

Mumps

1 What virus causes swelling of the glands of the head and neck, often making infected individuals look like chipmunks?

- A. Measles virus
- B. Mumps virus
- C. Influenza virus
- D. Rubella virus

2 What type of vaccine is the MMR vaccine?

- A. Conjugate vaccine
- B. Live, "weakened" viral vaccine
- C. Toxoid vaccine
- D. Inactivated viral vaccine

3 Which of the following are common symptoms of mumps virus?

- A. Fever
- B. Body aches and headaches
- C. Swollen glands
- D. All of the above

4 In December of 2014, which North American professional sports organization dealt with a mumps outbreak?

- A. National Football League (NFL)
- B. National Hockey League (NHL)
- C. Major League Baseball (MLB)
- D. National Basketball Association (NBA)

5 If 10 susceptible (nonimmune) people come into contact with a person infected with mumps, how many of them are likely to become infected?

- A. 2
- B. 4
- C. 6
- D. 10

6 The virus used to make the mumps vaccine was isolated from vaccine developer Dr. Maurice Hilleman's _____.

- A. Daughter
- B. Granddaughter
- C. Niece
- D. Goddaughter

7 Before the vaccine, mumps was the most common cause of which acquired disability in the U.S.?

- A. Blindness
- B. Deafness
- C. Paralysis
- D. All of the above

8 In recent years, mumps has been spreading in what population?

- A. High school students
- B. Elementary students
- C. College students
- D. Middle school students

9 What condition can result from infection with mumps?

- A. Multiple sclerosis
- B. Guillain-Barre syndrome
- C. Vertigo
- D. Sterility

10 Why is it particularly concerning if a pregnant woman gets mumps?

- A. It can cause premature labor.
- B. She cannot take antibiotics.
- C. It can harm the fetus.
- D. She cannot be immunized.

Mumps

ANSWERS

1

The correct answer is **B**

Mumps virus infects the salivary glands in about 35 of 100 people infected with the virus. When these glands begin to swell, the infected person often looks like a chipmunk.

2

The correct answer is **B**

The MMR vaccine is a live, “weakened” viral vaccine that contains three vaccines (measles vaccine, mumps vaccine and rubella vaccine) combined into one shot. All three vaccines are made by weakening the viruses so that they do not replicate enough to cause disease, but still reproduce enough to provide protective immunity.

3

The correct answer is **D**

In addition to swollen glands below the ear, mumps virus can cause body aches, headache and fever.

4

The correct answer is **B**

More than 25 NHL players and at least two referees were diagnosed with mumps in December of 2014. The virus spreads easily in close quarters, such as locker rooms, schools and dormitories.

5

The correct answer is **C**

If 10 susceptible people are exposed to one person infected with mumps virus, about six will likely become infected.

6

The correct answer is **A**

Jeryl Lynn was the daughter of Dr. Hilleman. When Jeryl Lynn woke her father in the middle of night and complained of feeling sick, he realized that she likely had mumps and swabbed her throat. Ultimately, successfully growing the virus in the lab and isolating it for use as the vaccine strain. For this reason, the strain of mumps virus used in the vaccine is called the “Jeryl Lynn” strain.

7

The correct answer is **B**

Because mumps virus causes swelling in the salivary or parotid glands just below the ear, the disease can cause deafness.

8

The correct answer is **C**

In recent years, mumps outbreaks have been reported on college campuses across the United States. In fact, one outbreak linked to a university in Ohio, during 2014, involved more than 400 people.

9

The correct answer is **D**

Mumps can infect the testicles and cause sterility.

10

The correct answer is **C**

Mumps infection during pregnancy occasionally resulted in the death of the unborn child.

