TDM and Toxicology Review

1. The term pharmacokinetics refers to?

2. The term pharmacodynamics refers to?

3. What are the 5 pharmacological parameters that determine serum drug concentration?

4. Describe first pass metabolism?

5. For drugs with first-order elimination what factor(s) determine elimination rate?

6. After how many half-lives can steady-state conditions be expected?

7. At what time should trough levels of a drug be drawn?

8. What screening test for DATs commonly uses a point-of-care approach and is identified by the usage of a specimen's R_f

9. What method of testing uses bi-chromatic analysis to quantify carboxyhemoglobin

10. What are the pre-analytic variables that need to be taken into account when testing for legal blood alcohol?

11. What is the reference method for lead testing?

12. Describe the acid-base imbalance created by salicylate overdose

13. What is the most frequent cause of lower than expected TDM values?

14. Describe the concept of a pro-drug.

15. What is the major side-effect of chloramphenicol administration?

16. What form must drugs be in to exert their effects upon their site of action?

17. Why do we not measure Digoxin peaks 2 hours after administration?

18. What metabolite is also simultaneously measured along with procanimide?

19. What metabolite of cocaine is routinely measured by immunoassay as a screening test?

20. Digoxin is used in the treatment of what disease?

21. What may the sub-acute signs of lead poisoning be?

22. Please describe the consequences of a low total protein and albumin on pharmacokinetics of drugs?