

Draft Schedule - Clinical Pharmacokinetics in theory and practice: *Introductory course*

Time and Day	Monday March 17	Tuesday March 18	Wednesday March 19	Thursday March 20	Friday March 21
08:15-08:30		Reflection	Reflection	Reflection	Reflection
08:30-09:15		Physiol. concepts: Absorption and bioavailability OB	Protein binding OB	Pharmacological response: The Hill equation OB	Neonatal PKPD TBD
09:15-10:00	Coffee & registration	Kinetics of PO single dose, Secondary parameters OB	High/Low extraction Intrinsic clearance OB	Response: Delays, Indirect response OB	Introduction to Population Pharmacokinetics TBD
10:00-10:30	General intro SR & OB	Coffee & Tea	Coffee & Tea	Coffe & Tea	Coffe & Tea
10:30-11:15	Overview of PK&PD OB & SR	Kinetics of IV constant infusion SR	Non-linear PK Toxicokinetics OB	Hands-on-lab: Response	Pharmacogenetics TBD
11:15-12:00	Physiol. concepts: Distribution OB	Kinetics of repeated administration (IV & PO) SR	Allometry and scaling OB	PK interactions TBD	Pharmacotherapy in elderly - implications of ageing PR
12:00-13:00	Lunch	Lunch	Lunch	Lunch	Lunch
13:00-13:45	Physiol concepts: Clearance OB	Controlled release Metabolite kinetics NCA work flow OB	Measuring PK: Flaws and errors OB & SR	TDM for better and for worse - the truth of trough SR	Hands-on-lab: How to dose based on TDM? SR
13:45-14:30	Physiol. concepts: Renal and hepatic elimination SR	Hands-on-lab: Multiple dose PK	Hands-on-lab: Flaws and errors How to present PK data	Bioequivalence studies Interaction studies SR	Presentation and discussion of the lab
14:30-15:00	Tea & Coffee	Tea & Coffee	Tea & Coffee	Tea & Coffee	Tea & Coffee
15:00-15:45	Kinetics of IV single dose OB	Cont. Hands-on-lab: Multiple dose PK	Hands-on-lab: Scaling	Journal Club: Interaction & Bio-equivalence SR	Course evaluation Distribution of home exam
15:45-16:30	Hands-on-lab: Single dose IV-PK	Presentation and discussion of the lab	Presentation and discussion of the lab	Presentation and discussion of the lab	
		Course Dinner at 18.30 Venue TBD			

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When	On-site course March 17-21, 2025 Home exam to be submitted before April 7, 2025
Venue	Room 4I, "Takterassen", Alfred Nobels Allé 8, Karolinska Institutet, Campus Flemingsberg "Takterassen" is located on the bottom floor (level 4) just at the border between the KI and the hospital buildings
Language	All lectures and labs will be held in English. Answers to the final examination can be submitted in English, Swedish or German.
Course Dinner	at a restaurant to be decided in Stockholm Tuesday March 18 at 18.30. Included in the course fee.
Teachers	
OB	Olof Breuer
SR	Staffan Rosenborg
TBD	to be decided
Course fee	10.000 SEK 50% academic discount for participants from non-commercial healthcare providers or academia