

# What Are Diseases?

Chapter 7 Lesson 2

Part 1

ByDesign Science, Level 5

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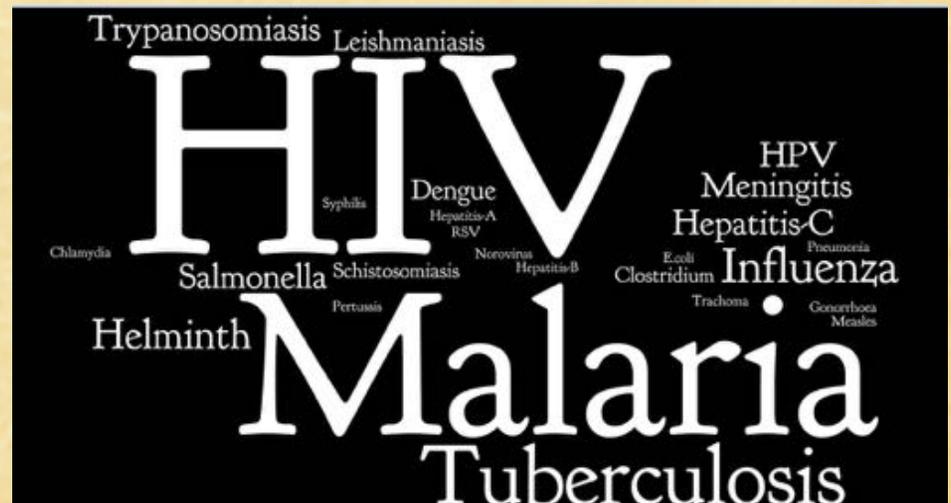
# What Are Diseases?



- ◆ A disease is a disorder of a body structure or function.
- ◆ It causes specific symptoms or affects a specific part of the body.
- ◆ We know that we have a loving Creator, so how do you think disease was introduced into our world?

# Types of Diseases

- ◆ There are two major types of disease – chronic and communicable.
- ◆ Recall that pathogens are viruses, bacteria, and other organisms that cause diseases.





# Types of Diseases

## Chronic Diseases

- ◆ Behaviors that may lead to some forms of chronic disease include lack of physical activity, unhealthy eating habits, and using tobacco and alcohol.
- ◆ Chronic diseases are a major cause of death and disability worldwide.
- ◆ Some chronic diseases may cause the body's tissues and organs to break down.



# Types of Diseases

## Chronic Diseases

- ◆ It is important to develop a healthy lifestyle when you are young to avoid these health problems.
- ◆ What lifestyle changes or choices could you make that might decrease your chances of developing a chronic illness later in life?



# Types of Chronic Diseases

## Heart Diseases

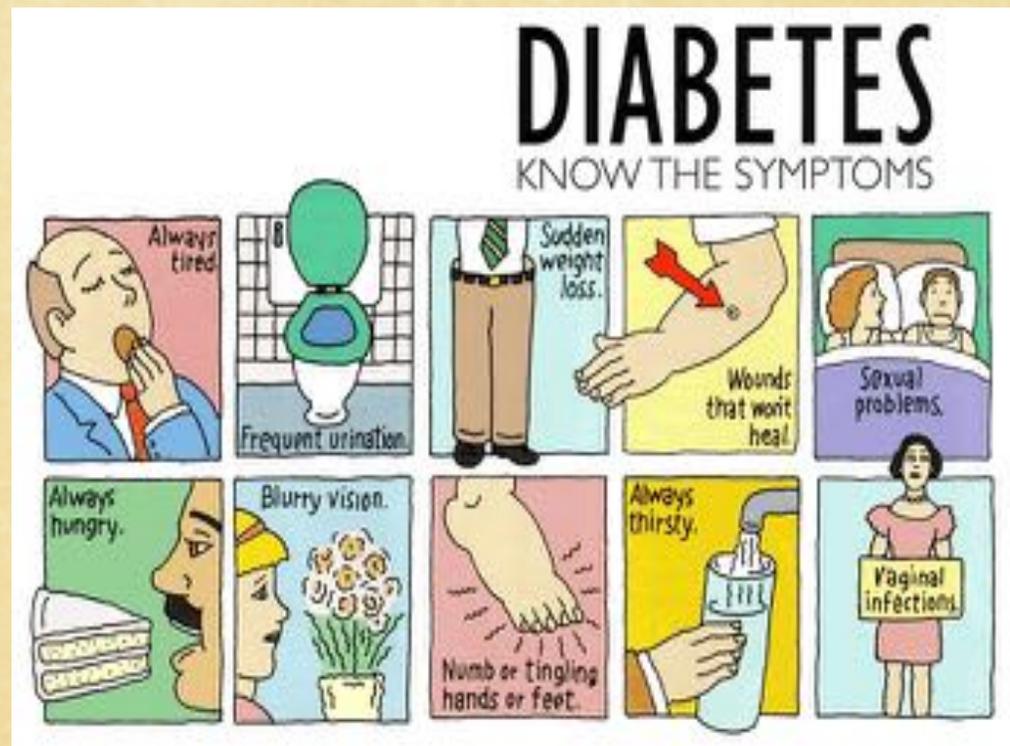
- ◆ Heart disease includes coronary heart disease, heart attacks, and congestive heart failure.
- ◆ It is the leading cause of death of both men and women in North America.
- ◆ Most heart diseases can be prevented by eating a healthy diet, including avoiding red meat and foods in high sugar, and by getting regular exercise.



# Types of Chronic Diseases

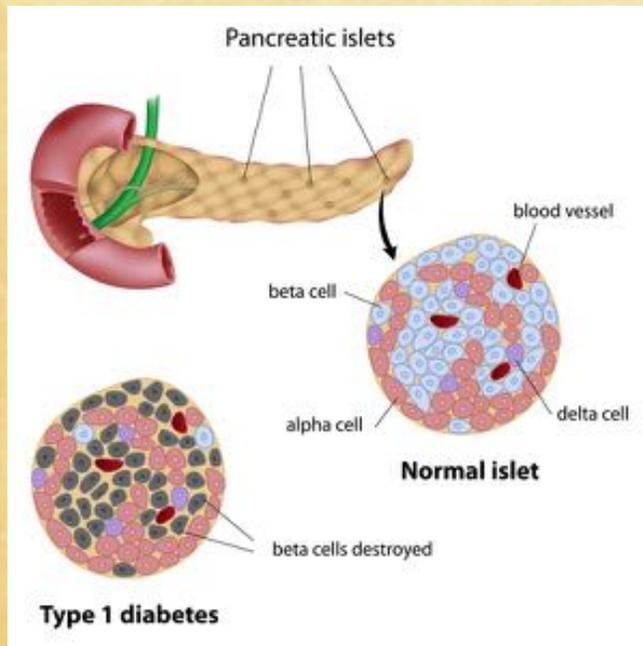
## Diabetes

- ◆ Diabetes occurs when sugar levels are above normal.
- ◆ It can lead to heart disease, blindness, and kidney failure.
- ◆ There are two types of diabetes
  - ◆ Type 1
  - ◆ Type 2



# Types of Chronic Diseases

## Diabetes



- ◆ Type 1 Diabetes
  - ◆ Immune system attacks the pancreas
  - ◆ Causes little or no insulin to be made to control blood sugar
  - ◆ Uses insulin injections to control blood sugar

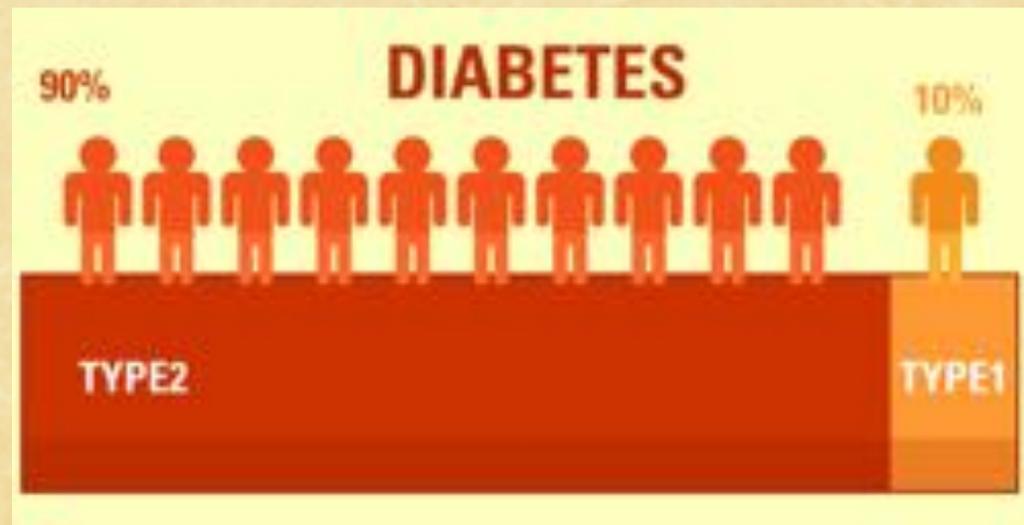
# Type 1 Diabetes

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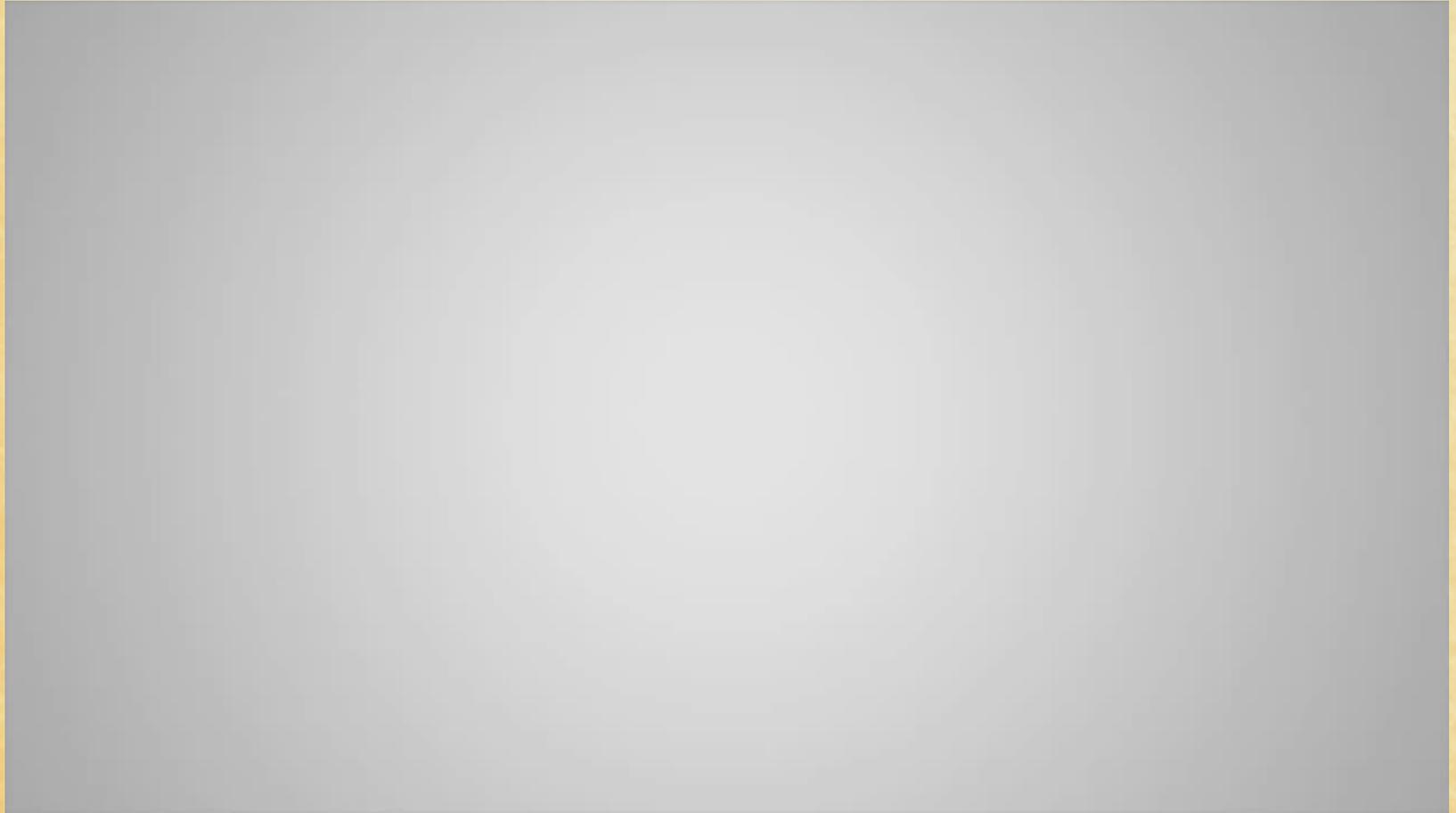
# Types of Chronic Diseases

## Diabetes

- ◆ Type 2 Diabetes
  - ◆ Usually caused by obesity
  - ◆ Some patients take insulin injections
  - ◆ Prevented by exercising regularly and eating healthy

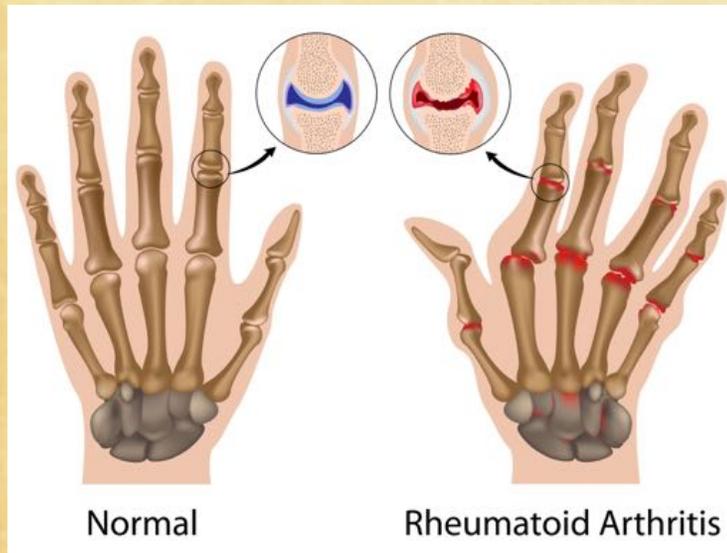


# Type 2 Diabetes



# Types of Chronic Diseases

## Arthritis

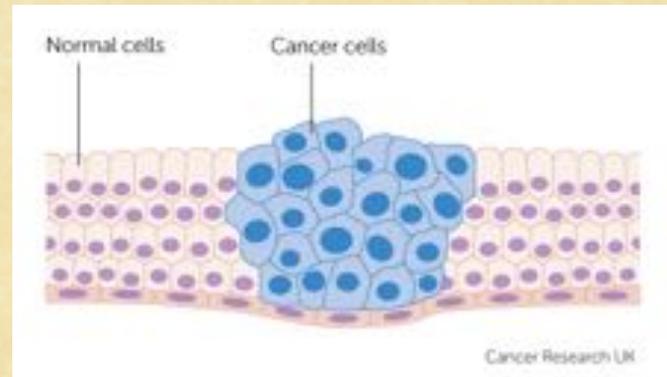


- ◆ Arthritis is a general term for more than 100 diseases that affect joints.
- ◆ These diseases cause pain and stiffness around one or more joints.
- ◆ This is the most common cause of disability in North America.

# Types of Chronic Diseases

## Cancer

- ◆ Cancer is caused when abnormal cells in a part of the body begin to grow out of control.



- ◆ There are more than 200 types of cancer.
- ◆ Getting health screenings may help prevent cancer or may allow for earlier detection and treatment.
- ◆ It has been shown that with proper diet and health practices, most cancers can be prevented.

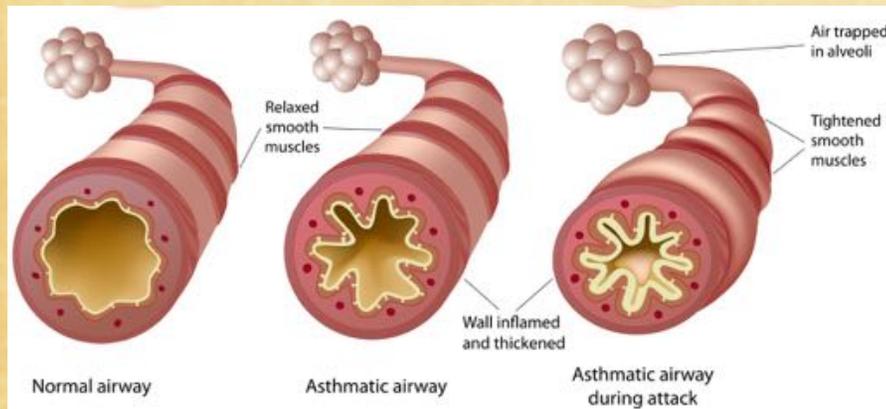
# Cancer



# Types of Chronic Diseases

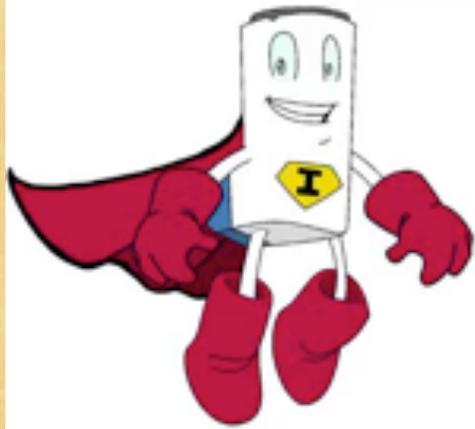
## Asthma

- ◆ Asthma is a disease of the lungs that is common among both children and adults.
- ◆ Symptoms include wheezing, gasping for air, and shortness of breath.



- ◆ Asthma is usually controlled by steroids that are inhaled.

# Asthma



## IGGY AND THE INHALERS

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# Types of Chronic Diseases

## Stroke



- ◆ A stroke occurs when a blood clot blocks the blood supply to the brain.
- ◆ A person may have one or multiple strokes.
- ◆ Strokes can affect a person's mental and physical abilities.
- ◆ The effects of a stroke can be long-lasting.
- ◆ The same things that help prevent heart disease often help prevent strokes.

# Stroke

