

2004 CE Series: Lesson Ten Quiz

Fluoroquinolone Antiinfectives

Questions

- Which of the following is not a currently marketed fluoroquinolone in the United States?
 a. Gatifloxacin
 b. Grepafloxacin
 c. Moxifloxacin
 d. Ofloxacin
- Gatifloxacin is classified as a:
 a. First-generation fluoroquinolone
 b. Second-generation fluoroquinolone
 c. Third-generation fluoroquinolone
 d. Fourth-generation fluoroquinolone
- Which of the following is inhibited by the fluoroquinolones in bacteria?
 a. Cell wall synthesis
 b. Cell membrane synthesis
 c. DNA synthesis
 d. Protein synthesis
- Which of the following is true regarding the effect of fluoroquinolones on bacteria?
 a. They are bacteriostatic and show concentration dependent killing
 b. They are bactericidal and show concentration dependent killing
 c. They are bacteriostatic and have a post-antibiotic effect
 d. They are bactericidal but do not show concentration dependent killing
- The most common mechanism of bacteria resistance to fluoroquinolones is:
 a. Acetylation of the fluoroquinolone by a bacterial N-acetyl transferase
 b. Mutation at the binding site of DNA gyrase
 c. Production of an enzyme that cleaves the fluorine from the fluoroquinolone
 d. Production of efflux pumps that transport fluoroquinolones out of the bacteria
- Which of the following does not have clinically reliable activity against *Streptococcus pneumoniae*?
 a. Ciprofloxacin
 b. Gatifloxacin
 c. Moxifloxacin
 d. Gemifloxacin
- Which of the following has clinically significant activity against *Pseudomonas aeruginosa*?
 a. Ciprofloxacin
 b. Moxifloxacin
 c. Norfloxacin
 d. Sparfloxacin
- The spectrum of activity of all fluoroquinolones include all of the following except?
 a. *Bacteroides fragilis*
 b. *Escherichia coli*
 c. *Mycoplasma pneumoniae*
 d. *Proteus mirabilis*
- Which of the following is not indicated as a single-dose treatment for gonorrhea?
 a. Ciprofloxacin
 b. Gatifloxacin
 c. Moxifloxacin
 d. Ofloxacin
- All of the following are indicated used third-generation fluoroquinolones except?
 a. Acute maxillary sinusitis
 b. Bacterial cystitis
 c. Bacterial meningitis
 d. Community-acquired pneumonia
- Which of the following is true regarding the pharmacokinetics of the fluoroquinolones?
 a. The oral bioavailability of most fluoroquinolones is less than 50 percent
 b. The fluoroquinolones penetrate into most lipophilic tissues well
 c. Most fluoroquinolones are extensively metabolized by CYP3A4
 d. All fluoroquinolones are eliminated primarily by the kidneys
- Which of the following should not be taken concurrently with moxifloxacin?
 a. ACE Inhibitors
 b. β -blockers
 c. Class IA and class III antiarrhythmic agents
 d. Thiazide diuretics
- Which of the following should not be taken concurrently with any fluoroquinolone?
 a. Aged cheeses
 b. Divalent cation-containing antacid products
 c. Grapefruit juice
 d. Proton-pump inhibitor antacids
- The use of which of the following is limited by hepatotoxicity?
 a. Levofloxacin
 b. Norfloxacin
 c. Ofloxacin
 d. Trovafloxacin
- Which of the following has the highest rate of phototoxicity?
 a. Ciprofloxacin
 b. Moxifloxacin
 c. Sparfloxacin
 d. Trovafloxacin
- Did this CE article achieve its stated objectives?
 a. yes
 b. no
- How much of this program can you apply in your practice?
 a. all
 b. some
 c. very little
 d. none
- Approximately how long did it take you to read the article, study it and answer all questions?
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 c. less
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 d. manufacturing, distribution, other
- Indicate date you completed this exam (required).
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