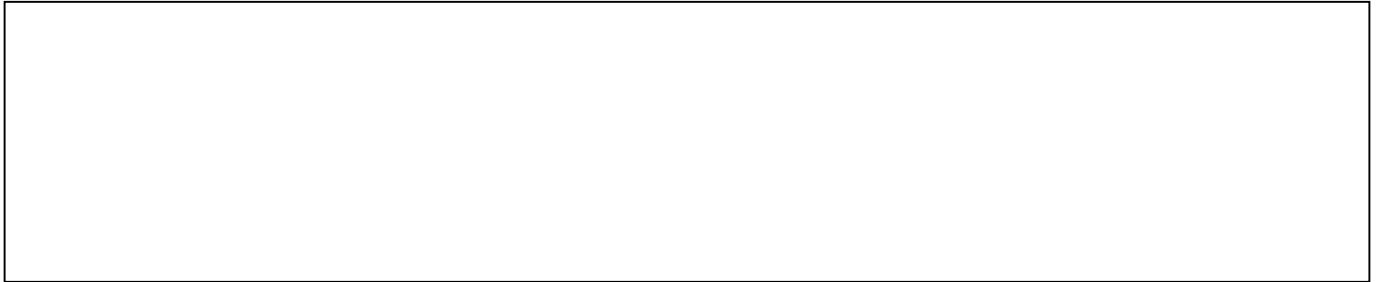


# CHAPTER 17: ENVIRONMENTAL HAZARDS AND HUMAN HEALTH

## 17-1 What Major Health Hazards Do We Face?

- Risks Usually Expressed as Probabilities

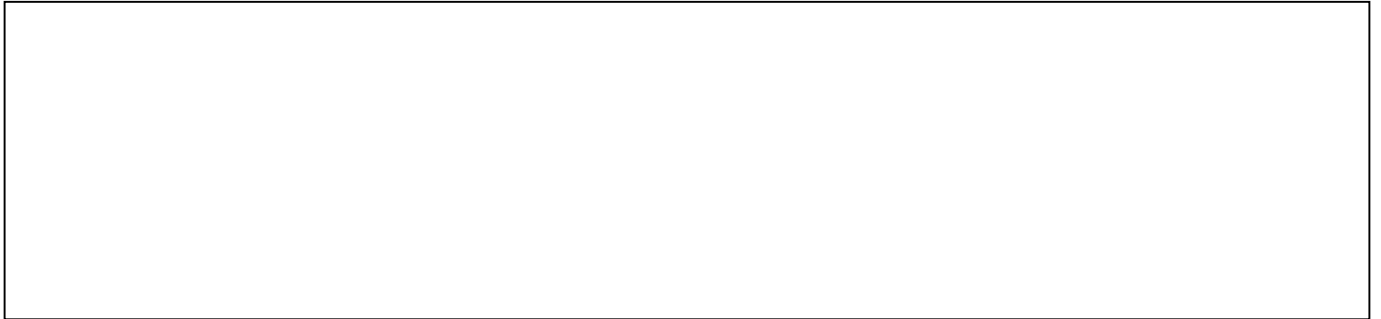


- Types of Hazards



## 17-2 Biological Health Hazards

### ● Spread of Diseases




### ● Infectious Diseases



### ● Global Threat From Tuberculosis



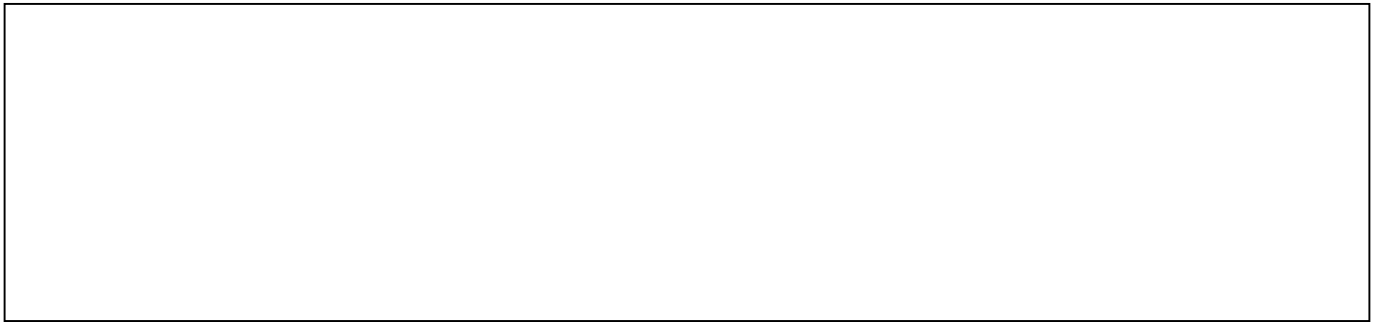
### ● Viral Diseases and Parasites



● The Global HIV/AIDS Epidemic



● Malaria



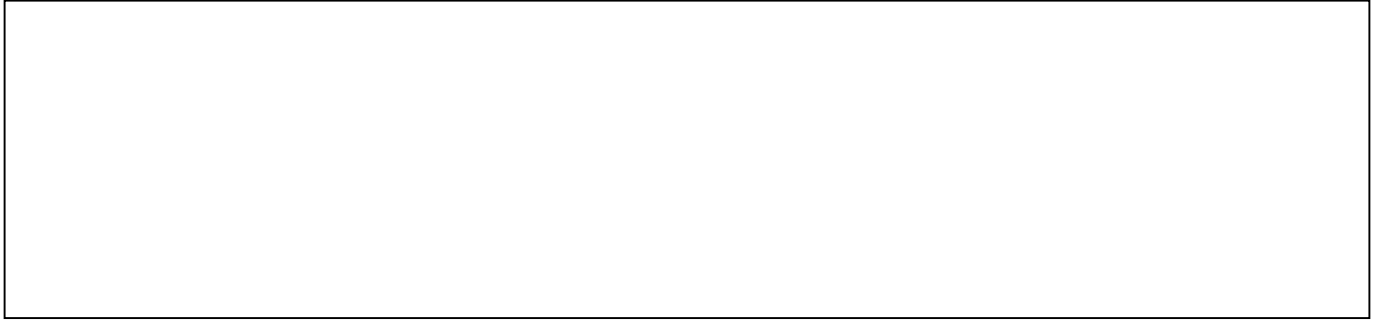
● Reducing the Incidence of Infectious Diseases



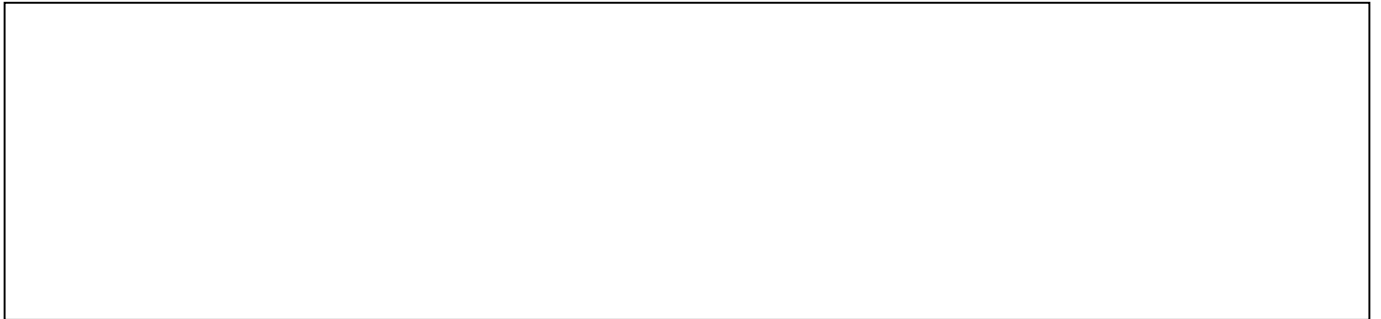
Diagram:

## 17-3 Chemical Hazards

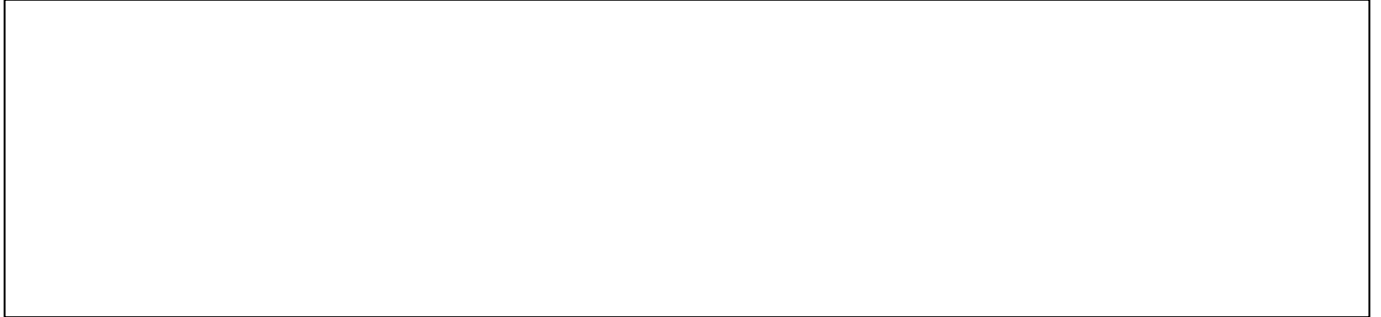
- Cancers, Mutations, and Birth Defects



- PCBs (polychlorinated biphenyls)



- Chemical May Affect Immune and Nervous Systems




- Chemicals May Affect the Endocrine System



## 17-4 Evaluating Chemical Hazards


- Many Factors Determine the Harmful Health Effects of a Chemical



- Protecting Children



- Estimating Toxicity



**Diagrams:** (dose-response curves)

● Other Ways to Estimate Harmful Effects

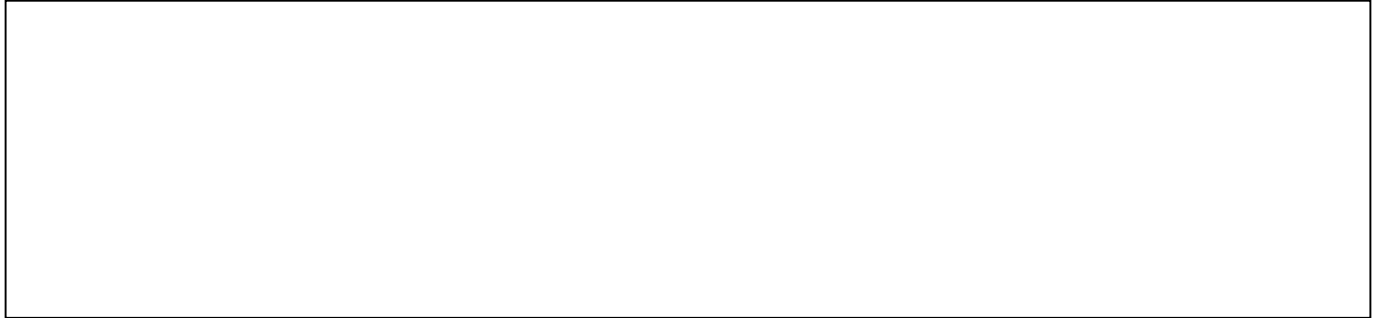
● Trace Levels of Toxic Chemicals

● Why Do We Know So Little...?

● Pollution Prevention and the Precautionary Principle

## 17-5 Perceiving Risks and Avoiding the Worst of Them

- Health Risks From Poverty, Gender, Lifestyle Choices



- Death From Smoking




### Diagrams:

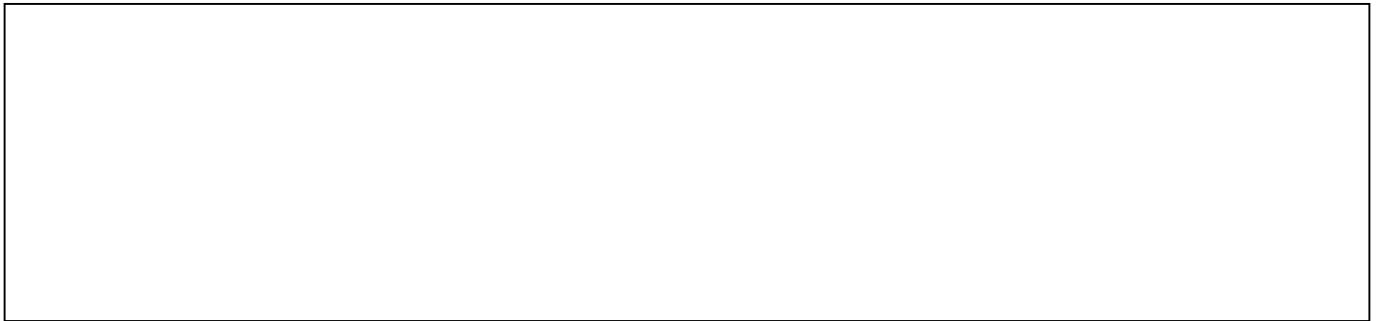
- Estimating Risks From Technology



● Most Do a Poor Job of Evaluating Risks

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● Principles to Help Evaluate and Reduce Risk

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