# Chapter 3

#### Pharmacokinetics and Pharmacodynamics

#### **OBJECTIVES**

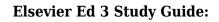
- 1. Differentiate the three phases of drug action.
- 2. Describe the four processes of pharmacokinetics.
- 3. Identify the four receptor families.
- 4. Describe the influence of protein binding on drug bioavailability.
- Check drugs for half-life, percentage of protein binding, therapeutic index, and side effects in a drug reference book.
- 6. Differentiate the four types of drug interactions.
- 7. Explain the three mechanisms involved with drug-drug interactions.
- 8. Describe the effects of drug-nutrient interactions.
- 9. Explain the meaning of drug-induced photosensitivity.
- Describe the nursing implications of pharmacokinetics and pharmacodynamics.

#### Pharmacokinetics

- The process of drug movement throughout the body necessary to achieve drug action.
- What the body does to the drug
- Composed of four processes:
  - 1. Absorption
  - 2. Distribution
  - 3. Metabolism
  - 4. Excretion
- Drug absorption
  - The movement of the drug into the bloodstream after administration.
  - Approximately 80% of drugs are taken by mouth (enteral).
    - These are the only drugs to pass through the GI tract
    - For the body to use drugs taken by mouth, a drug in a solid form (e.g., tablet or capsule) must disintegrate into small particles and combine with a liquid to form a solution, a process known as dissolution (drugs in a liquid form are already in solution), to be absorbed from the GI tract into the bloodstream
  - <u>Tablets are not 100% drug.</u> Fillers and inert substances such as simple syrup, vegetable gums, aromatic powder, honey, and various elixirs — called excipients are used in drug preparation to allow the drug to take on a particular size and shape and to enhance drug dissolution.
  - Disintegration Breakdown of oral drug form into small particles.
  - Dissolution Combining small drug particles with liquid to form a solution
    - The rate if dissolution is the time it takes the drug to disintegrate and dissolve to become available for the body to absorb it.

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