

A Vaccine Voyage: Spilling the Tea Regarding the COVID-19 Vaccine Impact in Canada

Introduction

On March 11, 2020, the world changed as the World Health Organization declared COVID-19 a pandemic (Katella, 2021). The COVID-19 pandemic brought us stress, suffering isolation, and a serious case of boredom. Just when we were itching to ditch the new normal, we were introduced to a set of vaccines from different companies. However, once the vaccine was introduced, many became skeptical of its true purpose. The vaccine saga turned into a wild ride of controversy, theories, and global opinions. This blog seeks to dig into the true impacts of COVID-19 vaccines through adverse events, efficacy rates, searching for reputable providers, and more!

Current Significance

Although the topic is not as buzzworthy as it was during the peak of the pandemic, the topic is still very important to learn about to this day. Many tend to forget that the COVID-19 virus is still a global threat. From November 14, 2023, until November 21, 2023, there were 8629 new cases of the virus in Canada (Government of Canada, 2023e). The distribution of COVID-19 vaccines has become a glimmer of hope, promising to stop the spread of the virus, reduce illness, and restore our lives to normal. However, skepticism and misinformation persist, creating a narrative that requires clarity. Therefore, vaccine coverage and its implementation are key in understanding the truth behind the vaccine controversy. Understanding the real impact of these vaccines is crucial for individual treatment, prevention, social happiness and public health strategies (Mayo Clinic, 2021).

Relevant Research & Efforts

The COVID-19 vaccine impact in Canada requires a closer look through detailed research and amazing efforts. The vaccine uses tiny messenger RNA (genetic codes) to make a copy of protein found in COVID-19 (What you need, 2022). The proteins are known as antigens and they trigger the immune response system. A common worry is that the vaccine gives you an infection of the virus which is not true. It is important to know who is providing the vaccines in order to figure out if these companies are reputable. The Pfizer and Moderna vaccine coverage in Canada accounts for 96.6% of all Canadian citizen vaccines! But don't worry, the vaccines from these two companies are safe and work well. The data provided by Maragakis, L., & Kelen, G. D. shows they can prevent death by making your immune system stronger (Maragakis, L., & Kelen, G. D., 2022). Moreover, the Pfizer and Moderna vaccines use mRNA technology, which has been worked on for more than 15 years! The FDA has approved both companies, so you can

feel extra sure that these vaccines are safe. The AstraZeneca vaccine accounts for 3.4% of total citizens and follows similar protocols.

Original vaccines showed 90% positive results in adults (Government of Canada, 2023d). The Canadian government delved deep into the adverse impacts after immunization which was the key concern for many. They discovered 57436 people who experienced adverse effects after immunization (0.058%) (Government of Canada, 2023a). 46205 cases were not serious (0.047%) and 11231 cases were (0.011%). This signifies a very low chance of experiencing unpleasant situations after vaccination. The vaccines were not all given out at the same time. In fact, the doses of the vaccine were distributed at various times, ensuring that everyone had an opportunity to get vaccinated and prioritizing those who needed the vaccine first. Dose 1 until Dose 5 all had an orderly peak in terms of usage from May 22, 2021, until January 23, 2023 (Government of Canada, 2023b). This careful scheduling shows that Canada took safety seriously and wanted to make sure things were done without harm. Over 99.9% of elderly individuals in Canada received the COVID-19 vaccine due to their higher priority, with the percentage gradually decreasing as the age group became younger (Government of Canada, 2023c).

Why It Matters & What to Expect Going Forward

Readers should care about the true impact of COVID-19 vaccines to make informed choices about their own vaccination journey and contribute to protecting the community. Additionally, understanding the real impact of vaccines allows discussions about global vaccine distribution, provision, and the potential to end the pandemic. As emerging variants are being released and vaccination strategies from new companies such as Novavax are being developed, it is important to understand what to expect going forward (Stay up, 2023). Research on the COVID-19 vaccine is still an ongoing process that will continue to refine our understanding of the vaccines' long-term impact. This can help in understanding safety procedures and continue to set up strategies to reduce the spread of the virus.

Conclusion

In conclusion, past and ongoing research helps us learn more about how COVID-19 vaccines work. Canada's careful way of distributing reputable vaccines, minimal adverse impacts, and effectiveness rates prove that vaccines are beneficial to Canada.

Data Visualization

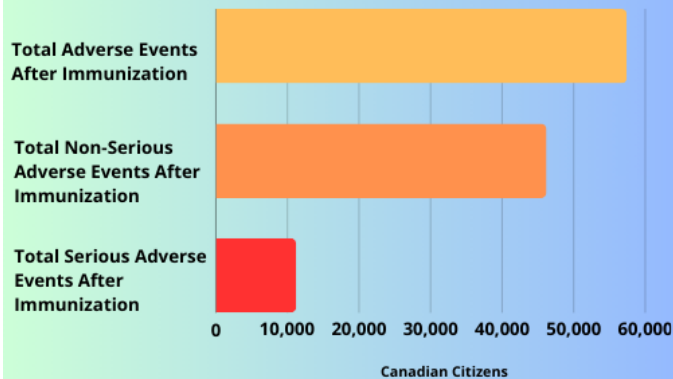


COVID-19 VACCINATION IN CANADA: DOSES, EFFECTS, POPULATION & PROVIDERS



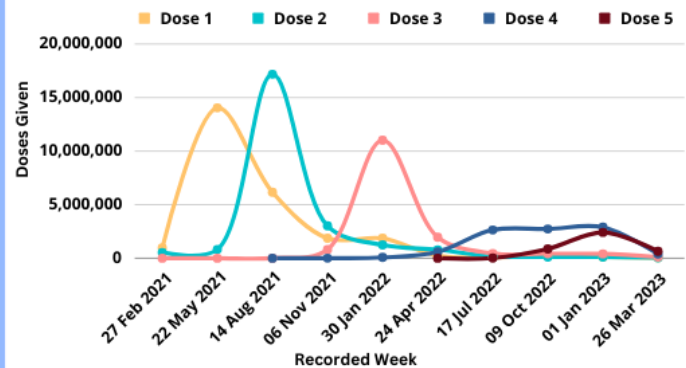
(Government of Canada, 2023a)

Adverse Events After Immunization



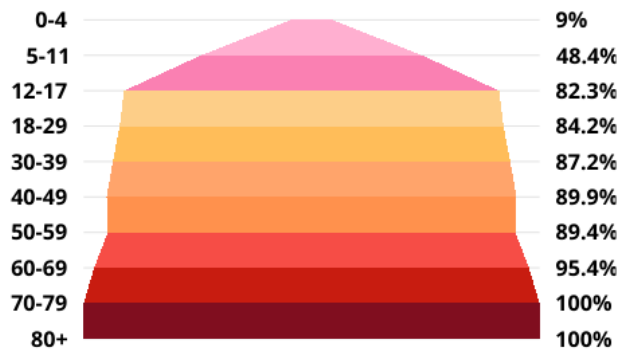
(Government of Canada, 2023b)

Doses administered in Canada every 12 weeks by dose number



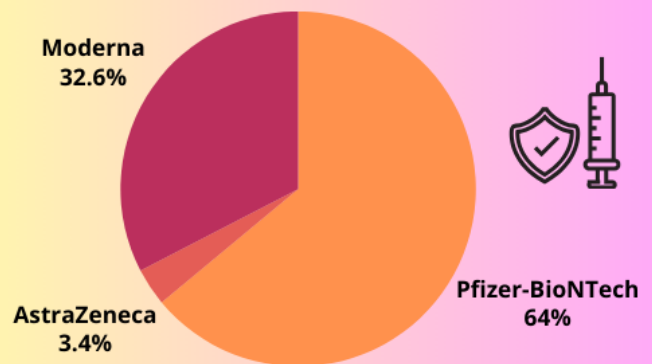
(Government of Canada, 2023c)

Vaccine Doses in Different Age Ranges



(COVID-19 Vaccination Tracker, 2021)

Who is Supplying the Vaccines?



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