## wmds1237d UCLouvain

2022

## Pharmacologie générale (partim sciences dentaires)

2.00 credits

20.0 h

Q1

Teacher(s)	Hermans Emmanuel (coordinator);				
Language :	French				
Place of the course	Bruxelles Woluwe				
Learning outcomes					
Evaluation methods	<ul> <li>Written exam that may include multiple-choice questions with reasoning and open-ended and/or short-answer questions.</li> <li>The student must demonstrate mastery of his knowledge and understanding of the concepts.</li> <li>As far as possible, the number of questions or their importance will take care to reflect the importance and or the hourly volumes of each of the parties. The final mark will take into consideration a weighting of the results of each part. Note: for students who do not have the Toxicology part (WMDS1237D), the final mark combines the marks of the Pharmacodynamics and Pharmacokinetics parts in an equivalent way.</li> <li>Any overall average below 10/20 is rounded down.</li> <li>The type of assessment chosen during the 1st exam session may be subject to change depending on the number of students registered for the second session.</li> </ul>				
Teaching methods	Presentation in lectures of concepts, principles and processes with illustrations from concrete examples of drugs commonly used in human medicine.				
Content	1. Introduction and general pharmacodynamics         Mechanisms of action of drugs         Types of receptors/targets         Relationships between receptor binding and pharmacological response         Variability of individual response         Large therapeutic classes         2. Pharmacokinetics.         Reminder of the main concepts (compliance, absorption, distribution, metabolism and excretion)         Description of the main physiological causes of inter-individual pharmacokinetic variability (Age [children, elderly], Pregnancy, Genetic polymorphisms, Drug and environmental interactions)         Description of the main pathological causes of inter-individual pharmacokinetic variability (Renal function, Liver function, Obesity, Evolution of the disease)         3. Toxicology         Basic concepts in toxicology: exposure, dose, danger, risk         Factors determining the toxic response to a xenobiotic         Main mechanisms of toxicity         Antidote concept				
Inline resources	Most of the documents projected during the course are available on the Moodle platform. Reference books are suggested at the start of each part of the course.				
Bibliography	Goodman and Gilman's Pharmacological Basis of Therapeutics, Twelfth Edition, 2010 Casarett and Doull's Toxicology - The basic science of poisons, 9th Edition, 2019 Urs A. Boelsterli - Mechanistic Toxicology: The molecular basis of how chemicals disrupt biological targets, 2r Edition, 2007				
Faculty or entity in charge	MED				

Programmes containing this learning unit (UE)						
Program title	Acronym	Credits	Prerequisite	Learning outcomes		
Bachelor in Dentistry	DENT1BA	2		٩		