

## Digestive System

### **Disease name: Inflammatory Bowel Disease**

Review the disease symptoms described below. Then, on your body system diagram, include an area where you:

1. Hypothesize how these specific symptoms affect the normal function of your body system and
2. Describe how your system not functioning correctly due to this disease causes problems for other body systems.

### **Symptoms:**

- Persistent diarrhea
- Cramping abdominal pain
- Inflammation of the intestinal lining
- Loss of appetite
- Weight loss

*Symptoms from CDC: Centers for Disease Control & Prevention Inflammatory Bowel Disease web page  
<http://www.cdc.gov/ibd/what-is-ibd.htm>*

## Circulatory System

### **Disease name: Sickle Cell Disease**

Review the disease symptoms described below. Then, on your body system diagram, include an area where you:

1. Hypothesize how these specific symptoms affect the normal function of your body system and
2. Describe how your system not functioning correctly due to this disease causes problems for other body systems.

### **Symptoms associated with Sickle Cell Disease:**

- Swelling of hands and feet
- Irregularly shaped blood cells (sickle-shaped)
- Pain due to blood vessels clogged by sickle-cell shaped red blood cells
- Low numbers of red blood cells in the body

*Symptoms from CDC: Centers for Disease Control & Prevention Sickle Disease Complications and Treatment web page  
<http://www.cdc.gov/ncbddd/sicklecell/treatments.html>*

## Nervous System

### **Disease name: Bacterial Meningitis**

Review the disease symptoms described below. Then, on your body system diagram, include an area where you:

1. Hypothesize how these specific symptoms affect the normal function of your body system and
2. Describe how your system not functioning correctly due to this disease causes problems for other body systems.

### **Symptoms:**

- Stiffness of the neck
- Seizures
- Inflammation of brain and spinal cord
- Fever

*Symptoms from CDC: Centers for Disease Control & Prevention Bacterial Meningitis Information web page  
<http://www.cdc.gov/meningitis/bacterial.html>*

## Excretory System

### **Disease name: Kidney Disease**

Review the disease symptoms described below. Then, on your body system diagram, include an area where you:

1. Hypothesize how these specific symptoms affect the normal function of your body system and
2. Describe how your system not functioning correctly due to this disease causes problems for other body systems.

### **Symptoms:**

- Decrease in kidney blood filtering function
- Increased risk of kidney failure
- Body can retain too much fluid

*Symptoms from CDC: Centers for Disease Control & Prevention Chronic Kidney Disease Fact Sheet  
[http://www.cdc.gov/diabetes/pubs/pdf/kidney\\_factsheet.pdf](http://www.cdc.gov/diabetes/pubs/pdf/kidney_factsheet.pdf)*

## Respiratory System

### **Disease name: Pneumonia**

Review the disease symptoms described below. Then, on your body system diagram, include an area where you:

1. Hypothesize how these specific symptoms affect the normal function of your body system and
2. Describe how your system not functioning correctly due to this disease causes problems for other body systems.

### **Symptoms:**

- Cough
- Difficulty breathing
- Chest pain
- Collection of fluid in the lungs

Symptoms from CDC: Centers for Disease Control & Prevention Pneumonia Symptoms web page  
<http://www.cdc.gov/pneumococcal/about/symptoms-complications.html>

## Skeletal System

### **Disease name: Osteoporosis**

Review the disease symptoms described below. Then, on your body system diagram, include an area where you:

1. Hypothesize how these specific symptoms affect the normal function of your body system and
2. Describe how your system not functioning correctly due to this disease causes problems for other body systems.

### **Symptoms:**

- Porous bones
- Deterioration of bone mass
- Increased risk of bone fractures

Symptoms from CDC: Centers for Disease Control & Prevention Osteoporosis Information web page  
<http://www.cdc.gov/nutrition/everyone/basics/vitamins/calcium.html>

## Muscular System

### **Disease name: Muscular Dystrophy**

Review the disease symptoms described below. Then, on your body system diagram, include an area where you:

1. Hypothesize how these specific symptoms affect the normal function of your body system and
2. Describe how your system not functioning correctly due to this disease causes problems for other body systems.

### **Symptoms:**

- Muscle weakness
  - Not just skeletal muscles, can also affect muscles of the respiratory and digestive systems
- Decreased mobility
- Limbs don't fully straighten
- Difficulty standing

*Symptoms from American Academy of Neurology Fact Sheet on Congenital Muscular Dystrophy  
<https://www.aan.com/Guidelines/Home/GetGuidelineContent/684>*

## Endocrine System

### **Disease name: Diabetes**

Review the disease symptoms described below. Then, on your body system diagram, include an area where you:

1. Hypothesize how these specific symptoms affect the normal function of your body system and
2. Describe how your system not functioning correctly due to this disease causes problems for other body systems.

### **Symptoms:**

- Body unable to produce insulin
- Above normal levels of glucose in the blood
- Frequent urination
- Excessive thirst
- Unexplained weight loss
- Tingling in the hands or feet
- Sores that take longer than normal to heal

*Symptoms from CDC: Centers for Disease Control & Prevention Diabetes Basics web page  
<http://www.cdc.gov/diabetes/basics/diabetes.html>*

## Immune System

### **Disease name: Human Immunodeficiency Virus**

Review the disease symptoms described below. Then, on your body system diagram, include an area where you:

1. Hypothesize how these specific symptoms affect the normal function of your body system and
2. Describe how your system not functioning correctly due to this disease causes problems for other body systems.

### **Symptoms:**

- Low numbers of T-cells in the body
- High numbers of the HIV virus in the body
- Enlarged lymph nodes
- Increased vulnerability to infections and diseases

*Symptoms from CDC: Centers for Disease Control & Prevention HIV/AIDS Information web page  
<http://www.cdc.gov/hiv/basics/whatishiv.html>*

## Integumentary System

### **Condition name: Frost bite**

Review the condition symptoms described below. Then, on your body system diagram, include an area where you:

1. Hypothesize how these specific symptoms affect the normal function of your body system and
2. Describe how your system not functioning correctly due to this condition causes problems for other body systems.

### **Symptoms:**

- Pins and needles feeling
- Hard, pale, and cold skin
- Loss of feeling in affected region of skin
- Sometimes, blackened, dead tissue
- Blisters

*Symptoms from Medline Plus' Frostbite Medical Encyclopedia entry  
<http://www.nlm.nih.gov/medlineplus/ency/article/000057.htm>*

## Lymphatic System

### **Disease name: Mononucleosis**

Review the disease symptoms described below. Then, on your body system diagram, include an area where you:

1. Hypothesize how these specific symptoms affect the normal function of your body system and
2. Describe how your system not functioning correctly due to this disease causes problems for other body systems.

### **Symptoms:**

- Extreme fatigue
- Fever
- Swollen lymph nodes in neck and armpits
- Swollen liver or spleen, or both

*Symptoms from CDC: Centers for Disease Control & Prevention Infectious Mononucleosis Information web page  
<http://www.cdc.gov/epstein-barr/about-mono.html>*

## Reproductive System

### **Disease name: Pelvic Inflammatory Disease**

Review the disease symptoms described below. If there are any symptoms you don't understand, look up what they mean using the laptops provided. Then, on your body system diagram, include an area where you:

1. Hypothesize how these specific symptoms affect the normal function of your body system and
2. Describe how your system not functioning correctly due to this disease causes problems for other body systems.

### **Symptoms:**

- Burning sensation when urinating
- Fever
- Pain in lower abdomen
- Unusual discharge
- Irregular menstrual bleeding
- Uterine tenderness (can lead to endometriosis)
- Can cause ectopic pregnancy

*Content from CDC: Centers for Disease Control & Prevention Pelvic Inflammatory Disease Fact Sheet  
<http://www.cdc.gov/std/pid/stdfact-pid-detailed.htm>*