ECVPT Pharmacokinetics Workshop 2023: basic concepts for future professionals (foundation module) Tentative programme

DAY 1 Monday, 27th March 2023
Activity description

		DAT I Monday, 27th March 2025	
Time	Activity	Activity description	Academic staff
13:00-13:30		Meet and Greet - Overview of the course	
13:30-14:30	Lecture 1	Rationale for the effective use of	VARIOUS
		pharmacokinetics and pharmacodynamics in	LECTURERS (PLT)
		drug development	, ,
14:30-15:00	Lecture 2	What needs to be validated for an analytical	VARIOUS
		technique ; Statistical methods to test Linearity,	LECTURERS (LP)
		accuracy, precision, agreement of an analytical	
		technique	
15:00-15:30		Afternoon break, coffee	
15:30-16:00	Lecture 3	Body clearance: underlying concepts	VARIOUS
			LECTURERS (PLT)
16:00-17:30	Lecture 3	Body clearance: an overview	VARIOUS
			LECTURERS (PLT)
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17:30-18:00	Exercise 1	Building and validation of a calibration curve	VARIOUS TUTORS
	(start)	with Phoenix/WinNonlin; Notion of residuals,	(LP)
		weighting factors as proposed by Phoenix/WNL but	
		also 1/X and 1/X^2 using a user vector, back	
		calculations, including with an equation having a	
		quadratic components etc.	
18:00		End of the day	
Evening	Exercise 1	Building and validation of a calibration curve	VARIOUS TUTORS
exercise	(continuation)	with Phoenix/WinNonlin;	LP (access to room
			after 18h)

DAY 2 Tuesday, 28th March 2023

Time	Activity	Activity description	Academic staff
8:30-09:30	Lecture 4	The half-life: an overview	VARIOUS LECTURERS (LP)
09:30-10:30	Lecture 5	Volume of distribution: an overview	VARIOUS LECTURERS (PLT)
10:30-11:00	Morning break, coffee		
11:00-12:00	Lecture 6	Bioavailability (rate and extent): protocols (plasma, urine, metabolites), estimation, interpretation	VARIOUS LECTURERS (LP)
12:00-13:30	Lunch		
13:30:14:30	Lecture 7	Non compartmental analysis	VARIOUS LECTURERS (ABM)
14:30-16:00	Exercise 2	A test exercise to illustrate NCA with physiological interpretation	VARIOUS TUTORS (ABM LP PLT)
16:00-16:30	Afternoon break, coffee		
16:30-18:00	Lecture 8	Plasma protein binding: an overview	VARIOUS LECTURERS (ABM)
Evening	Dinner at the Brookmans park hotel		

DAY 3 Wednesday, 29th March 2023 Activity description

Time	Activity	Activity description	Academic staff
08:30-09:30	Exercise 3	Estimation of Bmax, Kd and NS using linear and Non Linear regression: application to clinical situations	VARIOUS TUTORS (PLT LP)
09:30-10h30	Lecture 9	Modeling: goal, main concepts, usefulness, limitsof different classes of PK models (The primary goal is to review 1- and multi-compt models)	VARIOUS LECTURERS (PLT)
10:30-11:00	Morning break, coffee		
11:00-12:00	Exercise 4 (start)	Phoenix WinNonlin: one compartment model , IV dosing and oral dosing	VARIOUS TUTORS (LP PLT)
12:00-13:30	Lunch		
13:30-15:30	Exercise 4 (continuation)	Phoenix WinNonlin: one compartment model , IV dosing and oral dosing	VARIOUS TUTORS (LP PLT)
15:30-16:00		End of the workshop / debriefing / evaluations	LP PLT