd cycle of medical studies.

¹¹ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise) – long open-response question (QROL=question à réponse ouverte et longue))

¹² DP : Progressive files (DP=Dossiers Progressifs)

UE8 : Medical psychology

ECTS : 2

Course duration: 12 hours of lectures (CM=cours magistraux)

Final exam: assessment in half-semester 2, 30min, single QI¹³ and/or DP¹⁴ test

Face-to-face, 4 seminars of 3 hours each.

The aim of this course is to provide a few essential notions for improving communication with patients and understanding the issues involved in this relationship.

In fact, the quality of the caregiver-patient relationship enables efficient information gathering and the establishment of an appropriate, fair and enlightened relationship between the two parties, which will influence the quality of care.

Commenté [U9]: DFGSM2 - Semester 2

UE15 : Environmental health and medicine

ECTS : 2

Course duration : 5,5 hours of capsules form

Final exam: assessment in half-semester 2, validation of capsule viewing on the dedicated platform before the end of the half-semester 2 assessments.

The aim of this EU course is to provide the foundations for a global and planetary approach to health, necessary for the prevention and understanding of the diseases you are and will be facing tomorrow.

Form and flow :

This is a national digital teaching module:

- Format: some twenty 15-20 minute video vignettes combined into 4 blocks
- Hours: approximately 6 hours, hosted on the UNESS (Université Numérique en Santé et Sport) national platform.

Format:

- Presentations by experts from different sectors in the form of commented power points
- Round-table discussions
- Appendices: interviews with experts by student pilots of the module
- Online tool with in-depth thematic appendices, discussion forum

Each video capsule leads to an online assessment (1 QRM) with progress badges at the end of each block.

→ At the end of the course, you will be issued with a certificate of achievement, which will serve as validation of the module.

Commenté [U10]: DFGSM2 - Semester 2

¹³ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise) – long open-response question (QROL=question à réponse ouverte et longue))

¹⁴ DP : Progressive files (DP=Dossiers Progressifs)

- At the beginning and end of the module, you will be asked to complete a questionnaire about your expectations and knowledge, which is not intended to evaluate you.
- A tutorial explaining how the module works will be available online in the introduction section.

Background and teaching objectives :

The complexity of the current environmental crisis requires a global understanding of the issues. By adopting a systemic and transdisciplinary vision, this digital teaching module is structured around several axes such as :

- Non-anthropocentric approaches to health, such as "One Health »
- Studying the link between human health and exceeding global limits (e.g. climate change)
- Individual and collective levers for action, including the key role of caregivers in raising awareness among the general population

Topics covered :

Approaches to health
History of human health
Planetary Health, from issues to practice
Integrated approaches to health
Evolutionary biology approach
Planetary limits and health
Geological perspectives, climate-environment-biodiversity relationships
Energy and climate change
Ecosystem health and functioning
Soil biodiversity and human health
Biodiversity and the causes of its collapse, evolution and epistemology
Pandemic outbreaks, loss of biodiversity, One Health
Water, climate extremes and health consequences
Energy dependence in the healthcare sector
Carbon impact of the healthcare system
Environment, health and society
Environmental philosophy
Relationship to progress and technology in science
Environment and health, causality, precautionary principle
Systems thinking, an analytical framework for coherent action
Levers for action
Round table: reducing the environmental impact of citizens - commitment

Round table: the professions of tomorrow
Round table: reducing the environmental impact of the healthcare system
Conclusion
Neurocognitive barriers to change in the face of environmental crisis

UE10 : Digestive

ECTS : 5

Course duration: 29 hours of lectures (CM=cours magistraux), 16,5 hours of supervised teaching (ED=Enseignement Dirigé)

Final exam: assessment at the end of semester 2, 1h30, x3 QI¹⁵ and/or DP¹⁶ sub-tests (semiology, physiology-pharmacology, anatomy-radiology HAE)

Face-to-face teaching.

The aim is to provide you with all the fundamental anatomical, physiological, histological and radiological knowledge of the digestive system. This teaching on the normal digestive system is complemented by general teaching on the pathological digestive system: the main anatomopathological changes observed, the clinical, endoscopic and radiological semiology of oesophageal, intestinal, hepatic and pancreatic diseases, and the pharmacological principles of their treatment.

The knowledge acquired will enable the study of digestive diseases and their treatment during the 2nd cycle of medical studies.

Commenté [U11]: DFGSM2 - Semester 2

UE11 : Endocrinology, diabetology, nutrition

ECTS : 4

Course duration : 43 hours of lectures (CM=cours magistraux), 4,5 hours of seminars

Final exam: assessment at the end of semester 2, 1h30, x3 QI and/or DP sub-tests (endocrinology, diabetology, nutrition).

The UE comprises 3 main areas whose courses aim to describe the fundamental mechanisms and semiology of pathologies whose mechanisms are largely dependent on each other. In this course, we will show you how fundamental physiological mechanisms are controlled by hormonal systems and complex metabolic loops. You will also learn about the richness of clinical and radiological semiology, as well as the importance of biology in the diagnosis of nutritional and endocrine diseases.

Commenté [U12]: DFGSM2 - Semester 2

¹⁵ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise) – long open-response question (QROL=question à réponse ouverte et longue))

¹⁶ DP : Progressive files (DP=Dossiers Progressifs)

Understanding this semiology requires an understanding of several fundamental mechanisms, some of which were taught in the 1st trimester of DFGSM2. Where necessary, we will provide the details needed to understand specific mechanisms.

After a general introductory course, teaching is organized in blocks. The 1st block focuses on nutrition. The fundamental mechanisms involved in controlling food intake and energy expenditure, and the semiology of associated diseases, will be described. Block 2 is devoted to diabetes. The fundamental mechanisms of glycemic control and the semiology of diabetes will be taught.

Finally, the 3rd block will address the fundamental mechanisms of hormone synthesis and the pathology of endocrine glands such as the thyroid, adrenal and gonadal endocrine functions, as well as the anterior and posterior pituitary glands.

A repository has been drawn up which includes all the information you need to know for DFGSM2, and consequently for the examination, and will be updated each year. We strongly advise you to attend the courses, which help you to better understand the sometimes complex fundamental concepts, as well as the semiology through the presentation of clinical cases.

Question-and-answer sessions will be organized. The final exam will be structured by blocks of questions on the three areas.

Forums can be opened on MOODLE. Like all of you, we're continuing to learn about digital tools. Together, we'll be learning how to master these new teaching techniques.

UE12 : Development, reproduction, gynecology

ECTS : 3

Course duration : 27 hours of lectures (CM=cours magistraux), 4,5 hours of supervised teaching (ED=Enseignement Dirigé) (3 x 1h30)

Final exam: assessment at the end of semester 2, 1h, x3 QI¹⁷ and/or DP¹⁸ sub-tests (anatomy-histology, physiology-pharmacology, semiology)

Face-to-face teaching, in 9 seminars of 3 hours each. These lectures will be supplemented by 3 supervised teaching (ED) of 1 hour 30 minutes each.

The UE is designed to showcase the normal functioning of the reproductive system, and normal development during pregnancy and up to birth.

It covers the anatomy and histology of the reproductive system, as well as the main physiological concepts needed to understand reproduction in the human species.

It then presents the semiological aspects of pregnancy and normal fetal development, as well as the stages of adaptation to extra-uterine life. A few notions of pharmacology are also covered.

¹⁷ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise) – long open-response question (QROL=question à réponse ouverte et longue))

¹⁸ DP : Progressive files (DP=Dossiers Progressifs)

Commenté [U13]: DFGSM2 - Semester 2

UE13 : Immunology

ECTS : 4

Course duration : 11 hours of lectures (CM=cours magistraux), 9 hours of supervised teaching (ED=Enseignement Dirigé) (4 x 1h30)

Final exam: assessment at the end of semester 2, 1h, test including QI¹⁹ and/or DP²⁰ final exam (60%) and continuous assessment (CC) in ED or problem-based learning (PBL) (40%)

Immunology is taught through lectures and ED sessions. A reference framework has been drawn up by the teachers of each course. They represent the knowledge we want you to have mastered by the end of the course, so that you can approach the final exam with confidence.

In addition, short video clips are posted on our teaching Moodle page to illustrate important points or points of particular difficulty in the course. Practice quizzes, corrected annals and games (crosswords, who wants to be a millionaire in Immunology) are available on our Moodle space to help you familiarize yourself with our discipline.

The first part of the course covers the fundamental concepts of immunology, providing a foundation of knowledge in the field. Mechanisms leading to the development of innate and adaptive immune responses are covered. This is followed by the teaching of situations in which immunity is called into play, such as viral and bacterial infections, as well as anti-tumor responses. Pathological situations such as immune deficiency, allergy and autoimmunity are also covered. The acquisition of this knowledge will enable you to understand immunomodulatory therapeutic strategies, from chemical substances to immunoglobulin or cell transfer immunotherapies.

The course concludes with a prestigious seminar on a topical theme.
The program is dense, so we strongly advise you to work regularly.

Commenté [U14]: DFGSM2 - Semester 2

UE14 : English

ECTS : 3

Course duration : 20 hours of supervised teaching (ED=Enseignement Dirigé) (10 x 2 hours)

Final exam: assessment at the end of semester 2, 1 hour, including oral (40%) and written (60%) test

Teaching is given in the form of a supervised teaching (ED, 10 sessions), and a patient interview session (giving rise to an oral mark).

Delivered in the form of interactive tutorials (TD=Travaux Dirigés), the medical English courses are structured around the major concepts studied at the start of your medical studies (medical questioning, Anglo-Saxon healthcare systems, basic anatomy and physiology in English, cardiovascular system, etc.) to provide a concrete foundation for your future practice. Based on a brochure and

Commenté [U15]: DFGSM2 - Semester 2

¹⁹ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise) – long open-response question (QROL=question à réponse ouverte et longue))

²⁰ DP : Progressive files (DP=Dossiers Progressifs)

Moodle resources, the courses are designed to encourage oral practice and exchanges between students.

Some essential grammatical points will be reviewed, but refresher courses will also be offered for students with more difficulties.

DFGSM3

Compulsory training consists of Teaching Units (UE) (teaching units (UE) from the core curriculum and compulsory free teaching units(UE)).

Notes taken in class by students and distributed are the sole responsibility of the students and are not binding. Students are responsible for respecting copyright, and for obtaining any necessary authorizations from teachers.

Mandatory training also includes :

- hospital trainings (medical-technical and immersion trainings)
- learning on iLumens simulation platforms (Atelier Relation Medecin Malade "Atelier 1^{er} contact" and "Atelier Jeux de Rôle", AFGSU, technical gestures: pleural puncture, ascites, articular, venous, arterial, lumbar; suture)

Tutorial classes are taught in student groups, which are formed by the school at the beginning of the semester. **Any change of group must be requested in advance from the school, with supporting documents. Students may not change their group at the time of the supervised teaching (ED=Enseignement Dirigé).**

All proof of absence from training courses, simulation workshops or supervised teaching (ED) must be received by the school no later than 48 hours after the absence in order to be taken into account (medical certificates, etc.).

SEMESTER 1

UE1 : Neuro-sensorial

ECTS : 3

Course duration : 20 hours of lectures (CM=cours magistraux), 2 hours of supervised teaching (ED=Enseignements Dirigés)

Final exam: assessment at the end of semester 1, 1h30 (45min "Ophthalmology", 45min "ORL"), x2 QI²¹ and/or DP²² sub-tests (ophthalmology, ORL)

Vision, hearing, balance, perception of taste and smell, phonation and swallowing: the aim is to give students a better understanding of how these major functions work, and to understand their semiology.

The 22-hour courses include lectures as well as more applied Q&A sessions and integrated clinical cases, plus 2 review webinars.

Commenté [U16]: DFGSM3 - Semester 1

²¹ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise) – long open-response question (QROL=question à réponse ouverte et longue))

²² DP : Progressive files (DP=Dossiers Progressifs)

UE2 : Skin covering

ECTS : 2

Course duration : 12 hours of lectures (CM=cours magistraux), 3 hours of supervised teaching (ED=Enseignements Dirigés)

Final exam: assessment at the end of semester 1, 1 hour, validation in a single block of QI²³ and/or DP²⁴

The skin is an organ that is easily accessible to clinical examination and simple paraclinical investigations (biopsy, microbiological or cytological sampling).

Observation of the skin covering, external mucous membranes and appendages must be part of every clinical examination.

Learning objectives :

- Understand the structure and main functions of the skin organ
- Knowledge of dermatological symptomatology, to be able to describe and recognize elementary lesions which may be primitive, reflecting the initial lesional process, or secondary, representing the evolution of this process. A dermatosis may consist of a single type of lesion, or a combination of several lesions
- Understand the mechanisms of appearance and evolution of skin lesions and the principles of their treatment, based on knowledge of anatomopathology, embryology, physiology, immunology and pharmacology
- Know the principles of dermatological examination: questioning, examination of the skin, mucous membranes and appendages
- Know how to perform and interpret the main complementary tests, including skin biopsies and infectious samples,
- Know the particularities of a topical treatment in terms of cutaneous absorption, benefits and risks.

Teaching consists of :

- Lectures (1h30) :
Course 1: Skin and appendages semiology
Course 2: Normal and pathological skin structure
- Seminar (1h30 class) :
Course 1: Junction system, microbiome
Course 2: Melanogenesis and skin ageing
Course 3: Cutaneous immune system
Course 4: Carcinogenesis
Course 5: Healing and burns
Course 6: Cutaneous pharmacology
- Supervised Teaching (ED=Enseignement Dirigé) (of 1h30) :

²³ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise) – long open-response question (QROL=question à réponse ouverte et longue))

²⁴ DP : Progressive files (DP=Dossiers Progressifs)

ED 1: 5 interactive clinical cases

ED 2: 5 interactive clinical cases

The referential is the document published by the Collège des Enseignants de Dermatologie.

UE3 : Oncology

ECTS : 3

Course duration : 20 hours of lectures (CM=cours magistraux)

Final exam: assessment at the end of semester 1, 1h30, validation in a single block of Q²⁵ and/or DP²⁶

The aim of the Oncology UE is to provide an introduction to oncology by exploring the diagnostic aspects of clinical semiology, the characterization of the disease in imaging, the characterization of the tumor from a histological and molecular point of view - aspects which strongly condition management today, right through to the evaluation of the extension of the disease.

The pedagogical objective is to teach cancer diagnosis strategy and illustrate the cancer patient's care pathway.

These aspects will be explored in greater depth at a later stage in the DFASM1 oncology course.

Teaching organization :

The teaching team is multi-disciplinary, and teaching is provided in the form of twenty-minute video sequences grouped by major theme, available on the EU Moodle page. Lectures (1h30) :

- Semiology, epidemiology and disease discovery through imaging
- Cancer pathology
- Impact of molecular oncology on diagnosis (prognosis, predisposition), therapy and follow-up
- Assessment of disease extension

The main chapters end with interactive sessions in the form of clinical cases and teacher/student questions/answers. Course content and expected notions are summarized in the UE reference guide, also available on Moodle. The entire course ends with a multi-disciplinary review session to practice for the final assessment. For those who wish, the course can be completed, even partially, by following the MOOC "Stratégies diagnostiques des cancers" on the FUN (France Université Numérique) platform.

Commenté [U18]: DFGSM3 - Semester 1

²⁵ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise) – long open-response question (QROL=question à réponse ouverte et longue))

²⁶ DP : Progressive files (DP=Dossiers Progressifs)

UE4 : Biomedical epidemiology LCA (Critical Reading of Articles)

ECTS : 4

Course duration : 12 hours of lectures (CM=cours magistraux), 6 hours of supervised teaching (ED=Enseignements Dirigés)

Final exam: assessment at the end of semester 1, 1 hour, validation in a single block of DP²⁷ and/or QI²⁸.

LCA=Lecture Critique d'Articles= Critical Reading of Articles

Today, medical practice is based on scientific data. A doctor must therefore be able to understand the scientific studies, and in particular clinical research studies, on which current medical knowledge is based.

The "Quantitative Epidemiology and Biomedicine for Critical Reading of Articles (LCA)" UE covers all the mathematical, statistical and methodological bases needed to tackle these subjects. It provides an introduction to the DFASM article-critical reading UEs and the LCA examination.

Teaching divided into four main themes, each with two lectures and a supervised teaching (ED).

Commenté [U19]: DFGSM3 - Semester 1

UES : English

ECTS : 3

Course duration : 20 hours of supervised teaching (ED=Enseignement Dirigé)

Final exam: assessment at the end of semester 1, 1h30, oral presentation of a clinical case (30min, 40%) and final exam (1 hour, 60%).

Medical English is taught as an extension of DFGSM2. The aim remains to consolidate linguistic and medical knowledge and broaden communication skills.

In terms of themes, teaching will follow the medical curriculum: Medical Ethics, Locomotor System, Nervous System and Neurology, Infectiology and Mental Health.

Skills include oral and written comprehension of medical documents, reading articles, clinical questioning (OSCE), presentation of a compulsory clinical case in class, and debates on medical and social issues.

British doctors will supplement the classroom courses, as well as giving lectures.

Commenté [U20]: DFGSM3 - Semester 1

²⁷ DP : Progressive files (DP=Dossiers Progressifs)

²⁸ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise) – long open-response question (QROL=question à réponse ouverte et longue))

UE6 : Medical genetics

ECTS : 2

Course duration : 6 hours of lectures (CM=cours magistraux), 4,5 hours of supervised teaching (ED=Enseignement Dirigé)

Final exam: assessment at the end of semester 1, 1 hour, validation in a single block of QI²⁹ and/or DP³⁰

Genomic medicine is playing an increasingly important role in the diagnosis and management of patients and their relatives, whatever the disease area concerned.

The main objectives of this course are to provide future general practitioners and specialists with the concepts and tools they will need in their day-to-day practice.

Teaching organization :

The 8 lectures focus on emblematic Mendelian, chromosomal or polygenic diseases, which have been chosen to illustrate the basics of these conditions, with well-defined teaching objectives for each, such as:

- Know the different modes of Mendelian heredity
- Heritability scoring in a disease with a genetic component
- The main genetic tests, their indications, and their ethical and legal framework
- Psychological and social care for patients with genetic diseases, and the differences between constitutional and somatic genetic alterations
- The notion of mosaicism and its implications.

Three tutorials based on clinical case studies will complement the courses to give you practice in reasoning and the basics of a sound diagnostic approach.

Commenté [U21]: DFGSM3 - Semester 1

UE7 : Uro-Nephrology

ECTS : 4

Course duration : 31 hours of lectures (CM=cours magistraux), 9 hours of supervised teaching (ED=Enseignement Dirigé)

Final exam: assessment at the end of semester 1, 1h30, x3 DP or QI sub-tests (semiology, physio-pharmacology, HAE Anat Radio)

The aim of the "Kidney and urinary tract" course in the DFGSM is to provide undergraduates with basic knowledge of semiology, anatomy, physiology, pharmacology, histology, anatomopathology and embryology, with a syndromic, physiological and pathophysiological approach. This course is intended as a preparation for the nephro-urological module of the DFASM, which deals with etiological and therapeutic aspects. Aspects of therapeutic management are not covered in the DFGSM.

Commenté [U22]: DFGSM3 - Semester 1

²⁹ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise) – long open-response question (QROL=question à réponse ouverte et longue))

³⁰ DP : Progressive files (DP=Dossiers Progressifs)

Teaching organization :

Theoretical training is organized into 23 thematic face-to-face lectures, supplemented by 6 tutorials, linked to the teaching of urological semiology, and five linked to the teaching of renal physiology. All lectures will be accompanied by a written reference document.

The only purpose of the DEs is to explain and apply the theoretical knowledge presented in class, in the form of exercises or clinical cases, but they do not provide any additional pedagogical content. Students will benefit from dematerialized evaluation tests that will not be included in the final module grade, but will enable them to assess themselves. Physiology EDs will be supplemented by training tests on the Moodle platform, and other complementary training offers may be proposed for each discipline (revision, tests, etc.).

Course :**ANATOMY**

COURSES N°1 and 2 LOMBAL ROOM - SURRENALS - KIDNEYS - EXCRETIVE ROADS

HISTOLOGY EMBRYOLOGY

COURSE N°1 DEVELOPMENT OF THE URINARY SYSTEM

COURSE N°2 HISTOLOGY OF THE KIDNEYS AND URINARY TRACT

ANATOMOPATHOLOGY

COURSE N°1 ANATOMOPATHOLOGICAL LESIONS OF THE KIDNEYS

COURSE N°2 TUMORS OF THE KIDNEY, URINARY TRACT, PROSTATE AND TESTICLE

PHYSIOLOGY

COURSE N°1 GLOMERULAR FILTRATION

COURSE N°2 Na⁺ BALANCE

LESSON N°3 WATER BALANCE

LESSON N°4 HYDRO-ELECTROLYTIC DISORDERS

LESSON N°5 ACID-BASE BALANCE

COURSE N°6 POTASSIUM BALANCE

COURSE N°7 CALCIUM BALANCE

LESSON N°8 PHOSPHATE BALANCE

NEPHROLOGICAL SEMIOLOGY

COURSE N°1 HEMATURIA - PROTEINURIA NEPHROLOGICAL SYNDROMES

COURSE N°2 RENAL FAILURE AND CREATININE ELEVATION

UROLOGICAL SEMIOLOGY

COURSE N°1 PAIN - HEMATURIA - SCROTAL CONTENT ANOMALIES

LESSON N°2 DIAGNOSTIC ORIENTATION FOR VOIDING ABNORMALITIES

PHARMACOLOGY

COURSE N°1 DIURETICS

COURSE N°2 NEPHROTOXICITIS

RADIOLOGY

COURSES N°1 and 2 RADIOLOGIE DU REIN ET DES VOIES URINAIRES

UE8a : Neuropsychiatry S1 (Physio Pharmaco, HAE Anat Radio)

ECTS : 4

Course duration : 36,5 hours of lectures (CM=cours magistraux), 4 hours of supervised teaching (ED=Enseignement Dirigé)

Final exam: assessment at the end of semester 1, 2 hours, x2 DP³¹ or QI³² sub-tests (physio pharmaco, HAE Anat Radio)

This course provides all the knowledge needed to teach the neurological and psychiatric diseases taught in DFASM2.

Semiology is covered in UE8b during semester 2 of DFGSM3.

- Development and hysteriology of the central and peripheral nervous systems
- Anatomy and radio-anatomy of the central and peripheral nervous system
- Physiology of the nervous system
- Nervous system pharmacology (antiepileptics, antipsychotics, hypnotics, anxiolytics, drug dependence, etc.)

For more details and up-to-date informations on the teaching unit's curriculum, students need to connect on the Moodle.

Commenté [U23]: DFGSM3 - Semester 1

UE15 : Digital Health

ECTS : 2

Course duration : 12 hours

Final exam: assessment at the end of semester 1, 1h, validation in a single block of QI and/or DP

Course details :

- Health, market, programs
- Digital showcase, reference systems, services
- Artificial intelligence: technical framework
- Artificial intelligence: challenges and biases
- Legal framework and RGPD
- Cybersecurity: risks and types of attack
- Cybersecurity: practical examples
- Cybersecurity: preventive measures
- Cybersecurity: feedback on the cyberattack at Centre Hospitalier Sud Francilien

Commenté [u24]: DFGSM3 - Semester 1

³¹ DP : Progressive files (DP=Dossiers Progressifs)

³² QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise) – long open-response question (QROL=question à réponse ouverte et longue))

Medical-technical training

ECTS : 3

Course duration : x5 half-day sessions

Final exam: assessment at the end of semester 1, validated by compulsory attendance at sessions

Commenté [u25]: DFGSM3 - Semester 1

Objectives: "discovery and awareness" course

- 1 - Discover the discipline and the main tests performed
- 2 - Learn how to interpret some of these examinations, taking into account the conditions for correct interpretation and the quality criteria for the measurements taken (without going into the technical details of how the machines work).
- 3 - Analyze how these paraclinical examinations contribute to patient care.
- 4 - Gain a better understanding of the professions practiced in medical-technical departments, and the career paths that lead to them.

How to achieve the objectives:

- Supervision by AHU/MCU/PU-PH and/or PH (=teachers)
 - Laboratory visits
 - Clinico-biological simulation with practical work and interpretation of patient results
- Organization:

The medico-technical internship is organized on a rotational basis in facilities offering non-clinical disciplines (Microbiology - Biochemistry - Genetics - Immunology - Hematology - EFS - Pharmacy - Radiology - Nuclear Medicine - Functional Explorations - Hormonology - Reproductive Biology - Pathological Anatomy, etc.).

Students are divided into groups of 6-7. A questionnaire is used to make internship requests.

Training dates: from October 11, 2023 to December 6, 2023 (x8 mornings, 5 mornings per student, information by the hospital).

Assessment:

- Validation of the internship is based on attendance alone.
- At each session, the teacher responsible for the training sessions must sign and stamp the attendance sheet.
- A copy of the completed, signed and stamped logbook validation sheets must be forwarded to the Registrar's Office for validation in session 1 by December 2023 at the latest.
- Retake exams organized in June 2024

SEMESTER 2

UE8b : Neuropsychiatry S2 (Semiology)

ECTS : 2

Course duration : 16,5 hours

Final exam: assessment in half-semester 2, 1h20, x2 DP³³ or QI³⁴ sub-tests (neurological semiology, psychiatric semiology)

This course provides all the knowledge needed to teach the neurological and psychiatric diseases taught in DFASM2.

Physio Pharmaco and HAE Anat Radio is covered in UE8a during semester 1 of DFGSM3.

- Neurological semiology and the main syndromes (pyramidal, sensory, medullary, cerebellar), (e.g. peripheral neurogenic, extra-pyramidal, meningeal, dementia, cranial nerve symptomatology and intracranial hypertension and hypotension)
- Psychiatric symptomatology: normal examination, mood and emotion management system, the semiology of delusional syndromes, eating disorders and addiction

For more details and up-to-date informations on the teaching unit's curriculum, students need to connect on the Moodle.

Commenté [u26]: DFGSM3 - Semester 2

UE9 : Ethics and Humanities

ECTS : 4

Course duration : 20 hours of lectures (CM=cours magistraux)) with two voices (doctor and specialist in philosophy or human and social sciences).

Final exam : assessment in half-semester 2, 1 hour, validation in a single block (isolated QROL-type questions).

The teaching contributes to the acquisition of the following skills (main objectives):

1. Exercise reflection, questioning and critical thinking skills
2. Recognize a clinical, scientific, health or institutional situation that presents an ethical problem
3. Identify and define the ethical principles and values at stake (autonomy, vulnerability, beneficence, justice, distinction between care and treatment); know how to recognize, explain and question one's own values.
4. Understand and respect the point of view, needs and values of patients and those around them; know how to meet and support them; apply moral skills related to care: attention, responsibility, empathy, etc.; understand the psychological and social dimensions of illness and care situations; recognize stigmatization and discrimination in care.

Commenté [U27]: DFGSM3 - Semester 2

³³ DP : Progressive files (DP=Dossiers Progressifs)

³⁴ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise) – long open-response question (QROL=question à réponse ouverte et longue))

5. Understanding and mastering clinical reasoning and medical decision-making
6. Know how to collaborate interprofessionally, develop a shared decision, implement a coordinated, individualized care plan
7. To position oneself as a responsible player in the healthcare system as it evolves. medicine and society.

Program :

1. How to talk to patients
2. Medical error: ethical and legal considerations
3. Ethical issues related to chronic diseases
4. Ethical issues in palliative care
5. Ethical tensions in dementia
6. Prescription at the heart of medical interactions
7. The place of "technical" touch in 21st-century medicine
8. Ethical issues of health data sharing
9. The concept of autonomy in medicine
10. Justice and prioritization in healthcare

UE12 : Locomotor System

ECTS : 3

Cours duration : 20 hours of lectures (CM=cours magistraux), 4,5 hours of supervised teaching (ED=Enseignement Dirigé)

Final exam : assessment in half-semester 2, 1h30, x3 DP³⁵ and/or Q³⁶ sub-tests (radio-anatomical anatomy, semiology, histology, pharmacology)

The locomotor system is essential to human function and interaction with the environment. In this course, the acquisition of essential knowledge of anatomy and radiology will give you a thorough understanding of the fundamentals of locomotor semiology.

Physiology, histology and pharmacology of the musculoskeletal system will also be covered.

Teaching organization :

Classroom lectures will be supplemented by tutorials and a revision session.

Commenté [U28]: DFGSM3 - Semester 2

³⁵ DP : Progressive files (DP=Dossiers Progressifs)

³⁶ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise) – long open-response question (QROL=question à réponse ouverte et longue))

UE10 : Emergency - AFGSU

ECTS : 3

Course duration : 20 hours lectures (CM=cours magistraux), 4,5 hours of supervised teaching (ED=Enseignement Dirigé)

Final exam : assessment at the end of semester 2, 1 hour, situation scenarios, validation in a single block QI and/or DP, end-of-session certificate issued to students (CESU)³⁷

AFGSU=Attestation de Formation aux Gestes et Soins d'Urgence=Certificate of training in emergency gestures and care

Important: attendance mandatory (sign-in).

Fixed dates, students divided into groups:

- Group 1: January 10, 11, 12, 2024

- Group 2: March 20, 21, 22, 2024

- Group 3: April 24, 25, 26, 2024

Student teaching dates (CSG): June 10 to 14, 2024

The level 2 AFGSU certificate is awarded on completion of a training course enabling the learner to simply diagnose and perform non-invasive procedures to care for victims, while awaiting the arrival of professional help, whether inside or outside the hospital.

Since 2006, it has had to be obtained by healthcare professionals and students working in a medical facility. It was initially delivered by the emergency care teaching centers (CESU) affiliated to each departmental SAMU control center. The strong demand for training has led to this teaching option being extended to other structures, notably universities. For example, Université Paris Cité is now able to provide such training by delegation, although the training certificate must be co-signed by the departmental CESU, i.e. CESU75 for Université Paris Cité students.

At UPCité, this training is provided by the heads of the Emergency Medicine, Anesthesia-Resuscitation and Medical Resuscitation departments of the UFR de Médecine. It takes place over one day, with groups of 12 students per clinical supervisor. They work on recognition and first aid in the event of haemorrhage, airway obstruction (false routes) in adults and children, unconscious persons, cardiac arrest, burns and wounds.

In addition to this highly practical training, there is a series of theoretical courses covering the same topics for a total of around ten hours.

There is a final assessment of the day for each student to validate one or two gestures to be performed. However, this training is not at all sanctioning, as validation is based on these gestures and therefore on attendance at the teaching. It is therefore formative, not summative. It is compulsory for French students prior to the EDN.

UE11 : Infectious agents

ECTS : 4

Course duration : 11,5 hours of lectures (CM=cours magistraux), 13 hours of capsules, 20 hours of supervised teaching (ED=Enseignement Dirigé)

Commenté [U29]: DFGSM3 - Semester 2

Commenté [u30]: DFGSM3 - Semester 2

³⁷ CESU = Centres d'Enseignement de Soins d'Urgence = Emergency care teaching centers

Final exam : assessment at the end of semester 2, 2 hours, x3 QI³⁸ and/or DP³⁹ sub-tests (bacteriology-hygiene, virology, parasito-mycology)

The Infectious Agents course covers four disciplines: bacteriology, virology, myco-parasitology and hygiene. The main teaching objective is to acquire essential knowledge of the microorganisms that can be responsible for clinical infections.

In addition to the specificities of each of these disciplines, and in view of their evolution, teaching also includes a syndromic approach combining knowledge of bacteriology, myco-parasitology and virology.

Teaching organization :

This training is given in the form of lectures, interactive supervised teaching (ED) and capsules illustrating a Reference System.

UE13 : Physician-patient workshops

ECTS : 2

Course duration : 4,5 hours of supervised teaching (ED=Enseignement Dirigé)

Final exam : assessment at the end of semester 2, 4,5 hours, validated by attendance at simulation workshops in session 1

Please note that validation of this course is compulsory and exclusively face-to-face (no distance learning possible).

This UE concerns "simulations of the doctor-patient relationship", not to be confused with medical psychology (taught in DFGSM2).

The UE addresses the patient-centered relationship, between empathy and benevolence. The aim is to learn how to structure an interview and build a relationship.

Teaching organization :

Series of 3 simulation workshops (in Ilumens⁴⁰) of 1h30 each:

- 1st contact workshops (January 2024) with simple scenarios
- 2 x 1h30 role-playing workshops (in half a day, February 2024) with breaking bad news and managing aggressive behavior.

Commenté [u31]: DFGSM3 - Semester 2

³⁸ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise) – long open-response question (QROL=question à réponse ouverte et longue))

³⁹ DP : Progressive files (DP=Dossiers Progressifs)

⁴⁰ Ilumens : Département de simulation en santé, plus d'informations : <https://ilumens.fr/>

UE14 : Practical Anatomy and Pathological Cytology (PAPC)

ECTS : 2

Cours duration : x1 lecture (CM=cours magistraux) of 12,5 hours, x7 supervised teaching (ED=Enseignement Dirigé)

Final exam : assessment at the end of semester 2, 1 hour, validation in a single block QI⁴¹ and/or DP⁴²

PAPC=ACPP=Anatomie et Cytologie Pathologique Pratique

Important : due to its transversality with other DFGSM2 and DFGSM3 UEs, it may be difficult to match this UE with the program of other foreign universities!

Please note : the former UE14 "Module de synthèse TAPH" in the DFGSM3 2022-2023 program has been replaced by this UE. The only difference is that this UE no longer includes the x3 ED of anatomy!

Cross-disciplinary and complementary teaching of the "Cellular and Tissue Biopathology (BCT) Anatomopathology and Cell Biology" UE (UE2, S1, **DFGSM2**) + "Oncology" UE (UE3, S1, **DFGSM3**) !

The knowledge acquired in histology and pathological anatomy gives students a better understanding of the semiology of diseases already covered in other courses and which will be developed further in the 2nd cycle.

Organization of teaching :

Teaching is organized around anatomical and clinical cases, with instruction on virtual slides of healthy tissue (histology) and pathological tissue (anatomy and pathological cytology).

Supervised teachings (ED=Enseignement Dirigé) are mandatory:

- 1 supervised teaching (1h30) in histology
- 6 supervised teaching in anatomy and pathological cytology

Immersion training

ECTS : 4

Course duration : x2 half-time 8-week courses (i.e. x5 half-days per week, every morning from Monday to Friday)

Final exam : attendance at internships and signed internship logbook

General objective :

- consolidate questioning and physical examination
- write up medical observations
- summarize semiological problems

⁴¹ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise) – long open-response question (QROL=question à réponse ouverte et longue))

⁴² DP : Progressive files (DP=Dossiers Progressifs)

Commenté [u32]: DFGSM3 - Semester 2

Commenté [U33]: DFGSM3 - Semester 2

Commenté [u34]: DFGSM3 - Semester 2

Immersion training are pre-externship clinical placements, in the form of 2 internships of 8 weeks each morning (x5 half-days per week, hours = 9h-12h30):

- Immersion course 1: January 9 to February 23, 2024
- Immersion course 2: March 11 to May 3, 2024

Each course is different. Students work in groups of 2 to 4 with an assistant clinical director (ACD). The CCA will reread x1 observation per week per student.

Assessment :

- Compulsory attendance
- Grade for each internship by the CCA (investment +++, quality of observations, reasoning).
- A copy of the completed, signed and stamped logbook validation sheets must be sent to the Registrar's Office no later than the first day of the S2 exams for validation in session 1.

Choice of training :

- students receive an online questionnaire (Limesurvey) around November 15 where they can make their choice of hospitals (no services!)
 - at least one of the placements will be in choice 1 or choice 2
 - if surgery, pediatrics, anesthesia/intensive care in 1st elective → medicine in 2nd elective
- Students will then be informed of their placement allocation around December 15, 2023.
Please note: students must therefore be vigilant about the emails they receive!

Teaching material available:

- teaching guidelines available on Moodle
- clinical placement notebook (DFGSM2, DFGSM3) with objectives
- semiology lessons in each module
- online semiology videos
- encouragement to take ultrasound training during internships. Follow up your radiology patients!

DFASM1

Organization of theoretical training

Theoretical training in DFASM1 comprises 3 types of teaching:

- Teaching Units (UE) grouped into 3 trimester-based « Poles »
- Annualized Out of Pole UEs
- One compulsory free UE (compulsory in-depth module (MOA), free UE, commitment UE)

The poles return every term.

International students are allowed to select the subjects of their choice from any pole to complete their Learning Agreement. There is no obligation to select an entire pole.

For French students: at the start of the year, each student is assigned to a course corresponding to one pole per term, and must also enroll in one compulsory free UE per year.

Examinations: faculty examinations comprise two sessions. The first session is divided into three terms. **Each student is assessed in the department in which he or she is enrolled for the corresponding term.**

Organization of practical training

For international students: practical training (clinical placement) during their study stay is compulsory and must be included in the Learning Agreement. Students can choose from a list of internships provided by the International Relations Office. Students are free to choose an internship that is not related to a subject they are studying.

For French students: practical training (clinical placement) is carried out according to an itinerary that enables students to be assigned to training sites corresponding to one of the disciplines taught in the training center to which they are assigned. It may include sessions on simulation platforms.

Organization of the **DFASM1** « pôles » with rotation by trimester:

POLE 1	
Quarterly UE	ECTS
UE Cardiology	2
UE Pneumology	2
UE Nephrology, Urology	2
UE Infectious diseases	2
LCA pole	

POLE 2	
Quarterly UE	ECTS
UE Endocrinology-Nutrition	2
UE Hepato-Gastro-Enterology	2
UE Oncology	2
UE Hematology	2
LCA pole	

POLE 3	
Quarterly UE	ECTS
UE Dermatology	2
UE Geriatrics	2
UE Musculoskeletal system	2
UE Disability	2
LCA pole	

OUT OF POLE (« HORS PÔLE ») - DFASM1	
Annualized UE	ECTS
UE LCA transversal	4
UE Forensic Medicine	3
UE Society/Humanities	3
EU Deontology	3
UE Digital Health	1
UE Imaging/Radiology	1

POLE 1

POLE 1	
Quarterly UE	ECTS
UE Cardiology	2
UE Pneumology	2
UE Nephrology, Urology	2
UE Infectious diseases	2
LCA pole	

Pole 1 : UE Cardiology

ECTS : 2

Course duration : x7 interactive seminars (20 hours) + x1 e-learning session

Final exam : 30-question sub-test, including at least 10 A-rank questions, QI⁴³ and/or DP⁴⁴ type of 2 or 8 questions.

Commenté [U35]: DFASM1

This course meets all the cardiology objectives for the DFASM.

Objectives :

- Review of the main semiological and physiological concepts useful in understanding and managing cardiovascular disease.
- Basics and practical application of ECG interpretation
- Basics of the main cardiovascular explorations (during a joint seminar with radiology)
- Basics and prescription of anti-thrombotic treatments
- Mastery of the main cardiovascular pathologies
- Risk factors, dyslipidemia, cardiovascular prevention
- Hypertension in adults
- Acute and chronic coronary syndromes
- Atrial fibrillation and other arrhythmias
- Conductive disorders
- Heart failure
- Valvulopathies
- Endocarditis (in common with EU Infectious Diseases)
- Pericarditis
- Aortic aneurysm, obliterative arteriopathy

⁴³ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise))

⁴⁴ DP : Progressive files (DP=Dossiers Progressifs)

Pole 1 : UE Pneumology

ECTS : 2

Cours duration : interactive seminars (24 hours) and video capsules (18 capsules for 6 hours)

Final exam : 30-question sub-test, including at least 10 A-rank questions, QI⁴⁵ and/or DP⁴⁶ type of 2 or 8 questions.

This course meets all the pneumology objectives for the DFASM.

Objectives :

- Review of the main concepts of semiology and physiology useful in understanding and managing respiratory diseases.
- Basics and practical application of thoracic imaging interpretation
- Basics and practical application of respiratory function test interpretation
- Mastery of the main respiratory pathologies
- Chronic respiratory insufficiency
- Bronchial diseases: asthma, COPD, bronchial dilatations
- Allergies
- Interstitial diseases, respiratory disorders in sarcoidosis and connectivitis
- Sleep-disordered breathing
- Thoracic oncology
- Pleura: pneumothorax, pleurisy
- Thromboembolic venous disease
- Infectiology: lower respiratory infections, tuberculosis
- Smoking
- Professional aspects

Commenté [U36]: DFASM1

Pole 1 : UE Nephrology-Urology

ECTS : 2

Final exam : sub-test of 30 questions, at least 10 of which are grade A, QI and/or DP type of 2 or 8 questions.

This course provides all the knowledge needed to teach Urology and Nephrology.

Objectives :

- Management of the main hydroelectrolytic disorders (natremia, kalemia, acid/base)
- Management of acute renal failure and chronic kidney disease
- Chronic interstitial nephropathy and polycystic kidney disease
- Main glomerular nephropathies and nephrotic syndromes
- Medical and surgical aspects of urinary lithiasis

⁴⁵ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise))

⁴⁶ DP : Progressive files (DP=Dossiers Progressifs)

- Erectile dysfunction and fertility, andrology
- Kidney and urinary tract tumors
- Disorders of pelvic statics, urinary disorders and incontinence
- Genito-scrotal pathology
- Kidney transplantation

Pole 1 : UE Infectious diseases

ECTS : 2

Final exam: 30-question sub-test, including at least 10 A-rank questions, Q⁴⁷ and/or DP⁴⁸ type of 2 or 8 questions.

The aim of this course is to give DFASM1 students the keys to reasoning in the field of infectious diseases, through clinical, microbiological, radiological and therapeutic knowledge and skills. A cross-disciplinary field by its very nature, the teaching of Infectious Diseases has been developed in conjunction with the 1st cycle (Microbiology, Hospital Hygiene, Pharmacology) and with other related 2nd cycle disciplines (Pneumology, ORL, Urology, etc.).

The major challenge of this teaching is that all doctors will be confronted with infectious diseases in their future practice, whatever their professional orientation.

Objectives :

- Prioritize a diagnostic approach (clinical, biological, radiological) for a febrile patient, depending on the patient's condition and comorbidities.
- Assess the severity and urgency of a suspected infection
- Know the main bacterial, viral, parasitic and fungal pathogens affecting humans
- Understand and apply the main microbiological diagnostic tools
- Know and apply the therapeutic principles of the most serious and frequent infectious diseases

Commenté [U38]: DFASM1

⁴⁷ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise))

⁴⁸ DP : Progressive files (DP=Dossiers Progressifs)

POLE 2

POLE 2	
Quarterly UE	ECTS
UE Endocrinology-Nutrition	2
UE Hepato-Gastro-Enterology	2
UE Oncology	2
UE Hematology	2
LCA pole	

Pole 2 : UE Endocrinology-Nutrition

ECTS : 2

Final exam: 30-question sub-test, including at least 10 A-rank questions, QI⁴⁹ and/or DP⁵⁰ type of 2 or 8 questions.

This course covers the knowledge required in Endocrinology, Diabetology and Nutrition as part of the knowledge required at the end of the 2nd cycle (rank A and B knowledge).

Objectives :

- Pathophysiology and definitions of the main types of diabetes
- Acute and chronic complications of diabetes and principles of management
- Principles of type 1 and type 2 diabetes management and pharmacological classes
- Physiopathology and principles of management of obesity and its complications
- Screening and management principles for undernutrition
- Nutritional requirements in various physiological situations (sport, pregnancy, the elderly)
- Principles of functioning and regulation of endocrine hormone secretion
- Identification of the main hormonal secretion anomalies (pituitary, adrenal, thyroid and parathyroid)

Commenté [U39]: DFASM1

Pole 2 : UE Hepato-gastro-enterology

ECTS : 2

Final exam: sub-test of 30 questions, at least 10 of which are grade A, QI and/or DP type of 2 or 8 questions.

This course covers all the fundamental knowledge of digestive pathologies taught in DFASM1.

Objectives :

- Diagnosis and therapeutic management of viral hepatitis
- Diagnostic approach to iron pathology
- Diagnostic approach to dysphagia, vomiting, acute or chronic abdominal pain, digestive hemorrhage, hepatomegaly, jaundice, ascites, diarrhea

Commenté [U40]: DFASM1

⁴⁹ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise))

⁵⁰ DP : Progressive files (DP=Dossiers Progressifs)

- Diagnosis and management of the main digestive pathologies: gastro-oesophageal reflux disease, peptic ulcer disease, biliary lithiasis, cirrhosis, acute and chronic pancreatitis, chronic inflammatory bowel disease, constipation, irritable bowel syndrome, colonic diverticulosis, haemorrhoidal pathology.
- Diagnosis and management of tumors of the esophagus, stomach, liver, pancreas, colon and rectum

Pole 2 : UE **Oncology**

ECTS : 2

Final exam: 30-question sub-test, including at least 10 A-rank questions, QI⁵¹ and/or DP⁵² type of 2 or 8 questions.

This course will provide DFASM1 students with an understanding of the biological mechanisms of cancer development, cancer prevention, screening and diagnosis strategies, and therapeutic strategies used at different stages of the disease in the main cancer sites (breast, prostate, lung, colon/rectum).

Objectives :

- Carcinogenesis / Oncogenetics
- Cancer epidemiology
- Risk factors, prevention, cancer screening
- Cancer diagnosis: warning signs and para-clinical investigations; stage characterization; prognosis
- Principles of different therapeutic approaches in oncology
- Therapeutic management strategies for the most common localized and metastatic cancers
- Therapeutic complications / Therapeutic emergencies
- Personalized care pathway / Supportive care

Commenté [U41]: DFASM1

Pole 2 : UE **Hematology**

ECTS : 2

Final exam: 30-question sub-test, including at least 10 A-rank questions, QI and/or DP type of 2 or 8 questions.

This course provides the 2nd cycle hematology knowledge needed to prepare for the national dematerialized tests.

Objectives :

- Understand the principles of hematopoiesis regulation, particularly erythropoiesis, and the physiology of hemostasis and coagulation,
- Know how to diagnose the main blood count abnormalities in adults and children, and how to make the main etiological diagnoses,

⁵¹ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise))

⁵² DP : Progressive files (DP=Dossiers Progressifs)

- How to manage deficiency anemia,
- Know how to diagnose a hemorrhagic syndrome of hematological origin,
- Know the characteristics of labile blood products and their specificity,
- Know the factors that promote the main hematological malignancies,
- Know the symptoms and biological abnormalities that suggest the diagnosis of the main hematological malignancies (chronic lymphocytic leukemia, multiple myeloma, lymphomas, myeloproliferative and myelodysplastic syndromes, acute leukemias),
- Diagnosis of the main hematological malignancies (chronic lymphocytic leukemia, multiple myeloma, lymphomas, myeloproliferative and myelodysplastic syndromes, acute leukemia),
- Diagnosis of mononucleosis syndrome, adenopathy and splenomegaly.

POLE 3

POLE 3	
Quarterly UE	ECTS
UE Dermatology	2
UE Geriatrics	2
UE Musculoskeletal system	2
UE Disability	2
LCA pole	

Pole 3 : UE Dermatology

ECTS : 2

Final exam: 30-question sub-test, including at least 10 A-rank questions, QI⁵³ and/or DP⁵⁴ type of 2 or 8 questions.

This course provides all the knowledge required for the dermatology program in the second cycle of medical studies.

Objectives :

- The dermatology UE is organized into 4 interactive 3-hour seminars, focusing on inflammatory, infectious and tumoral dermatoses, and on diagnostic situations involving symptoms such as Raynaud's phenomenon, purpura, exanthema and erythroderma in children and adults, as well as hemangiomas and vascular malformations. A 1-hour review session completes the program.
- The aim of this course is to guide DFASM1 students in the semiological, diagnostic and exploratory approach to common dermatoses, and to briefly present the principles of treatment, which will not be studied in detail.

Commenté [U43]: DFASM1

Pole 3 : UE Geriatrics

ECTS : 2

Course duration : e-learning, x5 supervised teaching (ED=Enseignement Dirigé) (3 hours x5)

Final exam: sub-test of 30 questions, at least 10 of which are grade A, QI and/or DP type of 2 or 8 questions.

This course, aimed at DFASM1 students, covers all aspects of the new geriatrics program, in line with the reform of the Second Cycle of Medical Studies, with a view to the National Knowledge Assessment Test at the end of DFASM2.

Commenté [U44]: DFASM1

⁵³ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise))

⁵⁴ DP : Progressive files (DP=Dossiers Progressifs)

The e-learning covers all the questions in the program (with the exception of those already taught in parallel by organ specialties, e.g. osteoarthritis) and covers all the rank A and rank B items to be learned. It will be supplemented by five guided teaching sessions, each lasting three hours, covering the most important points in the program, in the form of interactively corrected questions and answers, grouped by theme.

Objectives :

- Understand the physiological changes associated with normal and pathological aging
- Know the major geriatric syndromes: neurocognitive disorders, confusion, depression, malnutrition, gait disorders and falls
- Understand the concepts of polyopathy and polypharmacy and their implications for clinical practice
- Knowing the specificities of caring for the sick elderly: personalized benefit/risk balance, iatrogenicity, multidisciplinary management
- Understanding the ethical issues underlying therapeutic decisions concerning elderly patients

Pole 3 : UE Locomotor system

ECTS : 2

Final exam: 30-question sub-test, including at least 10 A-rank questions, QI⁵⁵ and/or DP⁵⁶ type of 2 or 8 questions.

This course provides all the knowledge needed to learn rheumatology and orthopedic surgery, in accordance with the DFASM program and the standards for the 2 specialties.

Objectives :

- Defining the main diseases of the musculoskeletal system
- Clinical and radiological signs of musculoskeletal diseases
- Understand the diagnostic process and the role of various complementary biological and radiographic examinations
- Recognize the main emergency situations
- Understand the role of medical and non-medical treatments and surgery in the management of musculoskeletal diseases.
- Know the main methods of monitoring diseases and treatments

Commenté [U45]: DFASM1

⁵⁵ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise))

⁵⁶ DP : Progressive files (DP=Dossiers Progressifs)

Pole 3 : UE Disability

ECTS : 2

Final exam: 30-question sub-test, including at least 10 A-rank questions, QI⁵⁷ and/or DP⁵⁸ type of 2 or 8 questions.

This course provides all the knowledge required to assess and implement the re-education and rehabilitation resources needed to provide multidisciplinary support for people with disabilities, in accordance with the DFASM program and the Physical and Rehabilitation Medicine reference framework.

Objectives :

- Knowing the definition and conceptual framework of functioning and disability according to the WHO and French legislation
- Know how to prescribe and assess the effectiveness and tolerance of the main re-education and rehabilitation techniques depending on the disability situation.
- Assessing and supporting adults with neurological disabilities
- Assessing and supporting adults with orthopaedic disabilities
- Assessing and supporting children with disabilities

Commenté [U46]: DFASM1

⁵⁷ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise))

⁵⁸ DP : Progressive files (DP=Dossiers Progressifs)

UE OUT OF POLE

OUT OF POLE (« HORS PÔLE ») - DFASM1	
Annualized EU	ECTS
UE LCA transversal	4
UE Forensic Medicine	3
UE Society/Humanities	3
UE Deontology	3
UE Digital Health	1
UE Imaging/Radiology	1

End-of-year exam only (term 3)!

UE Out of Pole : Forensic medicine

ECTS : 3

Course duration : 3 x 3 hours

Final exam: in term 3 only, 2h30, x35 Q⁵⁹ and/or DP⁶⁰ questions

Commenté [U47]: DFASM1

The course covers clinical forensic medicine, thanatology and medical ethics. Case studies are used to illustrate the teachers' points and underline the important concepts to be retained for medical practice in general.

UE Out of Pole : Society/humanity

ECTS : 3

Final exam: in term 3 only, 2h30, x35 QI and/or DP questions

Commenté [U48]: DFASM1

Face-to-face teaching covering the following topics:

- **Body:**

- Bodies and philosophy: medicine between body-object and body-subject; the sick body, a test of identity; Bodies that count unequally
- Bodies and techniques in medicine: reconfiguration of medical practices; rise of clinical medicine; medical imaging: a new look at the body; quantification and pathologization
- The body, medicine and data: medical data: historical representation; objectification in medicine; the advent of statistics in medicine; long-standing and close links between data and medical progress; biomedical data; production of medical data in the context of care; the need to computerize data; Big Data in health and the protection of individuals; IT tools for Big Data in health.

- **Discrimination and health:**

- Combining ethics of care and clinical effectiveness
- Several factors of discrimination: stigmatization and guilt
- Deontology

⁵⁹ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise))

⁶⁰ DP : Progressive files (DP=Dossiers Progressifs)

- Social determinants of patient trajectory and care
- Categorizations, differentiated mobilizations, discrimination in the emergency department: health status as a criterion for discrimination, the healthcare system as a source of discrimination, discrimination with a negative effect on health status
 - Knowledge and vaccine controversies:
- Current situation, historical perspectives, sociological elements and recent developments
- Scientific realities, controversial "truths".
- Elements of crisis communication: divergent messages, role of political action, publicity around pharmacovigilance, new epidemiological tools
 - Vaccine efficacy, tolerance and controversy.

UE Out of Pole : Deontology

ECTS : 3

Cours duration : single 3-hour seminar

Final exam : 2h30, x20 QI⁶¹ and/or DP⁶² questions

To make students aware of the problem of relationships with industry. A large part of the presentation is devoted to explaining what a financial conflict of interest is, and its consequences for scientific integrity, public health and healthcare spending. Solutions to prevent and remedy conflicts of interest are also detailed. The charter of ethics and deontology issued by the Deans is extensively commented on, in particular the aspects relating to relations with industry and the ban on its representatives meeting students on university and hospital premises and providing them with benefits.

UE Out of Pole : Digital health

ECTS : 1

Course duration : face-to-face, lectures (seminars of 2 to 3 hours each)

Final exam : in class, 2h30, x20 QI and/or DP questions

The aim is to acquire digital health skills useful for clinical practice. Several topics will be covered, including: information systems architecture; artificial intelligence techniques; technical, legal and ethical issues related to health data; knowledge sources and social media; decision support systems; mobile health and digital self-measurement; telemedicine and telehealth.

Each concept will be taught from both a theoretical and practical angle, so as to prepare students for their future practice, and for the new R2C assessment methods (e.g. ECOS).

Students interested in this module will be able to deepen their knowledge via two optional ECOs taught in DFASM entitled "AI for clinical decision support" and "3P medicine".

Commenté [U49]: DFASM1

⁶¹ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise))

⁶² DP : Progressive files (DP=Dossiers Progressifs)

UE Out of Pole : **Imaging/radiology**

ECTS : 1

Final exam : in class, 2h30, x25 QI⁶³ and/or DP⁶⁴ questions

Commenté [U50]: DFASM1

The objectives of imaging teaching in DFASM1 and DFASM2 are to prepare students for the NDA and their future professional life as physicians.

Imaging teaching covers 540 A and B items. **Given the large number of items, this teaching has been spread over 2 years (DFASM1 and DFASM2).**

A-rank items are taught in compulsory courses (UEL), while B-rank items are taught in optional courses (ECO).

For example, in DFASM1, the compulsory EU program covering A-rank items includes :

- cardiovascular imaging (2 hours)
- urological imaging (3 hours)
- thoracic imaging (3 hours)
- abdominal imaging (4 hours)
- osteoarticular imaging (3 hours)

Teaching is interactive, based on clinical cases presented and discussed with students in face-to-face amphitheaters.

All compulsory and optional subjects are examined at the end of the year.

⁶³ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise))

⁶⁴ DP : Progressive files (DP=Dossiers Progressifs)

DFASM2

Organization of theoretical training

Theoretical training in DFASM2 comprises 4 types of teaching:

- Teaching units (UE) grouped into 3 « Poles »
- A compulsory cross-disciplinary UE in reading articles (LCA/Critical Reading of Articles)
- 4 annual cross-disciplinary UEs not grouped in poles
- Compulsory Free Teaching Units comprising free UEs and/or compulsory in-depth modules (MOA)

They can take the form of face-to-face or distance learning (lectures, tutorials, question-and-answer workshops, etc.), e-learning or training on the simulation platform.

The poles return every quarter.

International students are allowed to select the subjects of their choice from any pole to complete their Learning Agreement. There is no obligation to select an entire pole.

For French students: at the start of the year, students are assigned to a course corresponding to one pole per term, and must also enroll in one compulsory UE libre per year. Practical training (internships) is carried out along a path that allows students to be assigned to fields corresponding to the disciplines taught in the training center to which they are assigned. It may include sessions on simulation platforms.

Examinations: faculty examinations comprise two examination sessions. The first session is divided into three terms. **Each student is assessed in the department in which he or she is enrolled for the corresponding term.**

Organization of practical training

For international students: practical training (clinical placement) during the study stay is compulsory and must be included in the Learning Agreement. Students can choose from a list of internships provided by the International Relations Office. Students are free to choose an internship that is not related to a subject they are studying.

For French students: practical training (clinical placement) is carried out according to an itinerary that enables students to be assigned to training sites corresponding to one of the disciplines taught in the training center to which they are assigned. It may include sessions on simulation platforms.

Organization of the **DFASM2** « pôles » with rotation by trimester:

POLE 4	
Quarterly UE	ECTS
UE Pediatrics	2
UE Design	2
UE Immuno-inflammation	2
LCA pole	

POLE 5	
Quarterly UE	ECTS
UE Neurology	2
UE Psychiatry and child psychiatry	2
UE CMF-Ophthalmology-ORL	2
LCA pole	

POLE 6	
Quarterly UE	ECTS
UE Emergency-Resuscitation	2
UE Therapeutics	2
UE Palliative care / Pain / Anesthesia / Accompaniment	2
LCA pole	

OUT OF POLE (« HORS PÔLE ») - DFASM2	
Annual cross-disciplinary UE	ECTS
UE Forensic Medicine	2
UE Occupational medicine	2
UE Society/Humanities	2
UE Imaging/Radiology	2

POLE 4

POLE 4	
Quarterly UE	ECTS
UE Pediatrics	2
UE Design	2
UE Immuno-inflammation	2
LCA pole	

Pole 4 : UE Pediatrics

ECTS : 2

Final exam: face-to-face, sub-tests 40 questions including at least 15 A-rank questions, QI⁶⁵ and/or DP⁶⁶ or KFP⁶⁷ type of 2 or 8 questions

Commenté [U51]: DFASM2

Teaching	Teaching details	Duration
Visceral surgery	Abdominal pain, appendicitis, peritonitis, intussusception	1h30
Endocrinology	Normal and pathological growth, puberty	1h
	Diabetes and hypoglycemia	1h
Gastroenterology	GERD, infant vomiting and occlusive syndrome, rheumatoid purpura	1h
	Low weight, chronic diarrhea, obesity	1h
Hematology	Anemia, Thrombocytopenic purpura, Immune deficiency	1h30
Infectiology	Vaccination, infant fever, urinary tract infection	1h
	Lower respiratory infections, whooping cough, tuberculosis	1h
	Bacterial diarrhea, Travel fever	1h
	Upper respiratory and ENT infections	1h
	Febrile exanthema	1h
	Meningitis	1h
Neonatology	Full-term newborn, fetal risks, jaundice, breastfeeding	2h
Neurology	Normal psychomotor development and warning signs	1h
	Convulsions in infants and children, Epilepsy West and absence	1h30
	Proteinuria and nephrotic syndrome in children, acute renal failure, kidney disease	1h30
Oncology	Pediatric oncology, pain	1h30
Orthopedics/screening (LCH, scoliosis), lameness, fractures, head trauma		1h30
General Pediatrics	Infant feeding, Infant and child care	1h
	Illness, unexpected infant death, maltreatment	1h
Respiratory	Bronchiolitis (myocarditis/breathlessness); acute dyspnea, "low" acute respiratory distress, p.	1h
	Acute and chronic asthma	2h
Resuscitation	Cardiac arrest and shock (TSV)	1h

⁶⁵ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise))

⁶⁶ DP : Progressive files (DP=Dossiers Progressifs)

⁶⁷ KFP: Key-feature-problem

	Acute upper and lower respiratory distress, neurological distress, febrile purpura	1h
Emergencies	Acute diarrhea, dehydration	1h
End of Pole: PEDIATRIC CONFERENCE		4h
Total duration of "Pediatrics" courses		35h

Pole 4 : UE Conception

ECTS : 2

Final exam: face-to-face, sub-tests 40 questions including at least 15 A-rank questions, QI⁶⁸ and/or DP⁶⁹ or KFP⁷⁰ type of 2 or 8 questions

Teaching	Duration
Normal pregnancy, normal childbirth, breastfeeding, post-natal care	4h
Pregnancy complications, DI abdo pregnancy, prema, IUGR, GD, Preeclampsia	3h
Fetal risks, urinary tract infections, occupational risks, nutritional requirements	4h
Cycle abnormalities, contraception, amenorrhea, menopause	3h
EP, genital hemorrhage, pelvic swelling, STIs	3h
IVG, Infertility, MPA, Pelvic pain, endometriosis	4h
K cervix and uterus, K ovary, K breast	3h
End of Pole: CONCEPTION CONFERENCE	4h
Total duration of "Conception" courses	28h

Pole 4 : UE Immuno-inflammation

ECTS : 2

Final exam: face-to-face, sub-tests 40 questions, at least 15 of which are rank A, QI and/or DP or KFP type of 2 or 8 questions

Commenté [U52]: DFASM2

Teaching	Duration
Inflammatory reactions	1h
Prolonged unexplained fever	1h30
Hypersensitivity and allergies	1h30
Immune deficiencies	1h30
Systemic vasculitides	1h30
ACG, PPR, Takayasu	1h30
Autoimmune diseases	1h
Lupus and SAPL	2h
Sarcoidosis	1h
Eosinophilia	1h
Autoimmune cytopenias	1h

⁶⁸ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise))

⁶⁹ DP : Progressive files (DP=Dossiers Progressifs)

⁷⁰ KFP: Key-feature-problem

Organ transplantation	1h30
Amyloidosis	1h30
MGUS	1h
End of Pole: IMMUNO-INFLAMMATION CONFERENCE	4h
<i>Total duration of "Immuno-inflammation" courses</i>	<i>22h30</i>

POLE 5

POLE 5	
Quarterly UE	ECTS
UE Neurology	2
UE Psychiatry and child psychiatry	2
UE CMF-Ophthalmology-ORL	2
LCA pole	

Pole 5 : UE Neurology

ECTS : 2

Final exam: face-to-face, sub-tests 40 questions including at least 15 A-rank questions, QI⁷¹ and/or DP⁷² or KFP⁷³ type of 2 or 8 questions

Commenté [U53]: DFASM2

Teaching	Duration
Entry conference - Clinical reasoning	3h
Central nervous system	3h
AVC	3h
Neurodegenerative pathology	3h
Neurology, neurosurgery, neuroradiology	3h
Peripheral nervous system	3h
Exit conference - Review of Rank A and Rank B items	3h
End of Pole: NEUROLOGY CONFERENCE	4h
Total duration of "Neurology" courses	25h

Pole 5 : UE Psychiatry and child psychiatry

ECTS : 2

Final exam: face-to-face, sub-tests 40 questions, at least 15 of which are rank A, QI and/or DP or KFP type of 2 or 8 questions.

Commenté [U54]: DFASM2

Teaching	Duration
Infant and child psychic development and neurological disorders.	1h
Pervasive developmental disorders	1h
Eating disorders in adolescents and adults	1h
Behavioral disorders, Suicidal behavior in adolescents	1h
Depressive disorders in children	1h

⁷¹ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise))

⁷² DP : Progressive files (DP=Dossiers Progressifs)

⁷³ KFP: Key-feature-problem

Adjustment disorder, Anxiety disorder, Sleep disorder in children	1h
Anxiety Disorder, Adjustment Disorder, Obsessive-Compulsive Disorder	1h
Sleep disorders	1h
Somatoform disorders	1h
Schizophrenic disorder, Chronic persistent delirium, Agitation and delirium	2h
Depressive disorder, Bereavement	2h
Suicidal risk and behavior	1h
Bipolar disorder	1h30
Pregnancy and postpartum psychic disorders	1h30
Mental disorders in the elderly	1h
Normal sexuality and its disorders	1h
Behavioral addiction	1h
Addiction to psychotropic drugs and illicit substances	1h
Tobacco addiction	1h
Alcohol addiction	1h
End of Pole: PSYCHIATRY CONFERENCE	4h
<i>Total duration of "Psychiatry and child psychiatry" courses</i>	<i>27h</i>

Pole 5 : UE Maxillofacial surgery, Ophthalmology, ORL

ECTS : 2

Final exam: face-to-face, sub-tests 40 questions including at least 15 A-rank questions, QI⁷⁴ and/or DP⁷⁵ or KFP⁷⁶ typz of 2 or 8 questions

"CMF" = maxillofacial surgery

Teaching	Duration
Otoneurology	1h30
Oncology and cervical pathologies	1h30
Anterior segment and Retina	3h
Facial traumatology	3h
Rhinology	1h30
Pediatric ORL	1h30
Neuro-ophthalmology, pediatrics, strabismus, eyelids and appendages	3h
GI salivary/infection/mucosa	1h30
Infectious diseases in ORL	1h30
End of Pole: CMF-OPH-ORL CONFERENCES	8h
<i>Total duration of "CMF, Ophthalmology, ENT" courses</i>	<i>26h</i>

⁷⁴ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise))

⁷⁵ DP : Progressive files (DP=Dossiers Progressifs)

⁷⁶ KFP: Key-feature-problem

POLE 6

POLE 6	
Quarterly UE	ECTS
UE Emergency-Resuscitation	2
UE Therapeutics	2
UE Palliative care / Pain / Anesthesia / Accompaniment	2
LCA pole	

Pole 6 : UE Emergency and Intensive Care

ECTS : 2

Final exam: face-to-face, sub-tests 40 questions including at least 15 A-rank questions, QI⁷⁷ and/or DP⁷⁸ or KFP⁷⁹ type of 2 or 8 questions

Commenté [U55]: DFASM2

Teaching	Duration
States of shock	2h
Acute respiratory failure	2h
Acute cardiovascular disease	2h
Coma and consciousness disorders	2h
Acute infections	2h
Metabolic disorders	2h
Acute hepato-gastroenterology	2h
Intoxications + circumstantial pathologies	2h
Traumatology	2h
End of Pole: EMERGENCY RESUSCITATION CONFERENCE	4h
Total duration of "Emergency and resuscitation" courses	22h

Pole 6 : UE Thérapeutique

ECTS : 2

Final exam: face-to-face, sub-tests 40 questions, at least 15 of which are rank A, QI and/or DP or KFP type of 2 or 8 questions.

Commenté [U56]: DFASM2

Teaching	Duration
Anti-cancer	2h
NSAIDs, analgesics	2h
Proper use of anti-infectives	2h
Land at risk	3h
Antivirals, antifungals, antiparasitics	3h
Cardiovascular, lipid-lowering and antidiabetic treatments	3h

⁷⁷ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise))

⁷⁸ DP : Progressive files (DP=Dossiers Progressifs)

⁷⁹ KFP: Key-feature-problem

Development, drug evaluation	2h30
Contraception, menopause, sexual problems	1h30
End of Pole: EDN PREPARATION CONFERENCE	4h
<i>Total duration of "Therapeutics" courses</i>	<i>23h</i>

Pole 6 : UE Palliative care / Pain / Anaesthesia and support

ECTS : 2

*Final exam: face-to-face, sub-tests 40 questions including at least 15 A-rank questions, QI⁸⁰ and/or DP⁸¹
 or KFP⁸² type of 2 or 8 questions*

Commenté [U57]: DFASM2

Teaching	Duration
Clinical guidelines in palliative care, Ethical guidelines	1h30
Clinical references, pediatric MS	1h30
Neurophysiological bases, pathophysiological mechanisms of acute pain and pain.	2h30
Analgesic, medicinal and non-medicinal therapies	3h30
Local, locoregional and general anesthesia	1h
Pain in children: assessment and analgesic treatment	1h
Pain in vulnerable persons	1h
Introduction to medical ethics, Ethical guidelines, Sedation and death wish, SP in intensive care unit	3h
Fin de Pole : CONFERENCE PALLIATIVE CARE-PAIN-ACCOMPANEMENT	4h
<i>Total length of "Palliative care, pain, anesthesia, support" courses</i>	<i>19h</i>

⁸⁰ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise))

⁸¹ DP : Progressive files (DP=Dossiers Progressifs)

⁸² KFP: Key-feature-problem

UE OUT OF POLE

OUT OF POLE (« HORS PÔLE ») - DFASM2	
Annual cross-disciplinary UE	ECTS
UE Forensic Medicine	2
UE Occupational medicine	2
UE Society/Humanities	2
UE Imaging/Radiology	2

UE Out of Pole : Forensic medicine

ECTS : 2

Course duration : 3 x 3 hours

Final exam: common exam for other UEs outside the cluster, assessment in term 1 of DFASM2, 1h30, x60 QI⁸³ and/or DP⁸⁴ or KFP⁸⁵ type questions from 2 to 8 questions

The course covers clinical forensic medicine, thanatology and medical ethics. Case studies are used to illustrate the teachers' points and underline the important concepts to be retained for medical practice in general.

Commenté [U58]: DFASM2

UE Out of Pole : Occupational medicine

ECTS : 2

Teaching time: 3 hours

Final exam: common exam for other UEs outside the cluster, assessment in DFASM2 term 1, 1h30, 60 questions of the QI and/or DP or KFP type questions, 2 to 8 questions.

Three-part integrated course Ranked A in the Occupational Medicine EDN program, repeated in the final year as a 3-hour EDN lecture.

Topics covered :

- 1) Work-related accidents: definition, reporting, compensation
- 2) Occupational diseases: definition, reporting, compensation
- 3) The practice of occupational medicine, the relationship with the attending physician, recognition as a disabled worker, disability, job retention

This course is validated by multiple-choice questions.

Commenté [U59]: DFASM2

⁸³ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise))

⁸⁴ DP : Progressive files (DP=Dossiers Progressifs)

⁸⁵ KFP: Key-feature-problem

UE Out of Pole : **Society/humanities**

ECTS : 2

Final exam: common exam for other UEs outside the cluster, assessment in term 1 of DFASM2, 1h30, x60 QI⁸⁶ and/or DP⁸⁷ or KFP⁸⁸ type questions from 2 to 8 questions

Face-to-face teaching covering the following topics:

Body:

- Bodies and philosophy: medicine between body-object and body-subject; the sick body, a test of identity; Bodies that count unequally
- Bodies and techniques in medicine: reconfiguration of medical practices; rise of clinical medicine; medical imaging: a new look at the body; quantification and pathologization
- The body, medicine and data: medical data: historical representation; objectification in medicine; the advent of statistics in medicine; long-standing and close links between data and medical progress; biomedical data; production of medical data in the context of care; the need to computerize data; Big Data in health and the protection of individuals; IT tools for Big Data in health.

Discrimination and health:

- Combining ethics of care and clinical effectiveness
- Several factors of discrimination: stigmatization and guilt
- Deontology
- Social determinants of patient trajectory and care
- Categorizations, differentiated mobilizations, discrimination in the emergency department: health status as a criterion for discrimination, the healthcare system as a source of discrimination, discrimination with a negative effect on health status

Knowledge and vaccine controversies:

- Overview, historical perspectives, sociological elements and recent developments
- Scientific realities, "truths" about controversies.
- Elements of crisis communication: divergent messages, role of political action, publicity around pharmacovigilance, new epidemiological tools

Vaccine efficacy, tolerance and controversy.

⁸⁶ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise))

⁸⁷ DP : Progressive files (DP=Dossiers Progressifs)

⁸⁸ KFP: Key-feature-problem

Commenté [U60]: DFASM2

UE Out of Pole : **Imaging/radiology**

ECTS : 2

Final exam: assessment in term 3 of DFASM2, 1 hour, x40 QI⁸⁹ and/or DP⁹⁰ type questions from 2 to 8 questions

Commenté [U61]: DFASM2

The objectives of imaging teaching in DFASM1 and DFASM2 are to prepare students for the NDA and their future professional life as physicians.

Imaging teaching covers 540 A and B items. Given the large number of items, this teaching has been spread over 2 years (DFASM1 and DFASM2).

A-rank items are taught in compulsory courses (UEL), while B-rank items are taught in optional courses (ECO).

In DFASM2 the compulsory UE program includes :

- pediatric radio (4 hours)
- neurological imaging (4 hours)
- ORL imaging (2 hours)
- gynecological and senological imaging (2 hours)

The optional UE on the same specialties includes 15 hours of classes.

Teaching is interactive, based on clinical cases presented and discussed with students in face-to-face amphitheatres.

⁸⁹ QI : Isolated Questions (multiple response question (QRM=question à réponses multiples) – single-response question (QRU=question à réponse unique) – best-response question (QMR=question à meilleure réponse) – zoning (zonage) – script concordance test (TCS=test de concordance de script) – short open-response question (QROC=question à réponse ouverte et concise))

⁹⁰ DP : Progressive files (DP=Dossiers Progressifs)

French as a Foreign Language (FLE)

ECTS : 3

Course duration : classes = 2 hours per week

« FLE » = Français Langue Etrangère = French as a Foreign Language

International students can take courses in French as a Foreign Language (FLE) at LANSAD (LANGues pour les Spécialistes d'Autres Disciplines) on the Grands Moulins campus.

These courses are adapted to your level (5 teaching levels from A1 to C1) and enable you to improve your French language skills for living and studying in France.

You can benefit from :

- semester courses (11 weeks): 1 grammar course: A1, A2, B1, B2, C1

(and/or)

- a workshop: writing (B1, B2), speaking (B1, B2), civilization (B1, B2), argumentation (C1), cinema (B2/C1)

The "Culture & Civilisation" workshop is aimed at B1/B2 level students from all departments.

The aim of this course is to provide students with the tools they need to better understand the different aspects of French culture.

Contacts and REGISTRATION REQUIRED with LANSAD (places are limited): lansad.eila@u-paris.fr

Please note : FLE registration is **not managed by the International Relations Office of UPCité Medical School**. You must **contact LANSAD** directly at the address indicated.