

QUESTIONS ON THE PRESENTATION

“Clozapine Case 5: High Clozapine Doses” (1-2-16)

Please select the single best choice.

1. If you want to correct the clozapine dose for the effect of an inducer, you need to:
 - A. Decrease the clozapine dose after adding an inducer.
 - B. Increase the clozapine dose after discontinuing an inducer.
 - C. Consider phenytoin and phenobarbital to be powerful inducers.
 - D. All of the above are correct.
2. Regarding pharmacokinetic drug-drug interactions with clozapine:
 - A. Inducers tend to increase clozapine's blood concentration.
 - B. Inhibitors tend to decrease clozapine's blood concentration.
 - C. Inhibitors may decrease clozapine's metabolism, and inducers may increase its metabolism.
 - D. Inhibitors may increase clozapine's metabolism, and inducers may decrease its metabolism.
3. The main CYP for clozapine (and olanzapine) metabolism has been thought to be:
 - A. CYP3A.
 - B. CYP2D6.
 - C. CYP2C9.
 - D. CYP1A2.
4. Nicotine is an inducer of CYP1A2 metabolism:
 - A. True
 - B. False
5. Regarding clozapine metabolism:
 - A. Fluvoxamine is a powerful inhibitor.
 - B. Ciprofloxacin may be an inducer.
 - C. Tobacco smoking is an inhibitor.
 - D. All of the above are correct.

6. The concentration-to-dose (C/D) ratio is calculated by dividing the serum concentration by the dose and is an approximate measure of the metabolism of that drug and how the drug is cleared from the body.

- A. True
- B. False

7. Regarding clozapine inducers:

- A. Rifampin is a powerful inducer.
- B. Omeprazole may be a mild inducer.
- C. Cannabis smoking may be an inducer.
- D. All of the above are correct.

8. The three major antiepileptic drug inducers are:

- A. Valproate, topiramate and levetiracetam.
- B. Valproate, phenytoin and phenobarbital.
- C. Carbamazepine, phenytoin and phenobarbital.
- D. Carbamazepine, oxcarbazepine and topiramate.

9. Aspirin can augment valproate toxicity by:

- A. Increasing total valproate concentrations.
- B. Decreasing valproate metabolism by inhibiting β -oxidation.
- C. Increasing free valproate concentrations by protein displacement.
- D. All of the above are correct.

10. With 300 mg/day of clozapine, the steady state serum clozapine concentration is 600 ng/ml. The C/D ratio is:

- A. 1.
- B. 10.
- C. 0.5.
- D. 2.