

#### Module 4 : Clinical Pharmacokinetics and Therapeutic Drug Monitoring (3.6 ECTS/2CSU)

<b>Clinical Pharmacokinetics and Therapeutic Drug Monitoring</b>	
Code/ Status	: MFK 607/Compulsory
Module level	: Master
Semester	: 1
Module Coordinators/ Lecturers	: Djoko Wahyono Purwantiningsih
Language	: Indonesian
The format/class hours per week during the semester	: Case-based lecture, Classroom Lecture, practice-based lecture; 100 minutes/weekly and 16 weeks during the semester.
workload	: 100 minutes of in-class lectures, 120 minutes of structured activities, 120 minutes of weekly self-study
Credit points	: 3.6 ECTS/2 CSU
Requirements	: No
Learning goals/ Course Outcomes	: Students are able to: 1. understand the basic principles of clinical pharmacokinetics on various routes of drug administration 2. interpret drug therapy outcomes and design dosage regimens based on drug levels in the blood
Content	: The course of Clinical Pharmacokinetics and Therapeutic Drug Monitoring deals with the principles of clinical pharmacokinetics in the drug by the route of continuous infusion, intermittent infusion, repeated intravenous bolus, repeated oral and application of TDM on drugs with the route of administration.
Study/exam achievements	: A-E, 70% Midterm and 30% final exam
Forms of media	: Face to face instruction, Slides, Board, internet
Literature	: 1. Benet LZ, Massoud N, Gambetoglio JG (1984) Pharmacokinetic Basis for Drug Treatment, Raven Press, New York 2. Dasgupta A (2008) Introduction to Therapeutic Drug Monitoring. Dalam Dasgupta A (ed) Handbook of Drug Monitoring Methods - Therapeutics and Drugs of Abuse. Humana Press, Totowa NJ 3. Hakim L (2012) Farmakokinetik Klinik. Bursa Ilmu, Yogyakarta 4. Kashuba ADM, Park JJ, Persky AM, Brouwer KLR (2006) Drug etabolism, Transport, and the Influence of Hepatic Disease. Dalam Burton ME, Shaw LM, Schentag JJ, Evans (eds) Applied Pharmacokinetics and Pharmacodynamics – Principles of Therapeutic Drug Monitoring. 4th ed., Lippincott Williams & Wilkins, Philadelphia 5. Rowland M & Tozer TN (1995) Clinical Pharmacokinetics : Concepts and Applications, 3rd ed., Lippincott Williams & Wilkins, A Wolters Kluwer Co., Philadelphia 6. Shargel L, Wu-Pong S & Yu ABC (2005) Applied Biopharmaceutics and Pharmacokinetics. 5th ed., McGraw-Hill Medical Publishing Division, Boston 7. Winter ME (1994) Basic Clinical Pharmacokinetics, 3rd ed., Applied

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Therapeutics, Inc., Vancouver

8. Cohen H (2015) Casebook in Clinical Pharmacokinetics and Drug Dosing, McGraw-Hill Education, Medical Publishing Division, United States of America
  9. Birkett DJ (2009), Pharmacokinetics made easy, Pocket Guide, North Ryde, N.S.W. : McGraw-Hill Australia
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