

How will I know what bug I have?

Since it's difficult to tell what's causing an infection based on symptoms alone, your healthcare provider can run tests to determine what's causing your illness and the best way to treat it, which may positively impact the following:



Accurate diagnosis



Effective treatment



Faster recovery

Do I need antibiotics?

Antibiotics can only treat certain bacterial infections and are not effective against viruses. Taking unnecessary antibiotics can cause unpleasant side effects and may even lead to antibiotic-resistant germs that are even more difficult to treat.

Taking unnecessary antibiotics can cause unpleasant side effects.

Is it a bacteria or virus?

Respiratory illnesses like the common cold, flu, or even COVID-19 can have similar symptoms—runny nose, coughing, sneezing, congestion, headache, fever, and fatigue. These illnesses require different treatments—depending on whether they're caused by bacteria or viruses.

Common causes of respiratory infections

Viruses

- Adenovirus
- Coronavirus 229E
- Coronavirus HKU1
- Coronavirus NL63
- Coronavirus OC43
- Severe Acute Respiratory Syndrome
- Coronavirus 2 (SARS-CoV-2)
- Human Metapneumovirus
- Human Rhinovirus/Enterovirus
- Influenza A
- Influenza A/H1N1
- Influenza A/H3N2
- Influenza A/H1N1-2009
- Influenza B
- Parainfluenza Virus
- Respiratory Syncytial Virus

Bacteria

- Bordetella pertussis
- Bordetella parapertussis
- Chlamydia pneumoniae
- Mycoplasma pneumoniae

Common conditions

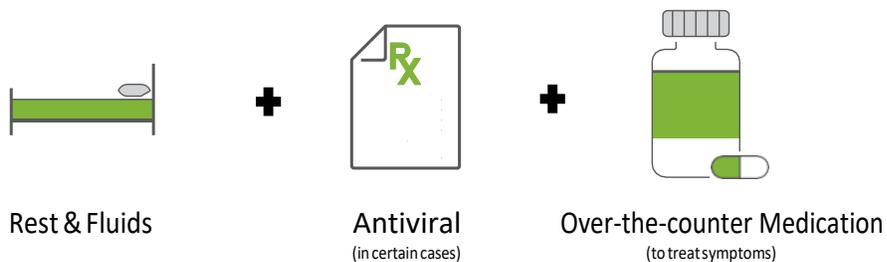
While only a qualified healthcare professional can diagnose your illness, various viruses and bacteria are the likely causes of some of these common conditions.

Condition	Bacteria	Bacteria or virus	Virus	Will antibiotics help?
Strep throat	✓			Yes
Whooping cough	✓			Yes
Sinus infection		✓		Maybe
Ear infection		✓		Maybe
Bronchitis		✓		No
COVID-19			✓	No
Sore throat (except strep)			✓	No
Common cold			✓	No
Flu			✓	No

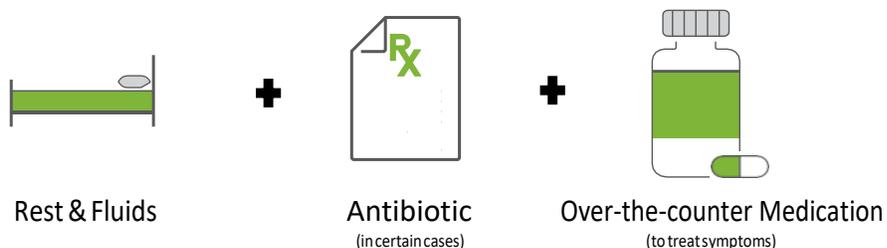
How do I get better?

Your healthcare provider will recommend treatment based on your individual diagnosis. Options may include antibiotics for bacterial infections, antivirals for some viral infections, and over-the-counter medications to manage symptoms.

Treating viral infections



Treating bacterial infections



FACT SHEET FOR PATIENTS

BioFire Diagnostics, LLC

BioFire® Respiratory Panel 2.1-EZ (RP2.1-EZ)

October 2, 2020

Coronavirus
Disease 2019
(COVID-19)

You are being given this Fact Sheet because your sample(s) was tested for the Coronavirus Disease 2019 (COVID-19) using the BioFire Respiratory Panel 2.1-EZ (RP2.1-EZ).

This Fact Sheet contains information to help you understand the risks and benefits of using this test for the diagnosis of COVID-19. After reading this Fact Sheet, if you have questions or would like to discuss the information provided, please talk to your healthcare provider.

For the most up to date information on COVID-19 please visit the CDC Coronavirus Disease 2019 (COVID-19) webpage:

<https://www.cdc.gov/COVID19>

What is COVID-19?

COVID-19 is caused by the SARS-CoV-2 virus which is a new virus in humans causing a contagious respiratory illness. COVID-19 can present with a mild to severe illness, although some people infected with COVID-19 may have no symptoms at all. Older adults and people of any age who have underlying medical conditions have a higher risk of severe illness from COVID-19. Serious outcomes of COVID-19 include hospitalization and death. The SARS-CoV-2 virus can be spread to others not just while one is sick, but even before a person shows signs or symptoms of being sick (e.g., fever, coughing, difficulty breathing, etc.). A full list of symptoms of COVID-19 can be found at the following link: <https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html>.

What is the BioFire RP2.1-EZ?

The test is designed to detect the virus that causes COVID-19 in nasopharyngeal swabs. This test can also detect 15 other common pathogens that cause respiratory infections.

Why was my sample tested?

You were tested because your healthcare provider believes you may have been exposed to the virus that causes COVID-19 based on your signs and symptoms (e.g., fever, cough, difficulty breathing), and/or because:

- You live in or have recently traveled to a place where transmission of COVID-19 is known to occur, and/or
- You have been in close contact with an individual suspected of or confirmed to have COVID-19.

Testing of the samples will help find out if you may have COVID-19.

What are the known and potential risks and benefits of the test?

Potential risks include:

- Possible discomfort or other complications that can happen during sample collection.
- Possible incorrect test result (see below for more information).

Potential benefits include:

- The results, along with other information, can help your healthcare provider make informed recommendations about your care.
- The results of this test may help limit the spread of COVID-19 to your family and those you come in contact with.

What does it mean if I have a positive test result?

If you have a positive test result for SARS-CoV-2, it is very likely that you have COVID-19. Therefore, it is also likely that you may be placed in isolation to avoid spreading the virus to others. You should follow CDC guidance to reduce the potential transmission of disease.

Where can I go for updates and more information? The most up-to-date information on COVID-19 is available at the CDC General webpage: <https://www.cdc.gov/COVID19>. In addition, please also contact your healthcare provider with any questions/concerns.

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There is a smaller possibility that this test can give a positive result that is wrong (a false positive result) particularly when used in a population without many cases of COVID-19 infection. Your healthcare provider will work with you to determine how best to care for you based on the test results along with medical history, and your symptoms.

If you have a positive result for another respiratory pathogen (e.g., Influenza A), your healthcare provider will determine the best way to care for you based on the test results along with other factors in your medical history.

What does it mean if I have a negative test result?

A negative test result for SARS-CoV-2 means that the virus that causes COVID-19 was not found in your sample.

This test can also detect 15 other common pathogens that cause respiratory infections. If you have a negative result for the other 15 pathogens, it means that those pathogens were not found in your sample.

However, it is possible for this test to give a negative result that is incorrect (false negative) in some people with COVID-19. You might test negative if the sample was collected early during your infection. You could also be exposed to COVID-19 after your sample was collected and then have become infected.

This means that you could possibly still have COVID-19 even though the test result is negative. If your test is negative, your healthcare provider will consider the test result together with all other aspects of your medical history (such as symptoms, possible exposures, and geographical location of places you have recently traveled) in deciding how to care for you.

It is important that you work with your healthcare provider to help you understand the next steps you should take.

Is this test FDA-approved or cleared?

No. This test is not yet approved or cleared by the United States FDA. When there are no FDA-approved or cleared tests available, and other criteria are met, FDA can make tests available under an emergency access mechanism called an Emergency Use Authorization (EUA). The EUA for this test is supported by the Secretary of Health and Human Service's (HHS's) declaration that circumstances exist to justify the emergency use of in vitro diagnostics for the detection and/or diagnosis of the virus that causes COVID-19. This EUA will remain in effect (meaning this test can be used) for the duration of the COVID-19 declaration justifying emergency of IVDs, unless it is terminated or revoked by FDA (after which the test may no longer be used).

What are the approved alternatives?

There are no approved available alternative tests. FDA has issued EUAs for other tests that can be found at: <https://www.fda.gov/emergency-preparedness-and-response/mcm-legal-regulatory-and-policy-framework/emergency-use-authorization>.

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