

Typical Questioner in Basics of Pharmacokinetics

1. What does the pharmacokinetics study? Describe the aims and objectives.
2. Write the pharmacokinetic study organization and research steps.
3. Which are the physico-chemical factors affecting absorption of drugs?
4. List the parameters used in pharmacokinetic studies. What is the half-elimination period?
5. Describe the most simple compartmental mode.
6. Describe the phases of drug biotransformation.
7. Describe the process of oxidation with CYP 450.
8. List the liver enzyme inductors and inhibitors. Are induction and inhibition reversible?
9. Which are the main determinants of V_d ? How is the Volume of distribution measured?
10. How the drugs are distributed from blood into different tissues?
11. Describe placental barrier. What kind of drugs can penetrate this barrier?
12. What is elimination rate of drugs and how it is measured?
13. What is hepatic extraction ratio?
14. Describe systemic and pre-systemic clearance of drugs.
15. What is active tubular secretion? What kind of active transports are involved in tubular secretion?
16. How to predict renal excretion mechanism and possible drug interactions?
17. What determines the half-life of drugs?
18. What is the first-pass effect and how it affects on bioavailability of drugs?
19. What is the bioequivalence of the drugs and how it is used?
20. What is low and high hepatic extraction ratio and how it affects on bioavailability of drugs?