

Doctor 021

PHARMACOLOGY PAST PAPER



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Midterm collected Questions of pharmacology 021:

1) The science concern about the diagnosis, prevention and treatment of human?

- A. Toxicology
- B. Medical pharmacology
- C. pharmacodynamics
- D. Pharmacy
- E. Pharmacokinetics

Ans: b

2) All of the following are true regarding receptor up-regulation, EXCEPT?

Ans : Prolonged use of receptor agonist

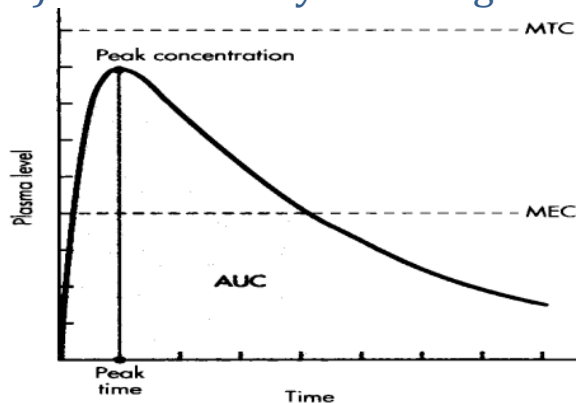
3) Which of the following make the urine alkane ?

Ans: NaHCO_2

5) Antagonist has:

Ans :Affinity and no intrinsic activity

6) Look carefully at this figure What is the route of administration used?



- A. oral
- B. Rectal
- C. Intravenous bolus injection
- D. Intravenous infusion
- E. Inhalation

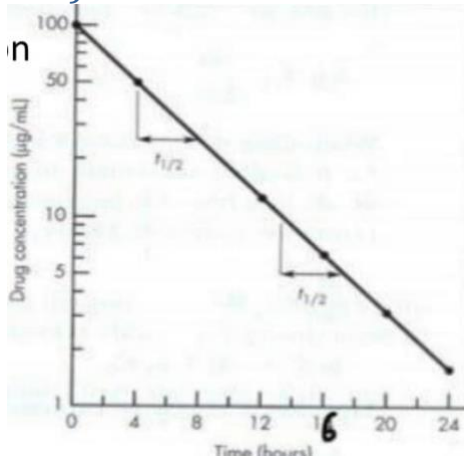
Ans : A

7) What is the median effective dose , or the 50% of the individuals give the quantal effective response?

Ans: ED50

8)the route of inflammation?

Ans: IV bolus



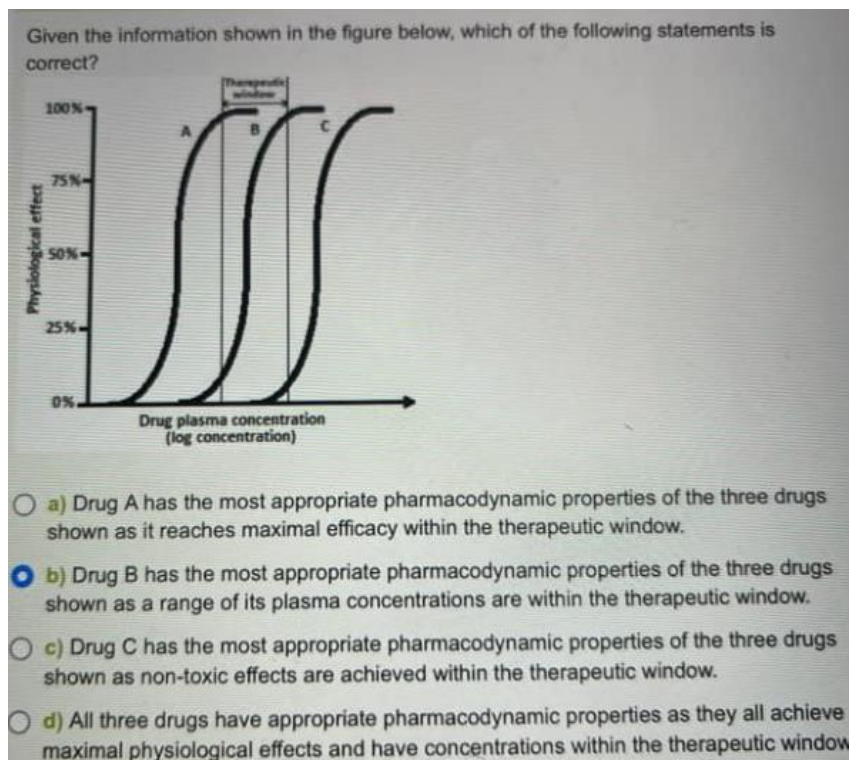
9) Dose 650 ,Plasma conc=5 ,Vd=??

Ans : 130 L

10) T1/2 if VD=200 and CL=20

Ans : 7 hr

11)



12)the most important mechanism for drugs to enter the body ?

Ans: Lipid diffusion

13) the safest and affordable way for taking drugs is?

Ans: orally

14)drug clearance :

Ans: it is the volume of blood or plasma that is completely cleared of drug per unit time

15)to excrete weak acids faster in urine ,we give the patient :

Ans: sodium bicarbonate

16)which of the following is responsible for the metabolism of more than 50% of prescription drugs metabolized in the liver ?

Ans:CYP3A4

17)First pass effect is:

Ans: drugs absorbed from GIT must pass through the gut wall and portal vein to the liver before reaching the systemic circulation

18) Bioavailability :

Ans: it is the fraction of the uncharged active drug reaching the systemic circulation ,following drug administration ,irrespective of the route .

19) the medical pharmacology is:

Ans: is the science that deals with the use of drugs for diagnosis, prevention and treatment of human disease .

20) the high VD means :

Ans: the drug concentration is high in tissue proteins .

21) the wrong about steady state is:

Ans: it needs single dose

22)the wrong sentence is :

Ans: the drugs always safe.

23)the patient was taking a drug for along period of time, as a result the responsiveness to the drug by his body decreased what we mean by that?

Ans: Tolerance

24)the disadvantage of giving the drug IV is ?

Ans: produce high initial concentration of the drug that might be toxic

Final collected Questions of pharmacology 021:

Clonidine reflex hypertension which α -blocker we use to produce hypotension?

A.prazosin

B.Phen...

c.Phen.....

ans:A

Used to provide short term relief of heart failure symptom:

A -fenoldopam

B- dopamine

C- isoproterenol

D- ritodrine

E- ephedrine

Ans:B

All of the following activate adenylyl cyclase and increase con. cAMP except

A-d1

B- d2

C- b1

D-b2

E-b3

Ans:B

Used to treat toxic shock syndrome?

Nafcillin

Not affected by muscarinic receptors?

- A. Atrioventricular node
- B. uterus
- C. Sphincter of iris muscle

Ans: B

Atropine overdose cause each of the following except?

- A. Delirium
- B. Tachycardia
- C. Sedation

Ans: C

Pilocarpine produce hypertension after initial hypotension via which RECEPTOR?

- A. M1
- B. M2
- C. M3

Ans: A

Among the following which is not a true sentence:

- A. The cell walls of bacteria are essential for their normal growth
- B. Peptidoglycan provides rigid mechanical stability for bacterial cell wall
- C. In gram-positive bacteria the cell wall is 50 to 100 molecules thick
- D. The cell wall is 50 to 100 molecules thick in gram-negative bacteria
- E. All the above

ans: D

Among the following which is the least resistant to B-lactamases:

- A. Nafcillin
- B. Oxacillin
- C. Cloxacillin
- D. Dicloxacillin
- E. Penicillin

ans: E

Sulphonamides are almost obsolete nowadays because of all the following except:

- A. Bacterial resistance
- B. Their Toxicity
- C. Their Bacteriostatic properties
- D. Their bactericidal effects
- E. They are associated with Blood dyscrasia

ans: D

Regarding Static effects of chemotherapeutic drug which is false:

- A. Occurs when the toxic effects of a chemotherapeutic drug are reversible
- B. Depends on the pharmacological properties of the drug
- C. Occurs when the toxic effects of a chemotherapeutic drug are irreversible
- D. Depends on the immune system function
- E. All the above

ans : C

All the following B-lactamase inhibitor combinations are parenteral formulations except

- A. ampicillin-sulboctam
- B. ticorillin-clavulanic acid
- C. piperacillin-tazobactam
- D. amoxicillin-clavulanic acid
- E. All of the above

ans: D

Defining therapeutic success of pneumonia involves All of the following except

- A. Purulent sputum production
- B. Frequency of dosing
- C. Normalization of the white blood cell count
- D. Reversal of tachypnea and hypoxia
- E. Resolution of fever

ans: B

Regarding Sulfonamides, which is true

- A. They are considered as structural agonists of para-aminobenzoic acid(PABA)
- B. They are considered as structural analogs and competitive antagonists of Folic acid
- C. They are considered as structural analogs and competitive antagonists of para- aminobenzoic acid (PABA)
- D. They are considered as structural antagonists of penicillin
- E. None of the above

ans: C

Regarding antibiotics which is true

- A. Patients should not be instructed to continue antibiotics for the full

duration indicated if they feel better to avoid resistance

- B. If the patient's recovery is delayed from what is reasonably expected the diagnosis should not be reconsidered
- C. Influenza pneumonia and viral upper respiratory infections for example are usually controlled by antibiotics
- D. Many patients receive lengthy courses of antibiotics that probably should not have been started
- E. All of the above

ans:D

Regarding chemotherapy whice it is true

- A. The less closely related the undesirable cells are the normal human cell,the more difficult the task of finding a magic bullet
- B. The more closely related the undesirable cells are the normal human cell,the less difficult the task of finding a magic bullet
- C. The more closely related the undesirable cells are the normal human cell,the more difficult the task of finding a magic bullet
- D. Effective chemotherapeutic drug are not affective by the common legacy human share with all living organism
- E. None of the above

Ans:c

the synergism that occurs between aminoglycoside and B-lactam antibiotic drug is partially due to which of the following

- A. B-lactam antibiotics will reverse the negative effects of both low pH and low oxygen tension on the ability of amionglycosides to penetrate bacteria.
- B. B-lactam antibiotics will decrease pH and insduse aminoglycosides to penetrate bacteria.

C. B- lactam antibiotics will decrease oxygen and induce aminoglycosides to penetrate bacteria.

D. B-lactam antibiotics will decrease pH and inhibit aminoglycosides to penetrate bacteria.

E. All the above.

ans:A

regarding Beta lactam Antibiotics which is false

A. All contain a beta lactam ring

B. Work to inhibit cell wall synthesis

C. The beta lactam ring is the active functional group where antibiotic activity resides

D. Work to inhibit protein biosynthesis

E. All the above

ans:D

Regarding the clinical uses of nitrofurantoin which is false

A. The singular indication for nitrofurantoin is the treatment and long-term prophylaxis of lower UTIS caused by susceptible bacteria

B. it is used as a bacterial suppressant

C. It is often used prophylactically post intercourse in women with chronic UTIS

D. The bacteriostatic or bactericidal activity of nitrofurantoin is concentration dependent

E. None of the above

ans : B

Regarding the quinolone antibiotics which of the following is true

A. The quinolone antibiotics target bacterial RNA gyrase and

Topoisomeras

- B. The quinolone antibiotics target bacterial DNA gyrase and Topoisomeras which is responsible for the continuous introduction of positive supercoils into RNA
- C. The quinolone antibiotics target bacterial viral gyrase
- D. The quinolone antibiotics target bacterial DNA gyrase and Topoisomeras which is responsible for the continuous introduction of negative supercoils into DNA
- E. None of the above

Ans:D

Regarding Erythromycins which is true

- A. It has Same spectrum of penicillin, so substitutes in penicillin allergic patients.
- B. It has very limited distribution in the body
- C. It Cannot be given orally
- D. Very toxic cannot be given to children
- E. All the above Clear my choice

ans: A

Resistance to Chloramphenicol is due to

- A. Changes in the ribosome binding site
- B. Decreased affinity for the drug
- C. Decreased permeability
- D. Plasmids that code for enzymes that degrade it
- E. All of the above

ans: E

Cefepime is...

- A. First generation
- B. Second generation
- C. Third generation
- D. Fourth generation
- E. Fifth generation

ans : D

Which of the following does not belong to quinolones

- A. Nalidixic acid
- B. Norfloxacin
- C. Ciprofloxacin
- D. Arsenic
- E. Gatifloxacin

ans: D

Among the following which is true sentence

- A. The cell walls of bacteria are not essential for their normal growth
- B. Peptidoglycan provides rigid mechanical stability for bacterial cell wall
- C. In gram-negative bacteria the cell wall is 50 to 100 molecules thick
- D. The cell wall is only 1 or 2 molecules thick in gram-positive bacteria
- E. All the above

ans: B

Which of the following is a 3rd generation cephalosporin that has the best activity against *P. aeruginosa* infections

- A. Cefixime
- B. Cephmandole

- C. Cefalexin
- D. Cefoperazone
- E. Cefepime

ans: D

The following drug is effective in treatment of meningitis caused by *Haemophilus influenzae* if administered orally

- A. Penicillin G
- B. Gentamicin
- C. Chloramphenicol
- D. Ticarcillin
- E. Cefepime

ans : C

Each of the following statements concerning the mechanism of action of antimicrobial drugs is correct EXCEPT

- A. β -Lactams interfere with peptidoglycan cross-linking by binding to transpeptidases called PBPS
- B. Sulfonamides affect folic acid synthesis in bacteria, a pathway that does not occur in human cells
- C. Quinolones, such as ciprofloxacin, act by inhibiting the DNA gyrase of bacteria
- D. Macrolides are bactericidal drugs that disrupt cell membranes by a detergent-like action
- E. Aminoglycosides are bactericidal drugs that inhibit protein synthesis

ans: D

The following antibiotics-chemotherapeutic agents are primarily bactericidal

- A. Sulfonamides
- B. Aminoglycosides
- C. Tetracyclines
- D. Chloramphenicol
- E. Clarithromycin

ans: B

Regarding Chloramphenicol which is false

- A. Chloramphenicol is rapidly and completely absorbed from the gastrointestinal tract
- B. 60% of the drug is bound to serum albumin
- C. The potentially fatal nature of chloramphenicol induced bone marrow suppression restricts its use
- D. Chloramphenicol is recognized as first choice treatment of choice for any bacterial infection
- E. All the above

ans: D

Regarding the mechanism of action of chloramphenicol, the drug

- A. Is bactericid
- B. Binds to the 50S ribosomal subunit
- C. Causes misreading of the code on the mRNA template
- D. Inhibits transpeptidases
- E. Stabilizes polysomes

ans: B AND D

Which of the following antimycobacterial drug inhibits the synthesis of mycolic acids in bacterial cell wall

- A. Daptomycin
- B. Vancomycin
- C. Basitracin
- D. Isoniazid
- E. Etambutol

ans: D

Which of the following antibiotic has an effect on bacterial DNA.

- A. Amikacin
- B. Bacitracin
- C. Teicoplanin
- D. Ciprofloxacin
- E. Meropenem

ans: D

Which of the following doesn't belong to Aminoglycosides

- A. Gentamicin
- B. Tobramycin
- C. Streptomycin
- D. Neomycin
- E. Clarithromycin

ans: E

Which of the following antibiotics has (have) good activity against *Helicobacter pylori*

- A. Clarithromycin
- B. Tetracycline

- C. Azithromycin
- D. A and C
- E. All of the above

ans : D

Among the following antibiotics or chemotherapeutic agents, choose the one which best crosses the blood brain barrier

- A. Penicillin
- B. Cephalosporins
- C. Chloramphenicol
- D. Sulfa drugs
- E. Macrolides

ans: C

All of the following are true regarding aminoglycosides; EXCEPT

- A. They inhibit bacterial protein synthesis
- B. They are bactericidal
- C. They do not penetrate the BBB easily
- D. Dose adjustment is not necessary in patients with renal impairment
- E. They are ineffective orally in the management of meningitis

ans: D

Which of the following antibiotics you should use for a patient who is allergic only to penicillin and has been diagnosed to have enterococci infection

- A. Vancomycin
- B. Amoxicillin
- C. Ceftriaxone
- D. Cefepime

E. Cefotaxime

Ans: A

Pseudomembraneous colitis has been reported following the use of

A. Penicillin G

B. Penicillin V

C. Flucloxacillin

D. Cephalexin

E. Clindamycin

Ans:E

Red man syndrome is an adverse effect for which of the following agents

A. Amoxicillin

B. Imipenem

C. Cefazolin

D. Ceftriaxone

E. Vancomycin

ans : E

Aplastic anemia is reported complication of

A. Tigecycline

B. Nalidixic acid

C. Chloramphenicol

D. Sulfanilamide

E. Azithromycin

ans: C

Which is true about pseudomembranous colitis

- A. Can be Treated by Vancomycin
- B. It never treated by clindamycin
- C. It is overgrowth of clostridium difficile
- D. All of the above

ans: D

Parents of a 1-month-old baby are told their child has developed "gray baby syndrome." Which of the following antibiotics did the baby likely receive

- A. Tobramycin
- B. Linezolid
- C. Erythromycin
- D. Chloramphenicol

ans: D

Which of the following antibiotics exhibits a long post antibiotic effect that permits once-daily dosing

- A. Gentamicin
- B. Penicillin G
- C. Vancomycin
- D. Aztreonam
- E. None of the Above

Ans:A

Which of the following causes gray baby syndrome

- ANSWER: Chloramphenicol

The wrong statement regarding cephalosporins

- ANSWER: They are not the drugs of first choice for any infection

Which of the following is true regarding Lincomycin and Clindamycin

- ANSWER: misused by doctors in the treatment of simple sore throat or URTI

Which of the following is not correct regarding the mechanism of action of aminoglycosides

- ANSWER: Bacteria can resist aminoglycosides by producing lactamase enzyme that breaks the lactam ring

Regarding Penicillins, which is true

- ANSWER: Clavulanic acid inhibits beta lactamase

Which of the following is false regarding aminoglycosides

- ANSWER: Highly metabolized

Which of the following is not correct regarding the post-antibiotic effect of aminoglycosides

- ANSWER: They cannot be given with other drugs due to the postantibiotic effect of aminoglycosides

Methenamine effect is due to

- ANSWER: Liberation of formaldehyde

Do your best!

😊 دعواتنا معكم

