Chapter 10 Objectives: "Risk, Toxicology, and Human Health"

1. Define risk and risk assessment and list the four general types of common hazards with examples.
2. Define and describe relationships among dose, response, toxicity, and poison and distinguish between acute and chronic exposures and acute and chronic effects.
3. Distinguish between a linear dose-response model and a threshold dose-response model. Which model applies best when low doses are involved?
4. Evaluate the effectiveness of risk assessments and pollution prevention in dealing with hazards and list the five principle types of chemical hazards and give an example of each.
5. Define ionizing radiation. Give two examples and include any physical damage they may cause.
6. Distinguish between genetic and somatic damage.
7. Distinguish between transmissible and nontransmissible diseases.
8. Summarize the state of the battle against bacterial infections.
9. Describe how transmission of viral diseases can result in pandemics.
10. Define epidemiological transition.
11. Summarize how developing countries and developed countries can best improve their health.
12. Define risk analysis.