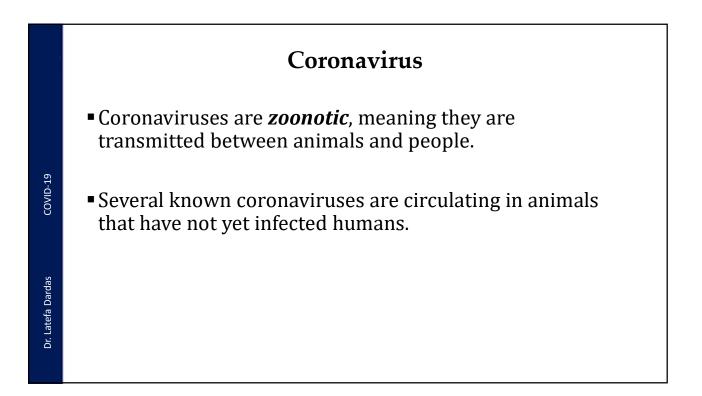
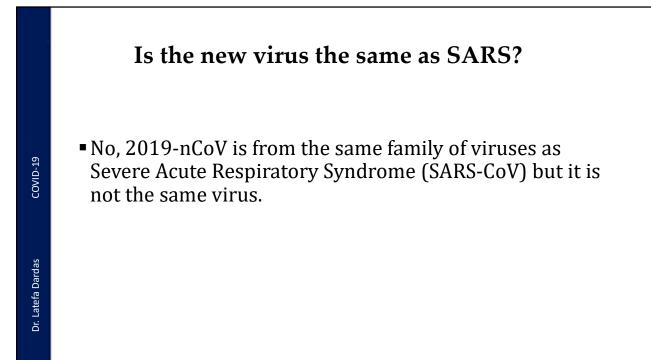


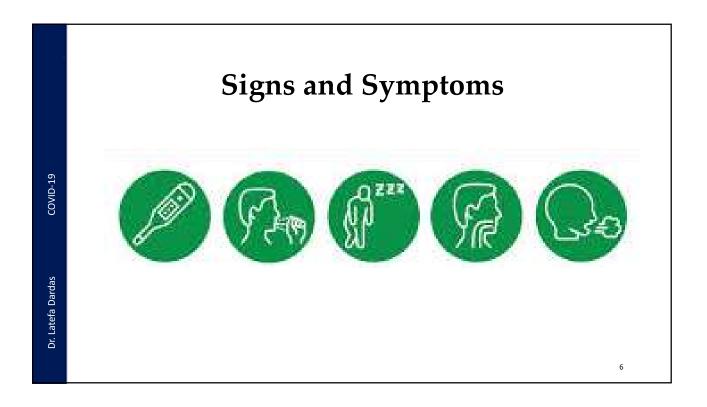
#### Coronavirus

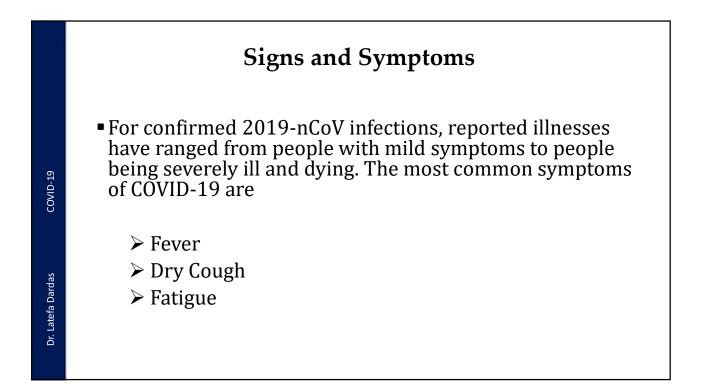
 Coronaviruses (CoV) are a large family of viruses that cause illness ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome (MERS-CoV) and Severe Acute Respiratory Syndrome (SARS-CoV).

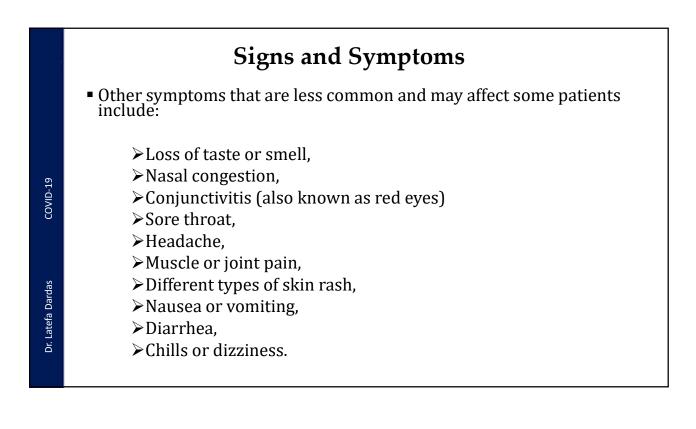
 A novel coronavirus (CoV) is a new strain of coronavirus that has not been previously identified in humans. The new, or "novel" coronavirus, now called 2019-nCoV, had not previously detected before the outbreak was reported in Wuhan, China in December 2019.

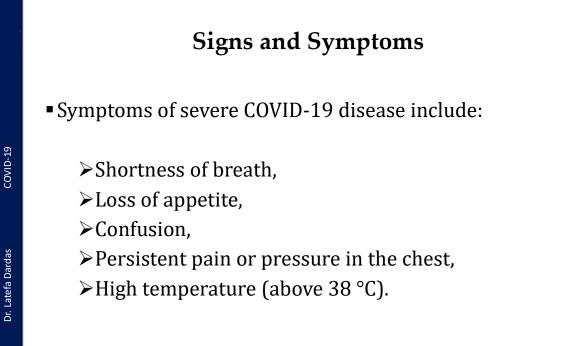


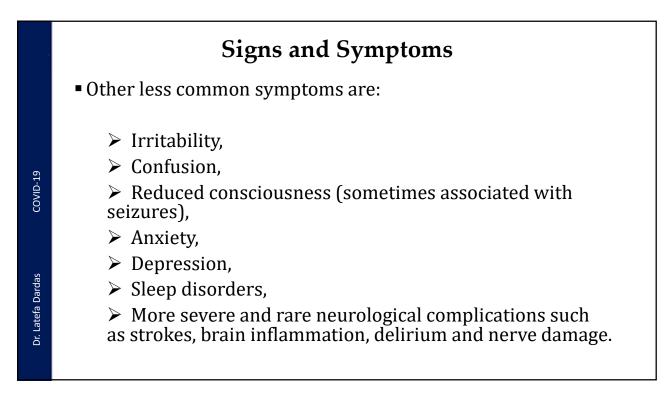












#### Signs and Symptoms

 People of all ages who experience fever and/or cough associated with difficulty breathing or shortness of breath, chest pain or pressure, or loss of speech or movement should seek medical care immediately.

### As a smoker, am I likely to get more severe symptoms if infected?

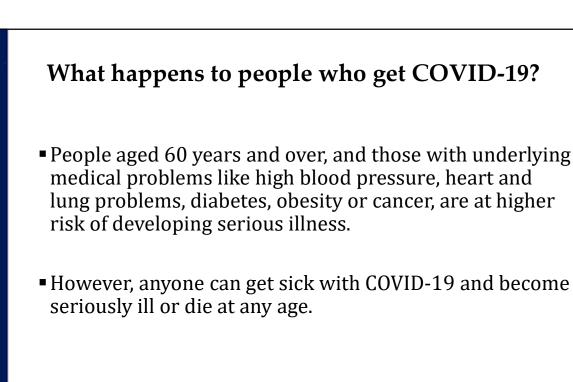
 Smoking any kind of tobacco reduces lung capacity and increases the risk of many respiratory infections and can increase the severity of respiratory diseases. COVID-19 is an infectious disease that primarily attacks the lungs. Smoking impairs lung function making it harder for the body to fight off coronaviruses and other respiratory diseases. Available research suggests that smokers are at higher risk of developing severe COVID-19 outcomes and death. Dr. Latefa Dardas

#### As a smoker, is my risk of getting the COVID-19 virus higher than that of a non-smoker?

Currently, there are no peer-reviewed studies that have evaluated the risk of SARS-CoV-2 infection associated with smoking. However, tobacco smokers (cigarettes, waterpipes, bidis, cigars, heated tobacco products) may be more vulnerable to contracting COVID-19, as the act of smoking involves contact of fingers (and possibly contaminated cigarettes) with the lips, which increases the possibility of transmission of viruses from hand to mouth. Smoking waterpipes, also known as shisha or hookah, often involves the sharing of mouth pieces and hoses, which could facilitate the transmission of the COVID-19 virus in communal and social settings.

#### How long does it take to develop symptoms?

The time from exposure to COVID-19 to the moment when symptoms begin is, on average, 5-6 days and can range from 1-14 days. This is why people who have been exposed to the virus are advised to remain at home and stay away from others, for 14 days, in order to prevent the spread of the virus, especially where testing is not easily available. COVID-19



What happens to people who get COVID-19?

- Among those who develop symptoms, most (about 80%) recover from the disease without needing hospital treatment. About 15% become seriously ill and require oxygen and 5% become critically ill and need intensive care.
- Complications leading to death may include respiratory failure, acute respiratory distress syndrome (ARDS), sepsis and septic shock, thromboembolism, and/or multiorgan failure, including injury of the heart, liver or kidneys.
- In rare situations, children can develop a severe inflammatory syndrome a few weeks after infection.

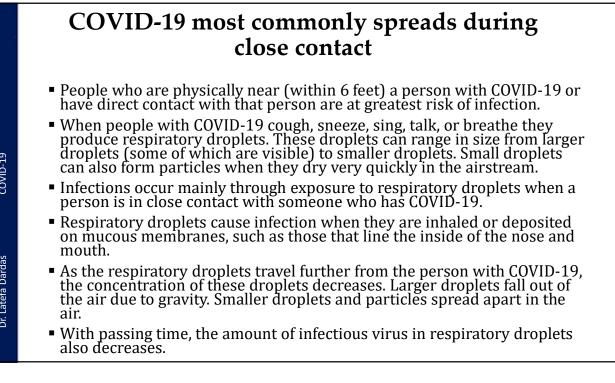
# What's the difference between illness caused by 2019-nCoV, the flu or a cold?

- People with 2019-nCoV infection, the flu, or a cold typically develop respiratory symptoms such as fever, cough and runny nose. Even though many symptoms are alike, they are caused by different viruses. Because of their similarities, it can be difficult to identify the disease based on symptoms alone. That's why laboratory tests are required to confirm if someone has 2019-nCoV.
- WHO recommends that people who have cough, fever and difficulty breathing should seek medical care early. Patients should inform health care providers if they have travelled in the 14 days before they developed symptoms, or if they have been in close contact with someone with who has been sick with respiratory symptoms.

#### Are there long-term effects of COVID-19?

- Some people who have had COVID-19, whether they have needed hospitalization or not, continue to experience symptoms, including fatigue, respiratory and neurological symptoms.
- Research is now ongoing on patients beyond the initial acute course of illness to understand the proportion of patients who have long term effects, how long they persist, and why they occur.

**COVID-19** Transmission **COVID-19** Dr. Latefa Dardas 19

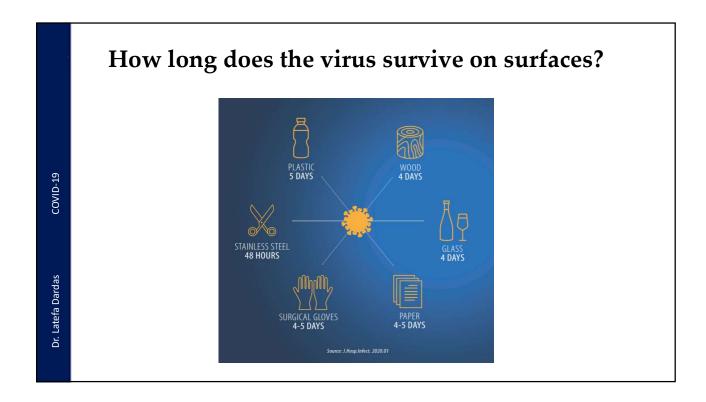


COVID-19 can sometimes be spread by airborne transmission

- Some infections can be spread by exposure to virus in small droplets and particles that can linger in the air for minutes to hours. These viruses may be able to infect people who are further than 6 feet away from the person who is infected or after that person has left the space.
- This kind of spread is referred to as airborne transmission and is an important way that infections like tuberculosis, measles, and chicken pox are spread.
- There is evidence that under certain conditions, people with COVID-19 seem to have infected others who were more than 6 feet away. These transmissions occurred within enclosed spaces that had inadequate ventilation. Sometimes the infected person was breathing heavily, for example while singing or exercising.
  - Under these circumstances, scientists believe that the amount of infectious smaller droplet and particles produced by the people with COVID-19 became concentrated enough to spread the virus to other people. The people who were infected were in the same space during the same time or shortly after the person with COVID-19 had left.
- Available data indicate that it is much more common for the virus that causes COVID-19 to spread through close contact with a person who has COVID-19 than through airborne transmission.

## COVID-19 spreads less commonly through contact with contaminated surfaces

- Respiratory droplets can also land on surfaces and objects. It is possible that a person could get COVID-19 by touching a surface or object that has the virus on it and then touching their own mouth, nose, or eyes.
- Spread from touching surfaces is not thought to be a common way that COVID-19 spreads.



# COVID-19 rarely spreads between people and animals

- It appears that the virus that causes COVID-19 can spread from people to animals in some situations. CDC is aware of a small number of pets worldwide, including cats and dogs, reported to be infected with the virus that causes COVID-19, mostly after close contact with people with COVID-19.
- At this time, the risk of COVID-19 spreading from animals to people is considered to be low.
- People with suspected or confirmed COVID-19 should avoid contact with animals, including pets, livestock, and wildlife.
- The consumption of raw or undercooked animal products should be avoided. Raw meat, milk or animal organs should be handled with care, to avoid crosscontamination with uncooked foods, as per good food safety practices.



#### Can children catch COVID-19?

• Yes. All age groups can catch COVID-19.

• While we are still learning about how COVID-19 affects people, so far, data suggests that children under the age of 18 years have few deaths compared to other age groups and usually mild disease. However, cases of critical illness have been reported. As with adults, pre-existing medical problems like high blood pressure, heart and lung problems, asthma, diabetes, obesity, cancer and neurological and developmental conditions are risk factors for severe disease and intensive care admission in children.

### Can COVID-19 be passed through breastfeeding?

 Transmission of active COVID-19 (virus that can cause infection) through breast milk and breastfeeding has not been detected to date. There is no reason to avoid or stop breastfeeding. COVID-19

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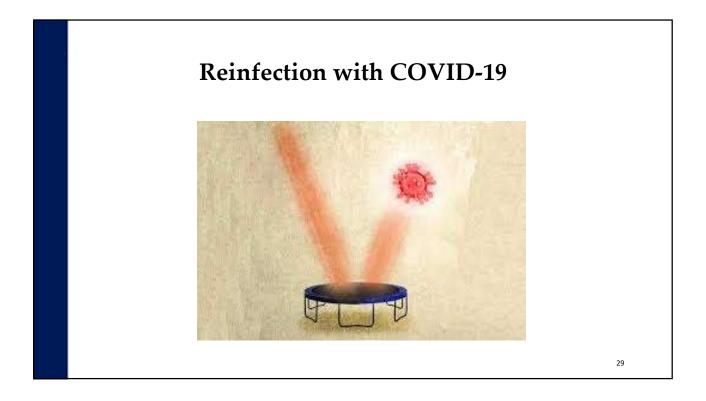
# Can COVID-19 be passed through breastfeeding?

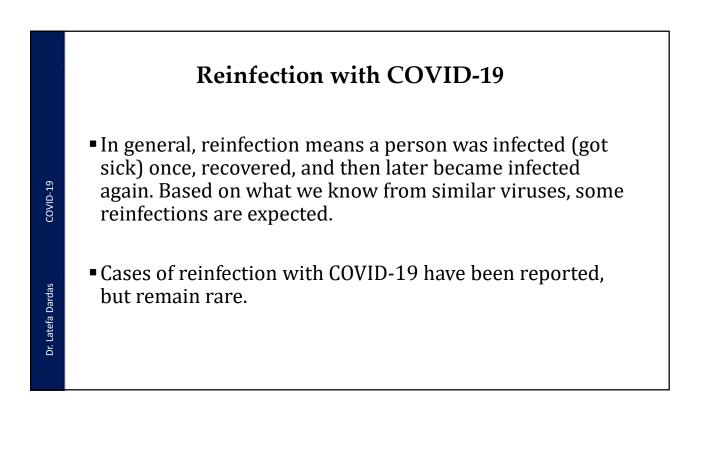
- Women with confirmed or suspected COVID-19 can breastfeed if they wish to do so. They should:
  - Wash hands frequently with soap and water or use alcohol-based hand rub and especially before touching the baby;
  - Wear a medical mask during any contact with the baby, including while feeding;
  - Sneeze or cough into a tissue. Then dispose of it immediately and wash hands again;
  - Routinely clean and disinfect surfaces that mothers have touched.

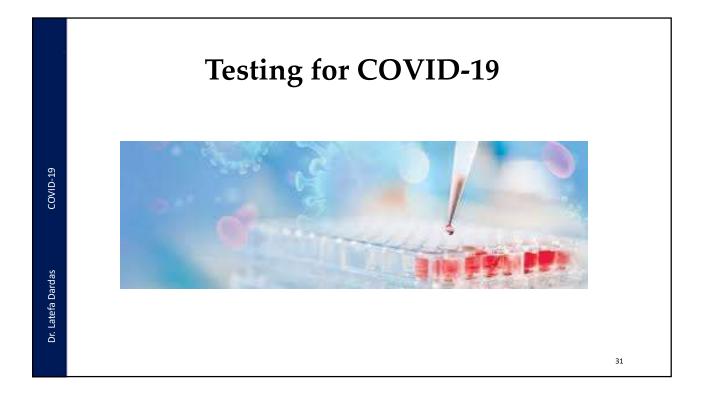
## Can COVID-19 be passed through breastfeeding?

- Mothers with symptoms of COVID-19 are advised to wear a medical mask, but even if this is not possible, breastfeeding should be continued. Mothers should follow other infection prevention measures, such as washing hands, cleaning surfaces, sneezing or coughing into a tissue.
- Non-medical masks (e.g. home-made or cloth masks) have not been evaluated. At this time, it is not possible to make a recommendation for or against their use.

COVID-19







#### What test should I get to see if I have COVID-19?

 In most situations, a molecular test is used to detect SARS-CoV-2 and confirm infection. Polymerase chain reaction (PCR) is the most commonly used molecular test. Samples are collected from the nose and/or throat with a swab. Molecular tests detect virus in the sample by amplifying viral genetic material to detectable levels. For this reason, a molecular test is used to confirm an active infection, usually within a few days of exposure and around the time that symptoms may begin.

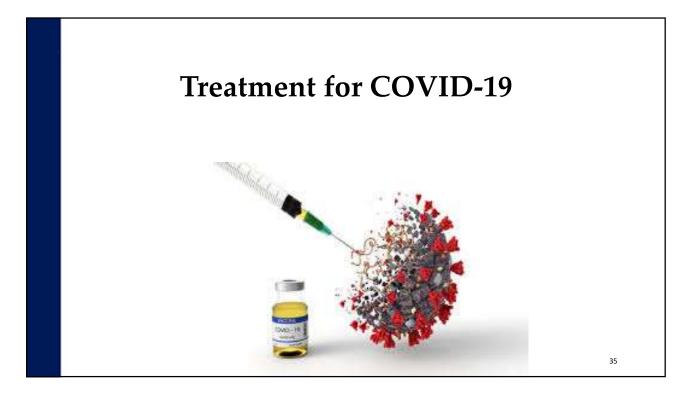
COVID-19

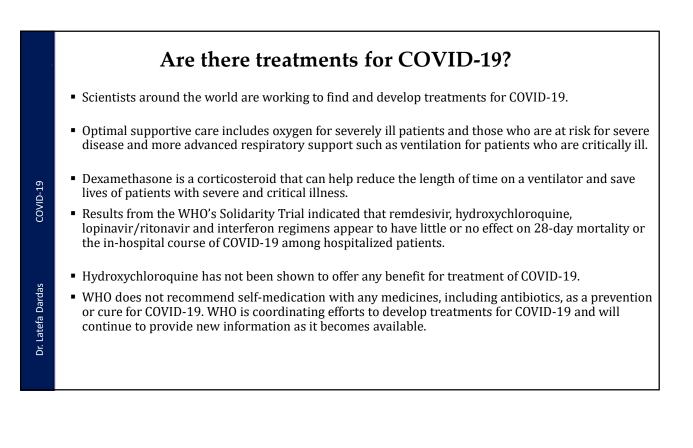
#### What about rapid tests?

 Rapid antigen tests (sometimes known as a rapid diagnostic test – RDT) detect viral proteins (known as antigens). Samples are collected from the nose and/or throat with a swab. These tests are cheaper than PCR and will offer results more quickly, although they are generally less accurate. These tests perform best when there is more virus circulating in the community and when sampled from an individual during the time they are most infectious.

### I want to find out if I had COVID-19 in the past, what test could I take?

Antibody tests can tell us whether someone has had an infection in the past, even if they have not had symptoms. Also known as serological tests and usually done on a blood sample, these tests detect antibodies produced in response to an infection. In most people, antibodies start to develop after days to weeks and can indicate if a person has had past infection. Antibody tests cannot be used to diagnose COVID-19 in the early stages of infection or disease but can indicate whether or not someone has had the disease in the past.

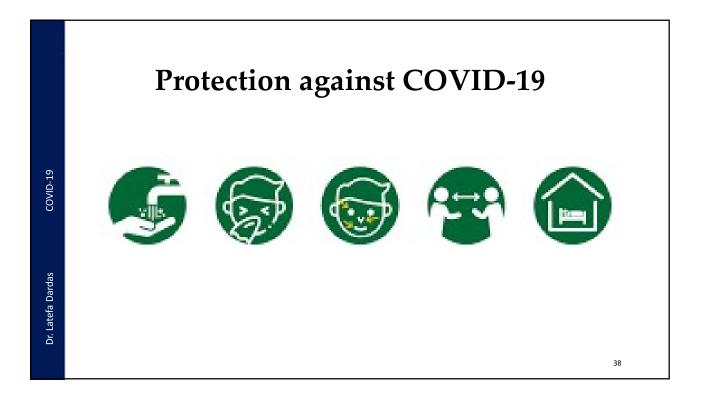


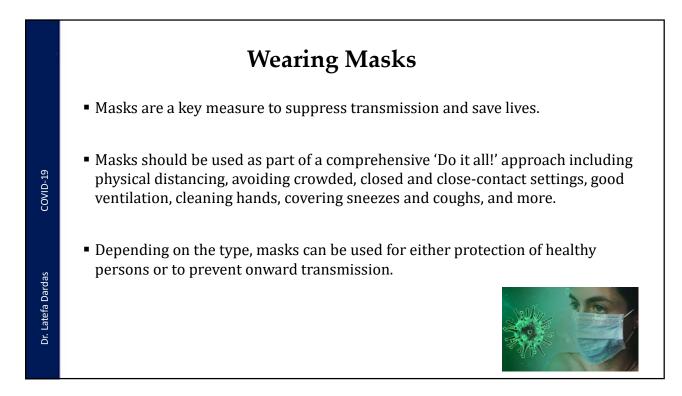


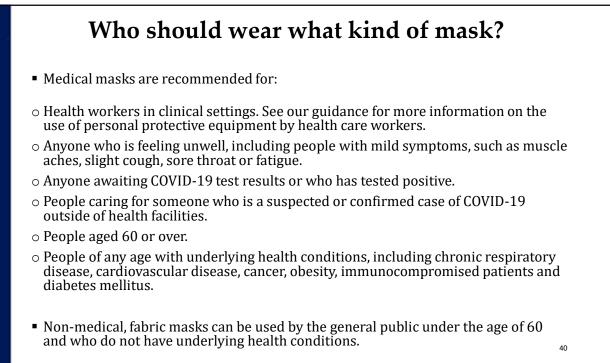
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### Are antibiotics effective in preventing or treating COVID-19?

- Antibiotics do not work against viruses; they only work on bacterial infections. COVID-19 is caused by a virus, so antibiotics do not work. Antibiotics should not be used as a means of prevention or treatment of COVID-19.
- In hospitals, physicians will sometimes use antibiotics to prevent or treat secondary bacterial infections which can be a complication of COVID-19 in severely ill patients. They should only be used as directed by a physician to treat a bacterial infection.

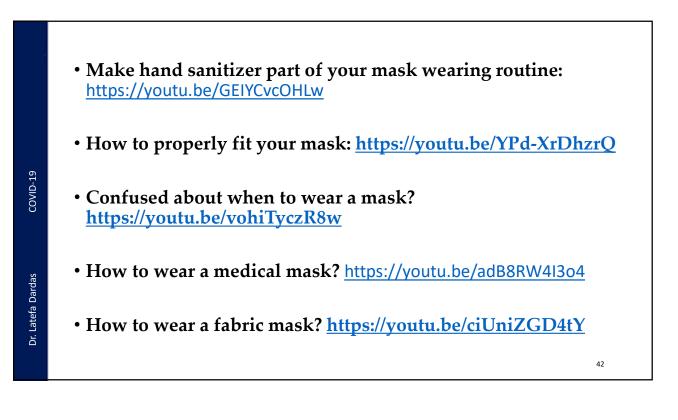






COVID-19

	Respirators (including N95)	Surgical Masks	Non-Medical Masks
Evaluation, Testing, and Certification	Respirators are evaluated, tested and certified by the National Institute for Occupational Health and Safety (NIOSH).	Surgical masks are classified by the American Society for Testing and Materials (ASTM).	Have not been evaluated or tested to recognized standards.
Purpose	Respirators protect from exposure to airborne particles, including viruses.	Surgical masks are a barrier to spreading droplets and spit.	Non-medical masks help limit the spread of droplets and spit when you sneeze or cough.
Fit (Face Seal)	Respirators are designed to seal tight to the face of the wearer.	Are not designed to seal tight against the face.	Are not designed to seal tight against the face.
Filtration	Respirator filters that collect at least 95% of the challenge aerosol are given a 95 rating.	Surgical masks do not effectively filter small particles from the air.	Fabrics are not the same as materials used in certified masks and do not necessarily filter viruses.
Use Limitations	Generally single use but repurposing may be appropriate in certain circumstances. Follow manufacturer's instructions.	Generally single use, but repurposing may be appropriate in certain circumstances. Follow manufacturer's instructions.	Can be difficult to breathe through fabric. Wash between uses.
Who Should Use and When	Health care workers and others when providing direct care to a COVID-19 patient.	Health care workers and others when providing direct care to a COVID-19 patient.	General public when consistent physical distancing is not possible, such as in stores and shopping areas, and on public transit.

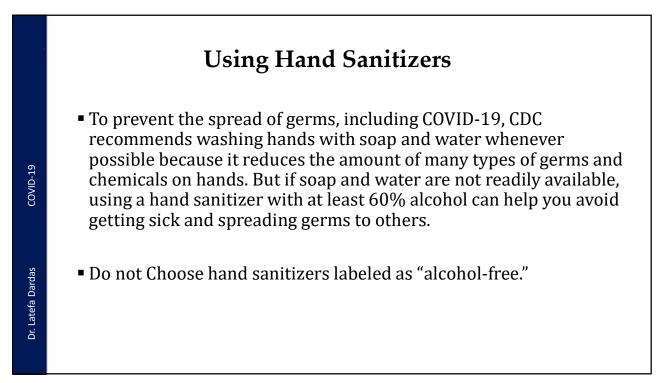


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#### Should I wear a mask at school?

Regarding wearing masks in schools and other public places, WHO advises that people always consult and abide by local authorities on recommended practices in their area. In countries or areas where there is intense community transmission of the virus and in settings where physical distancing cannot be achieved, WHO and UNICEF advise decision makers to apply the following criteria for use of masks in schools when developing national policies:

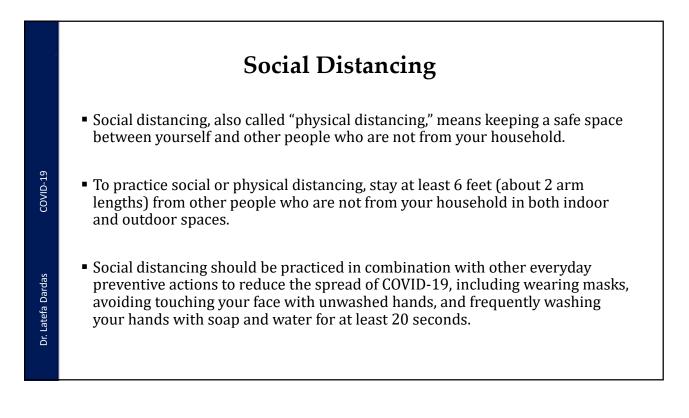
- ≻ Children aged 5 years and under should not be required to wear masks.
- For children between 6 and 11 years of age, the decision to use a mask will vary from place to place, and will depend on several factors, such as the intensity of transmission in the area where the child lives, local norms that influence social interactions, the child's capacity to comply with the appropriate use of masks and availability of appropriate adult supervision, and other factors.
- Children and adolescents 12 years or older should follow the national mask guidelines for adults.





- Wear gloves when cleaning and when caring for someone who is sick.
- Wearing gloves outside of these instances (for example, when using a shopping cart or using an ATM) will not necessarily protect you from getting COVID-19 and may still lead to the spread of germs.

 The best way to protect yourself from germs when running errands and after going out is to regularly wash your hands with soap and water for 20 seconds or use hand sanitizer with at least 60% alcohol.

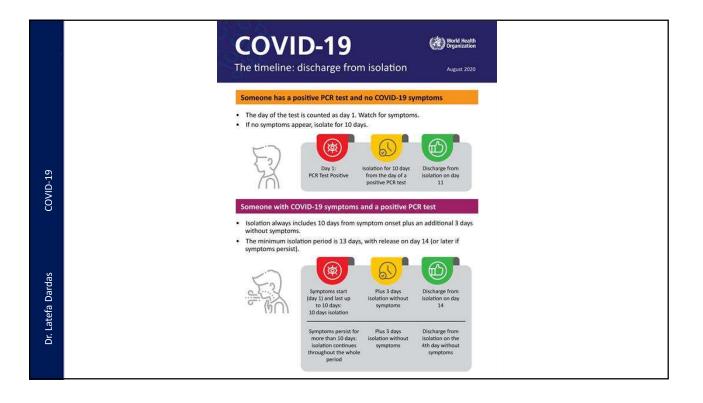


# What is the difference between isolation and quarantine?

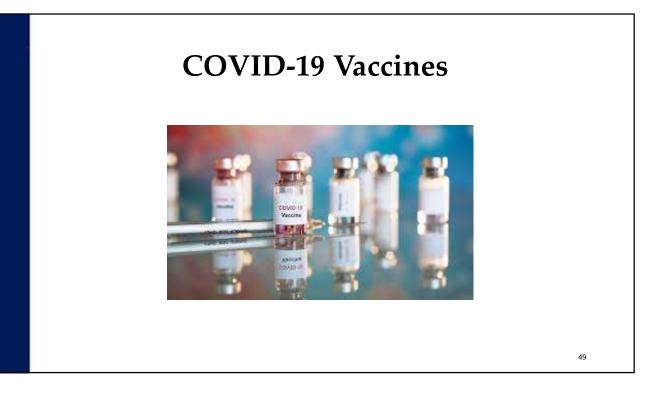
• Both isolation and quarantine are methods of preventing the spread of COVID-19.

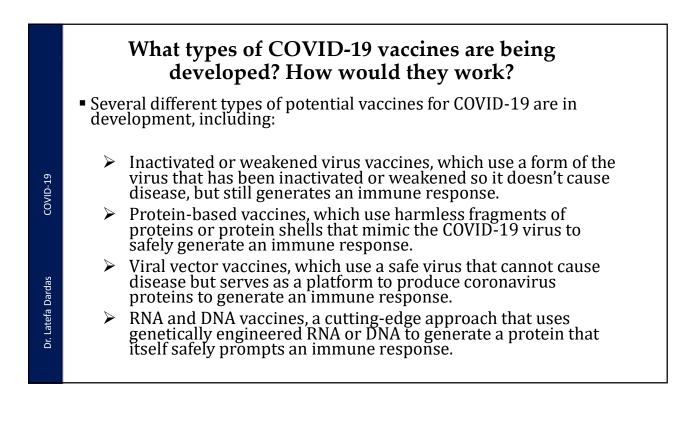
• **<u>Quarantine</u>** is used for anyone who is a contact of someone infected with the SARS-CoV-2 virus, which causes COVID-19, whether the infected person has symptoms or not. Quarantine means that you remain separated from others because you have been exposed to the virus and you may be infected and can take place in a designated facility or at home. For COVID-19, this means staying in the facility or at home for 14 days.

**Isolation** is used for people with COVID-19 symptoms or who have tested positive for the virus. Being in isolation means being separated from other people, ideally in a medically facility where you can receive clinical care. If isolation in a medical facility is not possible and you are not in a high risk group of developing severe disease, isolation can take place at home. If you have symptoms, you should remain in isolation for at least 10 days plus an additional 3 days without symptoms. If you are infected and do not develop symptoms, you should remain in isolation for the time you test positive.



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### **COVID-19 vaccines**

- The first mass vaccination programme started in early December 2020 and the number of vaccination doses administered is updated on a daily basis at this website(<u>https://covid19.who.int/</u>). At least 13 different vaccines (across 4 platforms) have been administered. Campaigns have started in 206 economies.
- The Pfizer/BioNtech Comirnaty vaccine was listed for WHO Emergency Use Listing (EUL) on 31 December 2020. The SII/Covishield and AstraZeneca/AZD1222 vaccines (developed by AstraZeneca/Oxford and manufactured by the Serum Institute of India and SK Bio respectively) were given EUL on 16 February. The Janssen/Ad26.COV 2.S developed by Johnson & Johnson, was listed for EUL on 12 March 2021. The Moderna COVID-19 vaccine (mRNA 1273) was listed for EUL on 30 April 2021 and the Sinopharm COVID-19 vaccine was listed for EUL on 7 May 2021. The Sinopharm vaccine is produced by Beijing Bio-Institute of Biological Products Co Ltd, subsidiary of China National Biotec Group (CNBG).

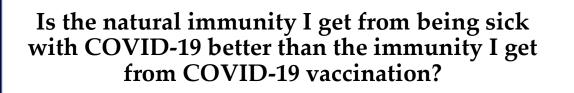
### Will COVID-19 vaccines provide long-term protection?

It's early to know the duration of protection of COVID-19 vaccines. Research is ongoing to answer this question. However, it's encouraging that available data suggest that most people who recover from COVID-19 develop an immune response that provides at least some period of protection against reinfection – although we're still learning how strong this protection is, and how long it lasts.

Dr. Latefa Dardas COVID-19

 The COVID-19 vaccines produce protection against the disease, as a result of developing an immune response to the SARS-Cov-2 virus. Developing immunity through vaccination means there is a reduced risk of developing the illness and its consequences. This immunity helps you fight the virus if exposed. Getting vaccinated may also protect people around you, because if you are protected from getting infected and from disease, you are less likely to infect someone else. This is particularly important to protect people at increased risk for severe illness from COVID-19, such as healthcare providers, older or elderly adults, and people with other medical conditions.

What are the benefits of getting vaccinated?



- NO. Getting a COVID-19 vaccination is a safer and more dependable way to build immunity to COVID-19 than getting sick with COVID-19.
- COVID-19 vaccination causes a more predictable immune response than infection with the virus that causes COVID-19. Getting a COVID-19 vaccine gives most people a high level of protection against COVID-19 and can provide added protection for people who already had COVID-19.

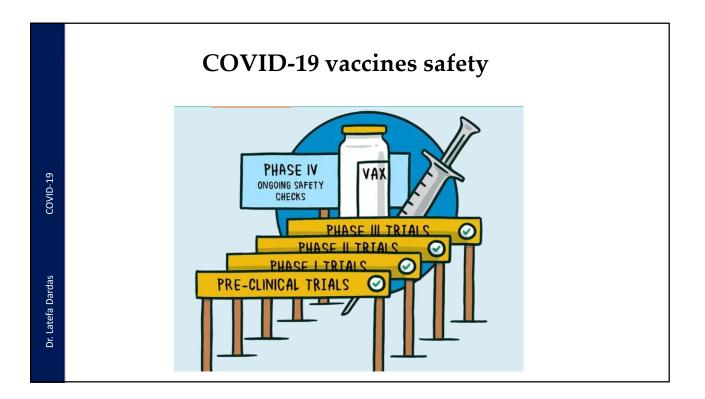
### Can a COVID-19 vaccine make me sick with COVID-19?

 NO. COVID-19 vaccines teach our immune systems how to recognize and fight the virus that causes COVID-19. Sometimes this process can cause symptoms, such as fever. These symptoms are normal and are signs that the body is building protection against the virus that causes COVID-19.

COVID-19

Dr. Latefa Dardas

 Because none of the authorized COVID-19 vaccines contain the live virus that causes COVID-19, the vaccine cannot make you sick with COVID-19.



### How do we know that COVID-19 vaccines are safe?

There are strict precautions in place to help ensure the safety of all COVID-19 vaccines. Before receiving validation from WHO and national regulatory agencies for emergency use, COVID-19 vaccines must undergo rigorous testing in clinical trials to prove that they meet internationally agreed benchmarks for safety and efficacy.

 Unprecedented scientific collaborations have allowed COVID-19 vaccine research, development, and authorizations to be completed in record time – to meet the urgent need for these vaccines while maintaining high safety standards. As with all vaccines, WHO and regulatory authorities will continuously monitor the use of COVID-19 vaccines to identify and respond to any safety issues that might arise. Through that process, we ascertain that they remain safe for use around the world.

### Under what circumstances should a COVID-19 vaccine be recalled?

- In rare situations where a serious adverse reaction is suspected to be related to the vaccine itself, the vaccine may be temporarily suspended from use while the situation is assessed. Investigations will take place to determine what exactly caused the event, and corrective measures will be put in place. WHO works closely with vaccine manufacturers, health officials, researchers, and other partners to monitor any safety concerns and potential side effects.
- Vaccine recalls or withdrawals due to safety issues are rare. Recalls are generally associated with problems identified during the monitoring of batches of vaccines through quality control systems, stability studies and reports from the field, including cold chain issues where some vaccines have not been stored at the right conditions and so are no longer safe or effective. In this case, people who have received a vaccine from that batch may need to be vaccinated again to ensure they are protected. This is why vaccines are so closely monitored – to ensure that any issues with their production, storage or use can be rapidly identified and resolved.

# What are the side effects of COVID-19 vaccines?

- Like with any vaccine, some people will experience mild to moderate side effects after being vaccinated against COVID-19. This is a normal sign that the body is developing protection. Side effects to COVID-19 vaccines include a fever, tiredness, headache, muscle ache, chills, diarrhoea and pain or redness at the injection site. Not everyone will experience side effects. Most side effects go away within a few days on their own. You can manage any side effects with rest, plenty of nonalcoholic liquids and taking medication to manage pain and fever, if needed.
- If you are worried that the side effects that you are experiencing are unusual, if the pain in the arm where you got the injection gets worse after 24 hours or your side effects don't go away in a few days, contact your healthcare provider for advice.
- More serious or long-lasting side effects to COVID-19 vaccines are possible but extremely rare. If you experience difficulty breathing, chest pain, confusion, loss of speech or mobility after your vaccine, contact your healthcare provider immediately. Vaccines are continually monitored for as long as they are in use to detect and respond to rare adverse events.

#### Does having side effects mean that the vaccine is working? What does having no side effects mean?

- The vaccine stimulates your immune system to protect you from the virus. This process can sometimes cause side effects like fever, chills or headache, but not everyone will experiences any side effect. The presence or magnitude of the reaction you may have vaccination does not predict or reflect your immune response to the vaccine.
- You do not have to have side effects in order to be protected.

#### Is it safe to mix-and-match different COVID-19 vaccines?

- It is safe for you to receive two different COVID-19 vaccines for your first and second dose. This is sometimes called mixing and matching vaccines, or a heterologous vaccine schedule. WHO considers two doses of any WHO EUL COVID-19 vaccines to be a complete primary series. See the full list of COVID-19 vaccines with WHO EUL here.
- By mixing and matching vaccines, countries are able to maximise vaccine impact in the event of constrained or limited supply.
- People over 60 who have received two doses of Sinovac and Sinopharm can also be given a third dose to help boost their immunity, once a high level of coverage of the priority groups has been achieved. SAGE has stated that Pfizer or AstraZeneca can be used for the third dose if the original vaccine is not available.
- Further trials are underway to understand more about mixed doses, which will inform any future changes to WHO's recommendations.

## Are mRNA vaccines safe? If they're based on new technology, how can we be sure?

 The COVID-19 mRNA vaccine technology has been rigorously assessed for safety, and clinical trials have shown that mRNA vaccines produce an immune response that has high efficacy against disease. mRNA vaccine technology has been studied for several decades, including in the contexts of Zika, rabies, and influenza vaccines. mRNA vaccines are not live virus vaccines and do not interfere with human DNA. COVID-19

### Do the COVID-19 Astra Zeneca and Johnson & Johnson/Janssen vaccines cause blood clots?

 Globally, COVID-19 vaccines such as AstraZeneca and Johnson &Johnson/Janssen have been used to protect millions of people. Data is available from both clinical trials and preliminary data from country surveillance programmes on their efficacy and safety. Some mild to moderate side effects such as fever, muscle and head aches, soreness around the injection site and tiredness are expected to affect some people after vaccination. These are a normal indications that the body is developing protection.

Dr. Latefa Dardas

 There have been reports of very rare but serious cases of blood clots accompanied by low platelet counts (known as thrombosis with thrombocytopenia syndrome (TTS)) occurring 3 to 30 days after vaccination with COVID-19 non-replicant adenovirus vector-based vaccines (such as the AstraZeneca and Janssen vaccines).

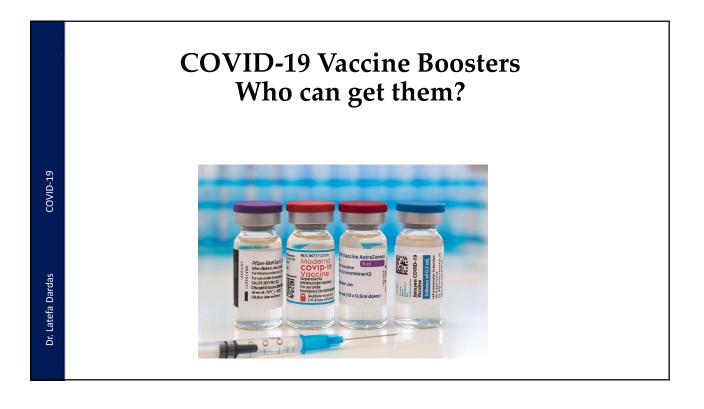
### Do the COVID-19 Astra Zeneca and Johnson & Johnson/Janssen vaccines cause blood clots?

 With the AstraZeneca vaccine, as of 15 July 2021, the data shows that these symptoms occur in about four to six people out of every million vaccinated (this figure varies based on age, sex and geographical location)[2]. Younger adults appear to be at higher risk than older adults. More research is underway to understand more about how people may be differently affected.

• With the Janssen vaccine, as of the 7 May 2021, the US Food and Drug Administration and the Centers for Disease Control and Prevention had reviewed 28 reports of TTS out of a total of more than eight million people vaccinated[3]. It is possible that that there a causal link between the vaccine and these symptoms, but more data is needed. COVID-19

Dr. Latefa Dardas

- Safety of COVID-19 vaccines for children
- The Pfizer vaccine is safe for use in children aged 5 years and above. For children in this age group, WHO recommends a reduced dosage of 10 µg (0.2 ml). Both Pfizer and Moderna are safe for use in children aged 12 and above using a dose of 0.3 ml and 0.5 ml respectively. However, while the availability of COVID-19 vaccines is limited, WHO recommends that countries should vaccinate children only when high vaccine coverage with two doses has been achieved in higher priority-use groups, as identified in the WHO Prioritization Roadmap. However, children with existing health conditions should be prioritised for vaccination at the same time as other high risk groups.
- Vaccine trials to determine whether other COVID-19 vaccines are safe for use in children are ongoing, and WHO recommendations will be updated when the evidence supports a change in the policy.
- Practicing the protective behaviours is still the best way to keep everyone, including children, safe from COVID-19, whether or not you have been vaccinated.



PRIMARY SERIES Who should get one covid-19 VACCINE booster:

Pfizer-BioNTech Everyone 12 years and older

#### Who can get a second booster:

Adults 50 years and older

#### When to get your booster:

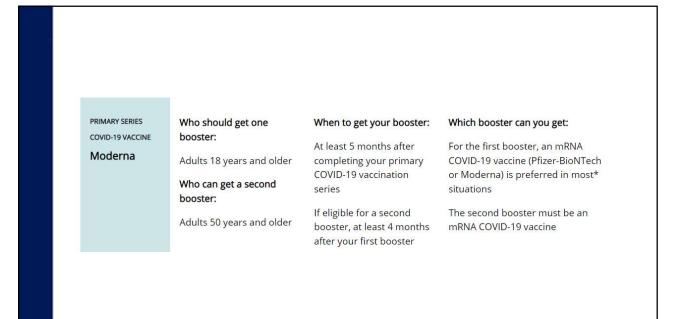
At least 5 months after completing your primary COVID-19 vaccination series

If eligible for a second booster, at least 4 months after your first booster

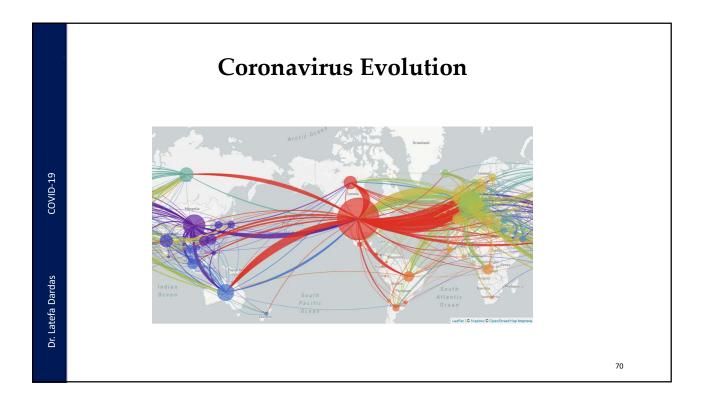
#### Which booster can you get:

- Adults 18 years and older should get an mRNA COVID-19 vaccine (Pfizer-BioNTech or Moderna) for the first booster in most\* situations
- The second booster must be an mRNA COVID-19 vaccine
- Teens 12–17 years old may only get a Pfizer-BioNTech COVID-19 vaccine booster

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PRIMARY SERIES COVID-19 VACCINE Johnson & Johnson's Janssen*	Who should get a booster: Adults 18 years and older Who can get a second booster: Anyone who received a	When to get your booster: At least 2 months after receiving your J&J/Janssen COVID-19 vaccination If eligible for a second booster, at least 4 months after your first booster	Which booster can you get: For the first booster, an mRNA COVID-19 vaccine (Pfizer-BioNTech or Moderna) is preferred in most* situations The second booster must be an mRNA COVID-19 vaccine
	J&J/Janssen COVID-19 vaccine for both their primary dose and booster Adults 50 years and older who first received a J&J/Janssen COVID-19 vaccine, regardless of what type of booster they received		



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## What does it mean to say a virus mutates or changes?

- When a virus replicates or makes copies of itself, it sometimes changes a little bit. These changes
  are called "mutations." A virus with one or several new mutations is referred to as a "variant" of
  the original virus.
- The more viruses circulate, the more they may change. These changes can occasionally result in a virus variant that is better adapted to its environment compared to the original virus. This process of changing and selection of successful variants is called "virus evolution."
- Some mutations can lead to changes in a virus's characteristics, such as altered transmission (for example, it may spread more easily) or severity (for example, it may cause more severe disease).

**COVID-19** 

Some viruses change quickly and others more slowly. SARS-CoV-2, the virus which causes COVID-19, tends to change more slowly than others such as HIV or influenza viruses. This could in part be explained by the virus's internal "proofreading mechanism" which can correct "mistakes" when it makes copies of itself. Scientists continue to study this mechanism to better understand how it works.

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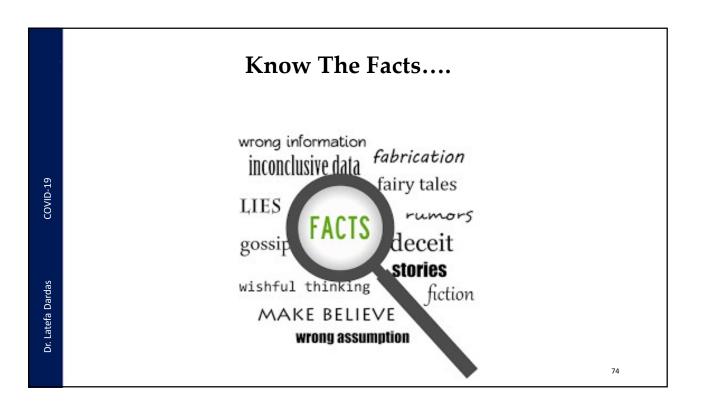
- Multiple variants of the virus that causes COVID-19 are circulating globally:
  - 1. The United Kingdom (UK) identified a variant called B.1.1.7 with a large number of mutations in the fall of 2020. This variant spreads more easily and quickly than other variants. In January 2021, experts in the UK reported that this variant may be associated with an increased risk of death compared to other variant viruses, but more studies are needed to confirm this finding. It has since been detected in many countries around the world.
  - 2. In South Africa, another variant called B.1.351 emerged independently of B.1.1.7. Originally detected in early October 2020, B.1.351 shares some mutations with B.1.1.7.
  - 3. In Brazil, a variant called P.1 emerged that was first identified in travelers from Brazil, who were tested during routine screening at an airport in Japan, in early January. This variant contains a set of additional mutations that may affect its ability to be recognized by antibodies.

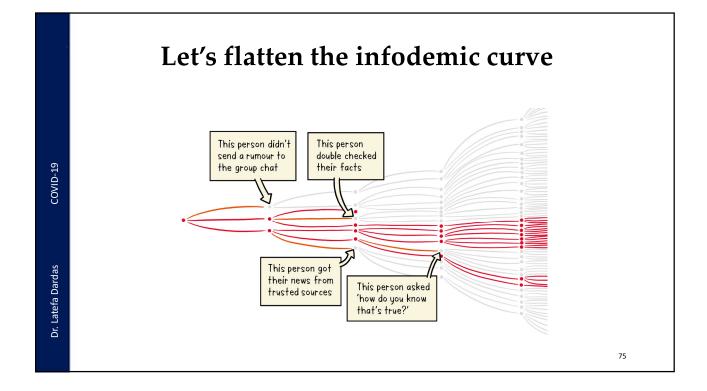
# Should I be concerned about SARS-CoV-2 changing?

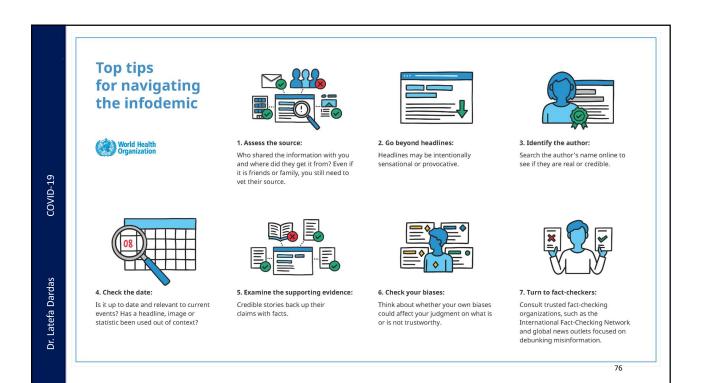
• It is normal for viruses to change, but it is still something scientists follow closely because there can be important implications. All viruses, including SARS-CoV-2, the virus that causes COVID-19, change over time. So far hundreds of variations of this virus have been identified worldwide. WHO and partners have been following them closely since January 2020.

Most changes have little to no impact on the virus' properties. However, depending on where
the changes are located in the virus's genetic material, they may affect the virus's properties,
such as transmission (for example, it may spread more easily) or severity (for example, it may
cause more severe disease).

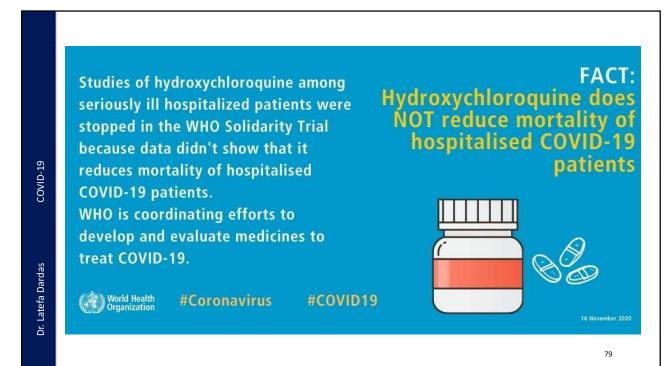
 WHO and its international network of experts, are monitoring changes to the virus so that if significant mutations are identified, WHO can report any modifications to interventions needed by countries and individuals to prevent the spread of that variant. The current strategies and measures recommended by WHO continue to work against virus variants identified since the start of the pandemic.

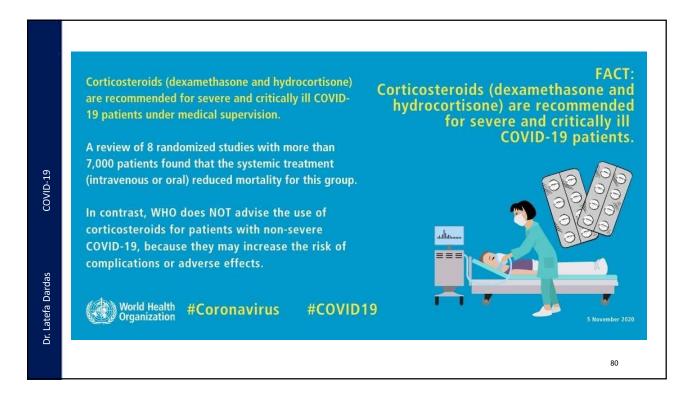












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## The COVID-19 virus does not transmit through water while swimming.

However, the virus spreads between people when someone has close contact with an infected person.

#### WHAT YOU CAN DO:

Avoid crowds and maintain at least a 1-metre distance from others, even when you are swimming or at swimming areas.

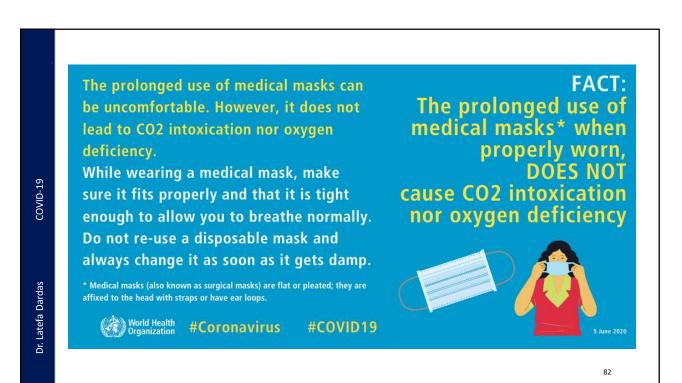
Wear a mask when you're not in the water and you can't stay distant. Clean your hands frequently, cover a cough or sneeze with a tissue or bent elbow, and stay home if you're unwell.

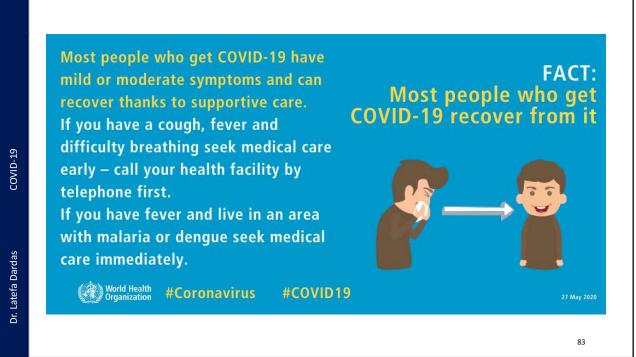
World Health #Coronavirus #COVID19

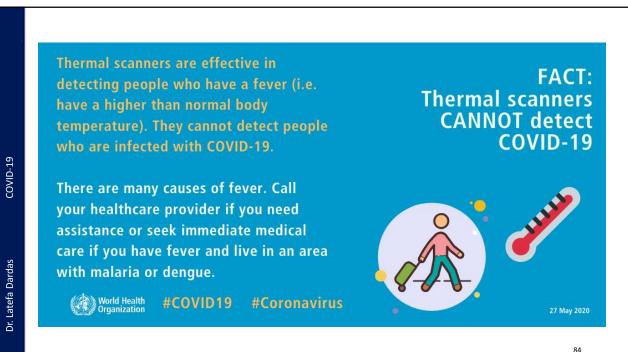
#### FACT: Water or swimming does not transmit the COVID-19 virus



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Do not under any circumstance spray or introduce bleach or any other disinfectant into your body. These substances can be poisonous if ingested and cause irritation and damage to your skin and eyes.

Bleach and disinfectant should be used carefully to disinfect surfaces only.

Remember to keep chlorine (bleach) and other disinfectants out of the reach of children.

( World Health Organization

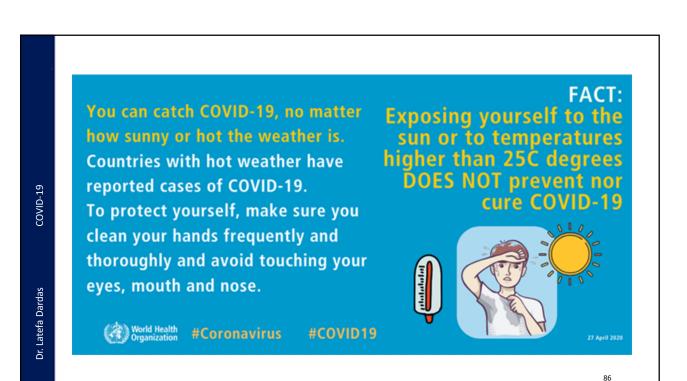
#COVID19 #coronavirus

#### FACT: Spraying or introducing bleach or another disinfectant into your body WILL NOT protect you against COVID-19 and can be dangerous



27 April 2020

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The most common symptoms of COVID-19 are dry cough, tiredness and fever. Some people may develop more severe forms of the disease, such as pneumonia. The best way to confirm if you have the virus producing COVID-19 disease is with a laboratory test. You cannot confirm it with this breathing exercise, which can even be dangerous.

> World Health Organization

### FACT:

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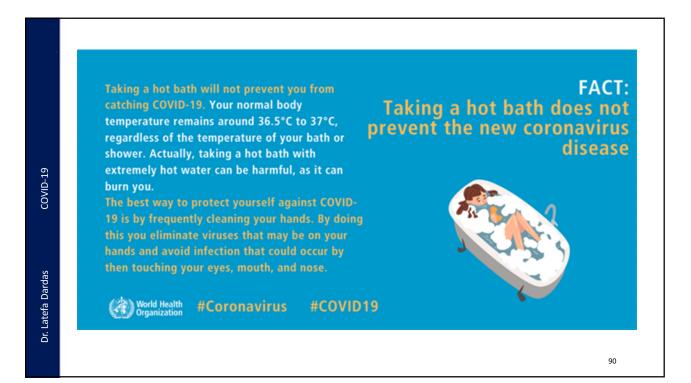
Being able to hold your breath for 10 seconds or more without coughing or feeling discomfort DOES NOT mean you are free from the coronavirus disease (COVID-19) or any other lung disease.

The COVID-19 virus can be transmitted in FACT: any climate, including areas with hot and COVID-19 can be humid weather. transmitted in areas with The best way to protect yourself against hot and humid climates COVID-19 is by maintaining physical distance of at least 1 metre from others and frequently cleaning your hands. By doing this you eliminate viruses that may be on your hands and avoid infection that could occur by then touching your eyes, mouth, and nose. **Vorld Health #Coronavirus #COVID19** 

#Coronavirus #COVID19

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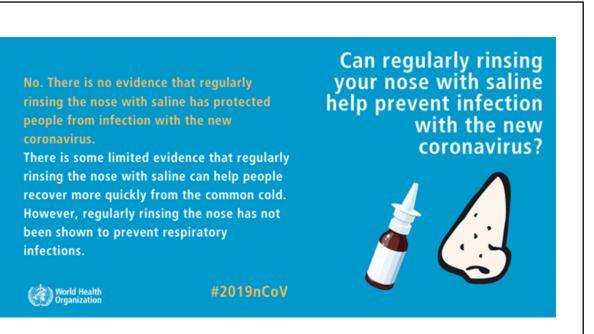


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FACT: To date there has been no information nor The new coronavirus evidence to suggest that the new coronavirus could be transmitted by mosquitoes. CANNOT The new coronavirus is a respiratory virus be transmitted through mosquito bites which spreads primarily through droplets generated when an infected person coughs or sneezes, or through droplets of saliva or discharge from the nose. To protect yourself, clean your hands frequently with an alcohol-based hand rub or wash them with soap and water. Also, avoid close contact with anyone who is coughing and sneezing. World Health #Coronavirus #COVID19



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Can eating garlic help prevent infection with the new coronavirus? Garlic is a healthy food that may have some antimicrobial properties. However, there COVID-19 is no evidence from the current outbreak that eating garlic has protected people from the new coronavirus (2019-nCoV) Dr. Latefa Dardas #2019nCoV 94



