

Boost Your Knowledge

Become a vaccine expert in just a few short minutes! You'll be glad you did. This general vaccines quiz offers useful facts that will help you live a healthier life!

People with severely weakened immune systems should not receive killed vaccines.

- a) True
- b) False
 - i. People who are immunocompromised can safely receive inactivated and component vaccines according to the recommended schedule from ACIP.

A baby with its mother's antibodies is fully protected, and therefore does not need to be vaccinated.

- a) True
- b) False
 - i. Antibodies are passed from mother to baby through the placenta during the third trimester (last 3 months of pregnancy). This gives the baby some protection when they are born. The type and amount of antibodies passed to the baby depends on the mother's own level of immunity and are temporary.

The first polio vaccine trial was at the time the largest human medical trial in history.

- a) True
 - i. In 1954, Salk launched what was then the largest human medical trial in history, injecting nearly 2 million American children with a potential vaccine.
- b) False

Polio is completely eradicated as of 2018 due to a successful vaccination program.

- a) True
- b) False
 - i. Polio does still exist, although polio cases have decreased by over 99% since 1988, from an estimated more than 350,000 cases to 22 reported cases in 2017. This reduction is the result of the global effort to eradicate the disease. Today, only 2 countries in the world have never stopped transmission of polio (Pakistan and Afghanistan).

Toxoid vaccines target the toxin caused by the germ, and not the whole germ itself.

- a) True
 - i. Toxoid vaccines use a toxin (harmful product) made by the germ that causes a disease. They create immunity to the parts of the germ that cause a disease instead

of the germ itself. That means the immune response is targeted to the toxin instead of the whole germ.

b) False

The first mRNA vaccine was the Ebola vaccine.

a) True

- i. The first mRNA vaccines were developed to combat the deadly Ebola virus, but since that virus is only found in a limited number of African countries, it had no commercial development in the U.S.

b) False

Scientists began researching mRNA vaccines in 2013.

a) True

b) False

- i. Messenger RNA, or mRNA, was discovered in the early 1960s; research into how mRNA could be delivered into cells was developed in the 1970s.

The same virus causes both chickenpox and shingles, or herpes zoster.

a) True

- i. Herpes zoster, also known as shingles, is caused by the reactivation of the varicella-zoster virus (VZV), the same virus that causes varicella (chickenpox).

b) False

The Covid-19 vaccine can affect women's fertility.

a) True

b) False

- i. Based on recent studies, there is currently no evidence that vaccine ingredients or antibodies made following COVID-19 vaccination would cause any problems with becoming pregnant now or in the future.

The Covid-19 vaccine modifies the DNA in your cells.

a) True

b) False

- i. COVID-19 vaccines do not change or interact with your DNA in any way. Both messenger RNA (mRNA) and viral vector COVID-19 vaccines work by delivering instructions (genetic material) to our cells to start building protection against the virus that causes COVID-19. After the body produces an immune response, it discards all the vaccine ingredients just as it would discard any information that cells no longer need. This process is a part of normal body functioning.