

- Measurements of what hormone associated with stress have been studied in children receiving vaccinations?
  - Cortisol
  - Progesterone
  - Testosterone
  - Stressol
- What disease did parents want their children to share before the vaccine was available?
  - Polio
  - Varicella (chickenpox)
  - Rotavirus
  - Haemophilus influenzae* type B
- Which famous inventor wished he supported smallpox variolation after his son later died of the disease?
  - Thomas Jefferson
  - Benjamin Franklin
  - Roger Bacon
  - Michael Faraday
- Which disease is known to be more commonly spread from adults to children?
  - Varicella (chickenpox)
  - Pertussis (whooping cough)
  - Measles
  - Rubella
- What famous children's game was invented by Eleanor Abbott while she recovered from polio in a hospital ward?
  - Chutes and Ladders
  - Jacks
  - Candy Land
  - Trouble
- What vaccine-preventable disease used to be referred to as "the strangling angel of children?"
  - Diphtheria
  - Smallpox
  - Pertussis
  - Chickenpox
- What are potential complications that could occur with chickenpox disease but not the chickenpox vaccine?
  - Pneumonia, encephalitis (inflammation of the brain), and bacterial infections
  - Overexposure to the active ingredient in calamine lotion
  - Rash
  - There are no complications that could occur with chickenpox disease.
- Although he died well before the vaccine was invented, Lewis Carroll, author of *Alice in Wonderland*, died from what vaccine-preventable disease?
  - Smallpox
  - Shingles
  - Polio
  - Influenza
- Low immunization rates in the United States during the late 1980s and early 1990s led to an outbreak of what vaccine-preventable disease?
  - Haemophilus influenzae* type B
  - Polio
  - Measles
  - Mumps
- In 1916, rumors circulated that candy was the cause of what infectious disease?
  - Measles
  - Smallpox
  - Polio
  - Influenza

**1. The correct answer is A**

Scientific studies measuring cortisol allowed scientists to determine that children do not experience more stress when receiving two shots at once as compared to receiving only one shot. If vaccines are separated or spaced out, a child may experience more stress because they have to return to the doctor more frequently than they would if the recommended schedule was followed.

**2. The correct answer is B**

Before the chickenpox vaccine was available, parents would intentionally expose their children to others with chickenpox so they could become infected and gain immunity during childhood, when the disease is typically less severe.

**3. The correct answer is B**

In 1721, Benjamin Franklin and his brothers were critical of variolation, a technique used to inoculate a person against smallpox. Variolation differs from vaccination because during variolation, material was taken directly from an ill person's smallpox pustule and inoculated into a small cut in a susceptible person.

**4. The correct answer is B**

Typically, children spread infections to adults; however, pertussis (whooping cough) is more commonly spread from adults to children. Pertussis is particularly dangerous for newborns before they can be vaccinated. For this reason, pregnant people are recommended to get the Tdap vaccine during weeks 27 through 36 of pregnancy, so the baby will benefit from maternal antibodies before they receive their own vaccines.

**5. The correct answer is C**

Eleanor Abbott designed Candy Land in 1945 while she recovered from polio in a San Diego hospital ward. Candy Land was inducted into the National Toy Hall of Fame in 2005.

**6. The correct answer is A**

Diphtheria was called “the strangling angel of children” because of the thick membrane that develops in the back of the throat, often covering airways and causing suffocation.

**7. The correct answer is A**

Being naturally infected with chickenpox is more dangerous than receiving the chickenpox vaccine because of the possible complications that can occur, including pneumonia (inflammation of the lungs), encephalitis (inflammation of the brain), and bacterial infections. While all children with chickenpox have the characteristic rash, only about 4 of 100 vaccinated children will have a mild rash at the location where the vaccine was administered.

**8. The correct answer is D**

Lewis Carroll wrote many stories but is probably most famous for writing *Alice in Wonderland* and *Through the Looking Glass*. Lewis Carroll died from influenza in 1898.

**9. The correct answer is C**

Low immunization rates in the U.S. led to a measles outbreak during the late 1980s and early 1990s. In California alone, 16,400 people were infected, almost 4,000 were hospitalized and 75 died.

**10. The correct answer is C**

In 1916, rumors circulated that candy caused polio. Candy was also rumored as the cause of other infectious diseases, such as cerebrospinal meningitis. In fact, candy was so frequently blamed for poisonings and injuries that the National Confectioners Association thoroughly investigated almost every report on “candy poisonings.” The investigators found that out of the hundreds of reports of “candy poisonings,” very few were based on fact.

More trivia:  
[vaccine.chop.edu/trivia](https://vaccine.chop.edu/trivia)



This information is provided by the Vaccine Education Center at Children's Hospital of Philadelphia. The Center is an educational resource for parents, the public and healthcare professionals and is composed of scientists, physicians, mothers and fathers devoted to the study and prevention of infectious diseases. The Vaccine Education Center is funded by endowed chairs from Children's Hospital of Philadelphia. The Center does not receive support from pharmaceutical companies. ©2024 Children's Hospital of Philadelphia. 24262-03-2024.