

1-drug discovery & development usually starts with :

-preclinical studies on tissues and animals

-an idea or a hypothesis

-phase 0 clinical drug trials

-acute toxicity studies

-bioavailability – bioequivalence studies

2-phase 0 clinical drug trials are characterized by all of the following except :

-approved by US ,FDA and designed to speed up the development of promising drugs -include using subtheraputic doses of a given drug to a small number of normal subject (10-15) -provide useful data on drug's pharmacokinetics and pharmacodynamics of the drug under study -provide good data on the safety and efficacy of the tasted drug

- considered by some drug authorities not useful and ethically un acceptable

3-which of the following is true about IV administration of drugs :

-all druges can be given by this route

-it's the safest route

-it provides rapid action & higher blood pressure

-as compared to oral route , drugs given by this route have less sides effects

-it is preferred route by most patients

4-all of the following are considered therapeutic uses to drugs , except :

-prevention of diseases

- control of diseases

-diagnosis of diseases

-produce addiction

- treatment of diseases

5-which one of the following will increase the plasma half-life of a drug :

-induction of its metabolism

-decrease in renal clearance

-decrease in apparent volume of distribution (AVD)

-shift in % bound to plasma protein from 30 to 50%

-an increase in renal blood flow

6-the following drug interferes with the renal active secretion :

- -porpranolol
- -lindocaine
- <mark>probenecid</mark>
- -aspirin

-neostigmine

7-the major factor affecting metabolism of a drug is :

-the given dose

-route of administration

-drug size

-protein binding

-genetic factors

8-mixed-function oxidase system (cytochrome p450 path the following reactions in drug metabolism except :

-aromatic hydroxylation

-epoxidation



-acetylation -N-dealkylation -S-oxidation

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9-regarding drug binding to plasma protein ,all of the following are true except :

-albumine is the most important drug binding protein

-binding is mostly irreversible

-a1- acid-glycoprotein is also important for binding certain basic drugs

-the free unbound drug fraction usually crosses membranes and is responsible for the pharmacological action -the consequences of displacement from plasma protein binding site are significant only for highly bound drugs 10- the following is universal side effect to almost all drug :

-allergy

-nausea and vomiting

- headache

-fever

-dizziness

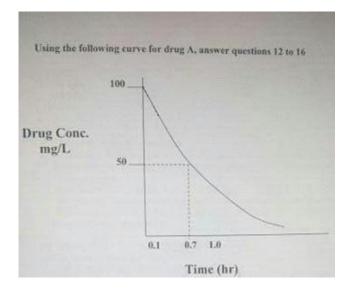
11-the least common bond between a drug and its receptor is :

-vander waals bond

- hydrogen bond
- ionic bond

-covalent bond

-reinforeced ionic bond



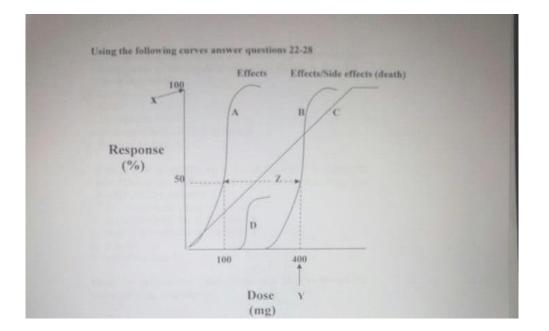
12-the bioavailability of drug A is :

-5% -10% -25% -50% **-100% 13-the Ke of drug A =** -0.5 hr^-1 **-1.0hr^-1** -1 hr -1.5 hr^-1 -1.5 hr

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-all of the above



22-if drug A is a specific agonist and drugs B and C are analogs producing nearly similar effects to A , choose the correct statement :

- A is more potent than B

- -A is safer than drug C
- A is more potent than C
- a and c are correct

-all of the above are correct

23-if A is a specific agonist and B and C are analogs producing nearly similar effect to A , choose the correct statement :

-D is less efficacious than A

-A is more efficacious than B

-A & C have similar efficacy

-a and c are correct

-all of the above are correct

24- X represent :

-intrinsic activity

- -potency
- -tolerance
- -steady state level
- -drug concentration at time zero

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25- if drug A is a specific agonist and the curve B represents side effects produced by this drug , then the point Y represents :

-LD50

-ED50

-therapeutic index

- biological half life Of drug B

- potency of A

26- if drug A is a specific agonist and the curve B represents side effects produced by this drug , then the line Z

represents :

--therapeutic index

- biological half life Of drug A
- biological half life Of drug B
- -a and c
- all of the above

27- from the formation given by Q.25 , the therapeutic index of drug A =

- -0.25
- -0.4
- -1.0
- -2.0
- <mark>-4.0</mark>

28- if drug A is a specific agonist and B represent its response in presence of specific antagonist then the above curves represent an example of :

-non-competitive antagonist

- -competitive antagonist
- -synergism
- -addition

-potentiation

29-the only choline ester which can have therapeutic application is :

-Acytelcholine

-methacholine

-bethanechol

-carbachol

-pilocharpine

30-the main reason why nicotine is considered toxic compound is because it :

-stimulates all parts of the ANS

-can kill insect

-stimulates the heart and constricts the arteries

-stimulates the dopameniergic – reward system in the ventral tegument

-can cause nausea and vomiting

31-all of the following about varnicline are true , except :

- it is a partial nicotine agonist

- it is highly effective in supporting smoking cessation

-may be associated with psychiatric symptoms , including suicidal ideation

-it is used as a skin patches

- may be more effective than nicotine patch in smoking cessation

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32-the serious toxicity of organophosphorous compounds is due to :

- high lipid solubility
- -covalent bond to the receptors
- -accumulation of large amount of ACH at the synapse
- -excessive secretion
- -all of the above
- 33-mushrom poisoning is characterized by all, except:
- -sever tachycardia
- bronchospasm
- -meiosis
- -profuse sweating
- -intestinal cramps

34-atropine might be highly effective in the treatment of organophosphate poisoning because all of the following

except:

- -it can cross the BBB
- -it decrease the secretion
- -large dose will cause less serious toxicity
- -blocks the muscarinic receptors

-disassociate the organophosphate from the enzyme

35- feature of atropine poisoning include all of the following except :

- -hallucination
- -<mark>hypothermia</mark>
- -mydriasis
- -dry mouth
- coma

36-the first and the most characteristic side effect of atropine that occurs at low doses :

- tachycardia
- -dry mouth
- -difficulty with micturation

-bulerred vision

-dilirium

37-the best antidote used to treat atropine poisoning is :

- -pyridostigmine
- -neostigmine
- -physostigmine
- -ambenonium
- -edrophonium

38-scopolamine is useful drug in the management of motion sickness because of all of the following features except :

-is a quaternary amine

- -can be formulated as skin patch
- -has a sedative and some amnesic activity
- -has long duration of action
- an effective drug and known for long period of time

39-all of the following are true for ipratropium, except :

- -is a synthetic analog of atropine
- -has local effect with minimal systemic effect
- -effective in all types of bronchial asthma
- -given by inhalation , short acting

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-tiotropium is a closely related drug but with longer duration of action

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40-all of the following are true about cholinergic and anti- cholinergic drugs in the urinary system , except - mediated through M2 receptor

-bethanechole is useful in bladder atony

-atropine like drug e.g oxybutinin are effective in the treatment of urinary urgency

-botulinum toxin is an alternative to atropine like drugs , longer acting

-all these agents should not be used in the presence of obstruction

your sister : Israa abu haneih good luck ☺