exhar University

culty of Pharmacy

بعو الم الزعين الزعيد Final Exam

Therapeutics I

Date: 4-1-2014

Time: 2 h



swer the following questions

(Choose the most accurate answer)

35Mark

patient needs antibiotic treatment for native valve, culture-positive infective enterococcal

ocarditis. His medical history includes a severe anaphylactic reaction to penicillin G during the

year. The best approach would be treatment with

Amoxicillin/clavulanate

Aztreonam

Cefazolin plus genatamicin

Meropenem

Vancomycin

Therapeutic I dr mahmoud taleb final 2014

Which of the following statements about vancomycin is accurate?

It is bacteriostatic

It binds to PBPs

It is not susceptible to penicillinase

It has the advantage of oral bioavailability

Which fluoroquinolone has markedly enhanced activity against gram positive

tieris and anaerobes ?

Pefloxacin

Ciprofloxacin

Gemifloxacin

Norfloxacin

Which out of the following antibiotics penetrates blood-CSF barrier the best

Erythromycin

Gentamicin

Tetracycline

Chloramphenicol

5- The persistent suppression of bacterial growth that may occur following limited exposure antimicrobial drugs is called (a) Time-dependent killing (b) The post antibiotic effect (c) Clinical synergy (d) Concentration - dependent killing 6- Which one of the following antibiotics is likely to be most effective agent in the treatment infection due to enterococci if used in conjunction with penicillin G? (a) Amikacin (b) Gentamicin (c) Netilmicin (d) Streptomycin (e) Tobramycin 7- Which antimicrobial should be avoided in patients of liver disease? (a) Chlortetracycline (b) Cotrimoxazole (c) Cephalexin (d) Ethambutol (d) Minocycline 8- The mechanism of antibacterial action of doxycycline involves (a) Binding to a component of the 50S ribosomal subunit (b) Inhibition of translocase activity (c) Blockade of binding of aminoacyl - tRNA to bacterial ribosomes (d) Selective inhibition of ribosomal peptidyl transferases

(e) Inhibition of DNA-dependent RNA polymeras

9- Mechanism of Rifampia action is:

- (a) Inhibition of mycolic acids synthesis
- (b) Inhibition of DNA dependent RNA polymerase
- (c) Inhibition of topoisomerase II
- (d) Inhibition of cAMP synthesis\

10- Mechanism of Cycloserine action is:

- (a) Inhibition of mycolic acids synthesis
- (b) Inhibition of RNA synthesis
- (c) Inhibition of cell wall synthesis
- (d) Inhibition of pyridoxalphosphate synthesis

| wing drugs are suitable oral therapy for a lower urinary tract infection due to | |
|---|--|
| nof the following drugs are suitable oral therapy for a lower urinary tract infection due to | |
| Aumon'as aurginous | |
| orloxacin methoprim- sulphaisoxazole | |
| rimethoprim- surprise | |
| profloxacin | |
| school one of the following antibiotics is likely to be most effective agent in the treatment of an | |
| which one of the following antibode to enterococci if used in conjunction with penicillin G? | |
| | |
| mikacin | |
| Bentamicin | |
| eilmicin | |
| meptomycin Thich out of the following antibiotics penetrates blood-CSF barrier the best | |
| | |
| nythromycin | |
| Gentamicin | |
| etracycline | |
| Moramphenicol Niclosamidee is antheimintic drug used primarily to treat infections caused by | |
| | |
| Ascaris lumbercoids | |
| Vectar americans | |
| Strongloids | |
| Interobius vermicularis | |
| lacemnolupus nana | |
| is patient with hepatic coma, decreases in production and absorption of ammonia from the | |
| rointestinal tract will be beneficial. The antibiotic of choice in this situation would be. | |
| Tetracycline. | |
| Neomycin | |
| Penicillin. | |
| Chloramphenicol. | |
| Cephalothin. | |
| Klarithomycin inhibits bacterial protein synthesis by binding to | |
| Peptidoglycan units in the cell wall. | |
| 50 S ribosomal subunits of DNA | |
| 30 S ribosomal subunits of DNA. | |
| Topoisomerase enzyme | |
| ase enzyme | |

| control of non | amonia of mycoplasmal intection is. |
|---|--|
| 17- The most effective agent in the treatment of pho | ACAMA AND A STATE OF THE ACAMA AND A STATE OF |
| a) Penicillin G. | |
| b) Clidamycin | A COLUMN TO SERVICE STATE OF THE PARTY OF TH |
| c) Azithromycin. | · · |
| d) Gentamycin | develops cryptococne |
| 18- 26- year old female with acquired immuno-defi | ciency syndrome develops any protects he |
| . she refuse all intravenous medication which antifu | ingal agent, can be given of any to treat the |
| meningeal infection. | |
| a) Ketoconazole. | |
| b) Amphotericin B. | |
| c) Fluconazole. | |
| d) Nystatin. | |
| e) Grisofulvin. | 2012 1000000 |
| 19- A 44-year-old man is found to be parasitized by | y intestinal schistosoma manasoni. Which |
| following anthelmintic drugs would be effective for | |
| a) Albendazole. | |
| b) Ivermectin. | |
| c) Mebendazole. | |
| d) Oxaminqine | |
| 20- Majed is 55- year - old male with AIDs develop | ps systemic fungal infection, that is treated |
| itraconazole. What is the mechanism of action of it | raconazole ? |
| a) It inhibits ergosterol synthesis. | |
| b) It inhibits DNA synthesis. | |
| c) It inhibits Protein synthesis. | |
| d) It inhibits peptidoglycan synthesis | |
| 21- The drug of choice for the treatment of Taenia | Solium is |
| a) embendazole | |
| b) Ceftriaxone | |
| c) Primaquine | |
| d) Niclosamide | |
| e) Chloroquine 22. In renal failure safest tetracycline is | |
| (a) Oxytetracycline | |
| | |
| (c) Doxycycline | |
| (d) Demethyl chlortetracycline | |
| | b) Clidamycin c) Azithromycin. d) Gentamycin 18- 26- year old female with acquired immuno-defi . she refuse all intravenous medication which antifumeningeal infection. a) Ketoconazole. b) Amphotericin B. c) Fluconazole. d) Nystatin. e) Grisofulvin. 19- A 44-year-old man is found to be parasitized by following anthelmintic drugs would be effective for a) Albendazole. b) Ivermectin. c) Mebendazole. d) Oxaminqine 20- Majed is 55- year - old male with AIDs develop itraconazole. What is the mechanism of action of it a) It inhibits ergosterol synthesis. b) It inhibits DNA synthesis. c) It inhibits Protein synthesis. d) It inhibits peptidoglycan synthesis 21- The drug of choice for the treatment of Taenia: a) embendazole b) Ceftriaxone c) Primaquine d) Niclosamide e) Chloroquine 22. In renal failure safest tetracycline is |

which one of the following antibiotics is a potent inducer of hepatic drug-metabolizing profloxacin Oclosporine enthromycin ampin delictiamine salts are used as urinary antiseptics. The reason why they lack systemic acterial action is that they are absorbed into the systemic circulation following oral ingestion gridly metabolized by liver drug- metabolizing enzymes powerted to formaldehyde only at low urinary pH substrates for active tubular secretion or 90% bound to plasma proteins The most important use of dapsone is **U**themoglobinemia eprozy hierculosis emocstitis carini pneumonia bedrug of choice for Kala Azar (Leshmaniasias) is minazole mphotericin B dium stibogluconate doconazole The mechanism of action of which pyrantel pamoate is effective for the treatment of hook worm terference of cell- wall synthesis. merference with cell division. hibition of neuromuscular transmission. berference with protein synthesis. hibition of glucose uptake. The drug used for trypanosomosis treatment is : dersoprol etronidazole ttracyclin ainidine

30 Marks

Substitute of the statement by a word or a term.

1- Drug of carbapenem family and having a larger serum half-life and by having inferior acting Substitute of the statement by a word or a term. 2- Drug used in combination with INH, to prevent and minimized some adverse effects of INH is 3- A glycopeptide antibiotic that is very similar to vancomycin in mechanism of action and antibas 4- Drug used to relieve of burning sensation and urgency in urination and it is not antibacterial; 5- Drug of choice can be used for treatment shistosomal haematobium infection----6- Drug can be used for T.B in pregnancy 7- Ketolide drug has an antibacterial spectrum similar to that of azithromycin. but neutralizes a most common resistance mechanisms..... 8-Drug of choice in treatment of River blindness disease----9- Antibiotic is active against many gram-positive and selected gram-negative bacteriaand, inhibits protein synthesis by reversible binding and inhibition of certain transfer-RNA synthetase. - It is topical use skin lesions secondarily infected with S. aureus pyogenes..... 10-Drug used in combination with metronidazole in treatment of cyst of ambaeic dysentery— 11- Drug used in treatment of toxoplasmosis-----12- Drug used in patient with INH-resistant, and initiated in latent T.B..... 13-It used topically. It interferes with DNA synthesis in some of bacteria associated with acne vul used acid in the form of cream is effective for papules and pustules of the acne...... 14- Alterations in the normal microbial population of the intestinal, upper respiratory, and genitors tracts as result of use antibiotics..... 15-Drug of carbapenem family and having a larger serum half-life and by having inferior activity P. aeruginosa 16- Drug used in combination with INH, to prevent and minimized some adverse effects of INH as peripheral neuritis-----17- A glycopeptide antibiotic that is very similar to vancomycin in mechanism of action and antibe 18- Drug used to relieve of burning sensation and urgency in urination and it is not antibacterial 19- Drug of choice can be used for treatment shistosomal haematobium infection-----20-Drug can be used for T.B in pregnancy -----

| assimen is effective in preventing infections in many settings |
|--|
| spinicrobial regimen is effective in preventing infections in many settings. |
| of the special property of the |
| ent of the state of hypoprothrombinemia the embrandonemia and the state of the stat |
| Clampring as |
| her report the degradation of imipenem by a renal tubular dipentidase |
| that inhibits the degradate the treatment of uncomplicated urinary tract infection in women due to |
| |
| A - angume DVIUVVI Hallstelase |
| a countratory disease that plantally affects adults. As a result of several contributing |
| acominent of these include cigarette smoking, exposure to occupational dusts, |
| tenes, and environmental pollution; and bacterial and possibly infection |
| fanes, and environmental postulation provided the year, with the relative prevalence of disease resulting from |
| espiratory disease occurs introduction the seasons. It occurs in persons of all ages |
| tiologic agents varying with the seasons in personal pers |
| Contagious bacterial skin infection with business and distributions and business an |
| to common skin infections among kids |
| as used as a single oral dose in the treatment of uncomplicated drinking |
| om and it is safe in pregnancy. |
| thing used specifically in treatment of anerobic bacterial infection and in ambiasis |
| he main organism that implicates in pathogenesis of aspirated pneumoniain |
| epilosebaceeous follicle starts to dilate and starts to be filled with entrapped sebum and cellular debris |
| sults in characteristic lesion of acne |
| in characteristic restor of acree is in the microtubules responsible for mitotic spindle formation, in inhibits fungal growth by binding to the microtubules responsible for mitotic spindle formation, |
| thug inhibits fungal mitosis. Ineffective topically and administered orally but has poor |
| bullestinal about the street on can be improved by taking the drug with fatty means |
| They inhibit protein synthesis by blocking characteristics |
| ocular injection is the preferred route and is concentrated in the liver, where it persists for a month |
| Product. |
| to the most famous organism affect immunocompremized patient of the protozoal; infection an |
| |
| Control of the company of the compan |
| cultures with more than 10 ⁵ organisms/mL of the same organism. Most patients are elderly, female. |
| |
| women |
| de been classified as safe and effective for ache and it acts by increase |
| ed decrease cellular cohesiveness and used in two concentration 025 and 0.5 in the market |

35 Mark

Write the cause, ONE drug of choice and side effect of the drug of the following 1- Chronic cystitis of 37 year male 2- Eye stye 3- Hospital acquired pneumonia 4- T.B of pregnant women 5- A boy of an 6 year with Typhoid fever 6-Lyme disease in pregnant women. 7- Severe form of Impetigo 8- Giardiasis

- Q.IV Write true or false and correct the false. IV Write true or false and to for hook worm, acts by inhibiting neuromuscular to 1. Niclozamide and drug is effective for hook worm, acts by inhibiting neuromuscular to
 - Naftifine is an antifungal drug, acts by inhibiting protein synthesis.
 - 3. Ivermectin can be effective drug in treatment for scabies .
 - 4. Otitis extrnia is a disease of ear can be treated by systemic penecillin.
 - Mazzotti like reaction is a characteristic side effect of Ivermectin.
 - Isotretinion (curtane) used in the acute form of acne.
 - 7. The enzyme thymidine kinase enzyme is the enzyme responsible for metronidazole action
 - 8. Gamma benzene hexachloride can be effective in pediculosis
 - 9. Tinidazole is similar to metronidazole in action but can be longer coarse of treatment
 - 10. 4- Allergic convjuctivitis is a disease of eye can be treated by tetracycline
 - 11. The main side effect of rifampicin is hepatotoxicity.
 - 12. Alchohol intolerance can be noted in association of administering amoxicillin antibiotic
 - Terbinafine is an antibiotic used topically only.
 - 14. Cartilage toxicity is the main side effect, limited use of Linpzolid antibiotic in children
 - 15. Benzyl benzoate e is comedolytic agent.
 - 16. 10- Cyproterone is an antiandrogenic drug can be used foe treated of acne rosacaea
 - 17. Cyclosorine is an antituberculosis drug but have some side effect as hyperurecemia
 - 18. In treatment of entrobiasis, mebendazole is taken as single dose of 200mg as two tab
 - 19. The most drug that suitable for shigellosis like diarrhea is clindamycin.
 - 20. Nalidixic acid can be used as empiric therapy in treatment of meningitis until culture
 - 21. Ofloxacin is the most antibiotic that used in chronic bronchitis.

Good Luck Dr. Mahmoud H. Taleb

| patient suffered from a capties of a with and test of liver | | |
|---|---------|------|
| | | |
| ngal meningitis | | |
| richinosis | | |
| emale with Acne | | |
| female with chronic litis | | |
| | | |
| Artestal | Espail. | |
| Inctivitis | | |
| | | |