

# PHARMACOKINETICS / PHARMACODYNAMICS

## CLINICAL PHARMACOLOGY DIDACTICS

### SYLLABUS

Date	Chapters and Topics	Instructors / Discussion Leaders
August 18, 2017	Drug Measurement 1	Dr. David Jones
August 25, 2017	NO CLASS - NonMem Workshop	
September 1, 2017	Drug Measurement 2; Validation of Drug Assays	Dr. David Jones
September 8, 2017	Basic Concepts of PK/PD Part 1	Dr. Brandon Gufford
September 15, 2017	Basic Concepts of PK/PD Part 2	Dr. Brandon Gufford
September 22, 2017	CH 1,2 Therapeutic Relevance; Fundamental Concepts and Terminology; Appendix A Assessment of AUC	Dr. Rich Bergstrom
September 29, 2017	CH 3 Kinetics Following and Intravenous Bolus Dose Appendix H Mean Residence Time	Dr. Kevin Sowinski
October 6, 2017	CH 4, 19 Membranes and Distribution; Distribution Kinetics Appendix B Ionization an pH Partition Hypothesis; Appendix C Distribution of Drugs Extensively Bound to Plasma Proteins	Dr. Sara Quinney
October 13, 2017	<b>Course Material Review and Integration Session</b>	Drs. Bergstrom, Sowinski, Quinney, Overholser, Gufford
October 20, 2017	CH 6 Kinetics Following an Extravascular Dose; Appendix F Absorption Kinetics; Appendix G Wagner-Nelson Method	Dr. Kevin Sowinski
October 27, 2017	CH 5 Elimination; Appendix D Plasma-to-Blood Concentration Ratio; Appendix E Well-Stirred Model of Hepatic Clearance	Dr. Brian Overholser
November 3, 2017	NO CLASS - Symposium	
November 10, 2017	CH 7 Absorption; Appendix F Absorption Kinetics; Appendix G Wagner-Nelson Method	Dr. Kevin Sowinski and Dr. Brandon Gufford
November 17, 2017	CH 8, 9 Response Following a Single Dose; Therapeutic Window	Dr. Brian Overholser
November 24, 2017	NO CLASS – Thanksgiving Break	
December 1, 2017	CH 10 Constant-Rate Input	Dr. Rich Bergstrom
December 8, 2017	Chaper 11 Multiple Dose Regimens and Course Material Review and Integration Session	Drs. Bergstrom, Sowinski, Quinney, Overholser
December 15, 2017	CH 20 Metabolite and Drug Response	Dr. Brian Overholser
December 22, 2017	NO CLASS	
December 29, 2017	NO CLASS	
January 5, 2018	CH 12, 13, 14, 15 Variability; Genetics; Age, Weight, Gender, Disease	Dr. Sara Quinney
January 12, 2018	<b>No Class - Weather</b>	
January 19, 2018	CH 16 Nonlinearities	Dr. Sara Quinney
January 26, 2018	CH 22 Prediction and Refinement of Human PK	Dr. Rich Bergstrom
February 2, 2018	<b>Overall Course Review and Topic Integration</b>	Drs. Bergstrom, Sowinski, Quinney, Overholser, Gufford
February 12, 2018	TAKE HOME FINAL EXAMINATION DUE	Drs. Bergstrom, Sowinski, Quinney, Overholser, Gufford

Material from other chapters in the textbook and in the appendices of the textbook may be assigned and used during any of the sessions as there is time and when the topics are applicable.

Instructors and Discussion leaders assigned each week will help guide the specific session but all instructors have agreed to attend as many of these didactic sessions as their personal schedules permit.