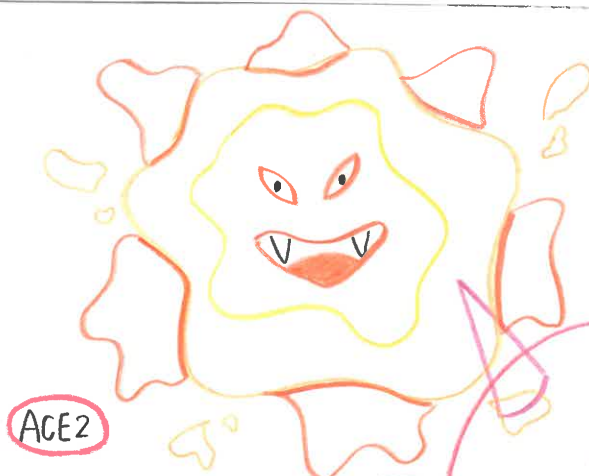




Hey guys! I am Doctor D. and today I am going to explain some facts about the Covid-19 for you, because it is a very important topic nowadays.

First of all, I am going to explain how the virus infection occurs.

Doctor D



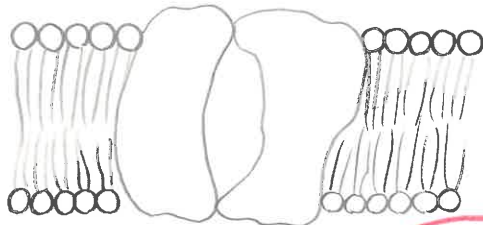
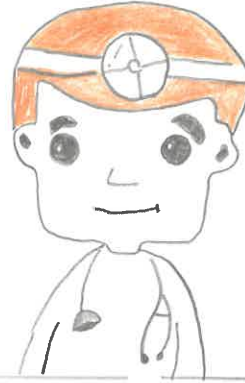
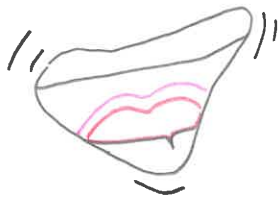
The first step of the virus infection is the binding between ACE2 and the Covid-19. ACE2 is a type of enzyme, which helps the cells to break and join molecules faster and with less energy.





The ACE2 are present in cells that have the function of moistening some parts of the body.

The human body has many of those cells that are in places that are exposed to the air, such as our mouth, nose, and eyelids.



After the virus binds to the cell membrane and transfers its genetic material to the human cell. The genetic material contains all the information necessary for the completion of all the functions of the cell.



Cell membrane

Human Cell

One important thing about viruses is that they need help from other cells to complete some of their important functions, such as reproduction. After the virus transfers its genetic material to the human cell, this infected cell starts to produce more viruses.



Respiratory System

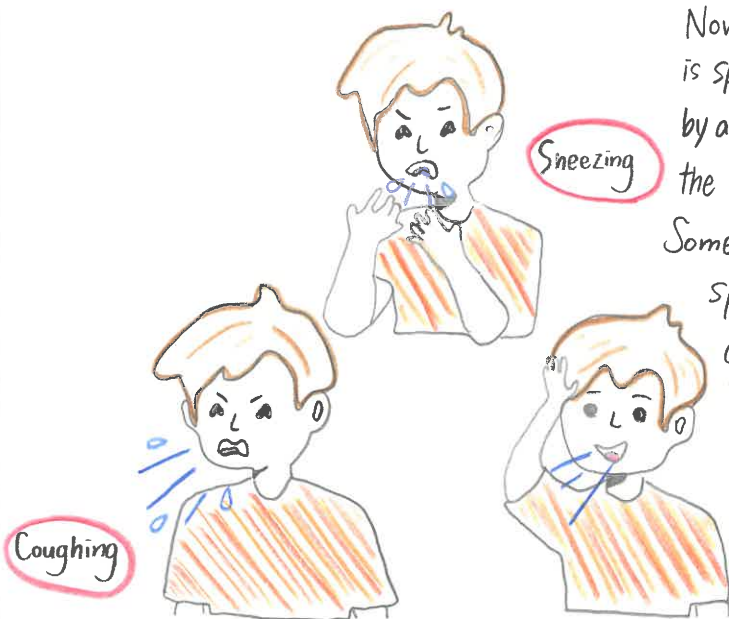


Coughing

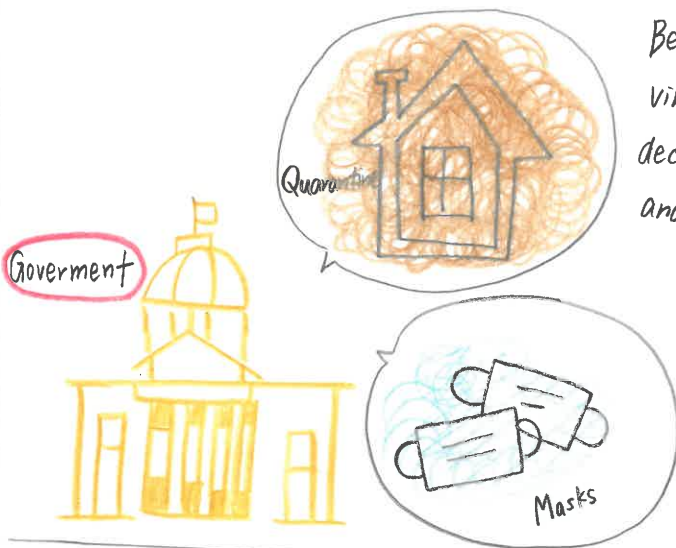


Fever

Because of that, many cells of the human body, mostly of the respiratory system, start to die, which cause the symptoms of the Covid-19, such as fever and coughing.



Now I want to explain how the virus is spread. The virus is mostly spread by air, by drops of fluid that come from the humans that were infected it. Some examples of activities that can spread the virus are sneezing, coughing, and talking.



Because of the ways in which the virus is spread, the governments decided to proceed with the quarantine and also made the people use masks.



Masks

The masks are really important to prevent you from getting the virus or even spreading it. The cotton that is present in the masks can filter **82%** of the droplets that are released by coughing. It is also important to remember that hand sanitizers are also important to prevent the spread of the virus as it kills most of the viruses that are present in the hand.

