


4.00 credits

50.0 h

Q2

Teacher(s)	Boland Lidvine ;Dewulf Joseph ;Fillee Catherine ;Gruson Damien (coordinator) ;Haufroid Vincent ;Maisin Diane ;Van Pesch Vincent ;
Language :	French
Place of the course	Bruxelles Woluwe
Main themes	Preanalytics Analytical methods Quality controls Clinical enzymology List of the major biochemical biomarkers (liver, kidney, cardiac, pancreatic functions, lipids, cystic fibrosis, etc ) Clinical interpretation
Learning outcomes	<p><b>At the end of this learning unit, the student is able to :</b></p> <p>1 Provide students information regarding pre-analytics, analytics and post-analytics phases in clinical chemistry, in an environment of quality assurance. At the end of the session, the future clinical chemist should possess the basis to become a privilege consultant interpreting laboratory results in different pathologies. Pratical aspects will be further illustrated in the lecture BICL2108 Séminaires de Biochimie Médicale et prélèvements sanguins</p>
Content	<p>The first part of the lecture will review all required preanalytical conditions (blood sampling, stability, ). The second part will include assessment of analytical performances (reproducibility, sensitivity, specificity, ROC curve, ). Among general topics, there will be clinical enzymology, Westgard rules, basis of automation, Among specific topics: oligoelements, porphyrias, urinalysis, lipids, proteins, blood gas, cystic fibrosis diagnostic, bone markers, tumor markers, cardiac markers, pancreatic markers, kidney, thyroid, liver... The third part will be dedicate to protocols and validations (hemoglobinopathies, protein electrophoresis, therapeutic drug monitoring, ).</p>
Other infos	Evaluation : written exam Support : slides available on I-campus
Faculty or entity in charge	FARM

<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Advanced Master in Clinical Biology	BICL2MC	4		
Advanced Master in Clinical Biology	BCMM2MC	5		