

# #KNOWTHECURVES A GUIDE TO GETTING THE RIGHT COVID-19 TEST AT THE RIGHT TIME

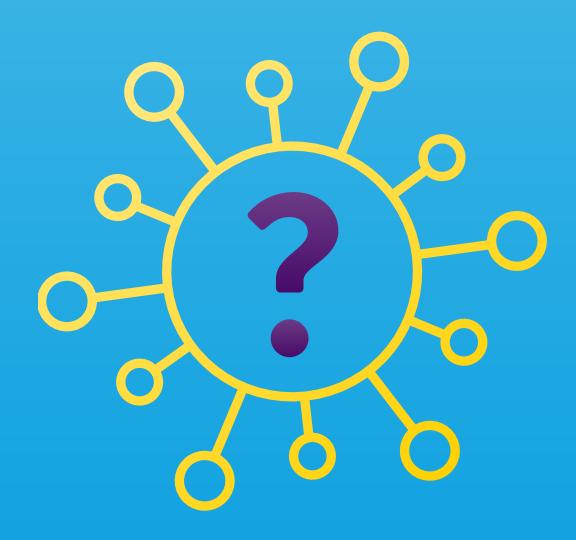




# **TESTING IS AN IMPORTANT TOOL IN THE FIGHT** AGAINST COVID-19.







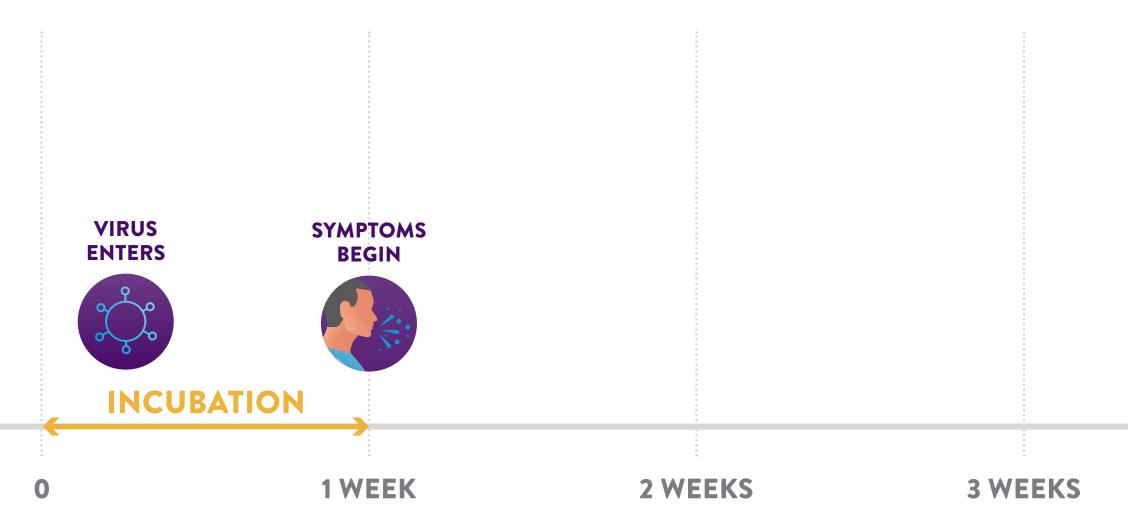
**THIS SIMPLE GUIDE** WILL HELP YOU UNDERSTAND **HOW COVID-19 TESTING WORKS.** 





## **INCUBATION**<sup>1</sup>

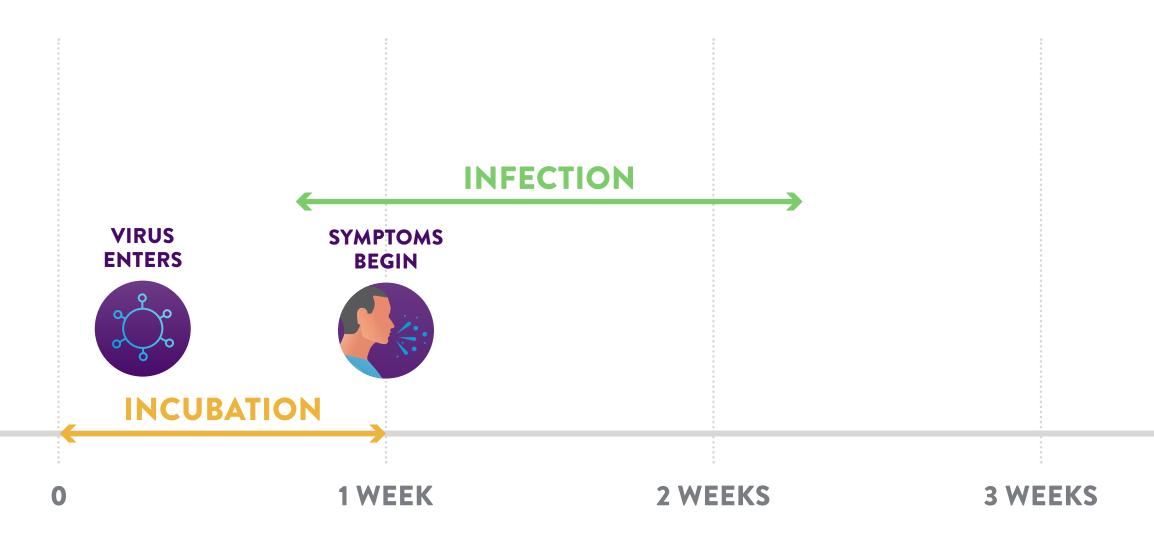
When you first get infected with COVID-19, the virus enters your body. During the following week, you may start to show symptoms. The time between getting the virus and when you first show symptoms is called the incubation period.





## **INFECTION**<sup>2</sup>

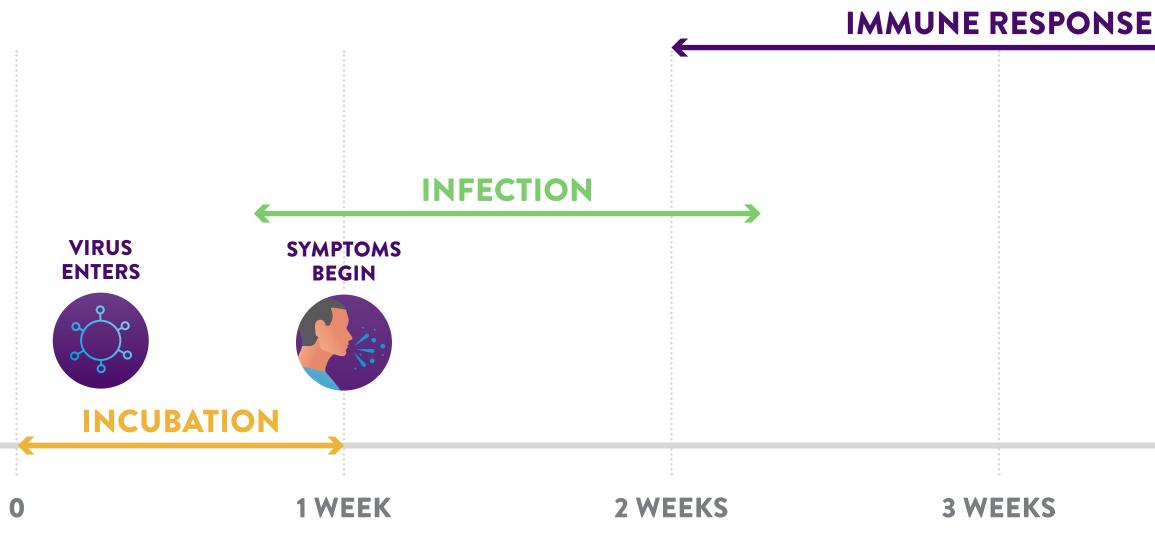
Within the first couple weeks, the virus multiplies in your body and you may have symptoms of COVID-19. You are now in the infection stage.





## **IMMUNE RESPONSE<sup>3</sup>**

A couple weeks after you get COVID-19, your body enters the third phase, when it produces an immune response to fight off the virus.



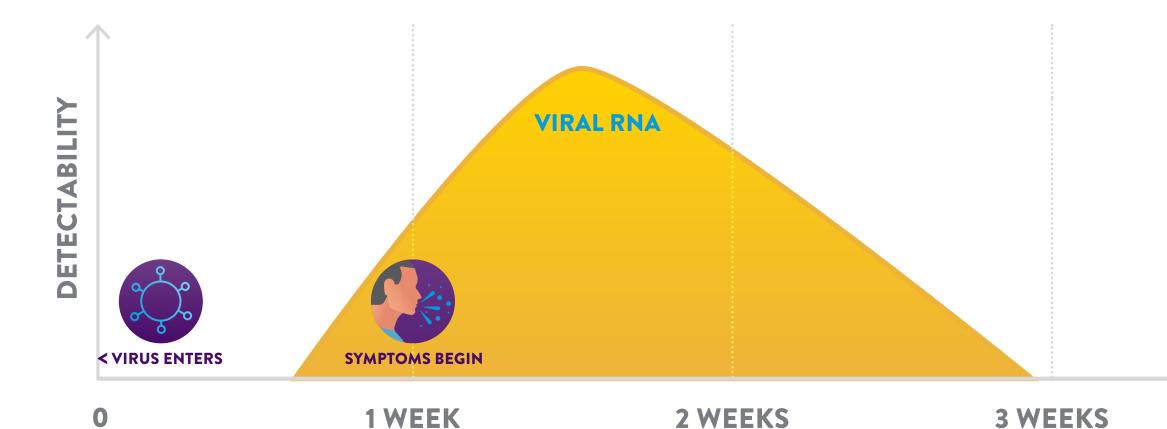




# **MEET THE CURVES**

# MEET CURVE **1** VIRAL RNA<sup>2</sup>

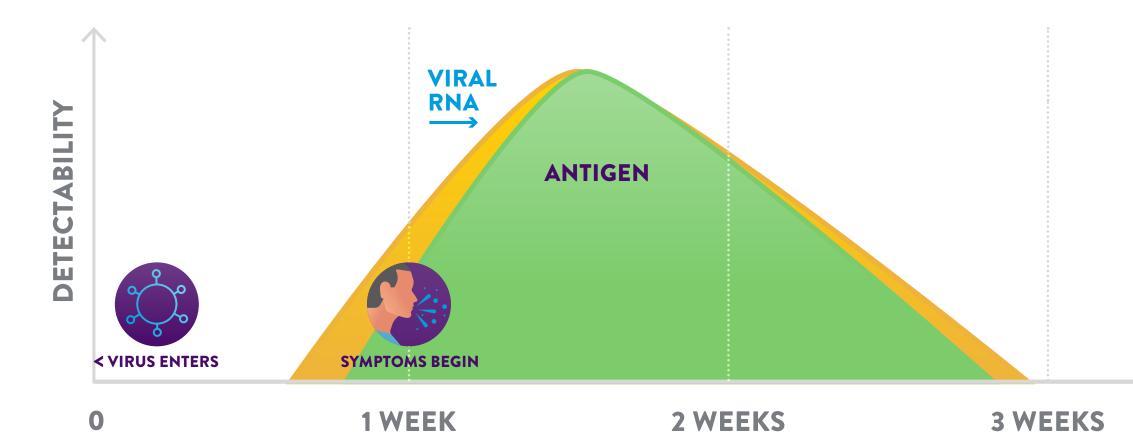
During the first 2 weeks of you being sick, the COVID-19 virus multiplies in your body, and the RNA (ribonucleic acid) of the virus becomes detectable. Over time, the number of viruses goes down as your body fights off the infection.







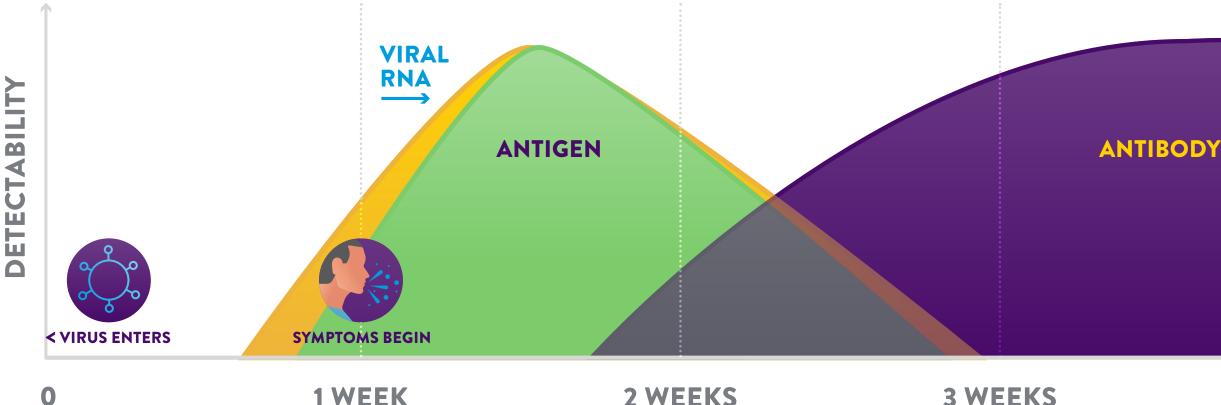
Antigens are proteins that are part of the virus. Since they are part of the virus, they also rise and fall along with the virus.



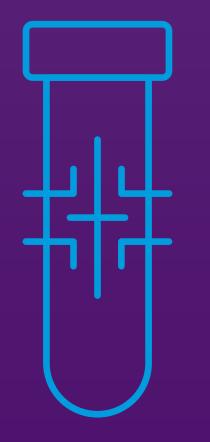




A couple weeks after infection begins, your body produces antibodies. Antibodies are not part of the virus. They fight the virus to help you get better.







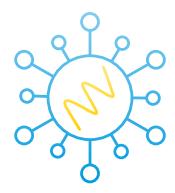
# MEET THE **COVID-19 TESTS**



## THERE ARE THREE TYPES OF COVID-19 TESTS, **ONE FOR EACH CURVE**



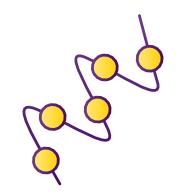
## **VIRAL RNA** Detects the RNA of the COVID-19 virus





## **ANTIGEN**

Detects antigens of the COVID-19 virus



**ANTIBODY** 



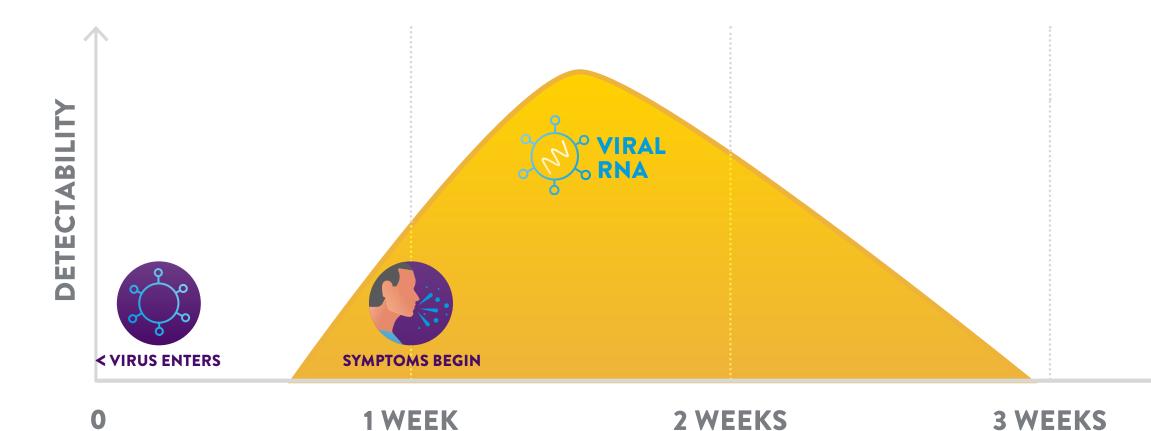


## **Detects** antibodies created by your body





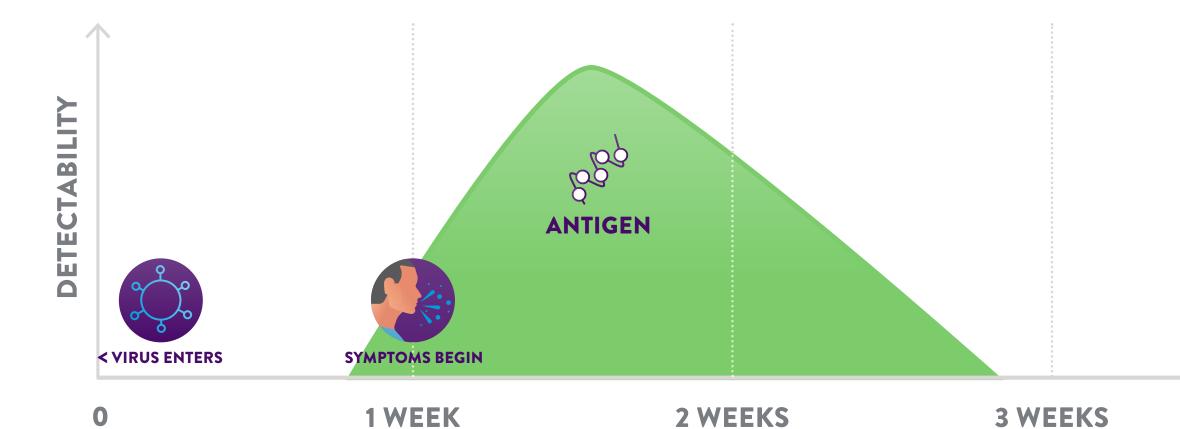
To detect the COVID-19 virus, you'll get a viral RNA test. These are often called molecular tests. Usually a swab sample is taken from your nose or throat to run this test.







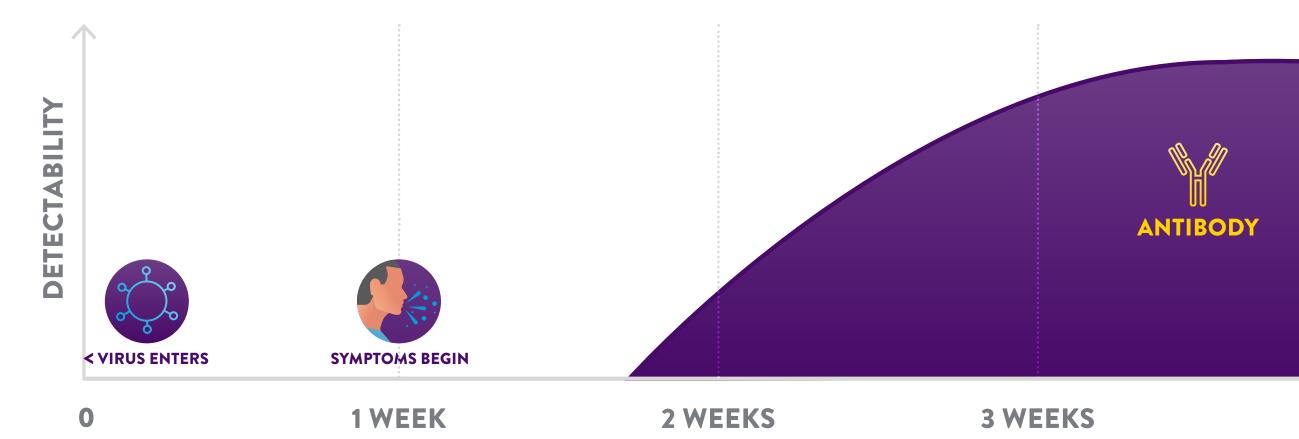
Antigen tests are specifically designed to detect COVID-19 antigens. These tests typically use a swab sample taken from your nose or throat.



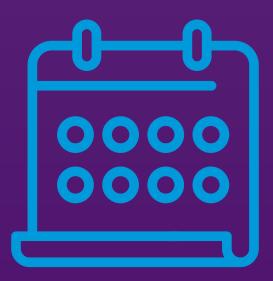




Antibody tests are also called immunoassay or serology tests. Antibodies are found in your blood, so this test uses a blood sample.





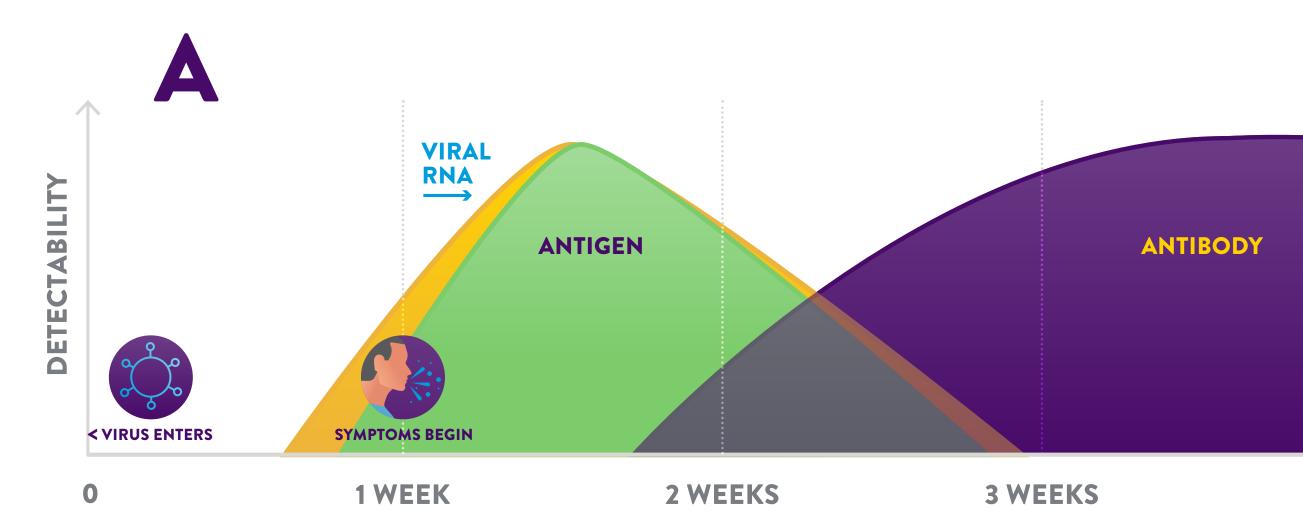


# **IT'S IMPORTANT** TO GET THE **RIGHT TEST AT** THE RIGHT TIME.



## TIME POINT A: IMMEDIATELY AFTER EXPOSURE

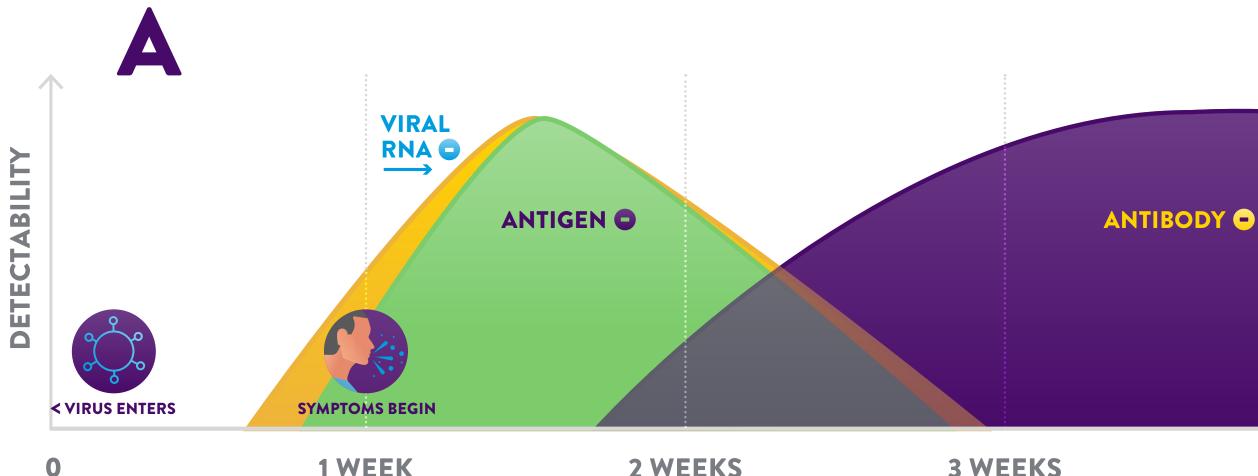
Imagine you were in contact with someone who has COVID-19. You might get tested right away, at time point A.





# TIME POINT A: DETECTION IS UNLIKELY

At time point A, even if you have COVID-19, it is unlikely that any test will be positive, because you are in the incubation period. The virus, antigen and antibody have not yet risen enough to be detectable.

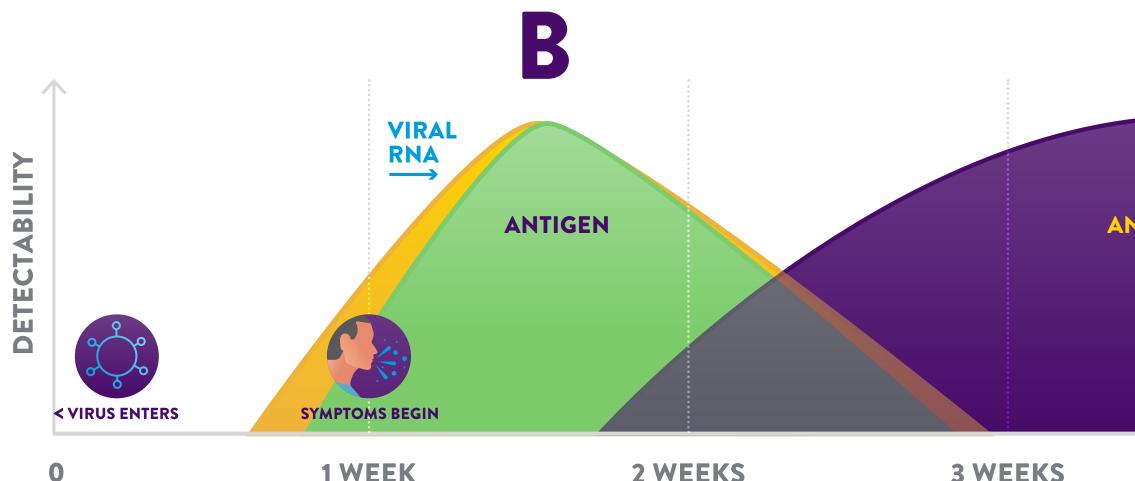






# **TIME POINT B: DURING INFECTION**

If you test at time point B, soon after having symptoms, you will likely get a viral RNA or antigen test, as these are both now multiplying in your body.

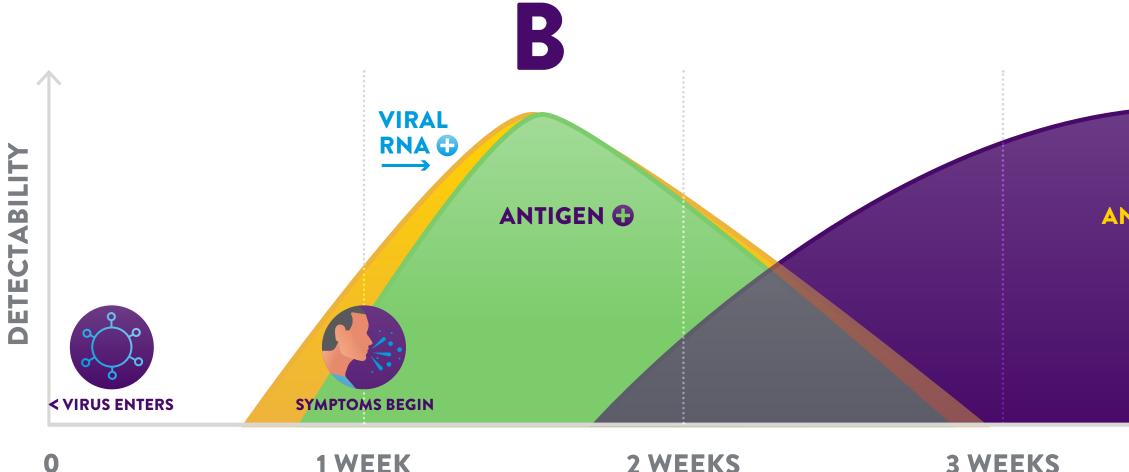






## TIME POINT B: VIRUS/ANTIGEN LIKELY POSITIVE

At time point B, a viral RNA or antigen test will likely be positive. But if you get an antibody test at this time, it will likely be negative, because antibodies have not yet appeared. You may hear this called a "false negative," because a test said you were negative when you actually have COVID-19. In this case, the antibody test was not wrong - it was just done at the wrong time.<sup>1</sup>

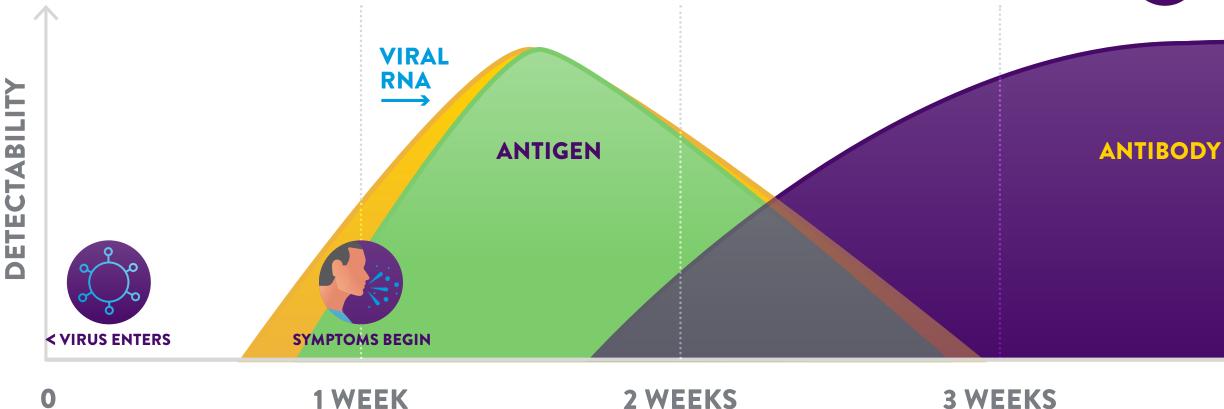


## ANTIBODY -



## **TIME POINT C: IMMUNE RESPONSE PHASE**

At time point C, weeks after your illness began, an antibody test is appropriate, because your body has started to create antibodies as an immune response.

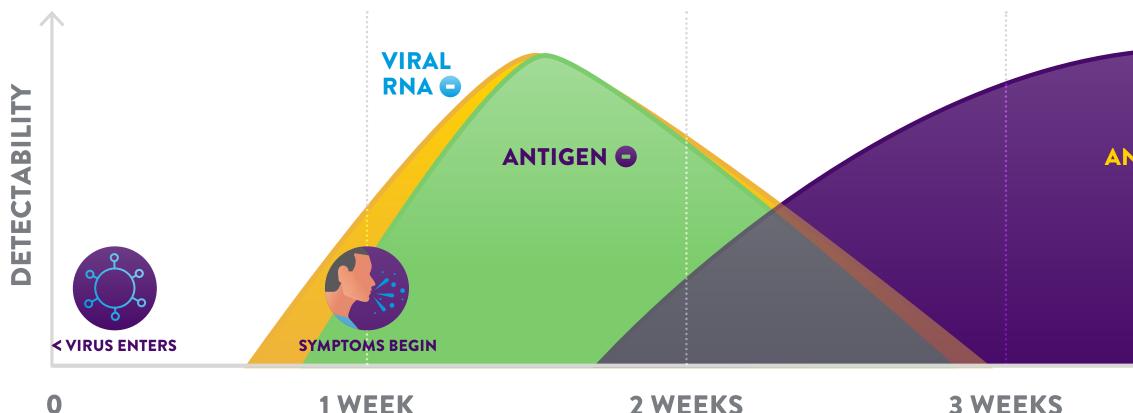






# TIME POINT C: ANTIBODY LIKELY POSITIVE

At time point C, an antibody test will likely be positive, because you have lots of antibodies in your blood. But if you get a viral RNA or antigen test, it could be negative, because the levels of virus and antigen may now be too low to be detected. This might give you the false impression that you didn't have COVID-19 when you actually did.

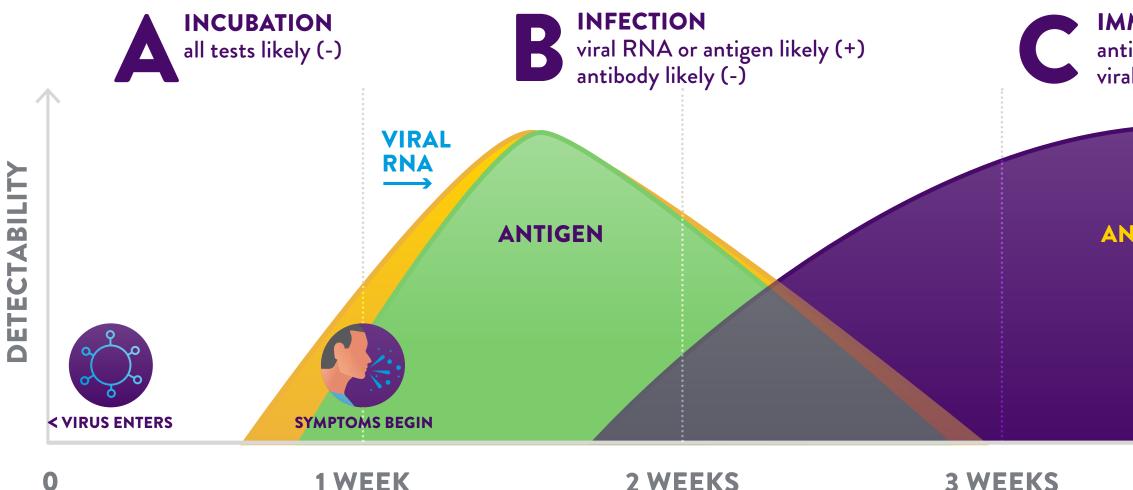




## ANTIBODY 🕀



## THE TIMING OF YOUR TEST IS IMPORTANT AND CAN **DETERMINE WHETHER YOU GET A POSITIVE OR NEGATIVE RESULT**



**1 WEEK** 

0

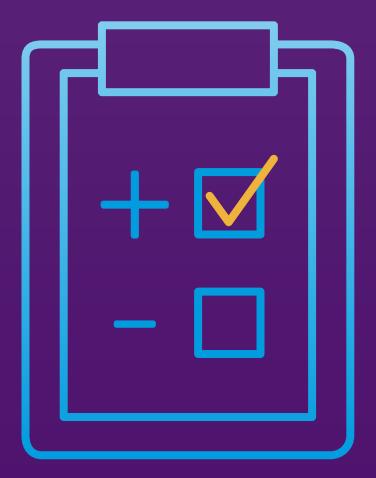


## **IMMUNE RESPONSE** antibody likely (+) viral RNA or antigen likely (-)

## **ANTIBODY**

**3 WEEKS** 

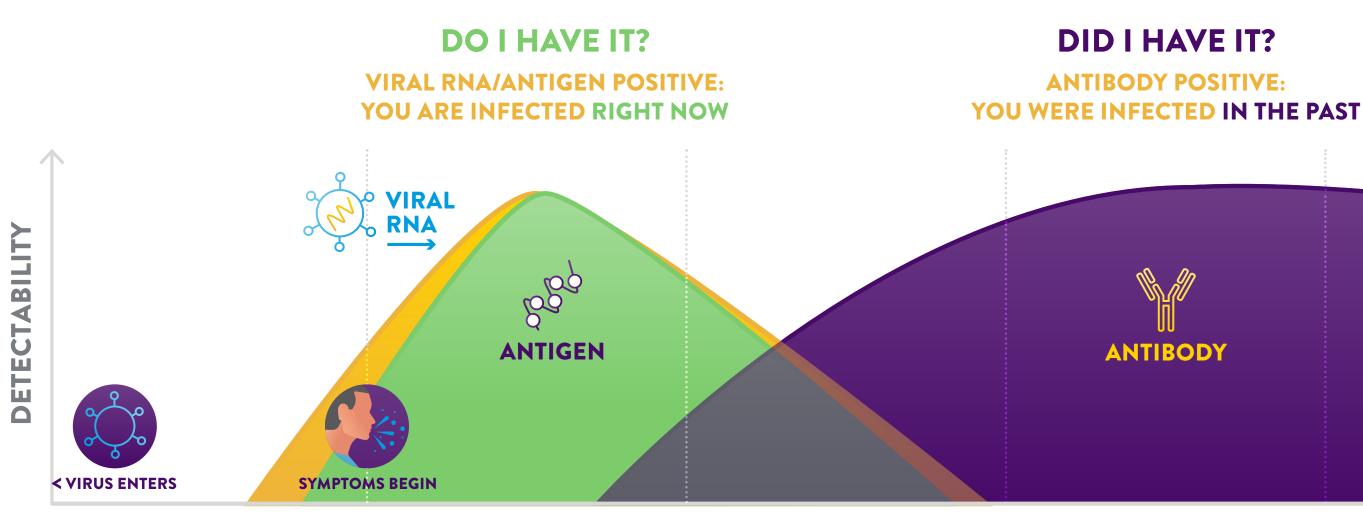




# WHAT DOES A POSITIVE RESULT MEAN?

## POSITIVE TESTS TELL YOU TWO IMPORTANT, **BUT DIFFERENT THINGS**

**1 WEEK** 



**2 WEEKS** 

**3 WEEKS** 

0



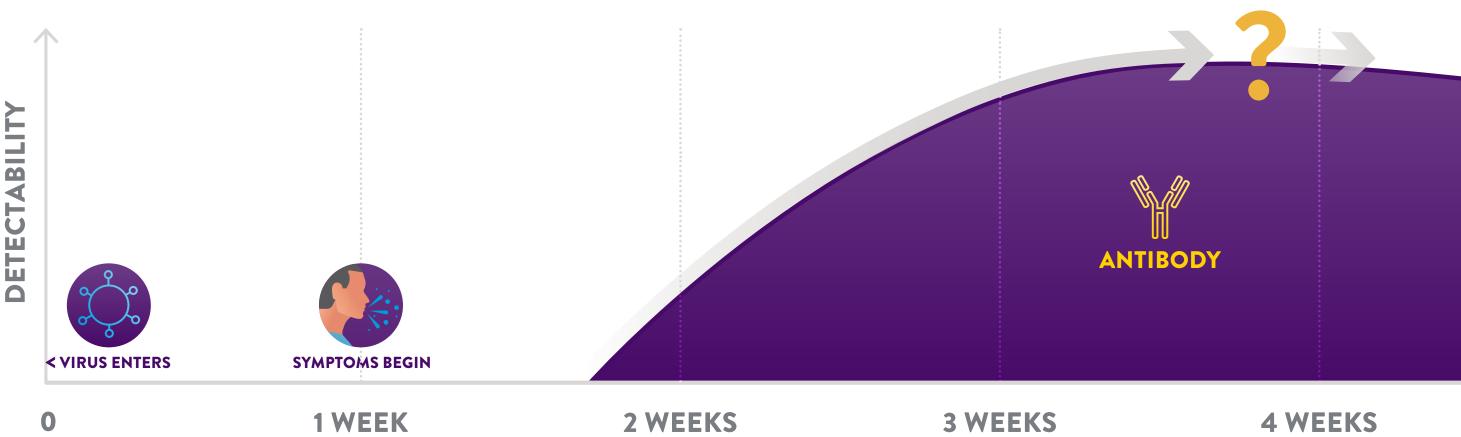


# **IF MY ANTIBODY** TEST IS POSITIVE, **AM I IMMUNE?**



# **AM I IMMUNE?**

At this time, we don't know for sure if having antibodies makes you truly immune. We also don't know how long that immunity might last. As more people get antibody tests, we can learn more about immunity to COVID-19.



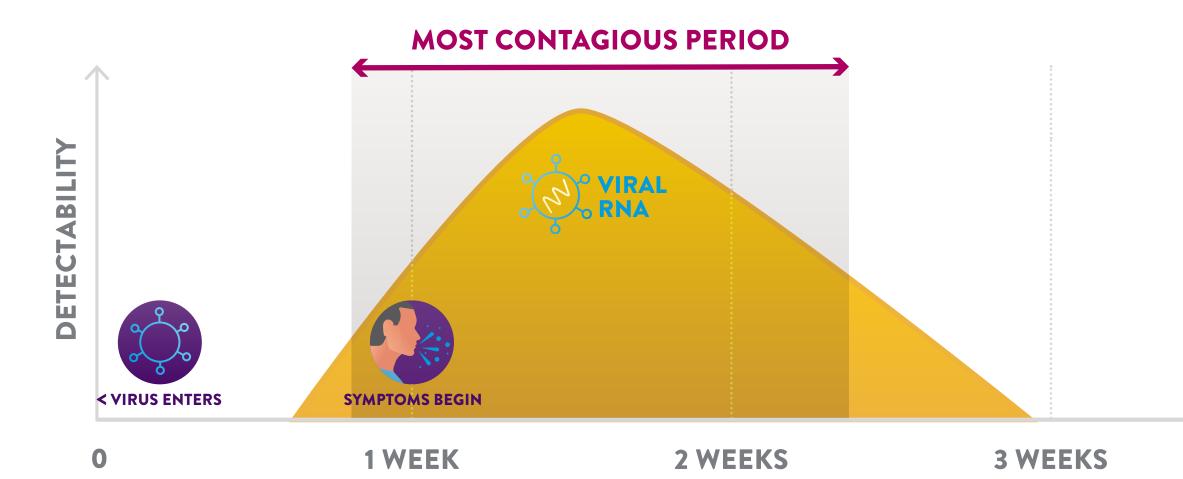


# WHEN AMIMOST **CONTAGIOUS?**

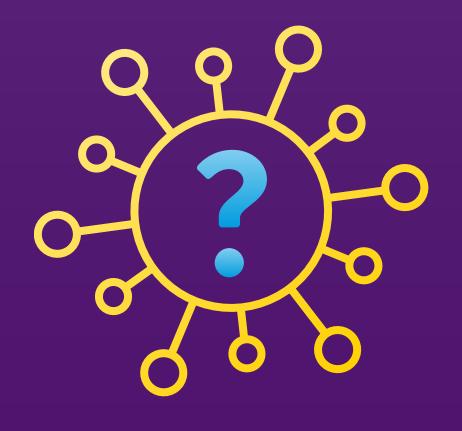


## **CONTAGIOUS PERIOD<sup>2</sup>**

You are most contagious in the infection stage, during the 10 days after your symptoms began. You can also be contagious even if you don't have symptoms. The infection is spread by the virus, not by antibodies or antigens, so you are most contagious when you have large amounts of virus in your body.







**HOW CAN I GET** THE RIGHT TEST AT THE RIGHT TIME **IFIHAVENO SYMPTOMS?** 



# WHAT IF YOU HAVE NO SYMPTOMS?

If you get infected with COVID-19, you may not have any symptoms. So how do you know which test to get? You could have been infected 3 months ago, or yesterday.

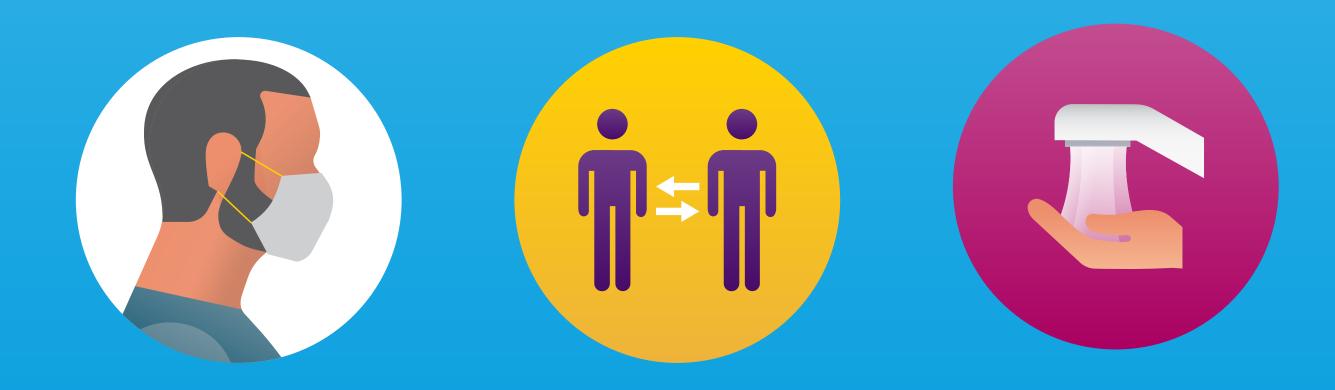
This is one of the most challenging aspects of diagnosing COVID-19, and one reason why some people are getting incorrect test results. They are coming in for a test, but nobody knows where they are in the curves timeline.

As we have learned, it is important to get the right test at the right time, or you could get a misleading result.

IF I'M NOT IN THE CONTAGIOUS PERIOD, OR MY TEST SHOWS THAT I DON'T HAVE COVID-19, **DO I STILL NEED TO WEAR A MASK?** 



Whether your test is positive or negative, and even if you are not in the contagious period, you should still wear a mask, practice social distancing, and wash your hands to help stop the spread of COVID-19.





# WHAT INFORMATION SHOULD **PROVIDE TO TO MY DOCTOR?**



# IMPORTANT **DATES TO TELL YOUR** DOCTOR

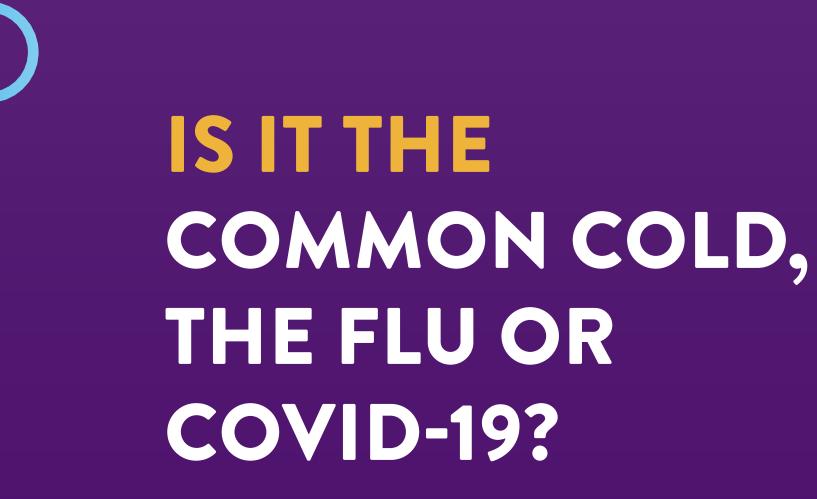


A test is only one part of getting a correct diagnosis. No test is 100% correct all the time, and as we've seen, the timing of the test also matters. Two dates can help your doctor:

**1. THE DAY YOU THINK YOU WERE EXPOSED TO COVID-19** 

2. THE DAY YOU FIRST STARTED **HAVING SYMPTOMS** 

Together with your health history and symptoms, these dates help your doctor know which type of test you need.







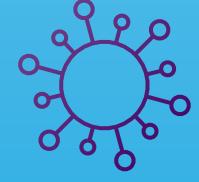


# WHICH DISEASE **DOIHAVE?**

The common cold, the flu and COVID-19 all have similar symptoms, so it's hard to tell which one you have.

The only way to know is to get tested. There are good tests available for influenza-like illnesses that can help determine which disease you have.

If you are feeling sick or have symptoms, visit your doctor right away.



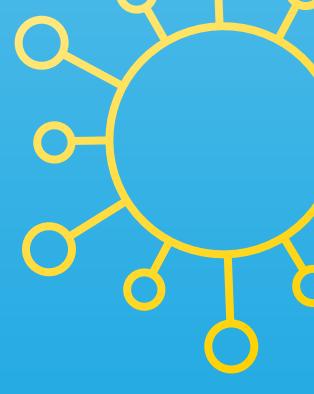
# **#KNOWTHECURVES**

If you found this guide helpful, feel free to share it with family and friends.

Note: The information in this guide is current as of October 2020. As we learn more about COVID-19, some of the information in this guide may need to be updated. Because every patient is different, estimated time intervals, the appearance of symptoms and probability of detection in the curves timeline are approximations. The information in this guide is not specific to any Abbott test. You should not rely on this guide to make diagnosis or treatment decisions. If you are feeling ill, you should visit a doctor.

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1. Centers for Disease Control and Prevention. Interim Clinical Guidance for Management of Patients with Confirmed Coronavirus COVID-19. June 30, 2020. 2. Centers for Disease Control and Prevention. Symptom-Based Strategy to Discontinue Isolation for Persons with COVID-19. Decision Memo. May 3, 2020. 3. Sethuraman N, Jeremiah SS, Ryo A. Interpreting Diagnostic Tests for SARS-CoV-2. JAMA. May 6, 2020. doi:10.1001/jama.2020.8259. 4. Theel ES. The role of antibody testing for SARS-CoV-2: is there one? J Clin Microbiol. July 2020;58:e00797-20. doi:10.1128/JCM.00797-20.

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