

Chemotherapy

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- *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 tor 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*

- *ANSWER : D*

- *Among the following which is the least resistant to B-lactamases*
- *A. Nafcillin*
- *B. Oxacillin*
- *C. Cloxacillin*
- *D. Dicloxacillin*
- *E. Penicillin*

- *ANSWER : 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*

- *ANSWER : 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*

- *ANSWER : C*

- *All the following B-lactamase inhibitor combinations are **parenteral** formulations except*
- *A. ampicillin-sulboctam*
- *B. ticorcellin-clavulanic acid*
- *C. piperacillin-tazobactam*
- *D. amoxicillin-clavulanic acid*
- *E. All of the above*

- *ANSWER : 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*

- *ANSWER : 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*

- *Answer: 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*

- *Answer: D*

- *Regarding chemotherapy which is true*
- *A. The less closely related the undesirable cells are to the normal human cell, the more difficult the task of finding a magic bullet*
- *B. The more closely related the undesirable cells are to the normal human cell, the less difficult the task of finding a magic bullet*
- *C. The more closely related the undesirable cells are to the normal human cell, the more difficult the task of finding a magic bullet*
- *D. Effective chemotherapeutic drugs are not effective by the common legacy human share with all living organisms*
- *E. None of the above*

- *ANSWER : 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 aminoglycosides to penetrate bacteria.*
- *B. B-lactam antibiotics will decrease pH and induce 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.*

- *ANSWER :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*

- *ANSWER :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*

- *ANSWER : 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 Clear my choice

- ANSWER : 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*

- *Answer : 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*
-
- *Answer: E*

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

- *ANSWER : D*

- *Which of the following doesn't belong to quinolones*
- *A. Nalidixic acid*
- *B. Norfloxacin*
- *C. Ciprofloxacin*
- *D. Arsenic*
- *E. Gatifloxacin*

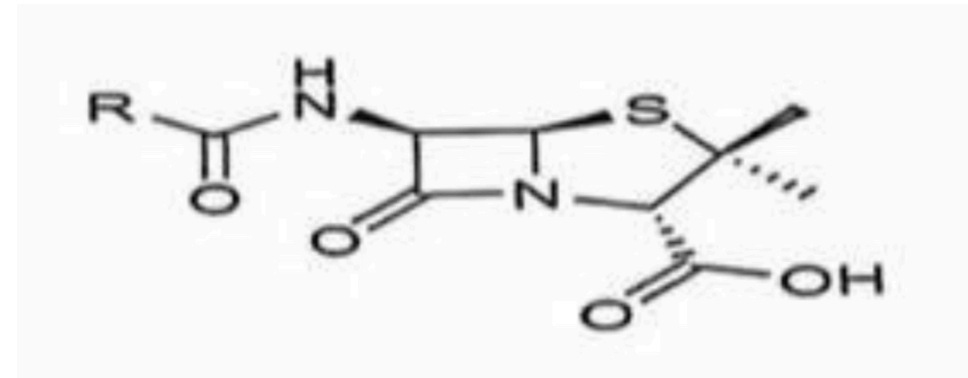
- *ANSWER : D*

- *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 tor 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*

- *Answer: B*

- *The basic backbone structure in the adjacent picture is for*
- *A. A β -lactam antibiotic*
- *B. An aminoglycoside*
- *C. A tetracycline*
- *D. A 4-quinolone derivative*
- *E. A macrolide antibiotic*

- *ANSWER : A*



- *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*

- *ANSWER : 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*

- *ANSWER : C*

- *Which adverse effect is most common with sulfonamides*
- *ANSWER :Skin rash*

- *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*

- *ANSWER: D*

- *The following antibiotics-chemotherapeutic agents are primarily bactericidal*
- *A. Sulfonamides*
- *B. Aminoglycosides*
- *C. Tetracyclines*
- *D. Chloramphenicol*
- *E. Clarithromycin*

- *ANSWER : 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*

- *ANSWER : D*

- *Regarding the mechanism of action of chloramphenicol, the drug (TEST BANK)*
- *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*

- *ANSWER : B AND D*

- Which of the following antimycobacterial drug *inhibits the synthesis of mycolic acids* in bacterial cell wall (TEST BANK)
- A. Daptomycin
- B. Vancomycin
- C. Basitracin
- D. Isoniazid
- E. Etambutol

- ANSWER : D

- *Which of the following antibiotic has an effect on bacterial DNA.
(TEST BANK)*
- *A. Amikacin*
- *B. Bacitracin*
- *C. Teicoplanin*
- *D. Ciprofloxacin*
- *E. Meropenem*

- *ANSWER : D*

- *Which of the following doesn't belong to Aminoglycosides*
- *A. Gentamicin*
- *B. Tobramycin*
- *C. Streptomycin*
- *D. Neomycin*
- *E. Clarithromycin*

- *ANSWER : 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*

- *ANSWER : 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*

- *ANSWER : 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*

- *ANSWER : 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*

- *ANSWER : A*

- *Pseudomembraneous colitis has been reported following the use of*
- *A. Penicillin G*
- *B. Penicillin V*
- *C. Flucloxacillin*
- *D. Cephalexin*
- *E. Clindamycin*

- *ANSWER : E*

- *Red man syndrome is an adverse effect for which of the following agents*
- *A. Amoxicillin*
- *B. Imipenem*
- *C. Cefazolin*
- *D. Ceftriaxone*
- *E. Vancomycin*

- *ANSWER : E*

- *Aplastic anemia is reported complication of*
- *A. Tigecycline*
- *B. Nalidixic acid*
- *C. Chloramphenicol*
- *D. Sulfanilamide*
- *E. Azithromycin*

- *ANSWER : 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*

- *ANSWER : D*

- *Which of the following causes gray baby syndrome*
- *ANSWER: Chloramphenicol*

- *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*

- *ANSWER : 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*
-
- *ANSWER : A*

- *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 post-antibiotic effect of aminoglycosides*

- *Methenamine effect is due to*
- *ANSWER: Liberation of formaldehyde*

The End