UCL Université catholique de Louvain

WBCMM2101

2015-2016

Methods in Haematological Biology

3.0 credits	20.0 h + 10.0 h

Teacher(s) :	Latinne Dominique (coordinator) ; Chatelain Bernard ; Saussoy Pascale ; Mullier François ; Defour Jean-Philippe ; Poirel Hélène ;
Language :	Français
Place of the course	Bruxelles Woluwe
Main themes :	Morphology (5 hours) : - Automated counting of the blood cells - Errors in an Haematological Morphology Lab - Quality control (including the evaluation of an automated haematology counter) - Microscopy : principles, special optical systems, electron microscopy - General morphological methods : harvesting, fixation, differentiation, - Special morphological methods : cytochemistry, cytoenzymology, immunocytochemistry, autoradiography Immuno-haematology (5 hours) : - Blood groups - Irregular anti-erythrocyte allo-antibodies - Anti-erythrocyte auto-antibodies - Pretransfusion cross-matching - Flow cytometry : principles and applications Transfusion (4 hours) : - Blood donation - Organization in a blood transfusion centre - Red cell transfusion - Labile and stable blood components - Transfusion complications Haemostasis (6 hours) : - Routine tests in coagulation - Specific quantitative analysis of factor VIII, von Willebrand, IX, XI, XII, and prenatal diagnosis of haemophilia and von Willebrand disease - Specific quantitative analysis of factor I, II, V, VII, X - Dysfibrinogenemia evaluation - Thrombophilic evaluation - Activation markers in haemostasis - Screening and quantitative analysis of natural and pathological coagulation inhibitors - Control of the efficacy of anticoagulant and anti-aggregation treatment - Evaluation of the fibrinolysis and control of thrombolytic treatment
Aims :	Explanation of the methods used in morphology, immuno-haematology, blood transfusion and haemostasis. Teaching interpretation of the results in relationship with the clinical situations. Quality control and general organization in a Haematology Lab. *The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".*
Content :	Lecture and practice. Practical teaching of the medical doctors and pharmacists in training, about the medical supervision of the emergency tests (haemostasis, blood transfusion and morphology)
Other infos :	Evaluation : -written and oral examination (theory) -practical evaluation after a 6 months training period
Faculty or entity in charge:	MED

Programmes / formations proposant cette unité d'enseignement (UE)				
Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
Advanced Master in Clinical Biology	BCMM2MC	3	-	