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QUESTIONS ON THE PRESENTATION

"Valproate Case 3 Formulations" (2-13-16)

Please select the single best choice.

- 1. When you study valproate effects on the pancreas to understand the pharmacological mechanisms explaining valproate-induced pancreatitis, you are studying valproate pharmacokinetic mechanisms.
 - A True B False
- 2. Regarding valproate kinetics in serum:
 - A. Total concentration does not follow linear kinetics.
 - B. In total therapeutic concentrations, free concentrations increase linearly with dose increases.
 - C. In high doses, total concentrations do not increase proportionally with dose increases but increase less than you would expect if total concentrations followed linear kinetics.
 - D. All of the above are correct.
- 3. Regarding valproate metabolism:
 - A. In low doses, β -oxidation may be the most important pathway.
 - B. In high doses, glucuronidation may be the most important pathway.
 - C. Several CYPs contribute in a relative minor way to valproate metabolism.
 - D. All of the above are correct.
- 4. All divalproex sodium formulations are equivalent in bioavailability.
 - A. True
 - B. False
- 5. Drugs that can decrease serum valproate levels are:
 - A. Oral contraceptive estrogens.
 - B. Rifampin.
 - C. Carbanapem antibiotics.
 - D. All of the above are correct.

- 6. Regarding valproate pharmacodynamic drug-drug interactions:
 - A. Adding valproate to antipsychotics may increase risk of weight gain.
 - B. Adding topiramate to valproate increases risk of sedation and of some rare adverse drug reactions such as hypothermia or hyperammonemia.
 - C. The combination of valproate and clonazepam has been associated with absence seizures.
 - D. All of the above are correct.
- 7. Regarding valproate pharmacokinetics:
 - A. With higher total concentrations, valproate has a higher percentage of free concentrations and is metabolized faster.
 - B. The protein-bound fraction is the one that is metabolized.
 - C. Total concentrations always reflect free concentrations well.
 - D. All of the above are correct.
- 8. Valproic acid formulations need to be taken with large amounts of water or food to avoid gastrointestinal upset.
 - A. True
 - B. False
- 9. Valproate is frequently associated with teratogenicity.
 - A. True
 - B. False
- 10. Valproate can contribute to lamotrigine-induced Stevens-Johnson syndrome by decreasing lamotrigine metabolism. Therefore, you should prescribe lower initial doses of lamotrigine for patients taking valproate.
 - A. True
 - B. False