

Pharmacokinetics –PHAR 7834. <https://www.boomer.org/c/p4/?Loc=OUHSC33> . Accessed 29 March 2023.

This is a rich source of pharmacokinetics modeling activities and data. These are syllabus notes with homework assignments listed.

1. [Online Resources](#)
2. [Background Mathematical Material](#)
3. [Biopharmaceutics and Pharmacokinetic Introduction](#)
4. [One Compartment IV Bolus](#)
5. [Analysis of Urine Data](#)
6. [Intravenous Infusion](#)
7. [Routes of Drug Administration](#)
8. [Pharmacokinetics of Oral Administration](#)
9. [Calculation of Bioavailability Parameters](#)
10. [Bioavailability Studies](#)
11. [Physiological Factors Affecting Oral Absorption](#)
12. [Physical-Chemical Factors Affecting Oral Absorption](#)
13. [Formulation Factors](#)
14. [Multiple IV Bolus Dose Administration](#)
15. [Multiple Oral Dose Administration](#)
16. [Routes of Excretion](#)
17. [Metabolism](#)
18. [Drug Distribution](#)
19. [Multi-Compartment Pharmacokinetic Models](#)
20. [Noncompartmental Analysis](#)
21. [Non-Linear Pharmacokinetic Models](#)
22. [Non-Linear Regression Analysis of Pharmacokinetic Data](#)
23. [Pharmacodynamic and Physiologically Based Pharmacokinetic Models](#)
24. [Pharmaceutical Analysis](#)
25. [Clinical Applications of Pharmacokinetics](#)

Keywords: differential equation, model, pharmacokinetics, compartment drug, bolus, dose