

# How Does the Immune System Protect the Body?

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Get Ready to Learn

- ♦ As you learned in the previous lesson, communicable diseases can spread from \_\_\_\_\_ to \_\_\_\_\_.
- ♦ Some of these diseases are specifically spread through \_\_\_\_\_ contact with another person.
- ♦ Why do you think it is important to know about sexually transmitted diseases?

## Sexually Transmitted Diseases

- ♦ When the United States population was in excess of \_\_\_\_\_ people and growing, the Centers for Disease Control and Prevention estimated that about 19 million people in the United States became infected with an STD \_\_\_\_\_ year.
- ♦ Do you think that this trend continues today?
- ♦ Sexually transmitted diseases (STDs) are spread through \_\_\_\_\_ contact with an infected person.
- ♦ Like other communicable diseases, STDs are caused by \_\_\_\_\_, bacteria, \_\_\_\_\_, and protists.
- ♦ No one is \_\_\_\_\_ to sexually transmitted diseases.
- ♦ People of all \_\_\_\_\_ can become infected with an STD.
- ♦ Unborn \_\_\_\_\_ may become infected from their mothers.
- ♦ It is even possible to become infected with more than \_\_\_\_\_ STD at the same time.
- ♦ In recent years, the number of STD infections occurring in the \_\_\_\_\_ population has risen.
- ♦ This increase is due to several factors: teenagers are become more sexually \_\_\_\_\_, their use of drugs and alcohol is \_\_\_\_\_, and they often do not take \_\_\_\_\_ measures.
- ♦ STDs can make both men and women \_\_\_\_\_, or unable to have a baby.
- ♦ They can also cause organ and nerve \_\_\_\_\_.
- ♦ STDs affect more than just the people \_\_\_\_\_ in sexual activity.

- ♦ If a woman has an STD that goes untreated and she becomes pregnant, the STD can also \_\_\_\_\_ the baby.
- ♦ An example is syphilis, which can pass from mother to \_\_\_\_\_ baby during pregnancy.
- ♦ Other STDs such as gonorrhea, chlamydia, and herpes can infect the baby as the baby \_\_\_\_\_ through the birth canal.
- ♦ Without preventive \_\_\_\_\_, HIV can be passed from mother to fetus.
- ♦ STDs passed to babies can lead to \_\_\_\_\_, low birth weight, blindness, brain damage, and many other health problems.

#### Common STDs: Chlamydia

- ♦ Chlamydia is the \_\_\_\_\_ spreading STD in the United States, is caused by bacterial infection.
- ♦ In \_\_\_\_\_, it produces inflammation of the urethra, causing a thin mucous discharge and a burning sensation when urinating. Or there may be no symptoms.
- ♦ In \_\_\_\_\_, no symptoms occur until the disease is in its late stages.
- ♦ If untreated, it may cause damage to the \_\_\_\_\_ organs or sterility.
- ♦ An infected mother can pass the disease to her \_\_\_\_\_, and it can cause blindness.
- ♦ Chlamydia is treated and \_\_\_\_\_ with antibiotics.

#### Common STDs: Genital Herpes

- ♦ \_\_\_\_\_ is caused by the herpes simplex virus, which also causes cold sores.
- ♦ Once infected, a person is infected for \_\_\_\_\_. The disease disappears and reappears throughout life.
- ♦ Symptoms include red, tender \_\_\_\_\_ in the genital area. One or more blisters or bumps form, which may burn or itch and may cause flu-like symptoms.
- ♦ An infected mother can pass the disease to her \_\_\_\_\_. It can cause severe brain fever, which can be fatal.
- ♦ \_\_\_\_\_ exists, but herpes outbreaks can be treated with antiviral drugs.

#### Common STDs: Genital Warts

- ♦ \_\_\_\_\_ warts are caused by *Human papillomavirus*, which also causes cancer of the cervix.

- ♦ Warts on other parts of the body are caused by different \_\_\_\_\_ . Genital warts are growths on the skin of the genital area and around the anus.
- ♦ These warts can be treated with \_\_\_\_\_ (freezing the wart with liquid nitrogen) or with lasers, electrocautery, or antiviral drugs.
- ♦ In recent years, a \_\_\_\_\_ for *Human papillomavirus*, has been developed for teen to prevent infection from certain forms of this virus.

#### Common STDs: Gonorrhea

- ♦ Gonorrhea is caused by \_\_\_\_\_ infection.
- ♦ In \_\_\_\_\_, gonorrhea causes discharge from the penis and painful urination.
- ♦ In \_\_\_\_\_, gonorrhea may cause vaginal discharge, abdominal pain, fever, and pelvic inflammatory disease.
- ♦ Symptoms of gonorrhea may not appear at \_\_\_\_\_. If left untreated it can cause sterility in woman.
- ♦ Gonorrhea is treated and cured with \_\_\_\_\_.
- ♦ However, antibiotic resistant \_\_\_\_\_ of gonorrhea have developed, making treatment of this disease more difficult.

#### Common STDs: Syphilis

- ♦ Syphilis is caused by a type of \_\_\_\_\_ called a spirochete.
- ♦ This disease has \_\_\_\_\_ stages:
  1. A painless \_\_\_\_\_ forms on the genitals or mouth.
  2. Symptoms include \_\_\_\_\_, fever, headache, and weight loss.
  3. If left untreated can result in \_\_\_\_\_ to the cardiovascular and nervous systems.
- ♦ Symptoms can \_\_\_\_\_, but the disease does not unless treated.
- ♦ Syphilis is treated and cured with \_\_\_\_\_ in the early stages.

#### Common STDs: Vaginitis

- ♦ Vaginitis, an infection of the vagina, occurs only in \_\_\_\_\_.
- ♦ Not \_\_\_\_\_ forms of vaginitis are sexually transmitted.
- ♦ Trichomoniasis is a type of vaginitis caused by a \_\_\_\_\_. Symptoms include a yellow discharge, itching, and burning.
- ♦ Candidiasis is another form of vaginitis. It is a \_\_\_\_\_ infection caused by yeast. Symptoms include a cottage-cheese-like discharge and intense itching.

- ♦ Gardnerella is a vaginitis caused by \_\_\_\_\_. It produces a grayish, water, strong-smelling discharge.
- ♦ Different forms of vaginitis can be treated with appropriate \_\_\_\_\_ and specific drugs.
- ♦ Good personal \_\_\_\_\_ and cotton undergarments ensure air circulation and reduce the risk of vaginitis.