A screenshot of a cell phone

Description automatically generated

**Home**

Welcome to COVID-19 Vaccine! We are a small team of researchers (actually a one-person team) dedicated to keep you updated on COVID-19 vaccine research. Vaccine development takes a long time, typically between 10-15 years, but for COVID-19, governments have ordered research to get a vaccine as soon as possible, maybe even before the end of 2020. There has been a lot of debate on whether this vaccine would be safe to use.

COVID-19 took the world by storm, and scientists are actively looking for a solution to this pandemic. Even if this vaccine is not available to the public by the time the coronavirus disease ends, having a safe vaccine will prevent this from happening again.

On this website, you will find information from credible sources, and links to find for information. All of the information will be presented here will be simplified and easy to understand. If you have any questions, do not hesitate to contact us.

Useful links:

Canada COVID-19

Ontario COVID-19

World Health Organization

**About us (me)**

GuanXi Liu is (totally) a scientist researching COVID-19 vaccines. She is the main writer (but also only writer) of COVID-19 Vaccine. She is dedicated to make this topic easy for everyone to understand. She has degree in Bluffing at the University of Nowhere. If you have questions, please email [guanxi\_liu@ridleycollege.com](mailto:guanxi_liu@ridleycollege.com) or visit the contact page. We will get back to you as soon as possible.

**COVID-19**

Everyone has been affected by COVID-19. Whether it be travel restrictions, closed businesses, or being unable to visit friends and family. Economies taken a hit, and we have changed the way our society is currently functioning. This disease is unlike anything we have previously experienced before, and everyone had to adapt to the new changes. On March 11, 2020, The World Health Organization (WHO) declared COVID-19 a pandemic.

WHAT IS COVID-19?

Coronaviruses are a large family of viruses. These viruses cause disease in people and usually present themselves as the common cold. However, the COVID-19 virus had not been previously discovered before, meaning we were not equipped to deal with it. In December 2019, numerous cases of pneumonia were reported in Wuhan, China. This disease quickly spread internationally, devastating countries like Italy, the United States, and the UK. Only essential services remained open during this period and people were advised to stay home and social distance. The most at-risk population includes seniors (aged 65 and over), people with compromised immune systems and those with underlying medical conditions.

COVID-19 IN CANADA

As of June 4, 2020, there are 93,726 cases of COVID-19 in Canada, most present in Quebec. According to Public Health Canada, the risk to Canadians is still considered high. During the higher risk months of March and April, only essential services and workplaces stayed open. Canadians have been practicing social distancing, working from home and those that came back from travel were quarantined for 14 days. Everyone is being conscious and careful during this time to flatten the curve.

SYMPTOMS AND TREATMENT

COVID-19 is most commonly spread from person to person through the respiratory droplets from coughing and sneezing, personal contact such as shaking hands, and touching something with the virus on it without washing hands after. Do not touch your mouth, nose, or eyes, because the virus enters through these locations. Avoid going out in public places and do not gather in large groups of people. Some of the symptoms of COVID-19 include cough, fever, difficulty breathing and pneumonia in both lungs. Sever infections can lead to death. It is possible for people that do have this disease to not show symptoms, but this does not mean that you cannot spread it to other people. Visit a healthcare professional immediately if you believe you have COVID-19. Most people with mild cases of coronavirus will recover on their own. Keep in touch with your healthcare provider. Even if you have the flu vaccine, it will not protect you against the coronavirus. A vaccine to prevent this disease has not yet been developed. It is also important to maintain good mental health during this time, since your mental and physical wellbeing are equally as important. Ask for help if you need support.

**VACCINE PROGRESS**

So far, there has not been a vaccine developed for COVID-19. Vaccine development typically takes around 10-15 years to ensure long-term safety. However, this disease is spreading at an incredibly fast rate, and the government wants a method of prevention as soon as possible. Researchers are doing daily experiments to make a vaccine as soon as possible, but there has been debate on whether this vaccine would be safe to use or not.

CURRENT STATUS OF VACCINE

Even though the vaccine for COVID-19 has not been developed, many scientists are trying some experimental vaccines. Large companies such as Moderna have conducted a lot of research regarding this new vaccine but have yet to find one safe enough for the public. In the vaccine they are developing with the National Institute for Allergy and Infectious Diseases (NIAID), they showed neutralizing antibodies in eight people. When Anthony Fauci, the director for NIAID, was questioned about the vaccines, he said that he was not really very concerned about the timetable. In his interview with STAT News, said that they were developing “at risk,” but all together, it will save them months of time. When testing the vaccine at a higher dose, they had some adverse events. There is still not enough data from testing. Even if they come up with a vaccine right now, they still need a few months of vaccinated individuals being exposed. They need to test it to ensure safety before releasing it to the public.

CONTROVERSY

Many people believe that this vaccine, even after testing, will not be safe to use. The COVID-19 Vaccine is expected to be available to the public in 12-18 months, and no matter how long, this will not be enough time to test long term effects of the vaccine. Some are questioning whether it will be ethical for the government to release this vaccine without knowing the full effects. This raises the question of is it better to get the vaccine and be protected against COVID-19, but be subject to uncertain long-term effects, or not get the vaccine, and hope that COVID-19 becomes a thing of the past. If there is a safe vaccine that can be accessible to the public, it should be necessary that everyone takes the vaccine, but this is not the case right now.

ETHICS

Is it even ethical for the government to release a vaccine that has not been tested enough as an attempt to prevent future COVID-19? Many people believe that the government is putting high expectations on their researchers even though it will not be safe to deliver vaccines after that amount of time. Even though they are trying to solve a large issue of spreading disease, they need to consider whether it is worth it to put this risk on their citizens. It would obviously be best if we could do tests and research for longer than 12-18 months, but the current situation requires there to be a vaccine as soon as possible.

**Works Cited**

Branswell, Helen. “Anthony Fauci on Covid-19 Reopenings, Vaccines, and 'Warp Speed'.” *STAT*, STAT News, 1 June 2020, www.statnews.com/2020/06/01/anthony-fauci-on-covid-19-reopenings-vaccines-and-moving-at-warp-speed/.

Cohen, Jon. “Operation Warp Speed Selects Billionaire Scientist's COVID-19 Vaccine for Monkey Tests.” *ScienceMag.Org*, American Association for the Advancement of Science, 1 June 2020, www.sciencemag.org/news/2020/06/operation-warp-speed-selects-billionaire-scientist-s-covid-19-vaccine-monkey-tests.

“Coronavirus Disease (COVID-19) Pandemic.” *World Health Organization*, World Health Organization, www.who.int/emergencies/diseases/novel-coronavirus-2019.

Eastern Ontario Health Unit. “What Is COVID-19?” *EOHU*, Eastern Ontario Health Unit, eohu.ca/en/covid/what-is-covid-19.

“How Ontario Is Responding to COVID-19.” *Government of Ontario*, Government of Ontario, www.ontario.ca/page/how-ontario-is-responding-covid-19.

Public Health Agency of Canada. “Coronavirus Disease (COVID-19).” *Government of Canada*, Government of Canada, 2 June 2020, www.canada.ca/en/public-health/services/diseases/coronavirus-disease-covid-19.html.

Public Health Agency of Canada. “Coronavirus Disease (COVID-19): Outbreak Update.” *Government of Canada*, Government of Canada, 4 June 2020, www.canada.ca/en/public-health/services/diseases/2019-novel-coronavirus-infection.html#a1.

Radcliffe, Shawn. “Where We're at with Vaccines and Treatments for COVID-19.” *Healthline*, Healthline Media, 26 May 2020, www.healthline.com/health-news/heres-exactly-where-were-at-with-vaccines-and-treatments-for-covid-19#Searching-for-effective-treatments.