

## → **SECOND CYCLE OF MEDICAL STUDIES**

= 4 years (DCEM1, DCEM2, DCEM3, DCEM4)

### **DCEM 1**

The first year of the 2<sup>nd</sup> Cycle comprises the following teachings :

	Theoretical courses		Tutorial and practical courses		Total	Credits
	1 <sup>st</sup> sem.	2 <sup>nd</sup> sem.	1 <sup>st</sup> sem.	2 <sup>nd</sup> sem.		
General Pathology	34 h	-	14 h	-	48 h	5
Special Pathology	-	24 h			24 h	3
Bacteriology, Hygiene		26 h	-	18 h	44 h	5
Fundamental Parasitology	22 h 30		3 h		25 h 30	3
General Pharmacology	20 h	-	-	-	20 h	3
Special Pharmacology	-	24 h			24 h	3
Surgical Semeiology + Traumatology + Intensive care – Emergency		45 h + 25 h + 2 h	-	-	72 h	9
Medical Semeiology + Rhumatology + Intensive care – Emergency		43 h + 12 h + 8 h	-	-	63 h	8
Virology	19 h	-	4 h	-	23 h	3
Traumatology	18 h 30				18h30	3
Unit 1 – Apprenticeship of medical practice (Forensic medicine)		50 h			50 h	5
					<b>412 h</b>	<b>50</b>

Semeiology Training Periods in Hospitals			200 h	5
Introduction to hospital functions			200 h	5

Practical courses are organized in Pathology, Bacteriology, Virology, Hygiene, Immunology and Parasitology. Those practical courses are compulsory.

#### **D.C.E.M. 1 – First Semester**

### ***Traumatology***

18 hours 30 of theoretical courses

#### Programme :

Shoulder : traumatical : fractures, dislocations ; degeneration rotator cuff syndrome - Arm : humerus fractures - Forearm : fractures of the two bones - Wrist : degenerating lesions, chronic rhumatism - Hand : traumatology tendinous wound, inflammatory and degenerating lesions - Hip and pelvic girdle : traumatology (fractures except fractures of femur neck, dislocations, degenerating lesions) - Femur : traumatology - Knee : traumatology (fractures of

the bottom part of the femur, of the tibia, of the patella), degenerative lesions - Tibia : fractures of the two bones of the leg - Ankle : bi-malleolus fractures, degenerating lesions - Back part of the foot : fractures of the calcaneum, of the ankle bone - Spinal column : fractures with and without neurological complications, spinal column dislocations, degenerating lesions (narrow lumbar cavity, cervical arthrosis myelopathy).

Responsible : Pr D. CORDONNIER

Teachers : Pr D. THERY, Pr J.F. DESROUSSEAUX, Dr G. POLVECHE

## ***Fundamental Parasitology***

22 hours 30 of theoretical courses

Programme :

Generalities : parasitic ecology ; parasitic immunology ; classification ; helminths : structure, digestive helminths, blood helminths ; protozoa ; mycology ; diagnosis of mycosis ; foecal transmission of parasites ; hypereosinophilia ; laboratory's function in parasitic diseases ; vector transmitted parasitic diseases ; cutaneous parasites.

3 hours of tutorial courses

Responsible & teacher : Dr. E. DEHECQ

## ***General Pathology***

34 hours of theoretical courses

Programme :

Cellular growth – Differentiation – Adaptations – Cellular injury – Cellular death – Atherosclerosis – Atheroma – Steatosis – Gout – Chronic passive congestion in livers, in lungs – Thrombosis – Embolism – Infarction – Inflammation – Neoplasia

Responsible : Pr. C. CREUSY

Teacher : Pr. P. GOSSET, Pr. C. CREUSY

14 hours of tutorial courses

Metabolic disorders (hemochromatosis, amyloidosis, steatosis) – Benign tumors – Malignant tumors – Inflammation .

Responsible : Pr. C. CREUSY

Teachers : Pr. P. GOSSET, Pr. C. CREUSY, Dr. S. PAPADOPOULOS

## ***Virology***

19 hours of theoretical courses

Programme :

Structure and classification of viruses ; growth and characterization of viruses ; adenoviruses ; herpesviruses ; poxviruses ; picornaviruses ; orthomyxoviruses ; paramyxoviruses ; coronaviruses ; rhabdoviruses ; togaviruses ; bunyaviruses ; arenaviruses ; rubella virus ; reovirus and epidemic acute gastroenteritis viruses ; hepatitis viruses ; retroviruses ; arboviruses ; prions ; interferons and antiviral treatment.

4 hours of tutorial courses

Responsible : Pr. A. DECOSTER

Teachers : Pr. A. DECOSTER

## ***General pharmacology***

20 hours of theoretical courses

Programme :

General point about drugs (the lists, the prescription) ; development of a new drug and clinical trials ; routes of administration and metabolism ; elementary knowledges of pharmacokinetics ; from receptors to drugs mechanisms of action : pharmacodynamics ;

factors altering drug activity and drug interactions ; side effects of drugs and pharmacovigilance ; general points about neurotransmission in the autonomic nervous system ; the sympathomimetic and sympatholytic agents ; the parasympathomimetic and parasympatholytic agents ; histamine and antihistamines ; the anticoagulants ; serotonin and antiserotonins ; the corticoids ; the nonsteroidal anti-inflammatories ; the antidiabetics ; thyroid hormone therapy and antithyroid agents.

Responsible : Pr. M. MAHIEU

Teachers : Pr. M. MAHIEU, Dr.J-M. TRIVIER

## D.C.E.M. 1 - Second Semester

### ***Unit 1 - Apprenticeship of medical practice***

14 hours of theoretical courses

Programme :

The doctor-patient relationship. The announcement of critical disease. The education of chronically ill patients personalisation of patient's management - Methodology of clinical research - Reasoning and decision making in medical practice – Medical are based on concrete facts. The hazards of therapeutics - Evaluation of additional tests diagnosis in establishing. Useful and useless prescriptions - Principles and strategies of the use of the main medical imaging tests - Medical records. Patient information. Medical secrecy - Ethic and medical deontology ; the patient's rights : problems linked to diagnosis, to the suspect of the individual and to the death - Medical certificates. Death and law. Organ removal and law - Hospitalisation consecutive a third person demand mandatory hospitalisation - Medical penal, civil administrative and disciplinary responsibility - Principles of quality insurance procedures and evaluation of professional practices - Documentary research and self education. Critical reading of an medical article recommendation for practice. The orphan diseases - Health care system organisation channels and networks Social protection. Medical consumption and economy of health

Responsible : Pr. O. KREMP

Teachers : College of General Practitioners

### ***Special Pathology***

24 hours of theoretical courses

Programme :

Uterine tumors – Tumors of the bladder and related urinary structures – Tumors of the prostate – Ovary tumors – Testis tumors – Osseous tumors – Tumors of the lung – Mammary gland tumors – Thyroid gland tumors –Thyroiditis – Cutaneous tumors (carcinoma and melanomas) – Cirrhosis – Hepatitis – Tumors of the liver – Colo-rectal tumors – Gastric tumors – Colitis – Intracranial tumors

Responsible : Pr. C. CREUSY

Teachers : Pr. C. CREUSY, Pr. P. GOSSET, Dr. S. PAPADOPOULOS

### ***Surgical Semeiology***

72 hours of theoretical courses

Programme :

Surgical infections : inflammation, abscess, furuncle, carbuncle, erysipelas, lymphangitis and adenitis – Clinical and paraclinical examination of a patient with a tumor – Semeiology of

contusions and wounds ; semeiology of haemorrhages and vessels wounds, closed arterial contusions – Semeiology of tongue cancer – Semeiology of goiter – Semeiology of cervical nodes – Closed thoracic contusions, ribs fractures, severe thoracic traumatic lesions – Semeiology of burns.

Gynaecological semeiology : semeiology of breast gland, extra-uterine pregnancy, uterine fibroma, ovarian cyst, uterine neck cancer, endometrial cancer.

Responsible : Pr. D. THERY

Teachers : Pr. D. THERY, Pr. D. CORDONNIER, Pr. J-F. DESROUSSEAUX, Dr. G. POLVECHE, Pr. B. DESROUSSEAUX

## ***Special Pharmacology***

24 hours of theoretical courses

Programme :

From neurotransmission in the central nervous system to psychotropic drugs classification ; the hypnotic drugs ; the antianxiety agents ; the antipsychotic tranquilizers ; the antiparkinsonism drugs ; the antiepileptics ; the antidepressants ; the lithium ; the diuretics ; the analgesics ; the digitalis drugs ; the antianginal drugs ; the antiarrhythmics ; the antihypertensives ; the antibiotics.

Responsible : Pr. M. MAHIEU

Teachers : Pr. M. MAHIEU, Dr. J-M. TRIVIER, Dr. J-M. LEMAHIEU, Dr. P. CABARET, Dr. J-J. LEDUC, Dr. T. VANDERLINDEN.

## ***Bacteriology, Hygiene***

26 hours of theoretical courses

Programme :

Virus and bacteria – Bacterial cell structures and classification – Bacterial growth, nutrition and metabolism – Antibiotic action and resistance – Genetic transfer mechanisms and the transmission of drug resistance – Neisseriaceae – Pneumococci – Streptococci – Staphylococci – Corynebacterium and listeria – Enterics and related

Gram-negative organisms – Pseudomonads and other nonfermenting bacilli – Pasteurella, Francisella, Brucella, Legionella – The haemophilus-Bordetella group – The spirochetes – Chlamydiae and Rickettsiae – Mycoplasmas – Mycobacteria – Anaerobic spore-forming bacilli – Nosocomial infections.

Responsible : Pr. A. DECOSTER

Teachers : Pr. A. DECOSTER

18 hours of tutorial courses (compulsory)

Diagnostic bacteriology : microscopy, technique of cultures, measurement of antibiotic susceptibility, serological techniques.

Responsible : Pr. A. DECOSTER

Teachers : Pr. A. DECOSTER

## D.C.E.M. 1 – First and second semester courses

### **Medical Semeiology**

Responsible : Pr. P. CORNAERT

#### **\* Neurology**

20 hours of theoretical courses

Programme :

Pathology of cranial nerves, of motivity, of sensitiveness, of language ; epilepsy ; intra-cranial hypertension ; semeiology of muscular tonus of reflexes, of cerebellar and vestibular syndrom ; abnormal movements ; comas ; meningeal syndrom.

Teachers : Pr. P. GALLOIS, Pr. P. HAUTECOEUR

#### **\* Psychiatry**

3 hours of theoretical courses in November, December.

Programme :

Neurosis, psychosis, depression.

Teacher : Pr. V. DODIN

#### **\* Dermatology**

6 hours of theoretical courses from October to December

Programme :

Description of elementary lesions in dermatological semeiology.

Teacher : Pr. P. MODIANO

#### **\* Endocrinology**

8 hours of theoretical courses

Programme :

Acromegalia, ante and post hypophysial insufficiency, hyperprolactinemia, hypothyreosis, hyperthyroidism, goiter and cervical nodes, hypercorticism, pheochromocytoma, adrenal insufficiency, diabetes, hypoglycaemia, diseases of calcium metabolism.

Teachings stagger from October to December

Teachers : Pr. D. de BROUCKER, Dr. F. DELECOURT.

#### **\* Nephrology**

6 hours of theoretical courses, from March to May

Programme :

Patient examination in nephrology, oedema, glomerular nephropathies, acute and chronic renal insufficiency, hypertension.

Teacher : Dr. J-J. LEDUC

#### **\* Infectious Diseases**

4 hours of theoretical courses, going on from March to May

Programme :

Principles in infectious diseases, fever, septicemic syndroms.

Teacher : Pr. O. KREMP, Dr. P. CABARET

#### **\* Rheumatology**

12 hours of theoretical courses

Programme :

Examination of the patient with articular disease (peripheral joints and spine), classification of articular disease, osteoarthritis and arthritis (mechanical or inflammatory), major diagnostic features of joint disorders, imaging techniques, laboratory tests in rheumatic disorders, disorders of bone.

Teacher : Pr. E. HOUVENAGEL

**\* Intensive Care – Emergency**

4 hours of theoretical courses

Programme :

Cardiac arrest, semeiology of ionic disorders and of cardiogenic shock

Teachings stagger from February to April.

4 hours of tutorial courses

Hydreic disorders, emergency care.

Teachers : Pr. G. FORZY, Dr. B. LEPOUTRE

<b>DCEM 1 : Hospital practices / 400 Hours / Credits : 10</b>
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1) The students have to undertake hospital practices, in various departments. The aim of these practical is to learn how to perform a complete clinical examination according to predetermined objectives that are recorded in a practical notebook.

Those practicals will take place on Monday mornings and Thursday morning (200 hours – 5 credits).

The validations will be done at the end of each semester (January and May)

2) Introduction to hospital functions (200 hours from June 1<sup>st</sup> to September 30<sup>th</sup> – 5 credits).

Responsible : Pr. P. CORNAERT