

5.00 crédits

30.0 h

Q1



Cette unité d'enseignement n'est pas accessible aux étudiants d'échange !

Enseignants	. SOMEBODY ;Elens Laure (coordinateur(trice)) ;Hermans Emmanuel ;
Langue d'enseignement	Anglais
Lieu du cours	Bruxelles Woluwe
Thèmes abordés	This course provides a comprehensive overview of pharmacokinetics and pharmacodynamics, covering routes of drug administration, physicochemical properties, drug behavior at the molecular level, and ADME mechanisms. It also explores PK parameters, dose-response models, variability in PK/PD, and changes in special patient populations. Additionally, it includes an introduction to compartmental versus non-compartmental methods of analysis.
Acquis d'apprentissage	
Modes d'évaluation des acquis des étudiants	Written exam during exam period
Méthodes d'enseignement	Lectures 20 Lectures (1h30 or 3h) Courses are given in 7 days in the beginning of Block 1 spread over 3 weeks (W1-3) <u>Practical aspects</u> are covered in IW1 (WPMTX2005) hands-on On Woluwe campus
Contenu	<u>Module I : Pharmacodynamics</u> 1. Generalities (MOA, receptors...) 2. Pharmacological response 3. Different classes of drugs 4. Notion of biomarkers 5. Dose-Response relationships (Hill, scale of action and response, hysteresis...) 6. Synergy, potentialization, antagonism, additivity 7. Influencing factors (extrinsic and intrinsic) <u>Module II : Pharmacokinetics</u> 1. Generalities 2. PK parameters and interpretation 3. PK and PD experimental models 4. NCA and CA + ODE 5. Drug Absorption, Distribution, Metabolism & Excretion 6. Influencing factors 7. Steady state and TDM <u>Module III : Special populations</u> 1. Obese patients 2. Neonates and pediatrics 3. Pregnant woman 4. Elderly 5. Critically ill
Autres infos	Slides available on Moodle .
Faculté ou entité en charge:	FARM

Programmes / formations proposant cette unité d'enseignement (UE)				
Intitulé du programme	Sigle	Crédits	Prérequis	Acquis d'apprentissage
Advanced master in pharmacometrics	PMTX2MC	5		