

Vision 2020: Takeda and the Vaccine Business

What does a vaccine do?

When a vaccine is injected into the body, it stimulates the immune system to produce antibodies. These antibodies are proteins that can recognize and bind to the pathogen, preventing it from causing disease. The immune system then destroys the pathogen and the antibodies remain in the body to protect against future infections.

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What is a vaccine?

A vaccine is a biological preparation that provides active immunity to a particular infectious disease. It typically consists of an emulsion of very small pieces of a dead or inactivated pathogen or a protein or sugar derived from a pathogen.

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Takeda

More in a minute before we continue

What is in a vaccine

In a vaccine, there is:

- live pathogens treated to make them harmless
- harmless fragments of the pathogen
- toxins produced by pathogens
- dead pathogens

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Why do we have vaccines as children?

Vaccines are a critical tool to prevent disease. They work by stimulating the immune system to produce antibodies that can recognize and bind to the pathogen, preventing it from causing disease. Vaccines are most effective when given to children, as their immune systems are still developing and they are more likely to be exposed to the pathogen.

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Questions

1. What is a vaccine?

2. What does a vaccine do?

3. Why do we have vaccines as children?

4. What is in a vaccine?

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What is a vaccine?

A vaccine is a biological preparation that provides active immunity to a particular disease. It typically consists of an antigenic material that stimulates the immune system. The immune system then produces antibodies to the antigenic material, which are used to fight off the disease.

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Takeda

More in a video before we continue

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Why do we have vaccines as children?

Vaccines are a critical tool to prevent disease. They work by stimulating the immune system to produce antibodies against a specific pathogen. This helps the body fight off the pathogen and prevents disease. Vaccines are especially important for children because they are more vulnerable to disease and can spread it more easily.

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Questions

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What is a vaccine?

A vaccine is when you get an injection of a weakened form/dead version of a pathogen inside of your body.



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What does a vaccine do?

A vaccine simulates our white blood cells to produce lymphocytes to multiply and make antibodies. These antibodies will then find the weakened pathogen and destroy it



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Why do we have vaccines as children?

Vaccines in a early childhood give us more protection from many serious diseases. In some cases we are given more than one like MMR.

At times, a vaccine booster is needed as our immune system memory starts to weaken and needs anti tetanus.



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Questions

- What is a pathogen?
- What do vaccines contain
- What do white blood cells do?
- What type of white blood cell produces antibodies?
- How do antibodies help to defend us against pathogens invading

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Takeda
Takeda is a Japanese pharmaceutical company that has a strong focus on vaccine development. The company has a long history of research and development in the vaccine field and has developed several successful vaccines, including the Takeda COVID-19 vaccine.

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Why do we have vaccines as children?
Vaccines are a critical tool in the fight against infectious diseases. They help protect children from many serious illnesses and prevent the spread of these diseases. Vaccines are also a key part of public health efforts to reduce the burden of disease and improve the overall health of the population.

Questions

