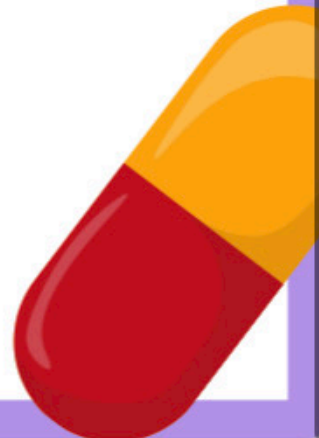




Quiz

1. What factor affects a drug's ability to cross the blood-brain barrier?
 - a. Molecular weight
 - b. Protein binding
 - c. Renal dysfunction
 - d. Age
2. Which patient factor influences immunocompetence?
 - a. Healthy diet
 - b. Advanced age
 - c. Physical exercise
 - d. Allergies
3. What is a risk factor for multidrug-resistant organisms?
 - a. Recent hospitalization exceeding 5 days
 - b. Lack of immunosuppressive diseases
 - c. No prior antimicrobial therapy
 - d. Low frequency of resistance in the community
4. What does concentration-dependent killing refer to in rational dosing?
 - a. Time of administration
 - b. Drug's molecular weight
 - c. Drug concentration in tissues
 - d. Immunocompetence





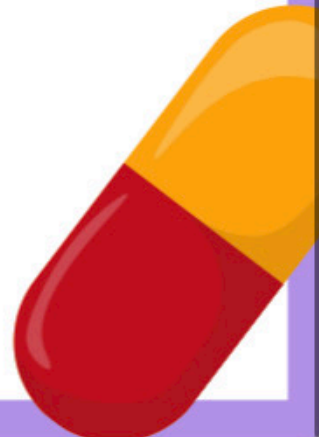
Quiz

5. What is the postantibiotic effect related to in rational dosing?
 - a. Persistent suppression of microbial growth
 - b. Drug metabolism
 - c. Patient's age
 - d. Cost of therapy

6. What is the characteristic of narrow-spectrum antibiotics?
 - a. Effective against many types of bacteria
 - b. Target specific microorganisms
 - c. Modified to be effective against gram-negative bacteria
 - d. Act on both gram-positive and gram-negative bacteria

7. What is the advantage of drug combinations in antimicrobial therapy?
 - a. Interference in the mode of action
 - b. Synergism, making the combination more effective
 - c. Selection pressure for resistance
 - d. Narrowing the spectrum of activity

8. What is the primary purpose of prophylactic use of antibiotics?
 - a. Treatment of existing infections
 - b. Prevention of infections
 - c. Enhancing drug synergism
 - d. Inducing superinfections





Quiz

9. Which complication of antibiotic therapy ranges from mild skin rash to life-threatening anaphylaxis?
- a. Direct toxicity
 - b. Hypersensitivity
 - c. Superinfections
 - d. Urticaria
10. Which type of antibiotics mainly causes superinfections with opportunistic organisms?
- a. Narrow-spectrum antibiotics
 - b. Broad-spectrum antibiotics
 - c. Extended-spectrum antibiotics
 - d. Lipid-soluble antibiotics





Quiz

Answers

1. a. Molecular weight
2. b. Advanced age
3. a. Recent hospitalization exceeding 5 days
4. c. Drug concentration in tissues
5. a. Persistent suppression of microbial growth
6. b. Target specific microorganisms
7. b. Synergism, making the combination more effective
8. b. Prevention of infections
9. b. Hypersensitivity
10. b. Broad-spectrum antibiotics

