



Archive
pharmacology
Collected by



Wateen/ mid

1- Poisoning dose of aspirin:

- a- 200 mg/kg
- b- 100 mg/kg
- c- 350 mg/kg

Answer : A

2-Pralidoxime is treatment for :

- A- Poisoning
- B- Flue
- C- None

Answer : A

3-Treatment for cyanide toxicity is :

- A- Kit
- B- Deseferal
- C- None

Answer : A

4-All of the following dangerous in pregnant women except:

- A-Lithium
- B-Tetracycline C-Sedative
- D-Hypnotic E-Vitamin

Answer : E

5-What is wrong about urin:

- A-Weak acids need alkalization
- B-Weak bases need acidification
- C-Ph changing is important for renal clearance D-Phenobarbital bicarbonate
- E-Cocaine potassium cistric

Answer : E

6-A child 2 months having asthma what is the best rout of administration:

- A-Inhalor
- B-Vaporizer
- C-Aerosel

Answer : B

7-Toxicity of paracetamol:

- A- 6 g
- B- 7 g
- C- 3 g
- D- 8 g

Answer : B

8-Wrong about polymorphism:

- A- TPMT is 10 high
- B- None

Answer : A

9-All of the following are true about ADRs except:

- A- Type B rxn is predictable
- B-Type B rxn is unpredictable

Answer : A

10-All of the following are true about ADRs except:

- A- Reporting ADRs is compliance
- B-none

Answer : A

11-All of the following are true about ADRs except:

- A- Wide therapeutic index drugs cause ADRs

B- narrow therapeutic index drugs cause ADRs

C- none

Answer : A

12-Most frequent drugs causing ADRs in elderly except:

A- Hypoglycemic agent

B- Cardiovascular active agent

C- Analgesics

D- Vitamins

E- Psychotropic agent

Answer : D

13-All of the following are rules of prescribing for the elderly except:

A- Adding new drug to the regime

B- Prefer more toxic

C- All of the following

Answer : A

14-One of the following are rules of prescribing for pediatric is true:

A- Calculate the dose of drug based on weight

B- Prefer more toxic

C- All of the following

Answer : A

15-The drug that can take rectal administration for treatment the status

A- Diazepam

B- Benzodiazepines

C- PCP

D- None

Answer : A

16-Drug that causes hepatotoxicity in children is:

- A- Valproate
- B- Benzodiazepines
- C- PCP
- D- None

Answer : A

17-Clark's rule depends on:

- A- Body weight
- B- Body image
- C- Height
- D- None

Answer : A

16-Drug causes paradoxical effect in children:

- A- Amphetamines
- B- None

Answer : A

17-all of the following affect medication limitation except :

- A-Liver diseases B-Renal diseases
- C-Cardiac diseases D-Diet
- E-Race

Answer :D

18-Wrong about bioavailability:

- A- lidocaine bioavailability 50%
- B- lidocaine bioavailability 95%
- C- lidocaine bioavailability 80%
- D- none

Answer :C

19 - One of the following is true about elimination:

- A-The elimination is proportional to plasma concentration in first order
- B-The elimination is not proportional to plasma concentration in first order
- C-None

Answer :A

20-One of the following is not a way to eliminate:

- A-drugs
- B-Liver
- C-Kidney D-Lungs
- E-pancreas
- F-Mother milk

Answer : E

21-The Cause Of the log Dose Response Curve to shift to the right without affecting maximal efficacy

- A-Competitive antagonist
- B-Non Competitive antagonist

Answer : A

22-The doctor advice the pregnant woman to avoid all following except:

- A-Smoking
- B-Abuse C-Alcohol
- D-Over the counter E-Eating food

Answer : E

23-Definition of pharmacotherapy:

The science that deals with the proper use of drugs to treatment diseases.

24-About inert site property:

Answer : none of them

25-Wrong statment about half life:

90% of steady plasma concentrations occur at second half life

26-Chelating agent type of reaction:

A-chemical reaction

B-physical reaction

Answer : A

27-Adrenaline and b blocker receptors are example of :

A- Non Competitive antagonist

B- Competitive antagonist

C- un Competitive antagonist

Answer : B

28- All of the following are drug avoided to lactic wemon except

A-Vitamin

B-Sedative

D-Hypnotic

Answer : A

29- All the following ... of thalidomide except:

A-only in upper limb

B-Used in pregnancy as anti-emetic but withdrawn due to teratogenicity

Answer : A

30- About AUC $t_{1/2}$:

A-absorption

B- clearance C-elimination

Answer : A

31- Area under plasma concentrations curve is :

Absorption

32-Which antidote of cyanide :

A- Sodium Bromide

B- Sodium Nitrite and Sodium thiosulfate

C- Sodium benzoate

Answer : B

33-All of the following correct about clinical trials except:

A- phase 3 long term efficacy

B- Drugs are approved for sale after phase III clinical trials.

Answer : A

34- proper use of drugs in treatment of disease:

Pharmacotherapy

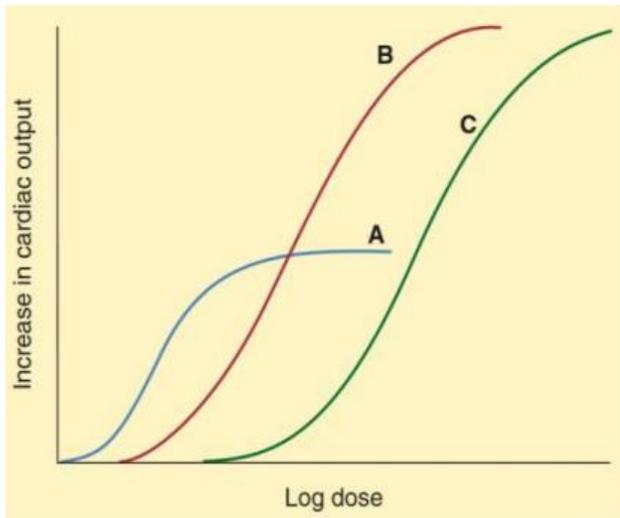
35-Beta-blockers + adrenaline at beta –adrenergic receptors:

A- competitive reversible

B- none

Answer : A

37- Prior to clinical trials in patients with heart failure, an animal study was carried out to compare two new positive inotropic drugs (A and B) to a current standard agent (C). The results of cardiac output measurements are shown in the graph below. Which of the following statements is correct?



- (A) Drug A is most effective
- (B) Drug B is least potent
- (C) Drug C is most potent
- (D) Drug B is more potent than drug C and more effective than drug A
- (E) Drug A is more potent than drug B and more effective than drug C

Answer : D

38-Which of them can't be observed:

- A- specificity
- B- selectivity
- C- potency
- D- mutagenicity
- D- reactogenicity

Answer : A

38- Effect of two drugs exceeds the sum of their individual effects:

synergism

39- Irrational use of drug :

polypharmacy

40- what is idiosyncrasy:

unwanted reaction ...

41- Which of the following does not include in kinetics :

A-absorption

B-elimination

C-uses

D-metabolism

E-distribution

Answer : C

42-All of the following are true about half life except :

A- Half life increase when metabolism decrease

B- Half life increase when metabolism increase .

Answer : B

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1-In drug development and evaluation: Which statement is false ?

:select one

- a. Most lead compounds are of natural origin at present.
- b. Chronic toxicity tests may accompany Clinical trials
- c. Drug mutagenicity is correlated to teratogenic potential of drugs
- d. LD50 is always estimated during acute toxicity tests in animals
- e. Phase 4 studies for rare Side effects can last up to 8 years after drug marketing

Answer:A

2- Regarding rules of pediatric prescription, all the following are true EXCEPT ?

:select one

- a. Dose of drug depends on Child weight
- b. Avoid prolonged treatment With steroids
- c. Monitor and review CNS affecting drugs
- d. All medicines should be taken away from children
- e. Antibiotics are used frequently

Answer:E

3- Genetic polymorphism can occur in all following EXCEPT ?

:Select one

- a. Beta 2-adrenergic receptor
- b. Angiotensin converting enzyme inhibitors
- c. Vitamin K epoxide reductase
- d. Serotonin transporter
- e. Calcium transporter

Answer:E

4- The following stimulate liver microsomal metabolism of drugs except ?

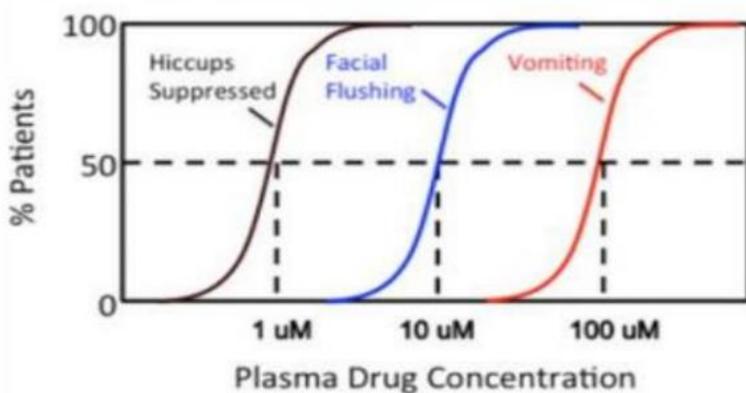
:Select one

- a. Alcoholism
- b. Cabbage
- c. Grapefruit
- d. Barbecued meat
- e. smoking

Answer:C

5- you are assessing the effects of new drug for the treatment Of intractable hiccups. over a Wide concentration range, three dose response curves were defined in test subjects. Using vomiting as an unwanted side effect, what would the estimated therapeutic index for this drug ?

select one :



- a. 0.01
- b. 1
- c. 10
- d. 100
- e. 0.1

Answer:D

6-You are a researcher at a pharmaceutical industry looking to screen ten thousand drug analogues to find the most efficacious cholinergic agonist, What biomarker that you Should screen for is?

:Select one

- a. Bioavailability
- b. EC50
- c. Emax
- d. Half life
- e. Maximal effect

Answer:C

7- The following decrease glomerular filtration of drug except?

:select one

- .a. Hypovolemia
- .b. Hypoalbuminemia
- c. Drug molecules bound largely to plasma albumin
- d. Chronic parenchymatous renal disease
- e. Large MW of drug

Answer:B

8-The following are true about total drug clearance (CL) from body except

:select one

- a. It represents the volume of plasma from which drug is eliminated per unit time
- b. It remains constant in first-order kinetics
- c. It is equal to dose of drug, given IV, divided by its plasma AUC
- .d. It is inversely related to drug plasma half-life
- e. It is useful to determine loading dose of drug in repeated drug administration

Answer:E

9- Which of the following acts on intracellular receptors?

select one :

- a. Serotonin
- b. Glucagon
- c. Corticosteroids
- d. GABA
- e. Insulin

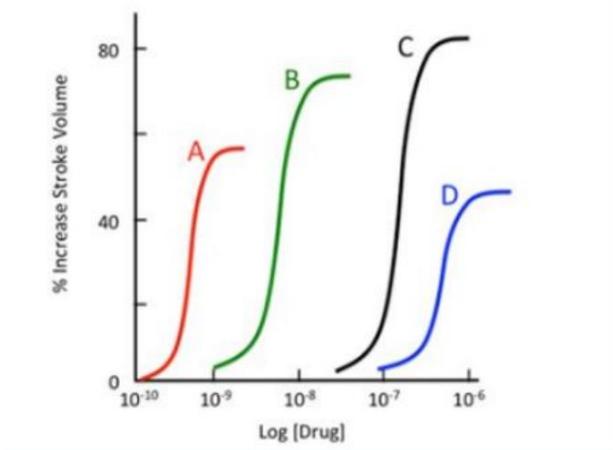
Answer:C

10- The following factors will decrease rate of drug absorption form GIT except?
Select one :

- a. Enhanced intestinal motility by osmotic laxative
- b. Biliary obstruction and chronic pancreatitis
- c. Delayed gastric emptying
- d. Formation of food-drug complexes
- e. small particle size Of drug

Answer:E

11- Dose response data was collected during the preclinical testing of four drugs for the treatment of acute heart failure. Which drug studied was the most efficacious ?



- a.A+B
- b.B
- c.C
- d.D
- e.A+D

Answer:C

12- warfarin is a drug that has been used to treat blood coagulation. It has a therapeutic index value of 2. HOW many daily doses of Warfarin will the average

patient have to take at one time to have a 50% chance of developing toxic side effects?

:Select one

- a. One time
- b. Two times
- c. Three times
- d. Half dose
- e. Four times

Answer:B

13- A toxic dose is?

:Select one

- a. The amount of a substance to produce effects hazardous for an organism
- b. The amount of a substance to accelerate an increase of concentration of medicine in an organism
- c. The amount of a substance to produce the required effect in most patients
- d. The amount of a substance to produce the minimal biological effect
- e. None of the selection

Answer:A

14- Regarding abnormalities of fetus, virilization may occur with the following drug?

Select one :

- a. Androgens
- b. Aspirin
- c. Tetracyclines
- d. Indomethacin
- e. Thalidomide

Answer:A

15-All following about polymorphisms in drug metabolising enzymes are true EXCEPT?

:Select one

- a. Poor metabolisers develop adverse effects when treated with standard dose

- b. Ultrarapidmetabolisers require high doses of drugs
- c. High incidence of ultrarapidmetabolisers among nonresponders
- d. Intermediates metabolisers required normal dose of drug
- e. Extensive metabolisers required normal dose of drug

Answer:E

16- Regarding poisoning, naloxone is the antidote of the following drug?

:Select one

- a. Opioids
- b. Iron
- c. Digoxin
- d. paracetamol
- e. Benzodiazepines

Answer:A

17- The following prolong Plasm half-life of a drug except?

:select one

- a. Binding to intracellular ligands
- b. Renal failure
- c. Binding to plasma albumin
- d. Acute or chronic liver disease
- e. Ion-trapping of drug in urine

Answer:E

18- All following combinations about drugs and metabolising enzymes are true EXCEPT ?

Select one :

- a. Warfarin- CYP2C9
- b. omeprazole- CYP2D6
- c. NSAIDs- CYP2C9

- d. Warfarin- Vitamin K epoxide reductase
- e. Antidepressants- CYP2D6

Answer:B

19- Choose the correct statement about partial agonists?

Select one:

- a. Partial agonists are molecules that can always cause a maximal response irrespective of the presence of antagonists
- b. partial agonists are molecules that have affinity toward the target receptor but no efficacy
- c. Partial agonists are molecules that have affinity and efficacy toward the target receptor
- d. partial agonists are molecules that have an agonistic effect on the receptor, but only ever achieve a submaximal response
- e. None of the selection

Answer:D

20- In Children, chronic use Of corticosteroids Will lead to the following?

select one :

- .a. Dystonias
- .b. Discoloration of teeth
- .c. Inhibition of growth
- .d. Hepatotoxicity
- .e. Damage of growing cartilage

Answer:C

21- Concerning poisoning , hyperthermia is one of symptoms of the following drug?

Select one :

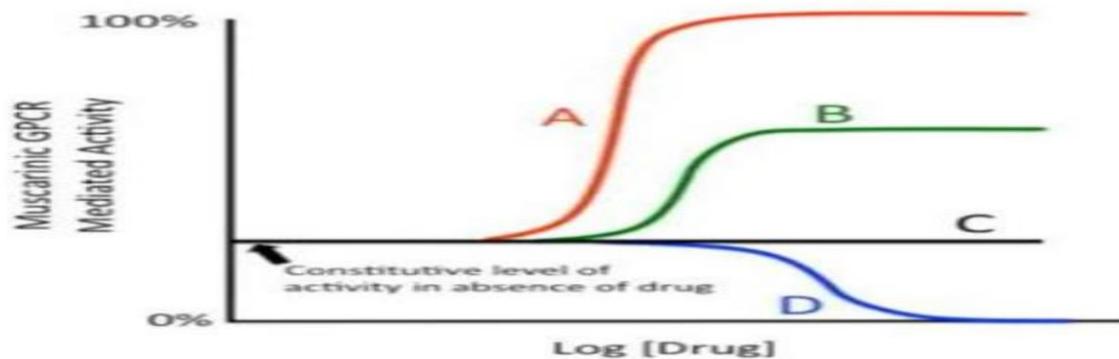
- a. Paracetamol
- b. Aspirin
- O c. Atropine

d. Opioids

e. Iron

Answer: B

22- G-protein coupled receptors have constitutive (basal) activity independent of ligand activation. specific drugs (partial agonists) can bind to these receptors, producing effects that are less to those of full agonist. In the graph below, which drug displays a dose-response relationship consistent with this type of behaviour :



a.A

b.B

c.C

d.D

Answer: B

23- In phase 3 Clinical Trial on new antihypertensive drug: Which of following is false?

Select one :

- a. Placebo and positive control are used for optimal Clinical trial results
- b. Design of trial and sample size determination are guided by statistician
- c. Requires prior submission of IND application to licensing health authority
- d. The results of animal acute & subacute toxicity tests must be available beforehand
- e. The details of trial must not be explained to patients

Answer: E

24- The following are slow-release dose forms for systemic drug administration except?

Select one :

- a. slow-release tablets
- b. drug in Oil
- c. delayed-release tablets
- d. Sublingual tablets
- e. Enteric-coated tablets

Answer:D

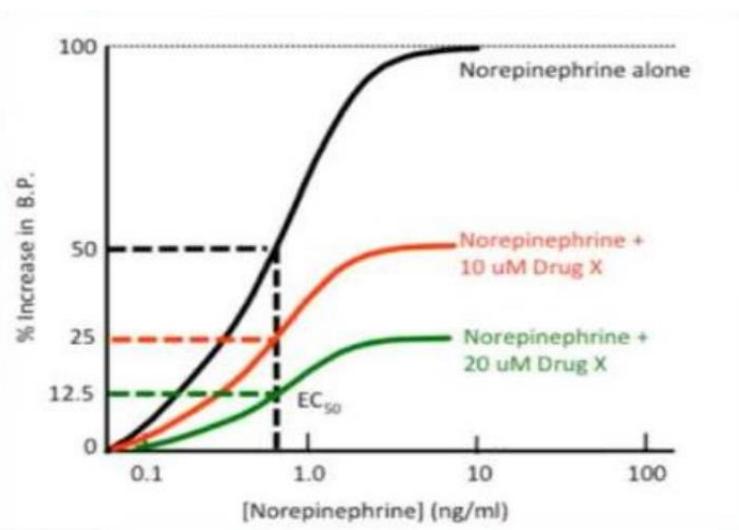
25- concerning teratogenicity, thalidomide can produce the following total abnormality?

Select one :

- a. Early closure of ductus arteriosus
- b. Phocomelia
- c. Discoloration of teeth
- d. Virilization
- e- Neural tube defects

Answer:B

26- What is the type of antagonism when different fixed concentrations of drug X acts on the effect of the norepinephrine on arterial blood pressure ?

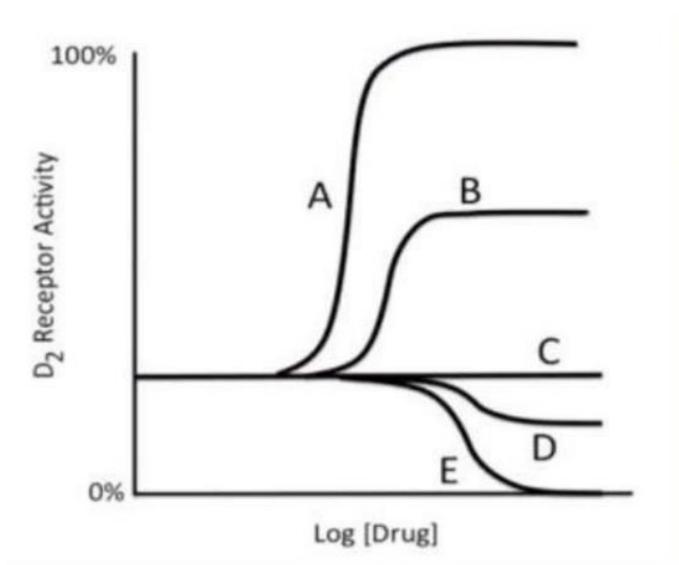


- a. Chemical antagonist

- b. Competitive antagonist
- c. Physiological antagonist
- d. noncompetitive antagonist
- e. Silent antagonist

Answer:D

27- Drugs with low efficacy bind to receptors but do not fully activate them. Such "inverse agonists" can act as either as a weak agonist (in the absence of a full inverse agonist), or as a antagonist (if a full inverse agonist is present). Which curve best reflects the effect produced by this type of agonist when it is administered alone ?



- a.A
- b.B
- c.C
- d.D
- e.E

Answer:B

28-All following about ADRS are true EXCEPT

Select one :

- a. About 50% of ADRs are preventable
- b. Most of adverse effects are mild in severity
- c. Reporting of ADRs is common
- d. There is a national pharmacovigilance center in Jordan
- e. Under-reporting is common phenomenon

Answer:C

29- Which one of following is true about drugs With high plasma albumin binding?

select one :

- a. The bound form is excreted in urine
- b. Binding is specific for each drug
- c. Binding increases the volume of distribution Of drug
- d. Binding of drug to plasma albumin is saturable
- e. The bound form is equally active to free form

Answer:D

30- All following about adverse drug reactions (ADRS) are true EXCEPT?

Select one :

- a. Type A reactions are due to increased pharmacology Of drugs
- b. carbamazepine-induced Skin rash is type B reaction
- c. Type A are predictable
- d. Type B are predictable
- e. Type B are unpredictable

Answer:D

31- Which statement is FALSE regarding adverse drug reactions (ADRs)?

:Select one

- a. Elderly are more susceptible to ADRs
- b. polypharmacy predisposes to ADRS
- c. Narrow therapeutic index drugs are more likely to cause ADRs

- d. Drug-drug interactions are risk factors to ADRS
- e. History of lung diseases is a risk factor to ADRs

Answer:D

32- Vd of drugs: The following are true except

:Select one

- a. is the volume of bod fluids that contain the drug
- b. is measured by mathematical calculations related to single compartment model
- c. is unequal for different drugs
- d. Mathematical calculations of Vd based on two-compartment model are more accurate
- e. is low for drug largely bound to plasma albumin

Answer:D

33- Regarding poisoning, benzodiazepines antidote is the following?

Select one :

- a. Naloxone
- b. Acetylcysteine
- c. Flumazenil
- d. Desteroxamjne
- e. Digoxin antibodies

Answer:C

34- It two drugs with the same effect, taken together, produce an effect that is not equal in magnitude to the sum of the effects of the drugs given individually, it is called as ?

Select one :

- a. potentiation
- b. Idiosyncrasy
- c. Antagonism
- d. Synergism
- e. None Of the selections

Answer:D

35- All the following are rules of elderly prescription EXCEPT?

:Select one

- a. Taking drug history
- b. Think about dose of drugs
- c. New symptoms may be Side effects
- d. Think about drug formulation
- e. Adding new drugs frequently

Answer:E

36- Characteristic of unwanted reaction Which isn't related to a dose or to a pharmacodynamic property of a drug is called?

Select one :

- a. Tolerance
- b. Teratogenic action
- c. Hypersensitivity
- d. Idiosyncrasy
- e. Idiosyncrasy

Answer:C

37- All following about pharmacogenetics are true EXCEPT?

Select one :

- a. About 5 % of population exhibit high TPMT activity
- b. TPMT catalyzes methylation of 6-mercaptopurine and azathioprine
- c. Clinical testing for TPMT genetic polymorphisms is available
- d. NAT-2 is involved in metabolism of sulphamethoxazole
- e. patients With CYP2C9*2 are at increased risk of warfarin-induced bleeding

Answer:A

38- In first-order elimination kinetics for drugs: Which one of the following is false?

Select one :

- a. The more is the plasma level of a drug, the more is amount eliminated per unit time
- b. The plasma elimination CT curve linear if logs are used for concentration scale
- c. Plasma half-life is constant
- d. Drug elimination capacity is large
- e. The more is drug plasma level, the less is its fraction eliminated per unit time

Answer:E

39- Which of the following drugs is not commonly involved in causing ADRs?

select one :

- a. Diuretics
- b. Antihypertensives
- c. Paracetamol
- d. Biosimilars
- e. Analgesics

Answer:C

40-Regarding items of prescription, all the following are true EXCEPT?

Select one :

- .a. Identification
- .b. superscription
- .c. Inscription
- .d. subscription
- .e. Signature of patient

Answer:E

41- Animal toxicity testing for new drug: Which one of the following is true?

select one :

- a. The "no effect" dose determined in subacute toxicity tests
- b. Chronic toxicity animal tests is required for most new drugs
- c. Toxicity in one species of animals is a reliable predictor of human toxicity

- d. Therapeutic index is correlated with carcinogenic potential of drugs
- e. In subacute toxicity tests, toxic drug doses can be given daily for 1-2 month

Answer:B

42- Which of the following is false?

:select one

- a. Small molecules like radioactive iodine, & antithyroid thiourea drugs reach high level in milk
- b. In repeated dosing, changes in dosing must done at SS
- c. Plasma half-life of drugs is directly related to CL total
- d. In urgency, Loading dose of a drug can be estimated from product of its V_d & target C_p
- e. If DI in repeated dosing is twice the half-life, drug in plasma will not reach toxic level

Answer:D

43- The second messenger of G-protein-coupled (metabotropic) receptor is?

Select one :

- a. Adenylyl cyclase
- b. Phospholipase C
- c. Sodium ions
- d. CAMP
- e. Calcium ions

Answer:D

44- The following are causes of poor compliance EXCEPT?

Select one :

- a. Lack of patient teaching by his doctor
- b. Failure of patient to obtain the drug
- c. patient forget to take the drug
- d. Discontinuation of taking drugs
- e. Good comprehension by the patient of doctor instructions

Answer:E

45- What does the term "potentiation" mean

Select one :

- a. Intensive increase of drug effects due to their combination
- b. Fast tolerance developing
- c. Cumulative ability of a drug
- d. Hypersensitivity to a drug
- e. None Of the selection

Answer:A

46- Regarding abbreviations of prescription, the following sentence is the meaning of STAT?

:Select one

- a. Before meals
- b. After meals
- c. At once
- d. If needed
- e. Once daily

Answer:C

47- The following drug can be used in Children over 10 years?

Select one :

- a. corticosteroids
- b. Multivitamins
- c. Tetracyclines
- d. Antihistamine
- e. Inhaled salbutamol

Answer:E

48- The decrease of second messengers' (cAMP, cGMP, Ca²⁺ etc.) concentration leads to?

Select one :

- a. Antagonism with endogenous ligands
- b. Protein kinases activation and protein phosphorylation

- c. Inhibition of intracellular protein kinases and protein phosphorylation
- d. Blocking of interaction between a receptor and an effector
- e. None of the selection

Answer:C

49- Dose forms: Which one Of the following is true?

select one :

- a. Slow release drug tablets can have high fractional systemic bioavailability
- b. Drug suspensions can be given IV for quick effect
- c. Drug in oil. given 1M, is more quickly absorbed than drug suspension
- d. Enteric-coated tablets of drugs can not hide unacceptable taste but shorten their shelf-life
- e. Systemic absorption of drugs from rectal suppositories is consistent

Answer:B

50- An irreversible antagonist is a substance that?

Select one :

- a. Interacts With receptors and produces submaximal effect
- b. Binds to the same receptor Site and shortly inhibits the agonist response
- c. Binds to one receptor subtype as an agonist and to another as an antagonist
- d. Binds to the nonspecific Sites of tissue
- e. None of the selection

Answer:B

51-One of the following js false about zero-order kinetics in drug elimination?

Select one :

- a. The amount Of drug eliminated per unit time is constant
- b. The plasma CT curve is linear without using logs
- c. It applies only to few drugs
- d. The elimination by liver has high enzymatic capacity
- .e. Increase in dosing would raise plasma drug concentration

Answer:B

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1) Drug X was given oral by swallowing in a dose of 500 mg. If its fractional absorption from intestine is 0.7 & ER is 0.3, calculate its F?

- a. 150
- b. 250
- c. 350
- d. 400
- e. 500

Answer:B

2) Drug X is a weak organic base pKa 5.4 that is excreted in urine. If the concentration of the uncharged lipid soluble form of drug X in plasma (pH 7.4) is 200 uM , calculate the total amount of drug X in urine at pH 6.4 ?

- a. 12
- b. 14
- c. 20
- d. 22
- e. 32

Answer:D

3) Drug A follows first order kinetics was given to 70 kg man. If its $t_{1/2}$ is 5 h, and its CL_{total} is 1.4 L / h, Calculate in which compartments of body fluid drug A is mainly localized

- a. ICF
- b. ECF
- c. ICF and ECF
- d. Plasma
- e. Stored in some tissue

Answer:B

4) Implications of large FPHE except:

- a. Parenteral doses are lower than oral doses
- b. The oral dose is lower in hepatic failure
- c. The liver excretion of this drug is high
- d. The barbecued meat increase plasma level of the drug
- e. Grapefruit precipitate the toxins

Answer:D

5) Regarding phase II enzymes which of the following statements is wrong:

- a. NAT-2 is involved in the metabolism of isoniazid
- b. Clinical testing for TPMT genetic polymorphisms is available
- c. TPMT catalyzes methylation of 6-mercaptopurine
- d. The percentage of slow acetylators is 10% in North African
- e. the most important polymorphisms occur in N-acetyltransferase-2 (NAT-2) and thiopurinemethyltransferase (TPMT)

Answer:D

6) ALL of the following regarding pharmacokinetic changes during pregnancy are true EXCEPT :

- a) Increased plasma volume and body fluids
- b) Increased estradiol and progesterone levels
- c) Decreased absorption of drugs administered parenterally
- d) Decreased plasma albumin
- e) Increased distribution

Answer:C

7) One of the following drugs is used safely during pregnancy :

- a) Steroids
- b) Vitamins derivatives
- c) lithium
- d) Warfarine
- e) Insulin

Answer:E

8) All of the following drugs have a teratogenic effect on fetus EXCEPT :

- a) Thalidomide
- b) Isotretinoin
- c) Digoxin
- d) Alcohol

Answer:C

9) The maximum effect achieved by a drug is measured by

- a- efficacy
- b- potency
- c- quantal response
- d- antagonist magnitude
- e- graded response

Answer:A

10) The therapeutic index of drug indicate the following ?

- a- safety
- b- toxicity
- c- potency
- d- selectivity
- e- efficacy

Answer:A

11) Combination of two drug or more may result in (it should be except: but the question is incorrect so be careful, we asked about it)

- a- agonism
- b- synergism
- c- potentiation
- d- idiosyncrasy
- e- interferes in absorption of other drug

Answer:D

12) All of the following statements are correct about the hospital prescription, EXCEPT:

- A- The dose to be given to patient and its route
- B- frequency of administration
- C- duration of use
- D- signature of patient
- E- signature of doctor

Answer:D

13) Used to give a child that has asthma :

- A- aerosol
- B- inhaler
- C- vaporizer
- d. chest ointment
- e. Sublingual tablet

Answer:C

14) Regarding drug metabolism , one of the following is false :

- A- capacity for oxidation rxn is greater than synthetic rxn
- B- prodrugs are bioactivated into active metabolites
- C- molecules of inactive metabolites are more polar than parent drug molecule
- D- most drugs undergo non synthetic metabolic rxn at first
- E- conjugated drug metabolites in bile usually undergo enterohepatic cycling

Answer:

15) All of the following can increase renal excretion except :

- A) mannitol
- B) low % binding of drug molecule to albumin in plasma
- C) probenecid
- D)increase renal blood flow
- E) ion trapping of drug in urine

Answer:C

16) Sugammadex is a new drug that reverses the action of rocuronium & certain other skeletal muscle relaxing agents (non depolarizing neuromuscular blocking agents) ; it appears to interact directly with the rocuronium molecule & not at all with the receptor , which of the following best describes sugammadex :

- A) chemical antagonist
- B) non competitive antagonist
- C) partial agonist
- D) physiological antagonist
- E) pharmacologic antagonist

Answer:A

17) All of the following can be indications for rectal suppository except :

- A) 10 year old child
- B) vomiting
- C) gastric irritant drug
- D) coma
- E) high fever in 1 year old child

Answer:A

18) All of the following are true about inscription of the prescription except :

- a. Drug name
- b. Dose form
- c. Dispensing instructions
- d. Proper use instructions
- e. Dose strength in system metric

Answer:C

19) A study was carried out in isolated intestinal smooth muscle preparations to determine the action of a new drug “novamine,” which in separate studies bound to the same receptors as acetylcholine. In the absence of other drugs, acetylcholine caused contraction of the muscle. Novamine alone caused relaxation of the preparation. In the presence of a low concentration of novamine, the EC50 of acetylcholine was unchanged, but the Emax was reduced. In the presence of a high concentration of novamine, extremely high concentrations of acetylcholine had no effect.

Which of the following expressions best describes novamine?

- (A) A chemical antagonist
- (B) An irreversible antagonist
- (C) A partial agonist
- (D) A physiologic antagonist
- (E) A spare receptor agonist

Answer:B

20) Which of the following drugs is least susceptible to ADRs:

- a. Warfarin
- b. Antidiabetic
- c. Antibacterials
- d. Biosimilars
- e. Steroids

Answer:B

21) What is the meaning of the abbreviation SOS:

- a. Once a day
- b. 2 times a day
- c. If needed
- d. Before meal
- e. After meal

Answer:C

22) Which one of the following is not caused by salicylate toxicity :

- a. Respiratory acidosis
- b. Hyperthermia
- c. Respiratory alkalosis
- d. CV collapse
- e. Hyperventilation

Answer:A

23) Which one of the following is not a cause of poor compliance

- a. Good teaching of the doctor to the patient
- b. Polypharmacy
- c. Disabling adverse effects occur
- d. Frequent doses (> 3 / d)
- e. Age

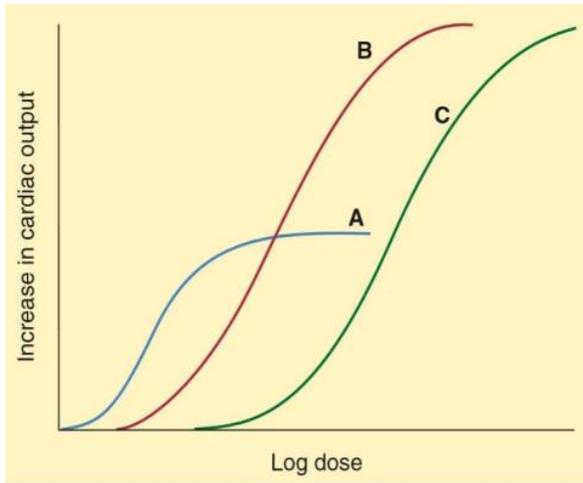
Answer:A

24) One of the following is not associated with pharmacogenomics of drugs:

- a. Sodium channels
- b. Angiotensin converting enzyme (ACE)
- c. B2-adrenergic receptor-B2 agonist
- d. MDR1 (multi-drug resistant) P-glycoprotein
- e. Serotonin transporter

Answer:A

25) Prior to clinical trials in patients with heart failure, an animal study was carried out to compare two new positive inotropic drugs (A and B) to a current standard agent (C). The results of cardiac output measurements are shown in the graph below. Which of the following statements is correct?



- (A) Drug A is most effective
- (B) Drug B is least potent
- (C) Drug C is most potent
- (D) Drug B is more potent than drug C and more effective than drug A
- (E) Drug A is more potent than drug B and more effective than drug C

Answer:D

26) Two cholesterol-lowering drugs, X and Y, were studied in a large group of patients, and the percentages of the group showing a specific therapeutic effect (35% reduction in lowdensity lipoprotein [LDL] cholesterol) were determined. The results are shown in the following table :

Which of the following statements about these results is correct?

Drug Dose (mg)	Percent Responding to Drug X	Percent Responding to Drug Y
5	1	10
10	5	20
20	10	50
50	50	70
100	70	90
200	90	100

- (A) Drug X is safer than drug Y
- (B) Drug Y is more effective than drug X
- (C) The 2 drugs act on the same receptors
- (D) Drug X is less potent than drug Y
- (E) The therapeutic index of drug Y is 10

Answer:D

27) Choose the wrong metabolizing enzyme and drug coupled:

- a. CYP2C9 – NSAIDs
- b. Vitamin K epoxide reductase complex (VKORC) - Warfarin
- c. CYP3A4-beta adrenergic receptors

Answer:C

28) All of the following follow first order, EXCEPT:

- d. A-propranolol
- B-morphin
- C-theophylline
- D-Alcohol

Answer:D

29) A 55-year-old man is seen in the clinic with hypertension of 150/95 mm Hg (millimeters of mercury). His personal medical history and physical examination are otherwise unremarkable but his family history is positive for early deaths due to cardiovascular disease. A decision is made to treat his hypertension, starting with a calcium channel blocker. Blocker A in a dose of 5 mg produces the same decrease in blood pressure as 500 mg of blocker B. Which of the following predictions is most accurate?

- (A) Blocker A will be more efficacious than blocker B
- (B) Blocker A will be about 100 times more potent than blocker B
- (C) Toxicity of blocker A will be less than that of blocker B
- (D) Blocker A will have a wider therapeutic window than blocker B
- (E) Blocker A will have a longer half-life than blocker B

Answer:B

30) Graded and quantal dose-response curves are being used for evaluation of a new analgesic drug in the animal laboratory and in clinical trials. Which of the following statements best describes graded dose-response curves?

- (A) More precisely quantitated than quantal dose-response curves
- (B) Obtainable from isolated tissue preparations but not from the study of intact subjects
- (C) Used to determine the maximal efficacy of the drug
- (D) Used to determine the therapeutic index of the drug
- (E) Used to determine the variation in sensitivity of subjects to the drug

Answer:C

31) All of the following about the amount of drug eliminated by zero order are false,EXCEPT:

Answer: its constant

32)One of the following statements is wrong combination:

Answer: Type B ADRS – dose dependent

33) wrong about ACE inhibitors is:

Answer: reversible renal damage

34)All of the following are causes of paracetamol toxicity except :

- A.Excess NABQI
- B.Increase glutathione
- C.Glutathione depletion
- D.Cell death
- E.Oxidization of thiol group of enzymes

Answer:B

35) The fastest systematic effect is throw:

A-SC

B-Rectal

C-Liquid as syrup

D-Sublingual

Answer:D

36) Half life of drug that is metabolized by liver, all of the following are correct, EXCEPT:

Answer: It's prolonged in the condition of renal impairment

37)All of the following are correct about causes of death in drug poisoning, EXCEPT:

Answer: urticaria

38) Which of the following doesn't decrease intestinal absorption?

Answer: metaclopramide

39)Which of the following isn't involved in mixed function system:

A.CYP450 reductase

B.O₂

C.NADPH

D.cytosol co-factor

E.CYP3A4

Answer:D

40) All of the following decrease the absorption of SC, EXCEPT:

Answer:Hyaluronidase injection

41) the following biochemical reactions occur at cytosol of liver cells except :

- A. Alcohol oxidation
- B. Nitro oxidation
- C. glutathione conjugation
- D. methylation

Answer: B

42) All of the following are true about unequal distribution, EXCEPT:

Answer: $V_d=40$

43) The wrong statement about simple lipid diffusion?

Answer: Cannot transport water soluble molecules

44) All of the following inhibit liver metabolism, EXCEPT?

Answer: cabbage

45) Pralidoxime is used for?

Answer: OPI treatment

46) Which of the following is wrong statement about ADR?

Answer: reporting is compulsory

47) One of the following is incorrect:

Answer: placebo use as positive control.

48) The property that is shown in most clinically used drug, with an appropriate dosage?

- A- selectivity
- B- specificity

Answer: A

49) All of the following are true, Except :

Answer: 10% of population have high TPMT activity

50) one of the following is incorrect :

Answer: We give higher doses of drugs for intermediate metabolizers

اللهم أحييني بالعمل..

وأشغلني بالخير الذي ترضاه، لا تحرمني الحركة و الأثر، وبارك لي الوقت واللحظة، لا أريد فراغاً فأذبل، ولا مَيْلاً فأضيع، ولا عَجَباً فأفتن، ولا ضَعْفاً فألين، ولا خَوْفاً فأرتجف، بل ثبات الرّاسيات، وأرني الحق حتى أرى، وخذ بيدي.

ضعني على بداية طريقِ تُحِبّه
فأُحِبّه، وأسير فيه، وأموت عليه.