

QUESTIONS ON THE PRESENTATION

“Clozapine Case 6: Half Life” (1-16-16)

Please select the single best choice.

1. After stopping a drug:
 - A. An exponential decay is usually assumed.
 - B. It takes 5 half-lives to eliminate 95% of the serum concentration.
 - C. It takes 7 half-lives to eliminate 99% of the serum concentration.
 - D. All of the above are correct.

2. An exponential decay is assumed for a drug with a serum concentration of 800 ng/ml.
 - A. After 1 half-life the serum concentration is expected to be 400 ng/ml.
 - B. After 3 half-lives the serum concentration is expected to be 100 ng/ml.
 - C. After 5 half-lives the serum concentration is expected to be 25 ng/ml.
 - D. All of the above are correct.

3. After dose increasing, you should wait at least 5 half-lives to collect a blood level from a drug:
 - A. True.
 - B. False.

4. When a drug has a half-life between 8-24 hours, they are usually administered every half-life:
 - A. True.
 - B. False.

5. You are going to stop a drug in a patient, it may help to approximate how long is going to take to be completely eliminated if you know:
 - A. The drug half-life.
 - B. If the patient has an abnormally high or low serum concentration.
 - C. If the drug is deposit in fat tissue or not.
 - D. All of the above are correct.

6. A psychiatric drug is administered once a day. You should wait at last 5 half-lives but it may be a good idea to wait one week (7 half-lives) after a dose change to draw a blood level.

- A. True
- B. False

7. Regarding a drug half-life:

- A. It will be reduced by an inducer.
- B. It will be increased by an inhibitor.
- C. It may be influenced by a genetic variation associated with poor metabolism
- D. All of the above are correct.

8. Regarding the duration of the effects of drug with an active metabolite, you do not need to pay attention to the half-life of the active metabolite.

- A. True
- B. False

9. Regarding norfluoxetine, fluoxetine metabolite:

- A. It contributes to the inhibitory effects of fluoxetine on the cytochrome P450 isoenzymes.
- B. It last in average 2-3 months in the body
- C. It may stay up to 6 months in unusual patients
- D. All of the above are correct.

10. If you know the half-life of an inducer you can predict the duration of the inductive effects on a metabolic enzyme after the discontinuation of the inducer:

- A. True
- B. False