

Pharmacology First



BAU#1

1) about Volume of distribution all of the next statement is correct except :

- Volume of distribution is influenced by body composition
- Relates the amount of the drug in the body to the con. of the drug in the blood
- reflect the physiological volume*
- binding of a drug to plasma proteins reduce the Vd

2) In Jordan we follows:

- British pharmacopeia *
- US pharmacopeia
- Jordanian pharmacopeia
- Indian pharmacopeia

3) Act of a drug on the body is :

- Pharmacoepidemiology
- Pharmacokinetics
- Pharmacodynamics*
- Pharmacotherapeutics

4) Two drug formulations are bioequivalent if they show comparable bioavailability and similar times to achieve peak blood concentrations:

- Therapeutic equivalence
- Bioequivalence*
- bioavailability
- none of the answers
- activator

5) Which from the next doesn't count as drug related problems:

- Sub therapeutic dosage
- Adverse drug reactions
- **Frequent doses more than 3 times a day***
- Interactions

6) all of these cause patient poor compliance except:

- **detailed directions from the doctor to the patient ***
- Disabling adverse effects occur
- Polypharmacy
- Patient forgets to take drug

7) Deals with the study of inherited differences in the drug metabolism or drug response in humans is :

- **Pharmacogenomics ***
- OTC drugs
- orphan drugs
- essential drugs

8) one of these sentences is correct regarding drug development and approval:

- Phase II Conducted on 20-80 healthy men with ages 18-45 years
- drug development and approval is an easy and economic
- Phase III is the Post-marketing studies
- **phase III large populations of selected patients are examined to determine the therapeutic efficacy ***

9) which type of agonists acts away from tissues or receptors:

- **Chemical antagonist***
- Physiological antagonist
- Pharmacological antagonist
- None of the above

10) what is true about Tachyphylaxis:

- **repeated use of short dose intervals ***
- due to receptor down-regulation
- receptor super sensitivity
- due to receptor up-regulation

11) what is correct regarding the median lethal dose :

- the dose required to produce a particular toxic effect in 50% of population
- when it's increased that means the drug is safer
- **when it's decreased that means the drug is safer***
- more than one answer

12) what is not correct regarding the allergic reactions:

- **it's a predictable adverse effect of drugs ***
- have no dose-response relation
- due to activation of immune mechanisms by drug
- they are of 4 main types

13) what is correct regarding teratogenicity:

- may be related to mutagenicity
- **it appears as congenital diseases caused by drugs taken in pregnancy ***
- occurs with prolonged use of CNS depressants
- none of the above

14) what is correct regarding drug metabolism:

- fatty acid responsible for metabolism of drugs
- The kidney is the major site for drug metabolism
- **total clearance is the sum of the clearance from various drug metabolizing organs***
- classified as phase-I, phase-II and phase III

15) one of these doesn't affect the distribution :

- Capillary permeability
- Protein binding
- **Rout of administration***
- Regional blood flow

16) where is it most likely to dissolve for a weak acid drug :

- duodenum (pH=5.7)
- stomach (pH=2.5)*
- **jejunum (pH=7.6)**
- ileum (pH=8.4)

17) one of these processes is used in the phase II of metabolism :

- dehydration
- reduction
- **glucuronidation***
- oxidation
- hydrolysis

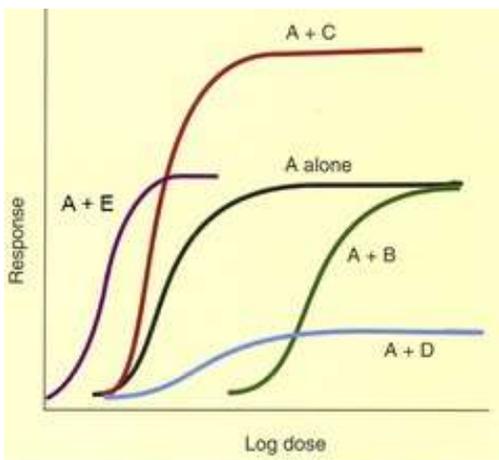
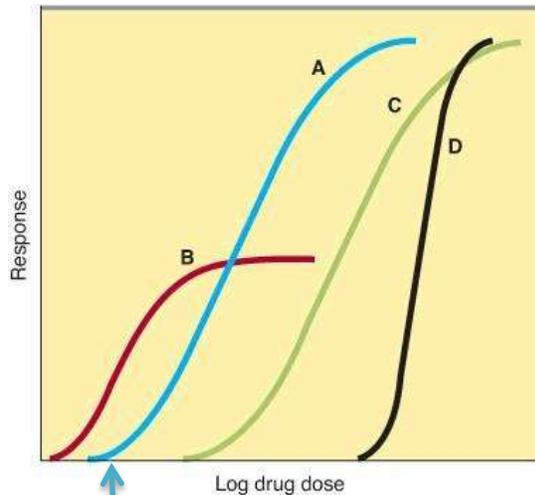
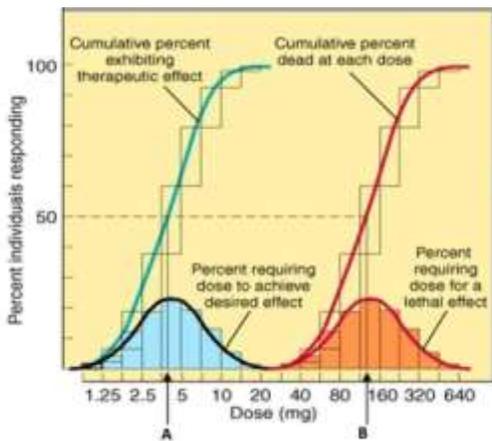
18) Drugs are generally administered to maintain a C_{ss} within the therapeutic window:

- Loading dose
- **Maintenance dose***
- INTERMEDIATE DOSE
- None of the above

19) what is incorrect regarding the absorption :

- **the bioavailability for both the IV and the oral is 100%***
- s

20) calculate the loading dose (V_d & Cl where given in the question) :



Some Question about these Pic

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Good Luck