

1- Aminoglycosides (AG). One of the following is WRONG?

A- loop diuretics decrease nephrotoxicity of AG

- b Should be avoided during pregnancy
- c. Penicillins antibiotics potentiate their antibacterial activity
- d Potentiate the effect of neuromuscular .
- e Adverse effects are not dose related

2- All following about aminoglycosides are TRUE EXCEPT ?

- A. Effective against aerobic bacteria only -a
- b. Useful in serious Gram negative bacilli infections
- c. Used in serious Gram positive infections like bacterial endocarditis
- d. Eliminated with significant metabolism by liver
- e. Accumulation occurs in renal cortex, endolymph and perilymph of inner ear

3- all the following about pre-clinical studies are true except ?

- a. Subcutaneous toxicity tests are done on two animal species for 6 months
- b. Include pharmacokinetics studies
- c. Include pharmacodynamics studies
- d .Acute toxicity studies in animals
- e. Mutagenicity studies

4-one of the following B-blockers drugs is associated with intrinsic sympathomimetic activity ?

- a. Nadolol

b. Oxprenolol

c. Atenolol

d. Sotalol

e. Bisoprolol

5- regarding prescription all the following are causes of poor compliance except ?

a. Lack of teaching the patient by his doctor

b. Good comprehension by the patient for instructions

c. Patient forget the drug

d. The drug had been lost

e. Patient did not continue the drug

6- regarding second generation of cephalosporins, all the following are correct except ?

a. Very active against pseudomonas

b. Active against gram positive and gram negative

c. It includes cefaclor and cefoxitin

d. It can be given orally

e. It can be given parenterally

7- the following match except ?

a. Botulinum toxin : inhibition of acetylcholine release from somatic nerve endings at NMJ

b. Reserpine : depletion of noradrenaline in storage granules noradrenergic nerve endings

c. Metyrosine : inhibition of tyrosine hydroxylase in noradrenergic nerve endings

d. True choline esterase : present in plasma

e. Stimulation of alpha-2 receptor on ciliary body : lowering of intra-ocular pressure

8-all the following are therapeutic uses of B-blockers except ?

a. Arrhythmias

b. Acute myocardial infarction

c. Hypotension

d. Chronic anxiety

e. Hyperthyroidism to reduce sympathetic over activity

9- All following about tetracyclines are TRUE EXCEPT

: Select one

a. Effective against Gram positive and Gram negative bacteria

b. safe in patients with renal diseases

c. causes yellow discolouration and hypoplasia of teeth in Children

d. Should be avoided in pregnancy

e. used in treatment of Mycoplasma pneumonia, Chlamydia infections and acne

10- Following receptors are membrane proteins, except

: Select one

a. Receptors for fast neurotransmitters, coupled directly to an ion channel

b. Receptors for many hormones and Slow transmitters, coupled to effector system

c. Receptor for insulin and various growth factors, Which are directly linked linked to tyrosine kinase

d. Receptors for steroid hormone

e. All the selections

11- Which of following reactivate cholinesterase enzyme in poisoning With parathion?

: Select one

a. Bethanechol.

b. Atropine.

c. Edrophonium.

d. Pralidoxime.

e. oxygen.

12- All the following are adverse effects of alpha Blockers are true Except?

: Select one

- a. sedation.
- b. postural hypotension.
- c. tachycardia.
- d. Failure of ejaculation.
- e. Nasal decongestion.

13- Regarding drug poisoning, delirium is one of symptoms of the following drug?

: Select one

- a. paracetamol.
- b. Atropine—like drugs.
- c. Cyanide.
- d. Aspirin.
- e. Organophosphorus insecticides

14- which of the following drugs is not commonly involved in causing ?

: Select one ADRs

- a. Diuretics
- b. Antihypertensives
- c. Antidiabetics
- d. Anticancer drugs
- e. Analgesics

15- Regarding mechanism of action of B-LACTAM antibiotics, all the following are true EXCEPT?

: select one

- a. They are bactericidal
- b. They bind to specific enzymes (PBPS)
- c. They inhibit transpeptidation
- d. They inhibit ribosomal RNA
- e. They activate autolytic enzymes

16-Regarding calculation of pediatric dosage, CLARK RULE depends on?

Select one:

- a. surface area of Child.
- b. length of child.
- c. body weight of Child.
- d. frequency of meals.
- e. other doses of drugs.

17- Concerning adverse effects in children, chronic inhaled high dose corticosteroids will lead to?

: select one

- a. staining and dental hypoplasia.
- b. inhibition of growth.
- c. dystonias.
- d. hepatotoxicity.
- e. damage of growing cartilage.

18- Stimulation of beta two adrenoceptor causes all following EXCEPT?

select one:

- a. Bronchodilatation
- b. Skeletal muscle arterioles vasodilatation
- c. Relaxation of uterus
- d. Hyperglycemia
- e. Hyperkalemia

19- Stimulation Of alpha adrenoceptors causes all following EXCEPT?

: Select one

- a. Dilatation of vascular smooth muscles
- b. Mydriasis
- c. Increase peripheral vascular resistance
- d. Hyperkalemia
- e. Contraction of bladder sphincter

20 - Nicotinic receptors for acetylcholine: Which one of the following is true?

: Select one

- a. They are composed Of 5 subunits.
- b. They are found in all ganglia.
- c. They are equally blocked by nicotine receptor blockers
- d. When stimulated, they increase sodium influx across cell membranes of target tissue
- e. If stimulation persists, it enhances further the activity of post-synaptic cell

21- All the following about Pharmacokinetics of propranolol are correct Except?

: Select one

- a. safe in renal disease
- b. High apparent VD Nasal decongestion
- c. Has less central effects than atenolol
- d. Is highly lipid-soluble agents
- e. IS easy cross BBB

22- All the followings are rules for prescription of elderly EXCEPT?

: Select one

- a. Adding new drugs frequently
- b. Drugs with negligible effects are not included
- c. Consider new symptoms as side effects
- d. Stopping a drug is important as starting it
- e. Taking drug history

23- concerning B-LACTAMS antibiotics, PENICILLIN-V is only available in the following route?

: select one

- a. Oral Route
- b. I.V Route
- c. I.M Route
- d. Subcutaneous Route
- e. Intrathecal route

24- Tigecycline, all following are TRUE EXCEPT?

: Select one

- a. structure similar to tetracyclines
- b. Effective against vancomycin resistant enterococci
- c. Effective against Acinetobacter baumani
- d. Can be given orally or iv infusion every 12 hrs
- e. NO Dose adjustment is required patients With renal impairment

25- Chloroquine in malaria: Which one of the following is false?

: Select one

- a. Kills erythrocyte schizonts
- b. Kills blood gametocytes of all plasmodium species except plasmodium falciparum
- c. does not cure sensitive plasmodium vivax malaria
- d. Changes PH of food vacuole of malarial schizonts to acidic
- e. Decreases hemozoin pigment synthesis in infected malarial erythrocytes

26- One of the following is mixed alpha and B-blocker?

: Select one

- a. propranolol
- b. Metoprolol
- c. Pindolol
- d. Carvedilol
- e. Timolol

27- Regarding adverse effects of pediatric drugs, staining and dental hypoplasia is due to the following drug?

: Select one

- a. Metoclopramide
- b. Sodium valproate
- c. Tetracyclines
- d. Corticosteroids
- e. Fluoroquinolones

28- Concerning pregnancy, the following drug does not demonstrate any risk to the fetus if ingested in adequate dose?

: Select one

- a. Alcohol
- b. Narcotic Analgesics.
- c. Androgens.
- d. Thalidomide.
- e. paracetamol.

29- Dose forms: Which one of the following is false?

: Select one

- a. Absorption of drug from rectal suppositories is variable
- b. Drug in syrup is more quickly absorbed than drug in tablets
- c. Drug suspension must not be given IV because of serious adverse effects
- d. Drugs in oil, given IM, are quickly absorbed in hypovolemic shock
- e. Drug inhalation by nebulizer is usually more effective to relieve severe asthma than its administration by metered dose inhaler

30- TOXIC effect differs from a side effect in that?

: Select one

- a. It is not a pharmacological effect of the drug
- b. It is a more intense pharmacological effect that occurs at low dose or after prolonged medication
- c. It must involve drug induced cellular injury
- d. It involves host defence mechanisms
- e. None of the selection

31- All following statements regarding pre-marketing clinical trials are true except?

: select one

- a. Formal clinical must include more than 1500 patients divided into equivalent groups
- b. Do not identify delayed adverse reactions

- c. Do not identify effects from long-term exposure
- d. Have statistical power to detect rare adverse reactions
- e. They are performed to establish efficacy and safety of drugs

32- All the following statement about bethanechol are correct except?

: Select one

- a. It is indirect acting Cholinomimetic drug
- b. It has no nicotinic actions
- c. It has selective muscarinic effects on urinary bladder and intestine
- d. used to treat post-operative ileus with abdominal distension
- e. Is contraindicated in patients with heart block or atrial fibrillation.

33- In repeated dose schedule of a drug, the following are true except?

: select one

- a. The dose interval DI should near to drug plasma half life
- b. The steady state of drug is reached after 4-5 half lives
- c. If loading dose is needed, it is calculated from Vd (in L) multiplied by target plasma C
- d. Drug plasma level increases to css with fluctuations in the rising plasma level.
- e. If dose interval is equal to two half lives, drug plasma level will easily reach toxicity

34- Cytochrome P-450 enzyme system in liver: Which of the following is true?

: select one

- a. It carries out conjugation reactions inside microsomes of liver cells
- b. Each isoform can metabolizes only one drug
- c. It requires the mixed function oxidase system in order to metabolize drugs
- d. The metabolites are usually inactive
- e. Its induction occurs usually within few hours of use of phenobarbital

35- Drug X follows first-order kinetics. Its Cl total is 7 L/h, and its plasma half life is 4 h. This drug is mainly distributed in?

: Select one

- a. Plasma
- b. uniform in body fluids
- c. Extracellular fluid
- d. Mainly extracellular and partly in intracellular fluid
- e. Intracellular fluid

36-Phenylephrine, all are true EXCEPT?

: Select one

- a. Direct alpha one adrenoceptor agonist
- b. Useful in treatment of anaphylaxis

- c. Nasal mucosal decongestant
- d. Mydriatic agent
- e. Vasoconstrictor agent with local anesthetics

37- All the following are side effects of griseofulvin EXCEPT?

: select one

- a. Headache
- b. Nausea
- c. Mental Confusion
- d. Hepatotoxicity
- e. Urticaria

38- The enteric nervous system: Which one of the following is false?

: Select one

- a. It controls motility and glandular secretion of intestine
- b. It is included as the 3rd division of autonomic nervous system
- c. It contains non-adrenergic non-cholinergic nerve fibers
- d. preganglionic parasympathetic nerve fibers synapse in ganglion cells Of Auerbach's plexus
- e. Cutting autonomic nerves supplying intestine abolishes activity of this system

39- Adrenaline, which one of following statement is FALSE?

: select one

- a. Causes vasoconstriction of skin and mucous membrane arterioles
- b. Causes vasodilation of skeletal muscle blood vessels
- c. Positive inotropic and chronotropic effect on heart
- d. Large doses, increases systolic and decreases diastolic blood pressure
- e. Is useful in anaphylactic shock

40- Pharmacodynamic tolerance may involve changes in

? of drug receptors

: Select one

- a. Number
- b. Affinity
- c. Function
- d. All the selections
- e. None Of the selection

41- Drug 'R' producing no response by itself causes the log dose-response curve Of another drug 'S' to shift to the right in a parallel

manner with decreasing the maximal response: Drug 'R' is a?

: Select one

- a- partial agonist
- b. Inverse agonist
- c. competitive antagonist
- d. **Noncompetitive** antagonist
- e. None of the selection

42- Which of the following administration route offers continuous, unattended, controlled drug release for a long period of time without

Hepatic drug inactivation prior to systemic circulation?

: select one

- a. Parenteral
- b. oral
- c. Transdermal
- d. All the selections
- e. None Of the selections

43- Regarding the mechanism of action of caspofungin, the following is true?

: select one

- a. Interference with microtubular function
- b. Inhibition of glucose polymer synthesis
- c. inhibition of ergosterol
- d. formation of artificial pores
- e. inhibition of nucleic acid synthesis

44- The following are useful in treatment of patients with AIDS virus except?

: Select one

- a. **Ganciclovir**
- b. Zidovudine
- c. Nevirapine
- d. Indinavir
- e. Lamivudine

45- Which of the following is false about drugs with high plasma albumin binding?

: Select one

- a. Their plasma level is high
- b. Bound drug may be displaced competitively by other drugs
- c. These drugs usually have a short duration of action
- d. The blood level of these drugs decrease in nephrotic syndrome
- e. The bound fraction in plasma has no pharmacodynamic action

46- Quinolones, one of the following is FALSE?

: Select one

- a. Nalidixic acid is mainly used in urinary tract infections
- b. Ciprofloxacin is effective against Gram negative, Gram positive and Atypical bacteria
- c. Levofloxacin is used in treatment of respiratory and urinary tract infections
- d. Moxifloxacin is effective against Gram negative, Gram positive, Anaerobic and Atypical bacteria
- e. can cause rupture of Achilles tendon

47- Regarding cephalosporins, the following is the drug Of Choice for GONORRHEA?

: Select one

- a. Ceftriaxone
- b. Cephalexin
- c. cefoperazone
- d. Cefotan
- e. Cefoxitin

48- The following decrease rate Of drug absorption from intestine except?

: Select one

- a. Exercise
- b. Enhancing gastric emptying by 2 glasses of water
- c. Large particle Size Of drug
- d. Drugs that possess persistently positively charged nitrogen atom
- e. High water solubility of drug

49- Which of following about dopamine is incorrect

: Select one

- a. Activates alpha, beta and dopaminergic receptors
- b. Can be given intravenously
- c. increases renal blood flow
- d. At high dose, causes vasodilatation
- e. useful in cardiogenic and septic shock

50- Most drug receptors are?

: Select one

- a. small molecules with a molecular weight between 100 and 1000
- b. Lipids arranged in a bilayer configuration
- c. Proteins located on cell membranes or in the cytosol
- d. DNA molecules
- e. RNA molecules

51- Non-competitive antagonist?

: Select one

- a. Alters the mechanism of action Of an agonist
- b. Alters the potency of an agonist
- c. Shifts largely the dose-response curve of an agonist to the right
- d. Decreases the maximum **response** to an agonist
- e. None of the selections

52- Drug A in a dose of 5 mg produces same response as with 50 mg of drug B?

: Select one

- a. Drug A is **10** times more potent than drug B
- b. Drug B is 10 times more potent than drug A
- c. Drug A is 10 times more efficacious than drug B
- d. Both are equally potent
- e. Both are equally efficacious

53- Regarding selective BETA 2 agonists, which statement is WRONG?

: Select one

- a. Salbutamol adverse effect: tremor and tachycardia
- b. salmeterol is a long action bronchodilator
- c. Salbutamol can be given by inhalation, orally and injection
- d. Salmeterol is useful in **acute** asthmatic attacks
- e. Salmeterol is used in prophylaxis of asthmatic attacks

54- Acyclovir: Which one of the following is false?

: Select one

- a. inhibits viral DNA synthesis in herpes viruses
- b. is indicated by IV administration in herpetic encephalitis
- c. its blood level is low it valacyclovir is given orally
- d. stops elongation of proviral DNA chain
- e. it is not nephrotoxic with oral use

55- The following B-LACTAM antibiotic is safe during pregnancy?

: Select one

- a. Penicillin
- b. Oxacillin
- c. Cefnalexin
- d. Methicillin
- e. Ticarcillin

56- Regarding mechanism of action of FLUCYTOSINE, the following sentence is correct?

: select one

- a. it inhibits nucleic acid synthesis.
- b. it inhibits ergosterol.
- c. it interferes With microtubular function.
- d. it produces artificial pores in cell membrane.
- e. (t inhibits glucose polymer.

57- Adverse effects of zidovudine in treating HIV patients include the following except?

: Select one

- a. Myopathy
- b. Neutropenia
- c. Hepato megally with cholesteatosis
- d. Pancreatitis
- e. Lactic academia

58- Receptors perform the following function/functions?

: Select one

- a. Ligand recognition
- b. Signal transduction
- c. Both ligand recognition and signal transduction
- d. place for agonist and antagonist interaction
- e. All the selections

59- G protein coupled receptor has?

: Select one

- a. Tyrosine protein kinase activity
- b. Gene expression regulating functions
- c. Intrinsic ion channel
- d. has 7 helical membrane, 3 extracellular and 3 intracellular loops with spanning amino acid segments
- e. .None of the selection

60- The antagonism between adrenaline and histamine is called Physiological antagonism because?

: Select one

- a. Both are physiologically present in the body
- b. They act on physiological receptors
- c. Both affect many physiological processes

d. They have opposite physiological effects

e. All the selections

61- concerning paracetamol toxicity, all the following are correct EXCEPT?

: Select one

a. Excess NABQI.

b. Depletion of glutathione.

c. NABQI oxidizes thiol group of enzymes.

d. Leading to cell death.

e. cause Of death is brain damage.

62- Macrolides One of the following is WRONG ?

: Select one

a. Erythromycin is used in patients allergic to penicillins

b. Clarithromycin is effective in Mycoplasma pneumonia

c. Azithromycin is more effective against Gram positive bacteria than erythromycin

d. Azithromycin is given Orally or intravenous infusion

e. Clarithromycin is useful in peptic ulcer therapy to eradicate Helicobacter pylori

63- One of the following terms best describes an antagonist that interacts directly with the agonist and not at all or only incidentally, with the receptor?

: select one

a. Pharmacological antagonist

b. partial agonist

c. Physiological antagonist

d. Chemical antagonist

e. Non-competitive antagonist

64- If a drug has a large first-pass hepatic metabolism, the implications include the following except?

: Select one

a. LOW systemic blood level.

b. Less oral dose is used if there is liver disease.

c. High level of hepatic metabolites in plasma

d. The dose for parenteral use is much lower than oral dose by swallowing

e. Must have blood flow-dependent liver elimination.

65- The followings match except?

: Select one

- a. Infestation of intestine with *Ascaris* and *Enterobius vermicularis*: Pyrantel pamoate
- b. Visceral leishmaniasis (Kalazar): Pentostam IV for 2-3 weeks
- c. Gastrointestinal giardiasis: Metronidazole oral tablets for 5 days
- d. African sleeping sickness: Quinine bisulphate IV
- e. Onchocerciasis: Ivermectin single oral dose.

66- The following are effects of pilocarpine eyedrops except?

: select one

- a. Miosis
- b. Cyclospasm
- c. Lachrymation
- d. Drooping of upper eyelid
- e. Decreased intra-ocular pressure

67- Concerning monobactams, all the following are true EXCEPT?

: select one

- a. They are B-Lactams
- b. In renal dysfunction, it is not necessary to reduce the dose
- c. They are usually resistant to b-lactamase
- d. They bind with PBR
- e. No cross allergy with penicillin

68- Regarding VANCOMYCIN, all the following statements are correct EXCEPT?

: Select one

- a. oral absorption is good.
- b. It is cell wall inhibitor.
- c. It damages cell membrane.
- d. It is synergistic with gentamycin.
- e. It is not active against gram negative bacteria.

69- All the following drugs are alpha-blockers Except?

: select one

- a. Doxazosin
- b. Phenoxybenzamine
- c. Phentolamine
- d- Prazesin
- e. Pethidine

70- which of the following is false about active transport of drugs across cell membranes?

: Select One

- a. Can not transport water soluble drug

- b. Has low capacity
- c. It needs energy provided by cell
- d. It needs a transporter provided by cell
- e. Can occur against a concentration gradient

71- Therapeutic window phenomenon is?

: Select one

- a. A drug reaches a maximum effect, so that increasing the drug dosage does not increase its effectiveness
- b. safe administration of a medication to a patient who is allergic to it
- c. The effects of drug decline both below and above a narrow range of doses
- d. the concentration range of drugs giving maximum drug effect
- e. None of the selection

72- The following decrease the renal Clearance of drugs except?

Select one:

- a. Hypovolemia
- b. Acute or chronic glomerulonephritis
- c. Increase in rate of urine flow
- d. Inhibition of active tubular secretion of a drug
- e. binding of drug to albumin in plasma

73- All following combinations about therapeutic uses of antibiotics are TRUE EXCEPT?

: Select one

- a. Clindamycin: dental infections
- b. Chloramphenicol: bacterial conjunctivitis
- c. Tigecycline: Intra abdominal infections
- d. Linezolid: Vancomycin resistant Enterococcus infections
- e. Gentamicin: respiratory tract infections

74- All following about sulphonamides drugs are TRUE EXCEPT?

Select one:

- a. Flumazenil is useful topically in prevention and treatment of infection in burns
- b. Sulphadoxine is useful in treatment of malaria
- c. co-trimoxazole useful in treatment of urinary tract infections
- d. Sulphasalazine is useful in chronic inflammatory bowel diseases
- e. Sulphacetamide is useful topically in ear infections

75- Variation in sensitivity of the drug within the population can be known from?

: Select one

- a. Maximal efficacy

- b. Therapeutic index
- c. Drug potency
- d. Grace dose-response curve
- e. Quantal dose-response Curve

76- All following are adverse effects of sulphonamides drugs EXCEPT?

: select one

- a Crystalluria
- b. Hypersensitivity reactions
- c. Leukopenia
- d. Kemicterus
- e. fever

77- The following is not a therapeutic use of praziquantel?

: select one

- a. cerebral cysticercosis
- b. Enterobiasis (Enterobius vermicularis infestation)
- c. Schistosoma haematobium infestation.
- d. Hymenolepus nana infestation.
- e. Taenia solium infestation of small intestine.

78- All following about alpha and beta adrenergic agonists are true EXCEPT?

: Select one

- a. Clonidine is rarely used as antihypertensive drug
- b. Mucosal decongestant can be used in hypertensive patients
- C. Mucosal decongestant can not be used in children under 2 years
- d. Isoprenaline increases systolic and decreases diastolic blood pressure
- e. Adrenaline has rapid and short duration of action

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

: select one

- a. Warfarin- CYP2C9
- b. Omeprazole- CYP3A4
- c. NSAIDs- CYP2C9
- d. warfarin- Vitamin K epoxide reductase
- e. Analgesics- CYP2D6

80- Pharmacopoeia includes list of established drugs and medicinal preparation with the description of their?

select one:

- a. Physical properties

- b. Identification test
- c. Purification test
- d. potency test
- e. All the selections

Regarding PROCAINE PENCILLING, all the following are correct EXCEPT?

Select one:

- a. It is given im
- b. It serves as depot forms
- C. It is absorbed slowly
- d. It persists for at low levels for long time
- e. it is given orally

Aminoglycosides, one of the following is FALSE?

Select one

- a Loop diuretics decrease ototoxicity and nephrotoxicity of Aminoglycosides
- b. Contraindicated during pregnancy
- c. Beta Lactam antibiotics potentiate their antibacterial activity
- d. Potentiate the effect of neuromuscular blockers
- e Adverse effects are dose related

Concerning fourth generation of cephalosporins, all the following are correct EXCEPT?

Select one

- a. It is resistant for beta lactamase.
- b. It has more activity than fifth generation against gram positive bacteria.
- C. Cefepime and cefepime are members.
- d They are given parentally
- e. It has ability to penetrate pores.

One the following accurately explains the transmembrane signalling induction implicated in steroid hormone action?

Select one:

- a. Action on a membrane spanning tyrosine kinase
- b. Activation of a G protein which activates or inhibits adenylyclase
- c. Diffusion into the cytoplasm and binding to an intracellular receptor
- d. Diffusion of STAT molecules across the membrane
- e Opening of transmembrane ion channels

All of the following about alpha and beta adrenergic agonists are true EXCEPT?

Select one

- a. Clonidine is rarely used as antihypertensive drug
- b. Mucosal decongestant can not be used in hypertensive patients
- c. Mucosal decongestant can be used in children under 2 years
- d. Isoprenaline increases systolic and decreases diastolic blood pressure
- e Adrenaline has rapid and short duration of action

Intravenous sodium bicarbonate is used for treatment of poisoning of the following drug?

Select one

- a Aspirin.
- b. Opioids
- c. Paracetamol
- d Iron
- e. Benzodiazepines

Hyperkinesia has a paradoxical effect in children which is produced by the following drug?

Select one

- a. Amphetamine
- b. Phenobarbitone.
- c. Corticosteroids,
- d. Salbutamol.
- e. Tetracyclines

All the following about pharmacodynamics of anti-muscarinic drugs Except?

Select one

- a. Causes Central stimulant effects.
- b. Decrease Lacrimation in the eye.
- c. Reduce bronchial secretion.
- d. Increase acid secretion of the GIT.
- e. Prolonged intestinal transit time.

Which term best explains a drug that inhibit the effects of adrenaline at its receptors by interaction with those receptors without activating them?

Select one

- a. Pharmacological antagonist
- b. Partial agonist
- c. Physiological antagonist
- d. Chemical antagonist e Noncompetitive antagonist
- e. Noncompetitive antagonist

The following do not match except?

- a. Interferon alfa-2b: Stimulation of appetite, restlessness motor overactivity

- b. Ganciclovir: Neutropenia
- C. Zidovudine: Peripheral neuropathy
- d Oseltamivir: Bronchospasm.
- e Amantadine Neuraminidase inhibitor against influenza A2

All the following adverse effects occur with cholinomimetics except?

- a Bronchospasm
- b. Abdominal pain
- c. Urine retention
- d. Miosis
- e Bradycardia

All following about aminoglycosides are TRUE EXCEPT?

- a. Effective against aerobic bacteria only
- b Useful in serious Gram negative bacilli infections
- c. Eliminated by kidneys by glomerular filtration with no significant metabolism
- d. Accumulation occurs in renal cortex, endolymph and perilymph of External ear
- e. Used in serious Gram positive infections like bacterial endocarditis

Concerning pregnancy, pregnant patient should be warn about the following EXCEPT?

- a Smoking
- b. Alcohol.
- c. Over counter drugs
- d. Drug Abuse
- e Milk

Concerning atropine-like drugs poisoning, all the following are found EXCEPT?

- a Hot, dry and flushed skin
- b. Tachycardia
- C. Miosis
- d. Blurred vision
- e Delirium

Regarding BETA LACTAM antibiotics are the Following are facts of carbapenems except?

- a. they can not penetrate CSF
- b. they have broader spectrum than other BETA-LACTAMS
- c. they inhibit cell wall by binding to PBP
- d they are eliminated unchanged in urine
- e significant PAE against gram negative

One of the following is WRONG about macrolides?

- a. Erythromycin is effective against gram positive organisms
- b. Clarithromycin is effective against gram positive bacteria and haemophilus influenzae
- c. Azithromycin is effective against Gram negative bacteria and chlamydia
- d. Azithromycin has Long half life (40 hrs)
- e Erythromycin is useful in peptic ulcer therapy to eradicate Helicobacter pylori

The renal excretion of which of the following is most enhanced by making the urine acidic to pH 5.5 by administration of ammonium chloride?

- a Weak organic base with pka of 6.5
- b. Weak organic base with pka of 5

- c. Weak organic acid with pka of 4.5
- d. Weak organic acid with pka of 3.5
- e. Weak organic base with pKa of 4.

Regarding prescription, the following is the meaning of ac abbreviation?

- a. Twice daily
- b. at once
- c. Before meals
- d. Three times daily
- e. after meals

All the following are adverse effects of anti-muscarinic are true Except?

- a Dry mouth
- b. Bradycardia**
- c. Constipation
- d Hot flushed dry skin
- e Blurred vision

Stimulation of M2 receptors in heart results in the following except?

- inhibition of spontaneous activity of SA node leading to bradycardia .a
- Decrease of calcium flux into myocardial muscle leading to decrease in contractility .b
- Opening of special Ach-sensitive K-channels in atrial muscle which enhance efflux of K .c
- Enhanced conduction of impulses across the A-V node .d
- Decrease in intracellular CAMP level in myocardial muscle .e

Concerning toxicity of PENICILLIN, all the following are true EXCEPT?

- a. Anaphylaxis
- b. Urticaria
- c. Severe pruritis.
- d. Constipation if given orally
- e. Nephritis

In anti-retroviral therapy for HIV infection: Which one of the following is false?

- a. Zalcitabine causes peripheral neuropathy
- b. Nevirapine directly inhibits reverse transcriptase
- c. The combination of zidovudine and stavudine is synergistic against HIV.
- d. The protease inhibitors are more effective than other anti-retroviral drugs in lowering RNA copies of HIV
- e. Lamivudine is longer acting than didanosine or zidovudine

Tigecycline, all following are TRUE EXCEPT?

- a. Effective against methicillin resistant staphylococcus
- b. Effective against vancomycin resistant enterococci
- c. Effective against Acinetobacter baumani
- d. Given iv infusion every 12 hrs
- e Dose adjustment is required patients with renal impairment

Competitive antagonists?

- a. Dissociate from receptors faster than their respective agonists

- b. Alter the shape of the log dose response curve of an agonist
- c. According to the rate theory have low dissociation rate constants
- d. Initiate the opposite cellular response to receptor occupancy to that obtained by the agonist
- e. All the selection

Drug having a low therapeutic index, this drug should be?

- a Used mostly orally
- b. Used mostly intravenously
- c. Considered a potentially toxic substance
- d. Given only in submilligram doses
- e. Given only in milligram doses

Which one of the following best explains a drug that suppresses the slope of the log dose response curve and reduces the maximal response to another drug despite absence of its action?

- a Physiological antagonist
- b. Competitive antagonist
- c. Noncompetitive antagonist
- d. Partial agonist
- e None of the selection

Which of following about dopamine is incorrect?

- a. Activates alpha, beta and dopaminergic receptors
- b. Can be given by intravenously and orally
- c. At low dose, increases renal blood flow
- d. At high dose, causes vasoconstriction

e. Useful in cardiogenic and septic shock

All the following statements about indirect cholinomimetics are true except?

a Edrophonium improves myasthenic crisis in myasthenia gravis

b. Neostigmine aggravates muscle weakness when used for diagnosis of myasthenia gravis

C. Physostigmine may be used in treatment of atropine poisoning

d Pyridostigmine is useful to improve neuro-muscular transmission in myasthenia gravis

e Donepezil is useful in treatment of Alzheimer's disease

Regarding geriatric prescribing, all the following are the most frequent drugs which induce adverse effects EXCEPT?

a Cardiovascular active agents,

b. Analgesics

c. Antibiotics

d. Vitamins

e Anticoagulants.

Two drugs having similar effects are termed as?

a Heterergic drugs

b. Isomer drugs

c. Homergic drugs

d Antagonistic drugs

e None of the selection

All the following are therapeutic uses of cholinergic antagonist's drugs Except?

a. Parkinson's disease

b. Motion sickness.

c. Bradycardia following MI

d. In bronchial asthma

e. Benign prostatic hypertrophy

The following are true about total drug clearance (CL total from body except?

a It is the sum of clearance by all organs of elimination for drug

b. It is inversely related to drug plasma half life

c. It can be determined by dividing dose of drug administered M AUC of drug

d t is calculated from dosing rate of drug divided plasma concentration at steady state

e It is increased in zero-order kinetics

RED MAN SYNDROME is one of the side effects of the following drug?

a Penicillin

b. Cephalosporin

c Vancomycin

d. Erythromycin

e. Aspirin.

Phenylephrine, all are true EXCEPT?

a Direct alpha one adrenoceptor agonist Useful in treatment of anaphylaxis

b. Nasal mucosal decongestant

c. Useful in treatment of anaphylaxis

d. Mydriatic agent

e Vasoconstrictor agent with local anesthetics

All following are adverse effects of sulphonamides drugs EXCEPT?

- a Crystalluria
- b Stevens Johnson syndrome
- C. Haemolytic anaemia
- d mental retardation in newborn babies
- e Diarrhea

Quinolones, one of the following is FALSE?

- a Nalidixic acid is mainly used in respiratory and urinary tract infections
- b. Ciprofloxacin is effective against Gram negative Gram positive and Atypical bacteria
- C. Levofloxacin is used in treatment of respiratory and urinary tract infections
- d. Moxifloxacin is effective against Gram negative. Gram positive and Anaerobic
- e can cause rupture of Achilles tendon

All following combinations about therapeutic uses of antibiotics are TRUE EXCEPT?

- a Clindamycin sexually transmitted infections
- b. Chloramphenicol bacterial conjunctivitis
- c. Tigecycline intra abdominal infections
- d. Azithromycin respiratory tract infections
- e Gentamicin septicemia

The following are antibiotics which inhibit cell wall synthesis EXCEPT?

- a Erythromycin
- b Vancomycin
- D. Cycloserine

d BLactams

e Bacitracin

The following route of administration is an alternative for intravenous infusion in children

a IM route

b. Oral route

C. Rectaroute.

d. Subcutaneous route

e Transdermal patches

Concerning POSACONAZOLE, as an antifungal drug all the following are correct EXCEPT?

a It is the drug of choice in treatment of meningitis

b. it is the only azole which has activity against mucormycosis

c. It is used in prophylaxis of fungal infection in case of cancer chemotherapy

d. it increases level of cyclosporine and tacrolimus

e it is the broadest spectrum azole

Regarding antifungal agents, the following is the mechanism of action of TERBINAFINE?

a. Formation of artificial pores in cell membrane

b. Inhibition of nucleic acid synthesis

C. Disruption of microtubules.

d. Inhibition of squalene epoxidase enzyme

e. Inhibition of lanosterol

Phocomelia is due to ingestion of the pregnant woman of the following drug?

- a Thalidomide
- b Sodium Valproate
- c. Aspirin
- d Lithium
- e androgen

Drug X is 60% absorbed from small intestine This drug is given oral, and extraction ratio by liver is 0.5 then oral F is"

- a 03
- b. 0.4
- C. 0.5
- d 0.6
- e 0.8

Partial agonist can antagonize the effects of a full agonist because it has?

- a. High affinity but low intrinsic activity
- b Low affinity but high intrinsic activity
- c. No affinity and low intrinsic activity
- d High affinity but no intrinsic activity
- e None of the selection

One of the following is true of Primaquine in treating malaria?

- a. It is effective in suppressive prophylaxis in endemic areas of malaria.
- b. It is hepatotoxic due to formation of free radicals
- c. It is effective in radical cure of P vivax malaria
- d. It can cause CNS toxicity and cardiac arrhythmias
- e. It does not stop transmission of P.falciparum malaria by Anopheles mosquitoes

Cytochrome P-450 enzyme system in liver Which one of the following is false?

- a It shows individual and species variation in amount and activity of its isoforms
- b. It includes hundreds of isoforms.
- C Each isoform can metabolize many drugs
- d Each isoform is usually encoded for by a single specific gene
- e its inhibition occurs usually Within tow days after taking ciprofloxacin

All following about tetracyclines are TRUE EXCEPT?

- a Effective against Gram positive and Gram negative and anaerobic bacteria
- b Should be avoided in renal disease except doxycycline and minocycline
- C. Causes yellow discolouration and hypoplasia of teeth in children
- d. Should be avoided in pregnancy
- e Useful in treatment of Brucellosis, Chronic bronchitis and acne

The following match except

- a Chloroquine Inhibition of polymerase inside Paliparum
- b. Emetine SC daily for 5 days can prozoites or in acute liver abscess

- c. The capacity of absorption for simple lipid diffusion is larger than a stated diffusion
- d. Quinine bisulfate is useful to treat acute attacker of chloroquine-resistant *Plasmodium falciparum* malaria
- e. Pentostam (sodium antimony gluconate) is useful IV in earnest African sleeping sickness

Plasma cholinesterase: Which one of the following is false?

- a. is not specific for acetylcholine.
- b. is inhibited by organophosphate insecticides
- c. destroys acetylcholine more slowly than other choline esters like dibutyl choline.
- d. is found at cholinergic synapses
- e. is synthesized by liver.

Mebendazole One of the following is false?

- a. is effective for mixed infestation with *Ascaris lumbricoides* and *Enterobius vermicularis*
- b. its effective to eradicate cysts of *Entamoeba histolytica* large intestine
- c. It interferes with glucose uptake by *nerdaleles* due to damage of their microtubules
- d. it is must be chewed well before swallow mo.
- e. it is teratogenic in animals

Ephedrine, all following are true EXCEPT?

- a. Non-selective alpha and beta agonist
- b. Mixed-acting adrenergic agonist
- c. Can be given orally and IV
- d. It increases systolic and diastolic blood pressure
- e. Can be used as nasal decongestant

Concerning drug poisoning, cyanide poisoning is treated by the following antidote?

- a Naloxone
- b Flumazenil
- c. Digoxin Antibodies
- d. Acetylcysteine
- e An antidote kit consists of nitrites and thiosulfate

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- c It interferes with glucose uptake by nematodes due to damage of their microtubules
- d. It is must be chewed well before swallowing
- e It is teratogenic in animals

Which one of the following statements is false?

- a Binding of drugs to plasma albumin is not specific
- b. Binding of drug to plasma albumin is reduced in renal failure with acidosis

- c. High % binding of drugs to plasma albumin prolongs their plasma half-life
- d. Basic drugs bind to alpha 1-acid glycoprotein in plasma instead of albumin
- e. Albumin-bound drug can be transported inside cells by facilitated diffusion.

All following drugs are commonly involved in causing adverse drug reactions EXCEPT?

- a. Antibiotic
- b. Antihypertensives
- c. Antifungal
- d. Diuretics
- e. Warfarin

Drugs producing allergic reaction generally act as?

- a. Complete antigens
- b. Haptens
- c. Antibodies
- d. Mediators
- e. All the selections

Activation of nicotinic cholinergic receptors produces all the following except?

- a. Stimulation of autonomic ganglia
- b. Stimulation of motor end plates at NM to produce skeletal muscle contraction
- c. Enhancing vascular endothelium to secrete nitric oxide
- d. Activation of the adrenal medulla to secrete noradrenaline and adrenaline
- e. Facilitation of opening of sodium and potassium ion channels in post-synaptic membranes

Stimulation of beta two adrenoceptor causes all following EXCEPT?

- a Bronchodilatation
- b. Skeletal muscle arterioles vasodilatation
- c. Relaxation of uterus
- d Hypoglycemia
- e. Hypokalemia

Drug A has a CL total of 2 L/h, and plasma half life of 35h. Vd of drug (in L) IS?

- a 60
- b. 10
- C 15
- d 25
- e 40

All following about sulphonamides drugs are TRUE EXCEPT?

- a Flamazine is useful topically in prevention and treatment of infections in burns
- b. Sulphadoxine is useful in treatment of malaria
- C. co-trimoxazole is useful in treatment of meningitis
- d. Sulphasalazine is useful in chronic inflammatory bowel diseases
- e. Sulphacetamide is useful topically for eye infections

therapeutic window

- a The ratio of LD50 to the ED50
- b The Dosage range between the minimum effective therapeutic concentration and the minimum toxic concentration

c The Dosage range between the minimum effective therapeutic concentration and the maximum toxic concentration

d All the selections

e None of the selections

What is the best method helping in taking a decision about the therapeutic superiority of a drug over its congeners?

a. Potency

b. Wide range of activity

c. Efficacy

d. Variability

e Affinity

If the combined effect of two drugs acting by the same mechanism is equal to the allegebraic sum of their individual effect is called

a Antagonism

b. Additive effect

C. Potentiation

d None of the selection

e. All the selections

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The following drugs are useful against herpes zoster except?

- a. Famciclovir
- ib. Acyclovir
- C. Cidofovir
- d. Valaciclovir

e Interferon - alpha 2b

The following decrease the rate of drug metabolism in the liver except

- a Poor nutrition
- b Chronic smoking
- c Ciprofloxacin,
- d Grapefruit.
- E erythromycin

Pharmacogenetics, all following matches are true EXCEPT?

- a. CYP2D6. antidepressants
- b. CYP2C19 warfarin
- C. CYP2C9: NSAIDS
- d. N-acetyltransferase-2 isoniazide

e. TPMT: azathioprine

All the following about scopolamine are correct Except?

a It is obtained from hyocyamus Niger plant

b. Is amine derivate from atropine given by inhalation in treatment of asthma

c. It is useful as antidiarrheal and anti-spasmodic

d Is Used in premedication as adjunct in anesthetic procedure

e Inhibit muscarinic receptor M1 in vomiting center

Acetylcholine and atropine action on the muscarinic receptors is a classical example of

a Competitive antagonism

b. Non-competitive antagonism

c. Irreversible antagonism

d. Physiological antagonism

e. Chemical antagonism

The following match except?

a Ribavirin inhibition of viral mRNA synthesis in cell nucleus

b. Idoxuridine eye drops stinging sensation in eys local allergy

c Oseltamivir prodrug effective against Influenza A or B or H5N1 of avian fue

d. Zanamivir Bronchospasm

e Gancyclovir non-nucleoside, Nephrotoxic

The following prolong the plasma half-life of a drug except?

a. Slowing drug absorption

- b. Competitive inhibition of hepatic inactivation of drug by another drug
- c. Inhibition of active renal tubular secretion of drug.
- d. Entero-hepatic cycle of drug
- e. Disease of organ of drug elimination.

Sympathetic nervous system when compared to parasympathetic nervous system?

- a. It is thoracolumbar when compared to craniosacral for parasympathetic nervous system
- b. Its postganglionic fibers are longer than those of parasympathetic nervous system
- c. Its neurotransmitter is noradrenaline as compared to Ach in parasympathetic system
- d. It is ergotropic as compared to trophotropic for the parasympathetic system
- e. Both systems are activated during exercise

Regarding mechanism of action of AMPHOTERICIN B. the following are included EXCEPT?

- a. It binds with ergosterol in cell membrane
- b. Then it produces artificial pores
- c. Leakage of important cell components
- d. Cell death.
- e. Also it interferes with mitosis

One of the following is true regarding drug receptors?

- a. All drugs act through specific receptors
- b. All drug receptors are located on the surface of the target cells
- c. Agonists induce a conformational change in the receptor
- d. Partial agonists have low affinity for the receptor
- e. None of the selection

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- e Disease of organ of drug elimination

Acyclovir Which of the following is false?

- a inhibits DNA synthesis of herpes viruses.
- b. is indicated by iv administration in herpetic encephalitis
- c. its blood level is high if valacyclovir is given orally
- d May precipitate in renal tubules with IV therapy
- e is effective against RSV virus infection in infants.

All of the following about cholinergic antagonist drugs are true Except?

- A Atropine is partly metabolized and partly excreted unchanged
- b Hyoscine may produce sedation effects
- C Atropine eye drops has short duration less than two days
- d. Atropine and diphenoxylate are used as anti-diarreal
- e Atropine IV is used to counteract muscarinic effects

For valid reliable phase 3 clinical trial on new drug, the following are needed except?

- a Equivalent groups of patient constructed by random allocation
- b Patients are treated concurrently and in parallel
- c Use of placebo and positive control

d Double blind clinical trial design.

e Patient must not be told about nature of test drug or design of trial

Adrenaline, which one of following statement is FALSE?

a Causes vasoconstriction of skin and mucous membrane arterioles

b. Causes vasodilation of skeletal muscle blood vessels

C. Positive inotropic and chronotropic effect on heart

d Large doses, increases systolic and decreases diastolic blood pressure

e is useful in cardiac arrest

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e Atropine IV is used to counteract muscarinic effects

Stimulation of alpha adrenoceptors causes all following EXCEPT?

- a Constriction of vascular smooth muscles
- b. Myosis
- c Increase peripheral vascular resistance
- d. Hyperkalemia
- e Contraction of bladder sphincter

Dose response curves are used for drug evaluation in the animal laboratory and in the clinic
 Quantal dose-response curve often

- A. used to determining the therapeutic index of a drug
- b. Used tor determining the maximal efficacy of a drug
- c Invalid in the presence antibiotics of the drug being studied
- d obtained from the study of intact subject out not from isolated tissue preparations
- e Used to determine the statistical variation(standard deviation) of the maximal response to the drug

All the following are atropine poisoning are true Except?

- a Convulsion
- b. hypothermia
- c. Hallucination
- d. Delirium.
- e Nasal congestion

Drug having dose-response curves for different effects that are widely separated on the dose axis, the drug ?

- a Highly potent
- b Highly efficacious
- c Highly toxic

d Highly selective

e None of the selection

Which statement regarding fungal growth and morphology is CORRECT?

a. Pseudohyphae are produced by all yeasts.

b Molds produce hyphae that may or may not be partitioned with cross-walls or septa

c Conidia are produced by sexual reproduction

d Most yeasts reproduce by budding and lack cell walls.

e Most pathogenic dimorphic molds produce hyphae in the host and yeasts at 30°C

Which of the following is a polyene antifungal agent used for many life-threatening fungal infections?

a. Amphotericin B

b Griseofulvin

c Caspofungin

d Miconazole

e Nystatin



الطب والجراحة لجنة

