

ANSWERS: Practice Quiz 2 - Part C (General Principles of Pharmacology and Anti-infective Agents)

May, 2014

1. Define “efficacy” when used in relation to medications.

ANSWER: a medication’s ability to produce the desired therapeutic effect

2. What are the correct medical terms for the abnormal lab values listed below?

- | | | |
|----|------------------------------------|--------------------------|
| a. | Elevated serum potassium | hyperkalemia |
| b. | Decreased serum potassium | hypokalemia |
| c. | Elevated serum sodium | hypernatremia |
| d. | Decreased serum sodium | hyponatremia |
| e. | Elevated BUN (blood urea nitrogen) | azotemia / uremia |

3. Which cranial nerve is associated with auditory function?

ANSWER: Cranial Nerve VIII - (Vestibulocochlear)

4. Treating an infection prior to availability of culture results is _____ spectrum therapy.

- a. Broad ANSWER**
b. Narrow

5. Super-infections are more likely to occur with _____ spectrum anti-infective therapy because normal body flora are killed.

- a. Broad ANSWER**
b. Narrow

6. The medical term for “hives” is _____.

- a. pruritus
b. urticaria ANSWER
c. allergica
d. dermatitis

7. Which medication would be the most effective for thrush?

- a. penicillin
b. Zovirax® (acyclovir)
c. Mycostatin® (nystatin) ANSWER (Note: oral suspension)
d. Septra® (sulfamethoxazole-trimethoprim)

8. Most antibiotics when taken by a patient who also takes Coumadin® (warfarin) will put the patient at high risk for:

- a. hemorrhaging ANSWER (INR and PT are likely to be elevating.)**
b. blood clot formation

9. Which group of anti-infectives has a strong affinity for calcium?

ANSWER: tetracyclines

10. Discoloration of the teeth is associated with which anti-infective?

- a. Keflex® (cephalexin)
b. Amoxil® (amoxicillin)
c. Mycostatin® (nystatin)
d. Achromycin® (tetracycline) ANSWER

11. What are the indications for aminoglycosides?
ANSWER: See Student Version of Anti-infectives.
12. Is Coumadin® (warfarin) likely to interact with aminoglycosides? If so, what would be the most likely result?
ANSWER: See Student Version of Anti-infectives.
13. Use your Drug Information Handbook for Dentistry by Wynn and the website <http://www.rxlist.com> to answer the following questions.
- What is Actisite® (tetracycline hydrochloride) periodontal fiber?
 - What is its availability in the U.S.?
- ANSWER: According to the website: <http://www.rxlist.com>, the brand is no longer available in the U.S. Generic forms may be available. This will not be on the quiz.**
14. What common food is useful in preventing super-infections when taking antibiotics?
ANSWER: yogurt
15. List common adverse reactions to aminoglycosides.
ANSWER: See Student Version of Anti-infectives and text by Woodrow.
16. What specific instructions should be given to a patient who will be using the preferred drug to treat thrush?
ANSWER: See the specific drug in text or <http://www.rxlist.com>
17. List factors used to select a specific anti-infective agent.
ANSWER: See Student Version of Anti-infectives
18. What is the normal range for creatinine?
ANSWER: See Drug Handbook by Wynn, page 1639. Note that values differ slightly by gender.
19. What is the normal range for BUN (blood urea nitrogen)?
ANSWER: See Drug Handbook by Wynn, page 1639.
20. Which body system most often shows signs/symptoms of adverse reactions to anti-infectives?
ANSWER: gastro-intestinal
21. Use your Drug Information Handbook for Dentistry by Wynn to answer the following questions regarding Vibramycin® (doxycycline - systemic).
- What is the subclassification of anti-infectives for this drug?
 - Are there any specific dental uses?
 - What are the indications (uses)?
 - Are there any effects on dental care? If so, what are they?
 - What are the common adverse reactions?
 - What drugs/agents are likely to decrease the effectiveness?
 - What are the dietary considerations?
 - What is the most common route of administration?

22. What is Atridox[®]?

ANSWER: See Drug Handbook by Wynn, page 460.

23. What is Periostat[®]?

ANSWER: See Drug Handbook by Wynn, page 456. Note: Periostat[®] is listed as a Canadian brand name.

24. Study the **Student Version: Anti-Infectives and pages 305-306 in your text by Woodrow** to answer the following questions regarding tetracyclines.

- a. Indications
- b. Side effects?
- c. Contraindications and warnings?
- d. Interactions?
- e. Patient education?
- f. Are there any special considerations for females taking oral contraceptives?