

Covid-19 vaccines

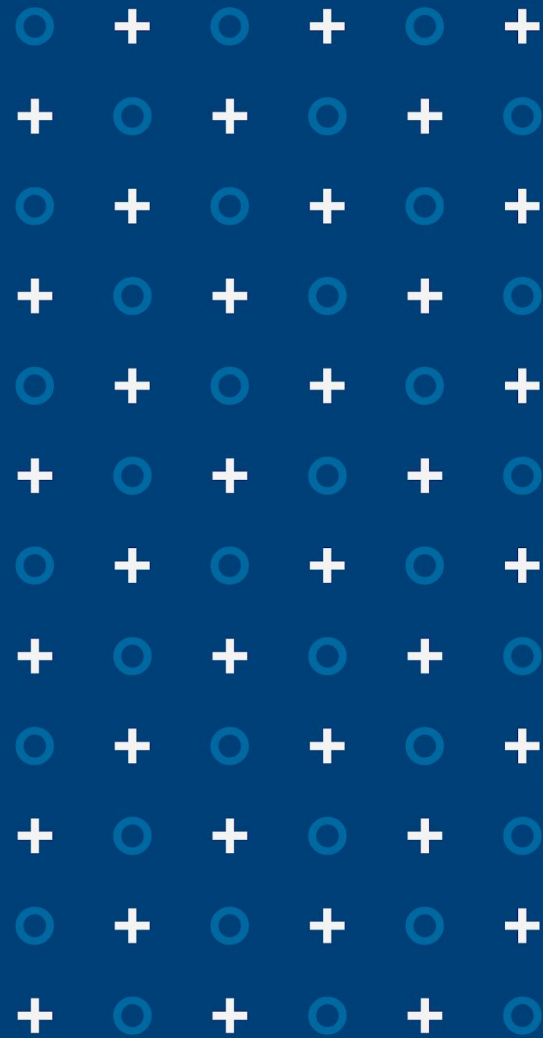
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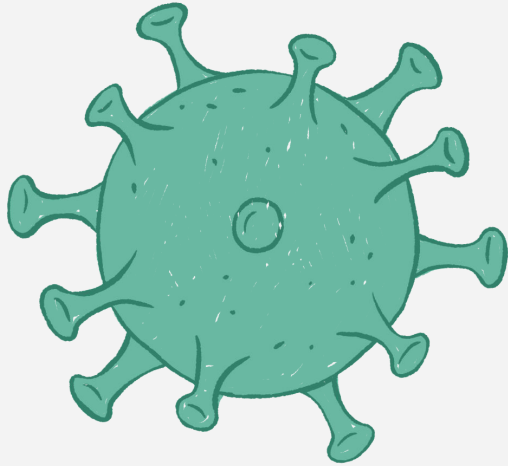
FOUNDATION FOR
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- + Why do we need vaccines?**
- + What are vaccines? How do vaccines work?**
- + What is vaccination?**
- + How does vaccination protect us?**
- + Why is vaccination important?**
- + What is herd or population immunity?**

Why do we need vaccines?



Why do we need vaccines?



Virus, bacteria, parasites.

They are all external agents ('pathogens') that can attack our bodies.

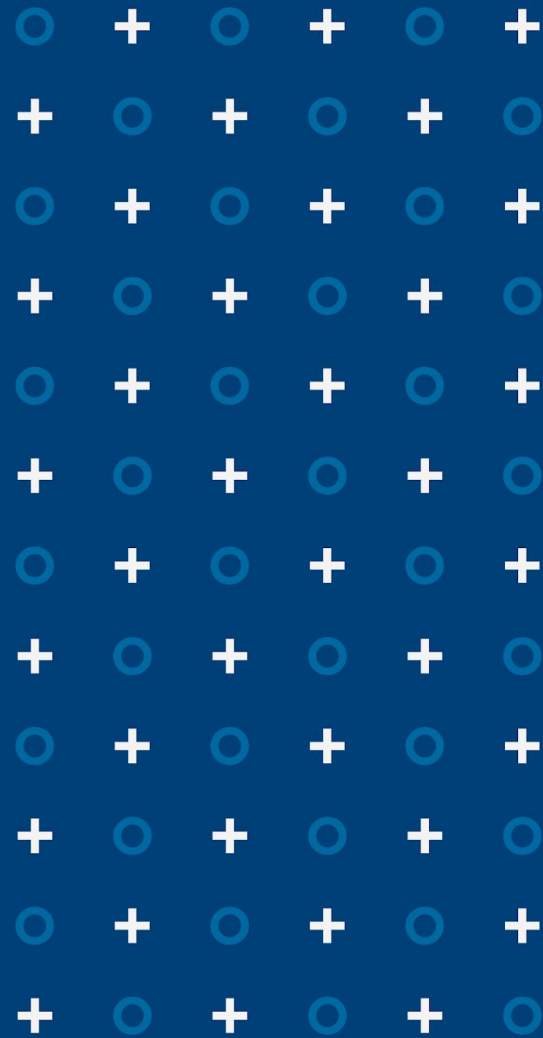
Why do we need vaccines?

Vaccines are, in a way, victims of their own success.

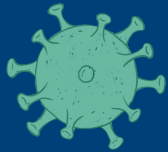
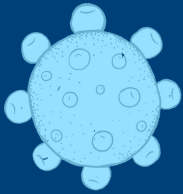
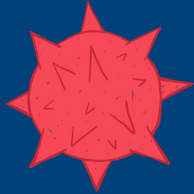
Most of us have already been vaccinated against polio, measles, meningitis, to name a few devastating diseases.



What are vaccines? How do they work?

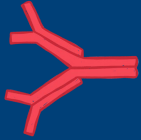


What are vaccines? How do they work?



Our body has natural defenses -the immune system- that have learned and stocked all the information specific to each pathogen.

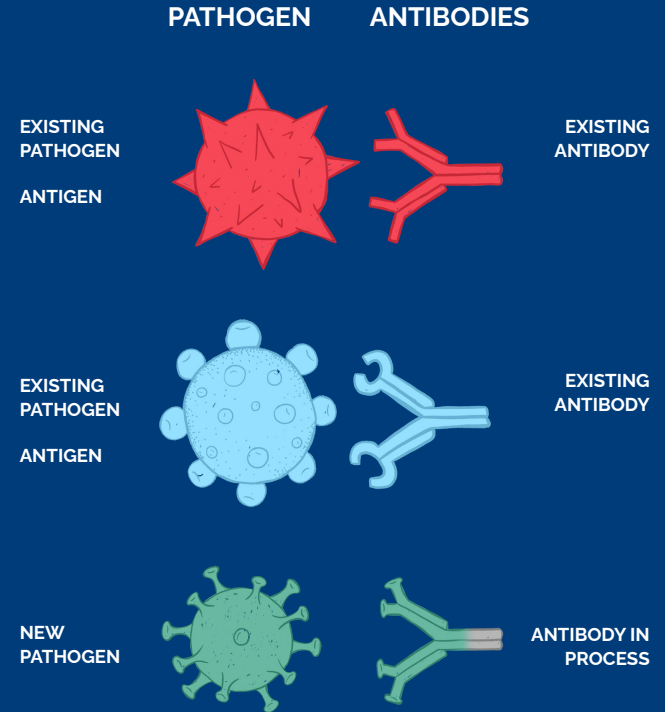
What are vaccines? How do they work?



The immune system got all that data by either having contacted specific components of the pathogens (antigens) or after receiving a vaccine.

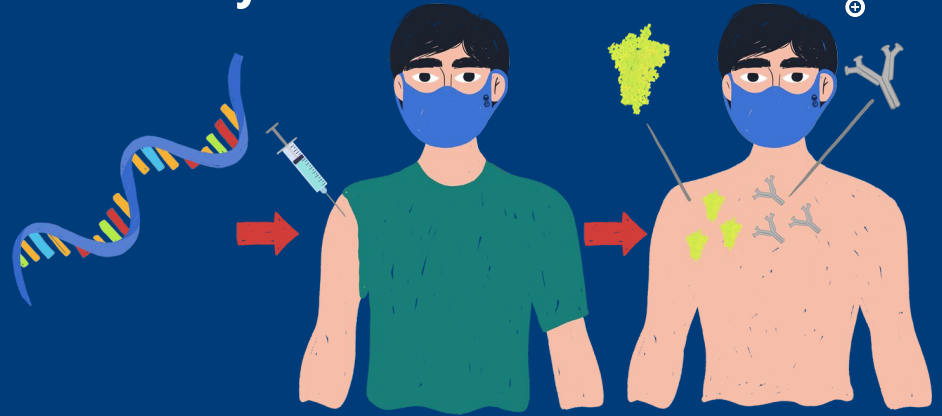
What are vaccines? How do they work?

To make our body ready to defend against future, potential disease-causing pathogens, vaccines train the immune system to produce antibodies, specialized proteins that bind to the invader's antigens and neutralize them.



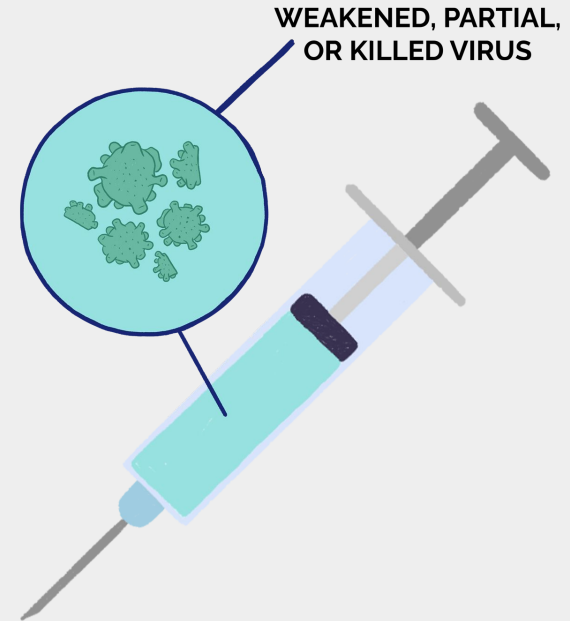
What are vaccines? How do they work?

When we receive a vaccine, the immune system recognizes the components of the pathogen and it stores them in its “library”.



What are vaccines? How do they work?

Vaccines mimic infectious agents: contain only killed, weakened, or a part of, pathogens capable of triggering a defense by our immune system in preparation for an eventual contact with the actual infectious agent, without risk of us becoming sick. By teaching our immune system to recognize and fight off pathogens, vaccines help our body defend itself every time it feels attacked.



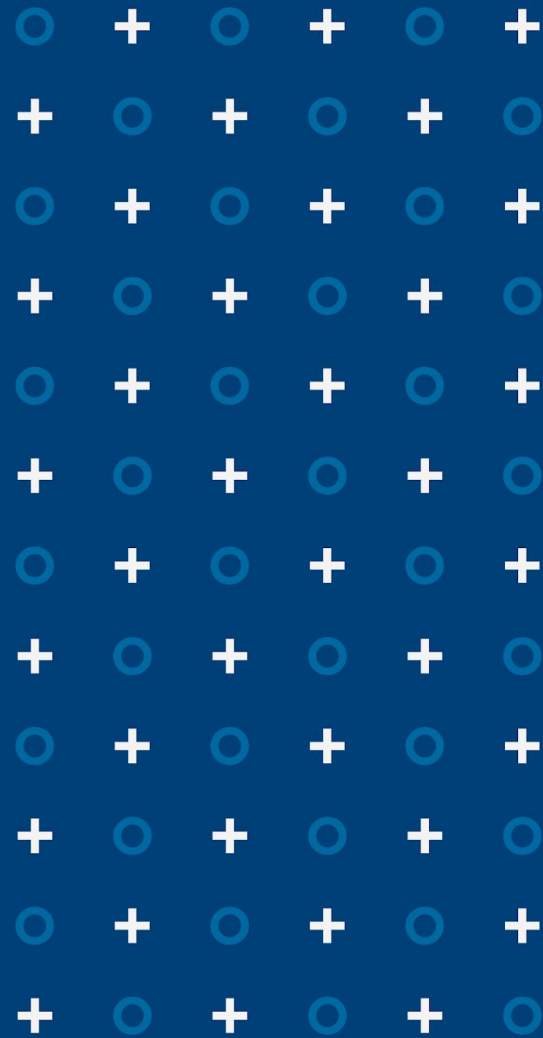
What is vaccination?



What is vaccination?

Vaccination is a simple, safe and effective way of protecting people against harmful diseases before they come into contact with them. It uses our body's immune system to build resistance to specific infections.

How does vaccination protect us?



How does vaccination protect us?



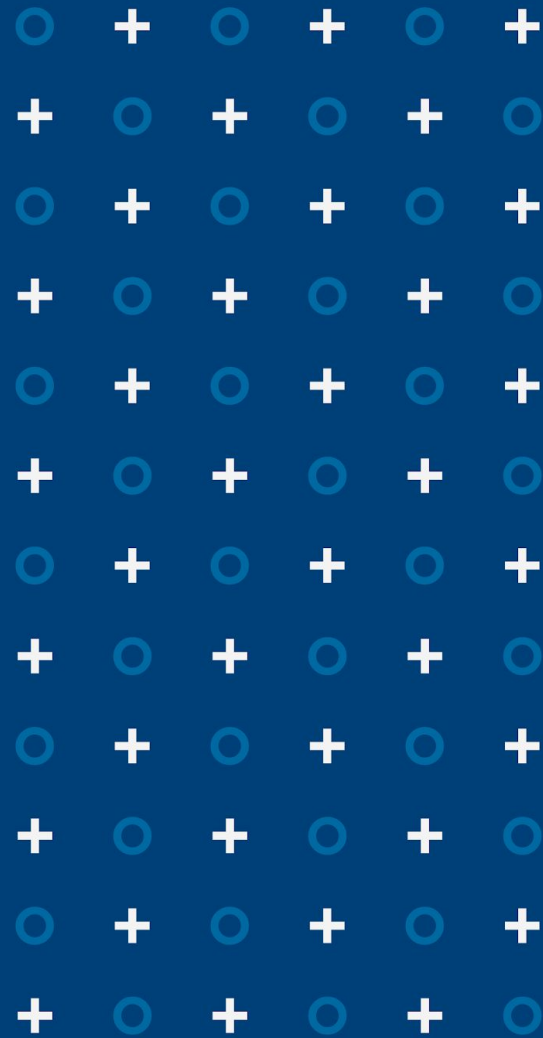
After the initial exposure to an antigen the immune system needs time to produce antibodies. In the meantime, the person can become sick. This is what is currently happening with the virus that causes Covid-19.

How does vaccination protect us?



It is the first time that this pathogen is in contact with the global population and people still do not have the immune system prepared to face it in an effective way. For this reason, the infections multiply rapidly, and the planet must confront itself with a pandemic that is very hard to control. **Developing vaccines is one of the most effective strategies to confront the Covid-19 pandemic.**

Why is vaccination important?



Why is vaccination important?

01.



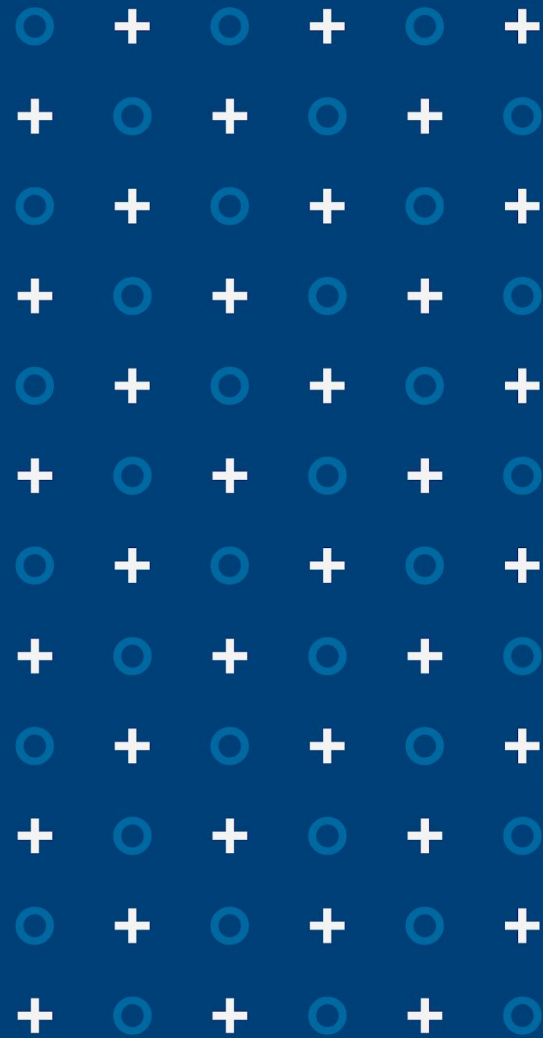
Vaccination is the strategy that we have as a society to create a **collective memory in our immune system facing this new disease.**

02.



A massive vaccination campaign is essential for the whole world population to confront the coronavirus that causes Covid-19, **stopping its spread and avoiding sickness.**

What is herd or population immunity?



What is herd or population immunity?

When somebody is vaccinated, it is very probable that he/she is protected (immune) against the illness that the pathogen could cause.

Unfortunately, not everyone can receive vaccines:
Some people, like

those who are seriously ill, are advised not to get vaccinated; they are considered 'vulnerable'. **These people can still be protected if they live among other people who are vaccinated.**

What is herd or population immunity?

The more that are immune in a community, the less likely those who remain vulnerable run the risk of being exposed to the harmful pathogens. This is what is called **herd or population immunity.**

What is herd or population immunity?

When we get vaccinated, we are not just protecting ourselves, but also those around us.

20% PEOPLE VACCINATED



80% PEOPLE VACCINATED



 Susceptible

 Vaccinated

 Vulnerable

What is herd or population immunity?

Don't forget! Immunization programs are only successful when there are high rates of acceptance and coverage.

The vaccine protects you, but it also protects those people who cannot be vaccinated for various reasons.

Get vaccinated and feel the importance of your contribution in doing so.



Thank you!

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