PCEUT 532-P CLINICAL PHARMACOKINETICS LECTURE SCHEDULE – WINTER QUARTER 2018

## Mon., Wed., Thurs., Fri. – 11:30-12:20, MWF T739 Th T639

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| DATE | Lecture # | day | **LECTURER** | **TOPICS** |
| Jan 3 | 1 | W | NI | Introduction to Pharmacokinetics, Input exposure relationship  |
| Jan 4 | 2 | Th  | NI | IV Kinetics, First order elimination, half-life |
| Jan 5 | 3 | F  | NI | IV kinetics, volume of distribution, extent of distribution |
| Jan 8 | 4 | M | NI | IV kinetics, Clearance and half life |
| Jan 10 | 5 | W | NI | IV kinetics, 2-compartment model  |
| Jan 11 | 6 | Th  | NI | IV kinetics, Integration  |
| Jan 12 | 7 | F  | NI | Clearance concepts 1: Elimination Pathways |
| Jan 15 |  | M | NI | **MLK day Holiday**  |
| Jan 17 | 8 | W  | NI | Clearance concepts 2: Urinary kinetics |
| Jan 18 | 9 | Th  | NI | Clearance concepts 3: Organ clearance and extraction ratio |
| Jan 19 | 10 | F | NI | Review  |
| Jan 22 | 11 | M | TA/ NI | **Midterm I (20%) (lectures 1-10)** |
| Jan 24 | 12 | W  | JDU | First Pass Effect and bioavailability  |
| Jan 25 | 13 | Th  | JDU | Oral Kinetics  |
| Jan 26 | 14 | F | JDU | Dosage Regimens I  |
| Jan 29 | 15 | M | JDU | Dosage Regimens II |
| Jan 31 | 16 | W  | JDU | Dosage Regimens III |
| Feb 1 | 17 | Th  | JDU | Dosage Regimens IV |
| Feb 2 | 18 | F | GA | Bioequivalence (immediate release, controlled release and clinical significance) I |
| Feb 5 | 19 | M | JW | Membrane Barriers and Drug Transporters I |
| Feb 7 | 20 | W  | JW | Membrane Barriers and Drug Transporters II |
| Feb 8 | 21 | Th  | JW | Renal Clearance  |
| Feb 9 | 22 | F | TA/ JDU | Review |
| Feb 12 | 23 | M | JDU /GA/JW | **Midterm II (20%)(lectures 12-22)** |
| Feb 14 | 24 | W  | NI | Clearance concepts 4: Intrinsic Clearance |
| Feb 15 | 25 | Th  | NI | Clearance concepts 5: Hepatic clearance |
| Feb 16 | 26 | F | NI | Clearance concepts: Integration/Review |
| Feb 19 | 27 | M |  | **Presidents day Holiday**  |
| Feb 21 | 28 | W  | NI | Metabolite Kinetics I |
| Feb 22 | 29 | Th  | NI | Metabolite Kinetics II |
| Feb 23 | 30 | F | NI | Michaelis-Menten and nonlinear Kinetics I |
| Feb 26 | 31 | M | NI | Michaelis-Menten and nonlinear Kinetics II |
| Feb 28 | 32 | W  | NI | **Midterm III (20%) (lectures 24-31)** |
| Mar 1 | 33 | Th  | JDU | Pharmacokinetic-pharmacodynamic relationships 1 (Exposure response relationships) |
| Mar 2 | 34 | F | JDU  | Pharmacokinetic-pharmacodynamic relationships 2 |
| Mar 5 | 35 | M | JDU | Integration of PK principles I |
| Mar 7 | 36 | W  | JDU | Integration of PK principles II |
| Mar 8 | 37 | Th  | GA | Individualization of drug dosages and TDM |
| Mar 9 | 38 | F | TA/NI | Comprehensive Review  |
| Mar 14 |  | W | GA/JDU/NI | COMPREHENSIVE FINAL 40% (Time: 2:30-4:20pm)  |

Syllabus: Pceut532/Winter2018