

# 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.
5. 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.
10. 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
  - Tablets are not 100% drug. 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 of 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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**Joseph R. Davis**

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