

DEFINITION

- Diagnosis was confirmed by **positive lab test** (e.g., PCR, rapid self-test kit) OR
- **Clinical diagnosis** (suspected diagnosis) was made by doctor (or NP/PA) OR
- **Patient or caregiver suspects COVID-19** based on symptoms consistent with COVID-19 **AND** in the past two weeks had close contact exposure to COVID-19 or is living in an area of high community spread.

Note to Triager:

- Triagers should use their clinical judgment, but generally will want to use the *COVID-19 - Diagnosed or Suspected* protocol when a patient calls with cough, fever, shortness of breath, or a combination of typical COVID symptoms and there is community spread.
- During the 2021-2022 influenza season, triagers can use the *COVID-19 - Diagnosed or Suspected* protocol when a patient calls with flu-like symptoms. Exception: If the patient has flu-like symptoms and lives with someone who has influenza (positive test), the triager should use the *Influenza - Seasonal* protocol.
- In adult patients, the triager should use clinical judgment to decide whether a symptom protocol (e.g., Chest Pain, Fever, Headache) should be used in addition to the *COVID-19 - Diagnosed or Suspected* protocol. Adult patients have multiple factors that make assessment and triage more complex. Adults (and especially older adults) are more likely to have one or more chronic underlying medical conditions. Increased age is also a strong risk factor for severe COVID-19 illness and complications. Further, fever as a marker of important pathology increases significantly with age in adults.
- *Fully vaccinated* means that 2 or more weeks have passed after receiving a one-dose vaccine (e.g., Johnson and Johnson) or the second dose of a two-dose vaccine (e.g., AstraZeneca, Pfizer, Moderna).
- *Up-to-date on vaccination* means the person is fully vaccinated AND got a booster 5 or more months later. A person is also up-to-date if they are fully vaccinated but are not yet eligible for a booster. For people with moderately to severely weak immune systems up-to-date means they received an extra primary shot (third shot) of an mRNA vaccine and a booster.

Updated: January 18, 2022 (version 15)

TRIAGE ASSESSMENT QUESTIONS

Call EMS 911 Now

SEVERE difficulty breathing (e.g., struggling for each breath, speaks in single words)

R/O: respiratory failure, hypoxia. Note: Caller should tell medics about possible COVID-19.

Difficult to awaken or acting confused (e.g., disoriented, slurred speech)

R/O: hypoxia, sepsis. Note: Caller should tell medics about possible COVID-19.

Bluish (or gray) lips or face now

R/O: cyanosis and need for oxygen. Note: Caller should tell medics about possible COVID-19.

Shock suspected (e.g., cold/pale/clammy skin, too weak to stand, low BP, rapid pulse)

R/O: shock. Note: Caller should tell medics about possible COVID-19.

Sounds like a life-threatening emergency to the triager

Note: Caller should tell medics about possible COVID-19.

See More Appropriate Protocol

[1] Diagnosed or suspected COVID-19 AND [2] symptoms lasting 3 or more weeks

Go to Protocol: COVID-19 - Persisting Symptoms Follow-up Call (Adult)

[1] COVID-19 exposure AND [2] no symptoms

Go to Protocol: COVID-19 - Exposure (Adult)

COVID-19 vaccine reaction suspected (e.g., fever, headache, muscle aches) occurring 1 to 3 days after getting vaccine

Go to Protocol: COVID-19 - Vaccine Questions and Reactions (Adult)

COVID-19 vaccine, questions about

Go to Protocol: COVID-19 - Vaccine Questions and Reactions (Adult)

[1] Lives with someone known to have influenza (flu test positive) AND [2] flu-like symptoms (e.g., cough, runny nose, sore throat, SOB; with or without fever)

Go to Protocol: Influenza - Seasonal (Adult). Note: patient is more likely to have flu than COVID-19 if they are living with someone who tested positive for influenza.

[1] Adult with possible COVID-19 symptoms AND [2] triager concerned about severity of symptoms or other causes

Note: First use this protocol. In adult patients triager should then use clinical judgment to decide whether a symptom protocol (e.g., Chest Pain, Fever, Headache) should also be used.

COVID-19 and breastfeeding, questions about

Go to Protocol: COVID-19 - Diagnosed or Suspected (Pediatric)

Go to ED Now

SEVERE or constant chest pain or pressure (Exception: Mild central chest pain, present only when coughing.)

R/O: pneumonia, pleurisy. Note: Consider using both this protocol AND the Chest Pain protocol if any concern for cardiac or other more serious cause of chest pain.

MODERATE difficulty breathing (e.g., speaks in phrases, SOB even at rest, pulse 100-120)

R/O: pneumonia

Headache and stiff neck (can't touch chin to chest)

R/O: meningitis

Oxygen level (e.g., pulse oximetry) 90 percent or lower

R/O: hypoxia, infection. Note: Triager should use clinical judgment based on overall patient assessment, and not rely solely on pulse oximetry readings.

Go to ED/UCC Now (or to Office with PCP Approval)

Chest pain or pressure

R/O: pneumonia, pleurisy, chest discomfort from COVID-19

Patient sounds very sick or weak to the triager

Reason: Severe acute illness or serious complication suspected.

Discuss With PCP and Callback by Nurse within 1 Hour

MILD difficulty breathing (e.g., minimal/no SOB at rest, SOB with walking, pulse <100)

R/O: pneumonia. Note: not from stuffy nose (e.g., not relieved by cleaning out the nose)

Fever > 103° F (39.4° C)

R/O: serious bacterial infection.

[1] Fever > 101° F (38.3° C) AND [2] over 60 years of age

R/O: pneumonia

[1] Fever > 100.0° F (37.8° C) AND [2] bedridden (e.g., nursing home patient, CVA, chronic illness, recovering from surgery)

R/O: pneumonia

HIGH RISK for severe COVID complications (e.g., weak immune system, age > 64 years, obesity with BMI > 25, pregnant, chronic lung disease or other chronic medical condition) (Exception: Already seen by PCP and no new or worsening symptoms.)

Reason: See HIGH RISK criteria in Background. Monoclonal antibody therapy or COVID-19 specific antivirals may be indicated. Testing for both COVID-19 and influenza may be needed.

[1] HIGH RISK patient AND [2] influenza is widespread in the community AND [3] ONE OR MORE respiratory symptoms: cough, sore throat, runny or stuffy nose

Reason: During an influenza outbreak, treatment with anti-viral influenza medication should be considered for HIGH RISK patients, especially for symptoms present < 48 hours. PCP may wish to phone in a prescription to the pharmacy. Testing for both COVID-19 and influenza may be needed.

[1] HIGH RISK patient AND [2] influenza exposure within the last 7 days AND [3] ONE OR MORE respiratory symptoms: cough, sore throat, runny or stuffy nose

Reason: During an influenza outbreak, treatment with anti-viral influenza medication should be considered for HIGH RISK patients, especially for symptoms present < 48 hours. PCP may wish to phone in a prescription to the pharmacy. Testing for both COVID-19 and influenza may be needed.

Oxygen level (e.g., pulse oximetry) 91 to 94 percent

Note: Triager should use clinical judgment based on overall patient assessment and not rely solely on pulse oximetry readings.

Discuss With PCP and Callback by Nurse Today

[1] COVID-19 infection suspected by caller or triager AND [2] mild symptoms (cough, fever, or others) AND [3] negative COVID-19 rapid test

Reason: Possible false negative test. PCP may want to order a PCR, which is more accurate.

Fever present > 3 days (72 hours)

R/O: bacterial sinusitis, bronchitis, pneumonia

[1] Fever returns after gone for over 24 hours AND [2] symptoms worse or not improved

R/O: bacterial sinusitis, bronchitis, pneumonia

[1] Continuous (nonstop) coughing interferes with work or school AND [2] no improvement using cough treatment per Care Advice

Cough present > 3 weeks

Home Care

[1] COVID-19 diagnosed by positive lab test (e.g., PCR, rapid self-test kit) AND [2] NO symptoms (e.g., cough, fever, others)

Reason: Positive recent COVID-19 test confirms diagnosis and patient is asymptomatic.

[1] COVID-19 diagnosed by positive lab test (e.g., PCR, rapid self-test kit) AND [2] mild symptoms (e.g., cough, fever, others) AND [3] no complications or SOB

Reason: Positive recent COVID-19 test confirms diagnosis and patient has mild consistent symptoms.

[1] COVID-19 diagnosed by doctor (or NP/PA) AND [2] mild symptoms (e.g., cough, fever, others) AND [3] no complications or SOB

[1] COVID-19 diagnosed AND [2] has mild nausea, vomiting or diarrhea

Note: If symptoms are more than mild, consider using an additional protocol (e.g., Diarrhea or Vomiting protocols). Mild diarrhea is defined as 1 to 3 episodes per day. Mild vomiting is defined as 1 to 2 episodes per day.

[1] COVID-19 infection suspected by caller or triager AND [2] mild symptoms (cough, fever, or others) AND [3] has not gotten tested yet

Reason: No complications or SOB. COVID-19 testing is recommended (e.g., viral test with nasal swab). Home test kits for COVID-19 are available. Patient can also get tested for COVID-19 by their doctor (or NP/PA), retail clinic, urgent care center, or other clinic.

COVID-19 Home Isolation, questions about

Note: How to protect others when you are sick.

COVID-19 Testing, questions about

COVID-19 Prevention and Healthy Living, questions about

Note: How to protect you and your family; how to reduce anxiety and stress.

COVID-19 Disease, questions about

Note: General information including symptoms, how it is spread, travel, etc.

HOME CARE ADVICE

Treating the Symptoms of COVID-19

- 1. Reassurance and Education - Diagnosed With COVID-19 by Doctor (or NP/PA) and Mild Symptoms:**
 - Your doctor has diagnosed you as having COVID-19 based on your symptoms and COVID-19 testing.
 - If you have not been tested yet for COVID-19, we recommend that you get tested in the next 3 days.
 - For some people, the symptoms of COVID-19 can be mild, especially if you are healthy and under 65 years old.
 - *Here's some care advice to help you and to help prevent others from getting sick.*
- 2. Reassurance and Education - Positive COVID-19 Lab Test and Mild Symptoms:**
 - You had a recent lab test for COVID-19 and it came back positive.
 - A positive result on a PCR or rapid self-test kit is highly accurate for diagnosing COVID-19. It is

highly likely that you have COVID-19.

- From what you have told me, your symptoms are mild. That is reassuring.
- *Here's some care advice to help you and to help prevent others from getting sick.*

3. **Reassurance and Education - Suspected COVID-19 and Negative Rapid COVID-19 Test:**

- Positive rapid test results are accurate and can be trusted. Negative rapid test results are usually accurate, but can sometimes be wrong.
- An error is more likely with tests performed at home. Rapid tests performed at a test site are usually more accurate.
- Your doctor (or NP/PA) can help you decide if a different test (such as PCR test) is needed. Talk with your doctor about your symptoms. Another option is for you to **repeat the rapid test (self-test) at home.**
- *Here's some care advice to help you and to help prevent others from getting sick.*

4. **Reassurance and Education - Suspected COVID-19 and Testing Needed:**

- Most people who get COVID-19 will have mild illness and can recover at home without medical care.
- You should get tested for COVID-19.
- *Here's some care advice to help you and to help prevent others from getting sick.*

5. **General Care Advice for COVID-19 Symptoms:**

- The symptoms are generally treated the same whether you have COVID-19, influenza or some other respiratory virus.
- *Cough:* Use cough drops.
- *Feeling dehydrated:* Drink extra liquids. If the air in your home is dry, use a humidifier.
- *Fever:* For fever over 101 F (38.3 C), take acetaminophen every 4 to 6 hours (Adults 650 mg) OR ibuprofen every 6 to 8 hours (Adults 400 mg). Before taking any medicine, read all the instructions on the package. Do not take aspirin unless your doctor has prescribed it for you.
- *Muscle aches, headache, and other pains:* Often this comes and goes with the fever. Take acetaminophen every 4 to 6 hours (Adults 650 mg) OR ibuprofen every 6 to 8 hours (Adults 400 mg). Before taking any medicine, read all the instructions on the package.
- *Sore throat:* Try throat lozenges, hard candy or warm chicken broth.

6. **Cough Medicines:**

- **Cough Drops:** Over-the-counter cough drops can help a lot, especially for mild coughs. They soothe an irritated throat and remove the tickle sensation in the back of the throat. Cough drops are easy to carry with you.
- **Cough Syrup with Dextromethorphan:** An over-the-counter cough syrup can help your cough. The most common cough suppressant in over-the-counter cough medicines is dextromethorphan.
- **Home Remedy - Hard Candy:** Hard candy works just as well as over-the-counter cough drops. People who have diabetes should use sugar-free candy.
- **Home Remedy - Honey:** This old home remedy has been shown to help decrease coughing at night. The adult dosage is 2 teaspoons (10 ml) at bedtime.

7. **Cough Syrup With Dextromethorphan:**

- Cough syrups containing the cough suppressant dextromethorphan may help decrease your cough.
- Cough syrup works best for coughs that keep you awake at night. It can also sometimes help in the late stages of a lung or airway infection when the cough is dry and hacking. Cough syrup can be used along with cough drops.
- *Examples:* Delsym 12-hour Cough, Robitussin Cough Long-Acting, Triaminic Long-Acting, Vicks DayQuil Cough.

8. **Cough Syrup With Dextromethorphan - Extra Notes and Warnings:**
 - Do not try to completely stop coughs that produce mucus and phlegm.
 - Coughing is helpful. It brings up the mucus from the lungs and helps prevent pneumonia.
 - **Research:** Some research studies show that dextromethorphan reduces the frequency and severity of cough in those 18 years and older without significant adverse effects. Other studies suggest that dextromethorphan is no better than placebo at reducing a cough.
 - **Drug Abuse:** It should be noted that dextromethorphan has become a drug of abuse. This problem is seen most often in teenagers. Overdose symptoms can range from giggling and feeling high to hallucinations and coma.
 - **Warning:** Do not take dextromethorphan if you are taking a monoamine oxidase (MAO) inhibitor now or in the past 2 weeks. Examples of MAO inhibitors include isocarboxazid (Marplan), phenelzine (Nardil), selegiline (Eldepryl, Emsam, Zelapar), and tranylcypromine (Parnate).
 - **Warning:** Do not take dextromethorphan if you are taking venlafaxine (Effexor).
 - *Before taking any medicine, read all the instructions on the package.*
9. **Use a Humidifier:**
 - If the air in your home is dry, use a cool-mist humidifier.
 - *Reason:* dry air makes coughs worse.
10. **Coughing Spells:**
 - Drink warm fluids. Inhale warm mist. This can help relax the airway and also loosen up phlegm.
 - Suck on cough drops or hard candy to coat the irritated throat.
11. **Pain and Fever Medicines:**
 - For pain or fever relief, take either acetaminophen or ibuprofen.
 - They are over-the-counter (OTC) drugs that help treat both fever and pain. You can buy them at the drugstore.
 - Treat fevers above 101° F (38.3° C). The goal of fever therapy is to bring the fever down to a comfortable level. Remember that fever medicine usually lowers fever 2 degrees F (1 - 1 1/2 degrees C).
 - **Acetaminophen Regular Strength Tylenol:** Take 650 mg (two 325 mg pills) by mouth every 4 to 6 hours as needed. Each Regular Strength Tylenol pill has 325 mg of acetaminophen. The most you should take each day is 3,250 mg (10 pills a day).
 - **Acetaminophen - Extra Strength Tylenol:** Take 1,000 mg (two 500 mg pills) every 8 hours as needed. Each Extra Strength Tylenol pill has 500 mg of acetaminophen. The most you should take each day is 3,000 mg (6 pills a day).
 - **Ibuprofen (e.g., Motrin, Advil):** Take 400 mg (two 200 mg pills) by mouth every 6 hours. The most you should take each day is 1,200 mg (six 200 mg pills), unless your doctor has told you to take more.
12. **Pain and Fever Medicines - Extra Notes and Warnings:**
 - Use the lowest amount of medicine that makes your pain or fever better.
 - Acetaminophen is thought to be safer than ibuprofen or naproxen in people over 65 years old. Acetaminophen is in many OTC and prescription medicines. It might be in more than one medicine that you are taking. You need to be careful and not take an overdose. An acetaminophen overdose can hurt the liver.
 - McNeil, the company that makes Tylenol, has different dosage instructions for Tylenol in Canada and the United States. In Canada, the maximum recommended dose per day is 4,000 mg or twelve Regular-Strength (325 mg) pills. In the United States, McNeil recommends a maximum dose of ten Regular-Strength (325 mg) pills.
 - **Caution:** Do not take acetaminophen if you have liver disease.

- **Caution:** Do not take ibuprofen if you have stomach problems, kidney disease, are pregnant, or have been told by your doctor to avoid this type of anti-inflammatory drug. Do not take ibuprofen for more than 7 days without consulting your doctor.
 - *Before taking any medicine, read all the instructions on the package.*
13. **Mild Stomach and Intestinal Symptoms During COVID-19 Illness:**
- **Mild Nausea or Vomiting:** Sip small amounts (1 tablespoon or 15 ml) of water or half-strength sports drink every 5 minutes for 8 hours. After 4 hours with no vomiting, slowly increase the amount. After no vomiting for 8 hours, slowly add in bland foods - saltine crackers, white bread, rice, mashed potatoes.
 - **Mild Diarrhea:** Drink clear fluids like water, half-strength strength sports drink or oral rehydration liquid (e.g., Pedialyte). Slowly start bland foods like saltine crackers, white bread, mashed potatoes, noodles, bananas, yogurt, or soup. Slowly return to a normal diet.
 - **Check Your Urine:** it should be light yellow to clear if you are getting enough fluids.
14. **FAQ - Do I Need Special Medicines to Treat COVID-19?**
- For healthy people with **mild symptoms**, prescription medicines are usually not needed. People can treat the symptoms at home using over-the-counter medicines for fever, pain, and cough.
 - People with **mild to moderate symptoms and who are at high risk** for severe COVID-19 may sometimes need special prescription medicines as outpatients. There are monoclonal antibodies (e.g., bamlanivimab, casirivimab-imdevimab, sotrovimab) and antiviral medicines (e.g., nirmatrelvir-ritonavir / Paxlovid, molnupiravir).
 - People with **severe COVID-19** will need emergency department treatment and hospitalization. Treatment of hospitalized patients may include oxygen, steroids, antiviral medicine (e.g., remdesivir), and immune system medicines (e.g., baricitinib, tocilizumab).
 - Risk factors for severe COVID-19 complications include a weak immune system, 65 years and older, obesity, pregnant, chronic lung disease, and other chronic medical conditions.
 - This is a complex and changing area of information.
 - Talk with your doctor (or NP/PA) if you have questions.
15. **FAQ - Is Ivermectin Approved for COVID-19?**
- **No.** Ivermectin is not an approved drug for treating or preventing COVID-19.
 - Ivermectin is a drug used to treat parasites and lice.
 - Although some people are interested in ivermectin to treat COVID-19, it has NOT been shown to treat or prevent COVID-19.
 - Some people have gotten ivermectin on their own through the internet or animal care suppliers.
 - People have been hospitalized for toxic effects from taking ivermectin on their own (sometimes taking large overdoses).
 - *Do not get or take ivermectin without a prescription from your doctor. NEVER take medicines made for animals.*
16. **FAQ - Can I Take Ibuprofen (Advil, Motrin) if I Have COVID-19?**
- Yes.
 - The CDC, WHO, and other experts continue to support the use of ibuprofen (if needed) for patients with COVID-19. They found no scientific evidence that ibuprofen made COVID-19 worse.
17. **Call Back If:**
- Fever over 103° F (39.4° C)
 - Fever lasts over 3 days
 - Fever returns after being gone for 24 hours

- Chest pain or difficulty breathing occurs
- You become worse

COVID-19 General Information

1. **COVID-19 (Coronavirus Disease 2019) - Pandemic:**
 - An outbreak of this infection began in China in December 2019.
 - The first patient in the United States occurred on January 21, 2020.
 - Four patients were confirmed in Canada on January 31, 2020.
 - The *World Health Organization* (WHO) declared COVID-19 a global public health emergency on January 30, 2020 and then a pandemic on March 11, 2020.
 - In the Summer and Fall of 2021 the **Delta variant** was the most common COVID-19 variant. In the Winter of 2021-2022 the **Omicron variant** became the most common variant.
 - The *Centers for Disease Control and Prevention* (CDC) is considered the source of truth for this guideline. This continues to be a rapidly changing situation and guidance from the CDC is being updated frequently. See <https://www.cdc.gov/coronavirus/2019-nCoV/index.html>.
2. **COVID-19 - Symptoms:**
 - COVID-19 most often causes a respiratory illness.
 - *The most common symptoms are:* cough, fever, and shortness of breath.
 - *Other less common symptoms are:* chills, fatigue, headache, loss of smell or taste, muscle pain, and sore throat.
 - Some people may have minimal symptoms or even have no symptoms (asymptomatic).
3. **COVID-19 - Exposure Risk Factors:**
 - *Here are the main risk factors for getting sick with COVID-19.*
 - **Close contact with a person** who tested positive for COVID-19 AND contact occurred while they were ill. Close contact means being within 6 feet (2 meters) for a total of 15 minutes or more in a 24-hour period. This includes living with someone infected with COVID-19.
 - Living in or travel to an area where there is **high community spread** of COVID-19.
 - **International travel:** The CDC (<https://www.cdc.gov/coronavirus/2019-ncov/travelers>) has the most up-to-date list of where COVID-19 outbreaks are occurring.
 - **Not being up-to-date on COVID-19 vaccinations.**
4. **COVID-19 - How It Is Spread:**
 - *COVID-19 is spread from person to person.*
 - **Respiratory Droplets:** The virus spreads from respiratory droplets that are produced when a person coughs, sneezes, shouts, or sings. The infected droplets can then be inhaled by a nearby person or land on the surface of their face or eyes. Droplets fall quickly to the floor or ground. This is **how most COVID is spread**.
 - **Surfaces:** Most infected people also have respiratory secretions on their hands. These secretions get transferred to healthy people on doorknobs, faucet handles, etc. The virus then gets transferred to healthy people when they touch their face or rub their eyes. This is a **less common cause** of spread.
 - **Aerosols:** Aerosols are tiny, invisible particles that can float in the air for 1 to 2 hours and travel more than 6 feet (2 meters). They occur in a closed room with poor ventilation. Aerosols are a **rare cause** of COVID-19 spread.
5. **COVID-19 - How to Protect Your Family and Yourself From Getting Sick:**
 - **Get the COVID-19 vaccine.** It is your best protection against this serious infection.
 - Avoid close contact with people known to have COVID-19.
 - Avoid closed spaces (indoors) when possible and all crowds (even outdoors).
 - Limit close contact with people outside your family unit.

- Try to stay at least 6 feet (2 meters) away from anyone who is coughing.
 - Wash hands often with soap and water.
 - Alcohol-based hand cleaners are also effective.
 - Avoid touching the eyes, nose or mouth. Germs on the hands can spread this way.
 - Do not share eating utensils (e.g., spoon, fork).
6. **COVID-19 - How to Protect Others - When You Are Sick With COVID-19:**
- **Stay Home a Minimum of 5 Days:** Home isolation is needed for at least 5 days after the symptoms started. Stay home from school or work if you are sick. Do **Not** go to religious services, child care centers, shopping, or other public places. Do **Not** use public transportation (e.g., bus, taxis, ride-sharing). Do **Not** allow any visitors to your home. Leave the house only if you need to seek urgent medical care.
 - **Wear a Mask for 10 Days:** Wear a well-fitted mask for 10 full days any time you are around others inside your home or in public. Do not go to places where you are unable to wear a mask.
 - **Wash Hands Often:** Wash hands often with soap and water. After coughing or sneezing are important times. If soap and water are not available, use an alcohol-based hand sanitizer with at least 60% alcohol, covering all surfaces of your hands and rubbing them together until they feel dry. Avoid touching your eyes, nose, and mouth with unwashed hands.
 - **Call Ahead if Medical Care Is Needed:** If you have a medical appointment, call your doctor's office and tell them you have or may have COVID-19. This will help the office protect themselves and other patients. They will give you directions.
7. **COVID-19 - How to Protect Others - When You Test Positive for COVID but Have No Symptoms:**
- **Stay Home a Minimum of 5 Days:** Home isolation is needed for at least 5 days after the date of the positive test. Stay home from school or work if you are sick. Do **Not** go to religious services, child care centers, shopping, or other public places. Do **Not** use public transportation (e.g., bus, taxis, ride-sharing). Do **Not** allow any visitors to your home. Leave the house only if you need to seek urgent medical care.
 - **Wear a Mask for 10 Days:** Wear a well-fitted mask for 10 full days any time you are around others inside your home or in public. Do not go to places where you are unable to wear a mask.
 - **Wash Hands Often:** Wash hands often with soap and water. After coughing or sneezing are important times. If soap and water are not available, use an alcohol-based hand sanitizer with at least 60% alcohol, covering all surfaces of your hands and rubbing them together until they feel dry. Avoid touching your eyes, nose, and mouth with unwashed hands.
 - **Call Ahead if Medical Care Is Needed:** If you have a medical appointment, call your doctor's office and tell them you have COVID-19. This will help the office protect themselves and other patients. They will give you directions.
8. **COVID-19 - Travel Guidelines:**
- The Centers for Disease Control and Prevention (CDC) maintains a website with the latest recommendations regarding travel and your health.
 - Currently the CDC recommends against travel to many geographic areas with widespread and ongoing spread of COVID-19. See current list at <https://wwwnc.cdc.gov/travel/>.
 - *CDC Travel Health Website:* <https://wwwnc.cdc.gov/travel/>.
 - *CDC Travel FAQs:* <https://www.cdc.gov/coronavirus/2019-ncov/travelers/faqs.html>.
9. **COVID-19 - What Types of Tests Are Available?**
- There are two types of tests available for COVID-19: viral tests and antibody tests.
 - **Test for Current Infection - Viral Test:** A viral test tells you if you have the COVID-19 infection right now. A viral test is done with either a nasal swab or a saliva sample. **Symptomatic patients** should get a test within 3 days. Asymptomatic people with a close contact COVID-19 **exposure** should get tested 5 to 7 days after exposure.

- **Test for Past Infection - Antibody Test:** An antibody test tells you if you have had COVID-19 before. Sometimes an antibody test may turn positive after a person has been vaccinated against COVID-19. This test is done with a blood sample. An antibody test may not be able to show if you have a current infection, because it can take 1 to 3 weeks for your body to make antibodies to the infection. We do not know yet if having antibodies to the virus can protect someone from getting infected with the virus again, or how long that protection might last. If an antibody test is needed, it is usually performed 2 to 3 weeks after the start of the infection.
- Some test results come back right away or within hours. Some tests may take longer (1 to 3 days) depending on the type of test.

10. **COVID-19 - Face Masks for Prevention:**

- Face masks are important for reducing the spread of COVID-19. They also reduce the spread of influenza (flu). People with COVID-19 can have no symptoms, but still spread the virus.
- Because of the Omicron variant (and other possible future variants) recommendations for wearing masks are pretty much the same for people who are vaccinated or unvaccinated. Mask wearing is even more important if you are in an area of high COVID-19 spread or if you have a weak immune system.
- **People Who Are Well (Not Sick With COVID-19) Should Wear Masks If:**
 - ... You are in an indoor public space (such as a church or a grocery store).
 - ... You are in a crowded outdoor setting (e.g., concert, music festival, rally).
 - ... You are traveling on a plane, bus, train, or other form of public transportation or in transportation hubs such as airports and stations.
 - ... You must be around someone who has symptoms of COVID-19 or has tested positive for COVID-19.
- **People Who Are Sick With COVID-19 Should Wear Masks If:**
 - ... You are around other people or animals (such as pets).
- **Exceptions:**
 - ... Face mask or covering is optional if outdoors and you can avoid being within 6 feet (2 meters) of other people. Some examples are an outdoor walk or run.
 - ... Face coverings also are not recommended for children under 2 years.
- **How to Select and Use a Face Mask:** Make sure your mask fits well (without gaps) and fully covers your nose and mouth. More information on how to select and use a mask is available at: <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/types-of-masks.html>.

11. **COVID-19 - Going to the ED or Urgent Care Center During the COVID-19 Pandemic:**

- If you or your child needs to be seen for an urgent medical problem, do not hesitate to go.
- Emergency Departments and urgent care centers are safe places. They are well equipped to protect you against the virus.
- For non-urgent conditions, talk to your doctor (or NP/PA) first.

12. **COVID-19 - Some Other Facts:**

- **Incubation Period:** Average 5 days (range 2 to 14 days) after coming in contact with a person who has COVID-19 virus.
- **No Symptoms, but Infected (Asymptomatic):** Approximately 30% of infected patients may have no symptoms.
- **Mild Infections:** About 80% of those with symptoms have a mild illness, much like a normal flu or a bad cold. The symptoms usually last 2 weeks.
- **Severe Infections:** About 20% of those with symptoms develop trouble breathing from viral pneumonia. Many of these need to be admitted to the hospital. People with complications generally recover in 3 to 6 weeks. Severe infections are much less common in people who are vaccinated.
- **Death Rate:** The adult death rate is approximately 1% to 3%. The death rate is lower in children and younger adults. It is higher in older adults. The risk of death is much lower in people

who are vaccinated.

- **Prevention - Vaccine:** Several vaccines have been approved and released for use in the United States and Canada. The COVID-19 vaccine and booster will reduce the chance of you getting COVID-19. If you get COVID-19, the COVID-19 vaccine will decrease the chance of you becoming severely sick or needing to be hospitalized.

- **Prevention - Medicine:** The malaria drug chloroquine was studied and found not to be helpful for this disease. It also had cardiac side effects. There are monoclonal antibody treatments (e.g., REGEN-COV / casirivimab-imdevimab) for outpatients at risk for severe COVID-19. Remember, social distancing and wearing masks have been proven to help prevent COVID-19!

13. **FAQ - What Is the Difference Between a Booster and Third Vaccine Dose?**

- **Booster:** Vaccine protection can decrease over time. **Everyone** 12 years and older should get a booster shot (vaccination). Booster shots are especially important for groups at higher risk.

- ... *Booster, previous Pfizer or Moderna vaccine:* Get the booster at least 5 months after their second shot.

- ... *Booster, previous Johnson & Johnson vaccine:* Get the booster at least 2 months after the first shot.

- **Third Vaccine Dose:** People with moderately-severely **weak immune systems** are at higher risk of severe COVID-19 infection. These people may not build up good immunity with just 2 shots. It is recommended that they receive a third dose of an mRNA vaccine (Moderna, Pfizer) at least 28 days after the second shot.

- For U.S. information and the most up-to-date criteria, see the CDC website at <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/booster-shot.html>. In Canada see <https://www.canada.ca/en/public-health/services/diseases/coronavirus-disease-covid-19/vaccines.html>.

14. **FAQ - What Masks Are Best to Protect Against COVID-19?**

- There are many types of face masks. Some provide more protection against COVID-19 than others.

- However, it is important to remember **any face mask is better than no face mask**. Also, any mask you use should fit well (snuggly against the face with no gaps) and should be clean and dry.

- ... **Cloth masks** made with several layers of finely woven fabric provide good protection. A single fabric layer is not enough.

- ... Disposable **surgical masks** (procedure masks) and **KN95 masks** provide better protection than cloth masks.

- ... NIOSH-approved **N95 masks** (respirator masks) provide the best protection. These are most often used by healthcare workers.

- The CDC recommends that "you wear the most protective mask you can that fits well and that you will wear consistently."

- You can find more information on the CDC website: <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/types-of-masks.html>.

15. **FAQ - Do I Need Special Medicines to Treat COVID-19?**

- For healthy people with **mild symptoms**, prescription medicines are usually not needed. People can treat the symptoms at home using over-the-counter medicines for fever, pain, and cough.

- People with **mild to moderate symptoms and who are at high risk** for severe COVID-19 may sometimes need special prescription medicines as outpatients. There are monoclonal antibodies (e.g., bamlanivimab, casirivimab-imdevimab, sotrovimab) and antiviral medicines (e.g., nirmatrelvir-ritonavir / Paxlovid, molnupiravir).

- People with **severe COVID-19** will need emergency department treatment and hospitalization. Treatment of hospitalized patients may include oxygen, steroids, antiviral medicine (e.g., remdesivir), and immune system medicines (e.g., baricitinib, tocilizumab).

- Risk factors for severe COVID-19 complications include a weak immune system, 65 years and older, obesity, pregnant, chronic lung disease, and other chronic medical conditions.
- This is a complex and changing area of information.
- Talk with your doctor (or NP/PA) if you have questions.

16. **FAQ - Is Ivermectin Approved for COVID-19?**

- **No.** Ivermectin is not an approved drug for treating or preventing COVID-19.
- Ivermectin is a drug used to treat parasites and lice.
- Although some people are interested in ivermectin to treat COVID-19, it has NOT been shown to treat or prevent COVID-19.
- Some people have gotten ivermectin on their own through the internet or animal care suppliers.
- People have been hospitalized for toxic effects from taking ivermectin on their own (sometimes taking large overdoses).
- *Do not get or take ivermectin without a prescription from your doctor.* NEVER take medicines made for animals.

17. **Call Back If:**

- You have more questions

COVID-19 Home Isolation and Protecting Others

1. **COVID-19 - How to Protect Others - When You Are Sick With COVID-19:**

- **Stay Home a Minimum of 5 Days:** Home isolation is needed for at least 5 days after the symptoms started. Stay home from school or work if you are sick. Do **Not** go to religious services, child care centers, shopping, or other public places. Do **Not** use public transportation (e.g., bus, taxis, ride-sharing). Do **Not** allow any visitors to your home. Leave the house only if you need to seek urgent medical care.
- **Wear a Mask for 10 Days:** Wear a well-fitted mask for 10 full days any time you are around others inside your home or in public. Do not go to places where you are unable to wear a mask.
- **Wash Hands Often:** Wash hands often with soap and water. After coughing or sneezing are important times. If soap and water are not available, use an alcohol-based hand sanitizer with at least 60% alcohol, covering all surfaces of your hands and rubbing them together until they feel dry. Avoid touching your eyes, nose, and mouth with unwashed hands.
- **Call Ahead if Medical Care Is Needed:** If you have a medical appointment, call your doctor's office and tell them you have or may have COVID-19. This will help the office protect themselves and other patients. They will give you directions.

2. **COVID-19 - How to Protect Others - When You Test Positive for COVID but Have No Symptoms:**

- **Stay Home a Minimum of 5 Days:** Home isolation is needed for at least 5 days after the date of the positive test. Stay home from school or work if you are sick. Do **Not** go to religious services, child care centers, shopping, or other public places. Do **Not** use public transportation (e.g., bus, taxis, ride-sharing). Do **Not** allow any visitors to your home. Leave the house only if you need to seek urgent medical care.
- **Wear a Mask for 10 Days:** Wear a well-fitted mask for 10 full days any time you are around others inside your home or in public. Do not go to places where you are unable to wear a mask.
- **Wash Hands Often:** Wash hands often with soap and water. After coughing or sneezing are important times. If soap and water are not available, use an alcohol-based hand sanitizer with at least 60% alcohol, covering all surfaces of your hands and rubbing them together until they feel dry. Avoid touching your eyes, nose, and mouth with unwashed hands.
- **Call Ahead if Medical Care Is Needed:** If you have a medical appointment, call your doctor's office and tell them you have COVID-19. This will help the office protect themselves and other patients. They will give you directions.

3. **Clean Your Hands Often:**
 - **Wash Hands:** Wash your hands often with soap and water for at least 20 seconds. This is especially important after blowing your nose, coughing, or sneezing; going to the bathroom; and before eating or preparing food.
 - **Use Hand Sanitizer:** If soap and water are not available, use an alcohol-based hand sanitizer with at least 60% alcohol, covering all surfaces of your hands and rubbing them together until they feel dry.
 - Avoid touching your eyes, nose, and mouth with unwashed hands.
4. **Clean "High Touch" Surfaces Every Day:**
 - Clean high-touch surfaces in your isolation area ("sick room" and bathroom) every day.
 - High-touch surfaces include phones, remote controls, counters, tabletops, doorknobs, bathroom fixtures, toilets, keyboards, tablets, and bedside tables.
5. **Stay Away From Others in Your Home:**
 - If possible, stay in a specific "sick room" and away from other people in your home.
 - Use a separate bathroom, if available.
6. **Call Ahead Before Visiting Your Doctor (or NP/PA):**
 - *Call ahead:* If you have a medical appointment, call your doctor's office and tell them you have or may have COVID-19.
 - This will help the office protect themselves and other patients.
 - Wear a facemask.
7. **FAQ - When Can I Stop Home Isolation If I Test Positive for COVID-19 but Have No Symptoms?**
 - You can **stop home isolation after 5 days**.
 - Wear a well-fitted **mask for 10 full days** any time you are around others inside your home or in public. Do not go to places where you are unable to wear a mask.
8. **FAQ - When Can I Stop Home Isolation If I Am Sick With COVID-19?**
 - You can **stop home isolation after 5 days** if:
 - ... Fever is gone for at least 24 hours off fever-reducing medicines **AND**
 - ... Any cough and other symptoms are improving
 - Wear a well-fitted **mask for 10 full days** any time you are around others inside your home or in public. Do not go to places where you are unable to wear a mask.
 - *Notes:* People who were severely ill with COVID-19 should stay home (isolate) for at least 10 days. Consult your doctor (or NP/PA) before ending isolation.
9. **FAQ - What Masks Are Best to Protect Against COVID-19?**
 - There are many types of face masks. Some provide more protection against COVID-19 than others.
 - However, it is important to remember **any face mask is better than no face mask**. Also, any mask you use should fit well (snuggly against the face with no gaps) and should be clean and dry.
 - ... **Cloth masks** made with several layers of finely woven fabric provide good protection. A single fabric layer is not enough.
 - ... Disposable **surgical masks** (procedure masks) and **KN95 masks** provide better protection than cloth masks.
 - ... NIOSH-approved **N95 masks** (respirator masks) provide the best protection. These are most often used by healthcare workers.
 - The CDC recommends that "you wear the most protective mask you can that fits well and that you will wear consistently."

- You can find more information on the CDC website: <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/types-of-masks.html>.

10. **Call Back If:**

- You have more questions

COVID-19 Prevention and Healthy Living

1. **COVID-19 - How to Protect Your Family and Yourself From Getting Sick:**

- **Get the COVID-19 vaccine.** It is your best protection against this serious infection.
- Avoid close contact with people known to have COVID-19.
- Avoid closed spaces (indoors) when possible and all crowds (even outdoors).
- Limit close contact with people outside your family unit.
- Try to stay at least 6 feet (2 meters) away from anyone who is coughing.
- Wash hands often with soap and water.
- Alcohol-based hand cleaners are also effective.
- Avoid touching the eyes, nose or mouth. Germs on the hands can spread this way.
- Do not share eating utensils (e.g., spoon, fork).

2. **COVID-19 - How to Protect Others - When You Are Sick With COVID-19:**

- **Stay Home a Minimum of 5 Days:** Home isolation is needed for at least 5 days after the symptoms started. Stay home from school or work if you are sick. Do **Not** go to religious services, child care centers, shopping, or other public places. Do **Not** use public transportation (e.g., bus, taxis, ride-sharing). Do **Not** allow any visitors to your home. Leave the house only if you need to seek urgent medical care.
- **Wear a Mask for 10 Days:** Wear a well-fitted mask for 10 full days any time you are around others inside your home or in public. Do not go to places where you are unable to wear a mask.
- **Wash Hands Often:** Wash hands often with soap and water. After coughing or sneezing are important times. If soap and water are not available, use an alcohol-based hand sanitizer with at least 60% alcohol, covering all surfaces of your hands and rubbing them together until they feel dry. Avoid touching your eyes, nose, and mouth with unwashed hands.
- **Call Ahead if Medical Care Is Needed:** If you have a medical appointment, call your doctor's office and tell them you have or may have COVID-19. This will help the office protect themselves and other patients. They will give you directions.

3. **COVID-19 - How to Protect Others - When You Test Positive for COVID-19 but Have No Symptoms:**

- **Stay Home a Minimum of 5 Days:** Home isolation is needed for at least 5 days after the date of the positive test. Stay home from school or work if you are sick. Do **Not** go to religious services, child care centers, shopping, or other public places. Do **Not** use public transportation (e.g., bus, taxis, ride-sharing). Do **Not** allow any visitors to your home. Leave the house only if you need to seek urgent medical care.
- **Wear a Mask for 10 Days:** Wear a well-fitted mask for 10 full days any time you are around others inside your home or in public. Do not go to places where you are unable to wear a mask.
- **Wash Hands Often:** Wash hands often with soap and water. After coughing or sneezing are important times. If soap and water are not available, use an alcohol-based hand sanitizer with at least 60% alcohol, covering all surfaces of your hands and rubbing them together until they feel dry. Avoid touching your eyes, nose, and mouth with unwashed hands.
- **Call Ahead if Medical Care Is Needed:** If you have a medical appointment, call your doctor's office and tell them you have COVID-19. This will help the office protect themselves and other patients. They will give you directions.

4. **COVID-19 - Face Masks for Prevention:**

- Face masks are important for reducing the spread of COVID-19. They also reduce the spread

of influenza (flu). People with COVID-19 can have no symptoms, but still spread the virus.

- Because of the Omicron variant (and other possible future variants) recommendations for wearing masks are pretty much the same for people who are vaccinated or unvaccinated. Mask wearing is even more important if you are in an area of high COVID-19 spread or if you have a weak immune system.

- **People Who Are Well (Not Sick With COVID-19) Should Wear Masks If:**

- ... You are in an indoor public space (such as a church or a grocery store).
- ... You are in a crowded outdoor setting (e.g., concert, music festival, rally).
- ... You are traveling on a plane, bus, train, or other form of public transportation or in transportation hubs such as airports and stations.
- ... You must be around someone who has symptoms of COVID-19 or has tested positive for COVID-19.

- **People Who Are Sick With COVID-19 Should Wear Masks If:**

- ... You are around other people or animals (such as pets).

- **Exceptions:**

- ... Face mask or covering is optional if outdoors and you can avoid being within 6 feet (2 meters) of other people. Some examples are an outdoor walk or run.

- ... Face coverings also are not recommended for children under 2 years.

- **How to Select and Use a Face Mask:** Make sure your mask fits well (without gaps) and fully covers your nose and mouth. More information on how to select and use a mask is available at: <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/types-of-masks.html>.

5. **Keep Your Mind Positive:**

- **Live in the Present:** Live in the present, not the future. The future is where your needless worries live.

- **Think Positive:** Use a mantra to reduce your fears, such as "I am strong". Stay positive.

- **Get Outdoors:** Take daily walks. Go to a park if you have one. Being in nature is good for your immune system.

- **Stay in Touch With Your Friends and Family:** Use regular phone calls and video chats to stay in touch with those you love. Schedule virtual video dinners with friends and family!

6. **Keep Your Body Strong:**

- Get your body ready to fight the COVID-19 virus.

- Get enough sleep.

- Stay physically active. Walk or exercise every day. Take the stairs.

- Stay well hydrated.

- Eat healthy meals. Avoid overeating to deal with your fears.

- Avoid the over-use of anti-fever medicines. Fever helps fight infections and ramps up your immune system.

7. **Ask for Help:**

- If you feel so sad or worried that you cannot function, reach out to your doctor (or NP/PA), local mental health center, or national helpline.

- **Canada:** In Canada, crisis and mental health support is available at:

- <https://www.canada.ca/en/public-health/services/mental-health-services/mental-health-get-help.html>.

- **United States - SAMHSA:** 1-800-662-HELP (4357). Website: www.samhsa.gov/find-help/national-helpline.

8. **Get a Flu Shot (Influenza Vaccine):**

- Protect yourself and your family from influenza by getting your annual flu shot (influenza vaccination).

- All adults should get a flu shot every year. This year is more important than ever. *Reason:* Getting COVID-19 while you also have or are recovering from the flu may increase the chances of getting severe symptoms.

9. **FAQ - What Masks Are Best to Protect Against COVID-19?**

- There are many types of face masks. Some provide more protection against COVID-19 than others.
- However, it is important to remember **any face mask is better than no face mask**. Also, any mask you use should fit well (snuggly against the face with no gaps) and should be clean and dry.
- ... **Cloth masks** made with several layers of finely woven fabric provide good protection. A single fabric layer is not enough.
- ... Disposable **surgical masks** (procedure masks) and **KN95 masks** provide better protection than cloth masks.
- ... NIOSH-approved **N95 masks** (respirator masks) provide the best protection. These are most often used by healthcare workers.
- The CDC recommends that "you wear the most protective mask you can that fits well and that you will wear consistently."
- You can find more information on the CDC website: <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/types-of-masks.html>.

10. **Call Back If:**

- You have more questions

COVID-19 Testing and Test Results

1. **Note to Triager - COVID-19 Testing:**

- **For questions about testing**, it is often best to **direct the patient to their doctor** (or NP/PA), during office hours. Their doctor is the best resource for up-to-date information on testing. *Testing in a lab requires a doctor's order (as with all medical tests).*
- Many clinics, retail clinics (such as CVS, Walgreens), and urgent care centers perform testing.
- Testing is also available at some local and state public health departments.
- **Self-tests** (such as Abbot BinaxNow) for use at home are available in some drugstores or online (such as Amazon, CVS, or Walgreens).
- *What about a standing order?* Call centers should talk with their medical leadership about triagers being able to use a standing order for testing.

2. **COVID-19 - Who Needs Testing?**

- **Symptoms:** All people who have symptoms of COVID-19 should get tested **within 3 days** of becoming ill.
- **Close Contact Exposure:** All people who have had close contact exposure should be tested 5 to 7 days after exposure. Close contact means being within 6 feet (2 meters) for a total of 15 minutes or more in a 24-hour period, with someone confirmed to have COVID-19. This includes all people who live with someone confirmed to have COVID-19.
- Attending a large gathering or event increases a person's chance of being in close contact with people outside their household and being exposed to COVID-19.

3. **COVID-19 - Where to Go for Testing?**

- Your doctor (or NP/PA) can order a COVID-19 test for you.
- Many clinics, retail clinics (such as CVS, Walgreens), and urgent care centers perform testing.
- Testing is also available at some local and state public health departments.
- **Self-tests** (such as Abbot BinaxNow) for use at home are available in some drugstores (such as CVS, Walgreens). You can also buy them on the internet (such as Amazon, CVS, Walgreens). In the U.S. free self-tests are available at *COVIDtests.GOV*.

4. **COVID-19 - What Types of Tests Are Available?**
 - There are two types of tests available for COVID-19: viral tests and antibody tests.
 - **Test for Current Infection - Viral Test:** A viral test tells you if you have the COVID-19 infection right now. A viral test is done with either a nasal swab or a saliva sample. **Symptomatic patients** should get a test within 3 days. Asymptomatic people with a close contact COVID-19 **exposure** should get tested 5 to 7 days after exposure.
 - **Test for Past Infection - Antibody Test:** An antibody test tells you if you have had COVID-19 before. Sometimes an antibody test may turn positive after a person has been vaccinated against COVID-19. This test is done with a blood sample. An antibody test may not be able to show if you have a current infection, because it can take 1 to 3 weeks for your body to make antibodies to the infection. We do not know yet if having antibodies to the virus can protect someone from getting infected with the virus again, or how long that protection might last. If an antibody test is needed, it is usually performed 2 to 3 weeks after the start of the infection.
 - Some test results come back right away or within hours. Some tests may take longer (1 to 3 days) depending on the type of test.
5. **Understanding Viral Test Results:**
 - Viral tests look for part of the virus (RNA or proteins) in the test sample. Since this test looks for actual parts of the virus, it can tell you if you are *currently infected* (active infection) and at risk of spreading the disease. A viral test is done using a nasal (nose) swab or saliva (spit).
 - A **positive viral test** means that you most likely have an active COVID-19 infection and *can spread the infection to others*.
 - A **negative viral test** means that you likely did NOT have an active COVID-19 infection at the time the test was done.
 - *Note:* All tests can sometimes have a false (wrong) result. Some reasons for this include how the sample was collected, how long into the illness it was taken, and the type of test done. That is why it is important to discuss your results with your doctor (or NP/PA). The COVID-19 vaccine does NOT affect the results of the viral test.
6. **Understanding Antibody Test Results:**
 - Antibody tests (also called serology tests) are done on blood samples.
 - COVID-19 antibody tests look for antibodies to the virus that causes COVID-19. Antibodies begin to form during an infection but can last as long as a lifetime. Therefore, an antibody test cannot tell the difference between an active infection and one you had sometime in the past.
 - A **positive antibody test** means that you most likely *have been, or are now*, infected with COVID-19. Sometimes an antibody test may turn positive after a person has been vaccinated against COVID-19. However, an antibody test is NOT a reliable way to determine if the vaccine worked for you.
 - A **negative antibody test** means that you likely *never had* COVID-19 OR you *have not yet* formed antibodies to COVID-19.
7. **Understanding Viral and Antibody Testing Together:**
 - In some cases, your doctor (or NP/PA) may want to perform both antibody testing and viral testing together. The best source of information on understanding the test results will come from your doctor. Here is some information on how the two results can be used together.
 - **Both Tests Are Positive:** You most likely have an *active infection* and can spread COVID-19 to others.
 - **Both Tests Are Negative:** You likely do NOT have COVID-19 and likely never had a COVID-19 infection.
 - **Viral Test Is Positive and Antibody Test Is Negative:** You most likely have an *active infection* and can spread COVID-19 to others. You have not yet developed antibodies to your active COVID-19 infection.
 - **Viral Test Is Negative and Antibody Test Is Positive:** You likely do NOT have an active COVID-19 infection. You most likely had COVID-19 sometime in the past (or received the

COVID-19 vaccine).

8. **Repeating a COVID-19 Viral Test:**

- **Negative Viral Test:** A repeat test is sometimes needed after a negative viral test. *Reason:* A test may be incorrectly negative. For example, if a person gets the test too soon after exposure or does not swab the nose the right way. Further, if a person is exposed again or develops symptoms suggestive of COVID-19, then repeat viral testing should be performed. Home self-tests may recommend repeat testing after 1 to 2 days if the first test is negative.

- **Positive Viral Test:** After a positive test, repeat tests are generally not recommended for 90 days (3 months). *Reason:* Even after it is safe to stop isolation (usually 5 days), tests may stay positive. Further, re-infection appears to be rare during the initial 90 days after symptom onset of the preceding infection. However, if you have new symptoms of COVID-19 within 14 days of exposure to someone with COVID-19, you should stay home (isolate).

9. **Call Back If:**

- You have more questions

FIRST AID

N/A

BACKGROUND INFORMATION

Key Points

- An outbreak of this infection began in China in December 2019.
- The first patient in the United States occurred on January 21, 2020.
- Four patients were confirmed in Canada on January 31, 2020.
- The *World Health Organization* (WHO) declared COVID-19 a global public health emergency on January 30, 2020 and then a pandemic on March 11, 2020.
- In the Summer and Fall of 2021 the **Delta variant** was the most common COVID-19 variant. In the Winter of 2021-2022 the **Omicron variant** became the most common variant.
- COVID-19 vaccination is recommended for all people aged 5 years and older, including people who are pregnant, breastfeeding, trying to get pregnant now, or might become pregnant in the future. Everyone 12 years and older should get a COVID-19 booster shot (vaccination).
- The *Centers for Disease Control and Prevention* (CDC) is considered the source of truth for this guideline. This continues to be a rapidly changing situation and guidance from the CDC is being updated frequently. See <https://www.cdc.gov/coronavirus/2019-nCoV/index.html>.

Symptoms

The COVID-19 coronavirus most often causes a lower respiratory tract illness. More common symptoms are:

- Anorexia (40-84%)
- Chills (16-28%)
- **Cough** (59-82%)
- Fatigue (44-70%)
- **Fever** (83-99%)
- Loss of smell or taste (40-50%)
- Muscle pain (11-35%)

- **Shortness of breath or difficulty breathing** (31-40%)

Other symptoms may include:

- Diarrhea (2-5%)
- Headache (5-14%)
- Nausea or Vomiting (1-10%)
- Runny or Stuffy Nose (4%)
- Sore Throat (5%)
- Sputum production (14-34%)

Having two or more of any of these symptoms increases the likelihood that a person may have COVID-19.

Over 30% of infected adult patients have no symptoms (asymptomatic). Children and teens are even more likely to have no symptoms.

Symptoms can be different for the different COVID-19 variants. The symptoms of the Omicron variant seem to be milder for most people (especially if vaccinated) and similar to the common cold.

Cause

It is caused by a novel (new) coronavirus (COVID-19).

Viruses change through mutation. New variants of the COVID-19 virus are expected to appear and spread.

In the Summer and Fall of 2021 the **Delta variant** was the most common COVID-19 variant. In the Winter of 2021-2022 the **Omicron variant** became the most common variant.

The COVID-19 vaccines help protect against the delta and omicron variants.

- Infection with COVID-19 occurs less often in people who are vaccinated.
- When it happens, it is called a "breakthrough" infection.
- The risk of serious illness and hospitalization is much lower than if a person was not vaccinated.
- Current evidence suggests that vaccinated people who become infected with COVID-19 can spread the virus to others.

How It Is Spread (Transmission)

COVID-19 is spread from person to person.

- **Respiratory Droplets:** The virus spreads from respiratory droplets that are produced when a person coughs, sneezes, shouts, or sings. The infected droplets can then be inhaled by a nearby person or land on the surface of their face or eyes. Droplets fall quickly to the floor or ground. This is **how most COVID is spread**.
- **Surfaces:** Most infected people also have respiratory secretions on their hands. These secretions get transferred to healthy people on doorknobs, faucet handles, etc. The virus then gets transferred to healthy people when they touch their face or rub their eyes. This is a **less common cause** of spread.
- **Aerosols:** Aerosols are tiny, invisible particles that can float in the air for 1 to 2 hours and travel more than 6 feet (2 meters). They occur in a closed room with poor ventilation. Aerosols are a **rare cause** of COVID-19 spread.

Exposure Risk Factors

Risk factors for getting sick with COVID-19 are:

- **Close contact with a person** who tested positive for COVID-19 AND contact occurred while they were ill. Close contact is defined as being within 6 feet (2 meters) of an infected person for a total of 15 minutes or more in a 24-hour period. This includes **living with someone** infected with COVID-19.
- **Living in or travel from a city** or area where there is community spread of COVID-19. This carries a lower risk compared to close contact if one follows physical distancing recommendations. Community spread is now occurring in most of the US, especially in cities.
- **International Travel:** The CDC (<https://www.cdc.gov/coronavirus/2019-ncov/travelers>) has the most up-to-date list of where COVID-19 outbreaks are occurring.

Reducing Exposure Risk - Going Out in Public

The risk of COVID-19 spread increases with how closely a person interacts with others, how many people there are, and the longer the interaction.

A person should bring the following with them whenever they go out:

- A cloth face-covering or other face mask that snugly fits over the mouth and nose
- Hand sanitizer with at least 60% alcohol

Reducing Exposure Risk - Travel

- Avoid all non-essential travel.
- If you must travel, go to the CDC website for updates on travel advisories: <https://www.cdc.gov/coronavirus/2019-ncov/travelers>.

Incubation Period

The incubation period averages 5 days (range 2 to 14 days) after coming in contact with the secretions of a person who has COVID-19.

Complications

Complications include pneumonia, hypoxia, ARDS, respiratory failure, and death.

People with the following medical problems or conditions are at **HIGH RISK** of complications.

- **Age:** The risk for severe illness from COVID-19 increases with age, with older adults at highest risk.
- Cancer
- Chronic kidney disease
- Chronic lung disease (e.g., COPD, cystic fibrosis, moderate-severe asthma, pulmonary hypertension)
- Dementia and other neurologic conditions
- Diabetes
- Down syndrome
- Heart disease (e.g., coronary artery disease, heart failure)
- HIV infection
- Liver disease (especially cirrhosis)
- Mental health disorders (e.g., depression, schizophrenia)
- Overweight (BMI from 25 to 30) or obesity (BMI of 30 or higher)

- Pregnancy
- Sickle cell disease
- Smoking
- Solid organ transplant
- Stroke or cerebrovascular disease
- Substance use disorder (e.g., alcohol, opioids)
- Weak immune system

The adult death rate for COVID-19 is approximately 1% to 3%. The death rate is lower in children and younger adults. It is higher in older adults. It is much lower in vaccinated people.

People with O negative blood type may have a slightly lower risk of COVID-19 infection and severe COVID-19 illness. More research on this is needed. People with O negative blood type should still continue to wear a mask, social distance, and get vaccinated!

Diagnosis and Testing

There are two types of tests for COVID-19: viral tests and antibody tests.

- **Test for Current Infection - Viral Test:** A viral test tells us if a person has the COVID-19 infection right now. A viral test is done with either a nasal swab or a saliva sample.
- **Test for Past Infection - Antibody Test:** An antibody test tells us if a person had COVID-19 before. This test is done with a blood sample. An antibody test may not be able to show a current infection, because it can take 1 to 3 weeks for the body to make antibodies to the infection. We do not know yet if having antibodies to the virus can protect someone from getting infected with the COVID-19 virus again, or how long that protection might last. Sometimes an antibody test may turn positive after a person has been vaccinated against COVID-19. However, an antibody test is NOT a reliable way to determine if the vaccine worked.

The results usually come back in 1 to 3 days, but may take longer depending on testing kit or testing site availability.

Who should get tested? When should testing be performed?

- All people who have **symptoms of COVID-19**. Should get tested **within 3 days** of becoming ill.
- All people who have had a **close contact exposure** should be tested **5 to 7 days** after exposure. Close contact means being within 6 feet (2 meters) for a total of 15 minutes or more in a 24-hour period, with someone confirmed to have COVID-19. This includes all people who live with someone confirmed to have COVID-19.

For questions about testing, it is often best to direct the patient to their doctor (or NP/PA) during office hours. Their doctor is the best resource for up-to-date information on testing.

Pulse Oximetry

A pulse oximeter measures the amount of oxygen in the blood. It also measures the pulse rate. A pulse oximeter consists of two parts.

- There is a monitor containing the batteries and display, and
- The probe that senses the pulse and oxygen level. The probe can be placed on the finger, toe, or the ear.

Here are some important tips on correctly using a pulse oximeter.

- Use the index or middle finger. Try not to use the toes or ear lobes.
- Remove nail polish from the finger on which pulse oximetry is being performed.
- Warm the hand prior to measurement.
- Perform the pulse oximetry indoors. Avoid bright light.
- Perform the pulse oximetry while at rest, and during quiet breathing.
- Observe readings for 30 to 60 seconds. Identify the most common value. Only use readings that have a strong and regular pulse signal.
- Measure and record values two to three times per day.

Here is how to interpret oxygen level values.

- **95 - 100%:** Normal oxygen level.
- **91 - 94%:** Mildly low oxygen level for most people. It may be normal for some patients with COPD.
- **86 - 90%:** Moderately low oxygen level. Moderate hypoxia. Oxygen needed.
- **85% or lower:** Severely low oxygen level. Severe hypoxia. Oxygen needed.

The **Oxygen Monitoring and Hypoxia** guideline has more comprehensive information and triage decision support.

Treatment

For healthy people with **mild symptoms**, prescription medicines are usually not needed. People can treat the symptoms at home using over-the-counter medicines for fever, pain, and cough.

People with **mild to moderate symptoms and who are at high risk** for severe COVID-19 may sometimes need special prescription medicines as outpatients. There are monoclonal antibodies (e.g., bamlanivimab, casirivimab-imdevimab, sotrovimab) and antiviral medicines (e.g., nirmatrelvir-ritonavir / Paxlovid, molnupiravir).

People with **severe COVID-19** will need emergency department treatment and hospitalization. Treatment of hospitalized patients may include oxygen, steroids, antiviral medicine (e.g., remdesivir), and immune system medicines (e.g., baricitinib, tocilizumab).

This is a complex and changing area of information. Patients should talk with their doctor (or NP/PA) if they have questions.

Prevention

Social distancing and wearing masks have been proven to help prevent COVID-19.

COVID-19 vaccines are safe and effective. They reduce the chance of getting COVID-19. If a vaccinated person becomes infected, the chance of severe illness and hospitalization are less.

There are monoclonal antibody treatments (e.g., REGEN-COV / casirivimab-imdevimab) for outpatients at risk for severe COVID-19.

Vaccination

COVID-19 vaccination is recommended for all people aged 5 years and older, including people who are pregnant, breastfeeding, trying to get pregnant now, or might become pregnant in the future.

Several COVID-19 vaccines have been approved for use in Canada and the United States:

- **AstraZeneca (Oxford):** Approved for use in Canada in February 2021. For people 18 years and

older. More information available at: <https://www.astrazeneca.com/covid-19.html>.

- **Johnson & Johnson (Janssen)**: Approved for use in the US in February 2021. Single shot. For people 18 years and older. More information available at: <https://www.jnj.com/coronavirus>.
- **Moderna**: Approved for use in Canada and US, December 2020. For people 18 years and older. More information available at: <https://www.modernatx.com/cove-study>.
- **Pfizer (BioNTech)**: Approved for use in Canada and US, December 2020. For people 5 years and older. More information available at: <https://www.cvdvaccine.com/>.

There are other COVID-19 vaccines still in development.

Booster Vaccination

Everyone 12 years and older should get a booster shot (vaccination). Booster shots are especially important for groups at higher risk. Recommendations for the timing of a booster shot are:

- People who previously got the **Pfizer** or **Moderna** vaccine should get the booster at least **5 months** after their second shot.
- People who got the **Johnson & Johnson** vaccine should get the booster at least **2 months** after the first shot.

You can choose from any of the approved COVID-19 vaccines for your booster.

For U.S. information and the most up-to-date criteria, see the CDC website at: <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/booster-shot.html>. In Canada see <https://www.canada.ca/en/public-health/services/diseases/coronavirus-disease-covid-19/vaccines.html>.

Additional Primary Dose (Third Shot) of the Moderna or Pfizer Vaccine

People with **moderately-severely weak immune systems** are at higher risk of severe COVID-19 infection. These people may not build up good immunity with just 2 shots.

- People with weak immune systems are recommended to get a third dose of an mRNA vaccine (Moderna, Pfizer) at least 28 days after the second shot.
- For more information and the most up-to-date criteria, see the CDC website at: <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/recommendations/immuno.html>.

Up-To-Date on COVID-19 Vaccination

Fully vaccinated means that 2 or more weeks have passed after receiving a one-dose vaccine (e.g., Johnson and Johnson) or the second dose of a two-dose vaccine (e.g., AstraZeneca, Pfizer, Moderna).

Up-to-date on vaccination means the person is fully vaccinated AND got a booster 5 or more months later. A person is also up-to-date if they are fully vaccinated but are not yet eligible for a booster. For people with moderately to severely weak immune systems up-to-date means they received an extra primary shot (third shot) of an mRNA vaccine and a booster.

Quarantine vs. Isolation

The term **quarantine** means to keep someone who might have been exposed to COVID-19 away from others. Quarantine helps prevent the spread of COVID-19 because a person with COVID-19 can spread the virus before they get sick. Also, some people can get COVID-19 and have no symptoms.

How long should a person quarantine after being exposed to COVID-19? CDC recommendations are

different for people who are up-to-date on their vaccinations (all vaccine and booster doses) than other people.

- **Positive COVID-19 Test in Past 90 Days:** Quarantine is not recommended. Wear a well-fitting mask around others for 10 days after the last exposure (close contact) with someone with COVID-19. Get tested at least 5 days after exposure.
- **Up-to-date on COVID-19 Vaccinations:** Quarantine is not recommended. Wear a well-fitting mask around others for 10 days after the last exposure (close contact) with someone with COVID-19. Get tested at least 5 days after exposure.
- **Unvaccinated or Not Up-To-Date on Vaccinations:** Quarantine is recommended. Wear a well-fitting mask around others for 10 days after the last exposure (close contact) with someone with COVID-19. This is especially important if you around others who are unvaccinated or have a weak immune system. Get tested at least 5 days after exposure.

The term **isolation** means to keep someone who is infected with COVID-19 away from others. Isolation helps prevent the spread of COVID-19 to people.

How long should a person isolate after getting infected with COVID-19? Day 1 is the first full day after your symptoms developed or your positive test specimen was collected.

- **No Symptoms But tested Positive:** Stay **home (isolate) for 5 days**. Wear a well-fitted **mask for 10 full days** any time you are around others inside your home or in public. Do not go to places where you are unable to wear a mask.
- **Mild-moderate COVID-19 Illness:** Stay **home for 5 days** AND until fever is gone for at least 24 hours off fever-reducing medicines AND until any cough and other symptoms are improving. Wear a well-fitted **mask for 10 full days** any time you are around others inside your home or in public. Do not go to places where you are unable to wear a mask.
- **Severely Ill With COVID-19:** You should stay home for at least 10 days. Consult the doctor (or NP/PA) before ending isolation.

Other Coronaviruses in Humans

Common coronaviruses can cause colds and upper respiratory symptoms. These can be identified in currently available commercial respiratory testing panels (human coronaviruses HKU1, OC43, 229E, and OC43). These coronaviruses are completely different than the novel coronavirus addressed in this guideline.

Two other coronaviruses that previously have caused serious outbreaks are:

- **MERS-CoV:** Middle East Respiratory Syndrome (MERS)
- **SARS-CoV:** Severe Acute Respiratory Syndrome (SARS)

Animals and COVID-19

The main way COVID-19 spreads is from person to person. There is low risk of getting COVID-19 from a pet or other animal.

- It is possible for animals to catch COVID-19 from people. A few pets have tested positive for COVID-19 (including cats and dogs).
- The CDC recommends treating pets like other family members when trying to avoid spreading COVID-19. Do not let pets have close contact with other people or animals outside your household. A sick person should self-isolate and avoid contact with both people and pets.
- Call your vet if your pet gets sick or you have other questions.
- The CDC has more information on COVID-19 and animals at:

<https://www.cdc.gov/coronavirus/2019-ncov/animals/pets-other-animals.html>.

Internet Resources

- *Centers for Disease Control and Prevention (CDC)*: Coronavirus. <https://www.cdc.gov/coronavirus/>.
- *COVIDtests.GOV*: Every home in the U.S. is eligible to order 4 free at-home COVID-19 tests. Orders will usually ship in 7-12 days. <https://www.covidtests.gov/>.
- *National Institutes of Health (NIH)*: Treatment Guidelines. <https://www.covid19treatmentguidelines.nih.gov/>.
- *Public Health Agency of Canada*: <https://www.canada.ca/en/public-health/services/diseases/coronavirus-disease-covid-19.html>.
- *World Health Organization (WHO)*: Coronavirus. <https://www.who.int/health-topics/coronavirus>.

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