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课程

山东医科大学试

7年制
成绩

22

学号

年 级

班 次

姓 名

FINAL EXAMINATION OF PHARMACOLOGY 1992-07-02 7-YMS-1988

PART I CHOICE QUESTION (70)

TYPE A

1. After repeated administration of phenobarbital sodium, the patients complain the drug is useless, this phenomenon is called tolerance of drug which is caused by
- A. inhibition of receptors
B. inhibition of microsomal enzyme system.
C. stimulation of excretion
D. increase the binding of plasma protein
E. lowering of bioavailability.
2. One drug is eliminated with the first-order kinetics, $t_{1/2} = 3$ h. If measured the drug's concentration of plasma is 75 ug/ml at 8:00 Am, how much is the drug concentration at 8:00 Pm.
- A. 75 ug/ml. B. 37.5 ug/ml.
C. 12.5 ug/ml. D. 4.68 ug/ml.
E. 2.37 ug/ml.
3. The maximum effect (E_{max}) that a drug can be achieved by is a measurement of
- A. potency
B. the quantal response.
C. efficacy.
D. antagonist magnitude.
E. the therapeutic index (TI).
4. One drug is eliminated with zero-order kinetics, what is the equation of describing the relationship between $t_{1/2}$ and k
- A. $t_{1/2} = 0.693/k$. B. $t_{1/2} = 2C_0/k$
C. $t_{1/2} = 0.5C_0/k$ D. $k = 0.5C_0/t_{1/2}$
E. $k = 0.693/t_{1/2}$
5. All of the following statement about efficacy and potency are true EXCEPT
- A. the ED_{50} is a measurement of a drug's efficacy.
B. efficacy is usually a more important clinical consideration than potency.
C. efficacy is indicated by the height of the log dose-response curve.
D. drug that produce a similar pharmacological effect can have very different levels of efficacy.
E. on a log dose-response curve, two drugs with the same action but with different potencies will usually have parallel curve.
6. One weak acidic drug with $pK_a = 5.4$, if the stomach juice $pH = 1.4$, blood plasma $pH = 7.4$, when the distribution reach to equilibrium, what is the drug concentration proportion between blood plasma and stomach juice
- A. 50. B. 100
C. 1000. D. 10000.
E. 0.1.
7. Which of the following statement concerning drug action is true
- A. gamma globulin can bind to a drug and serve as a drug receptor.
B. drug can't act unless it is first bound to a receptor.
C. drug can't act unless it is first released from a receptor.
D. a drug can act as an antagonist it has efficacy with receptor but no intrinsic activity
E. drug receptors play a role in the bioav-