

# COVID-19 Vaccine: Building Trust and Confidence

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### COVID-19

- A COVID-19 infection can cause damage to the lungs, heart or brain.
- Some people who have had a COVID-19 infection will have symptoms and experience long term effects months after the infection is gone.
- Long term effects may include persistent fatigue, shortness of breath, cough, joint pain, pounding heartbeat, trouble concentrating, skin rash or hair loss.



### Vaccines Can Help

Vaccines used in Canada are safe and they work.



Vaccines help to protect us from serious illness



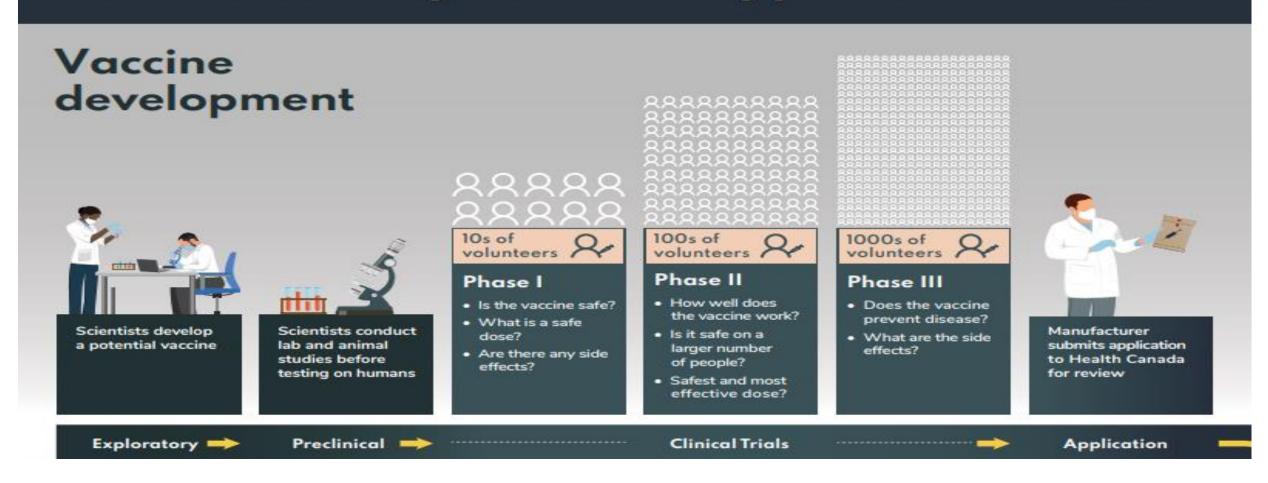
### 1.3 Billion Doses Given Worldwide

#### As of May 11, 2021:

- 1.3 billion doses of COVID-19 vaccines have been given in 174 countries around the world.
- 16.5 million doses have been given in Canada.
- 1.5 million doses have been given in Toronto, which is approximately 50% of all eligible residents in the City.



### Vaccine development and approval in Canada



Source: Government of Canada. Vaccine development and approval in Canada. Dec 08 2020.





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### **COVID-19 Vaccines Are Safe For ...**



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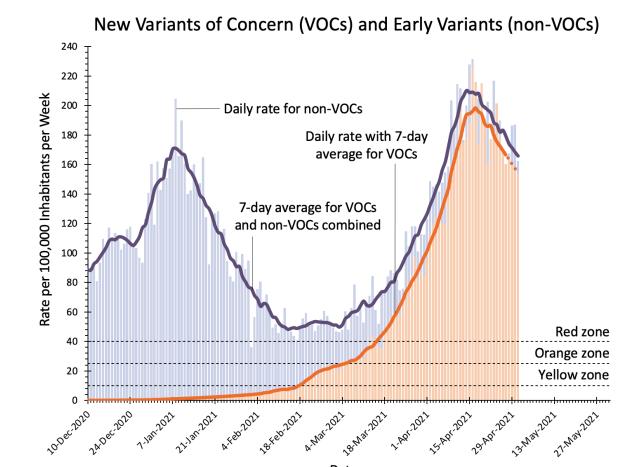


- People with health conditions such as heart disease, asthma, diabetes, high blood pressure, hepatitis B or C and HIV
- It is also safe for people on blood thinners, with a weakened immune system, auto-immune disorder and anytime during pregnancy.



### Variants of Concern (VOC)

- Different variants are now in Ontario and Toronto.
- They spread infection more easily and cause more serious disease
- Public health measures and vaccines work against variants





### Vaccines and the Variants

### VACCINES OFFER PROTECTION AGAINST NEW VARIANTS









Vaccines have been used successfully in countries with variants

Vaccines can provide protection even when viruses change

Protection offered by vaccines is important as variants can spread more easily

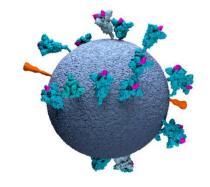
Booster doses may be used in the future for specific variants

toronto.ca/COVID19

TORONTO Public Health

### How the COVID-19 vaccines work...

The COVID-19 vaccines works by telling our body to make "spike proteins", a protein specifically found on the surface of the coronavirus. These proteins will stimulate our body to start making antibodies against COVID-19.



- Pfizer BioNTech and Moderna use mRNA technology.
  - mRNA research and technology has been around for over 10 years.
  - Breaks down and is removed from body in days
- AstraZeneca/COVISHIELD and Janssen (Johnson & Johnson) use a viral vector.
  - A cold virus that is inactivated (adenovirus), has instructions to make the spike protein in it.



### What Is In The Vaccines?

contain eggs, gelatin,

preservatives, latex

or antibiotics



lipids, salts, sugars

and buffers

toronto.ca/COVID19

instructions to have your

body make antibodies

**TORONTO** Public Health

can give you COVID-19

### What If I Have Allergies?

#### Pfizer-BioNTech & Moderna: Polyethylene glycol, also found in:

- laxatives or products for colonoscopy, cough syrup, ultrasound gel
- cosmetics, skin creams,
- shampoos, toothpastes, hair products, contact lenses & solutions,
- some fast foods, baked goods

#### Moderna vaccine: **Tromethamine**, also found in:

contrast media for CT scans / MRI, some medications, skin creams

#### AstraZeneca/COVISHIELD & Janssen vaccines: Polysorbate 80, also found in:

- processed food, pickles, ice cream, whipped cream, gelatin, shortening, chewing gum,
- cosmetic, soaps, creams, body butter, bath gels, shampoo, mouthwash,
- eye drops, vitamin supplements, heart medication, contraceptives



### Will The Vaccine Make Me Sick?



### Vaccine side effects

- Most vaccine side effects are mild and similar to the flu shot, lasting 1 to 3 days:
  - pain, redness & swelling where the needle is given
  - headache, feeling tired, muscle ache, joint pain
  - fever, chills, nausea or vomiting
  - swelling & tenderness under the armpit / enlarged lymph nodes
- Side effects are more common after the 2<sup>nd</sup> dose
- Stay at the clinic for 15 minutes after vaccination, so you can be monitored, and treated, for any reactions



### **Blood Clots and Low Blood Platelet Count**

- There have been reports of this rare event after receiving either the AstraZeneca (1/50,000) or Johnson & Johnson vaccine (1/500,000)
- Blood clots can occur in the brain, arms/legs or abdomen
- With proper medical care, can be treated
- Vaccination has been paused as of May 12, 2021.
- Watch for any side effects following vaccination on days 4 to 28. Call 911 if you have:
  - Trouble breathing, chest pain, leg or abdominal pain that does not go away
  - Sudden severe headache, blurred vision, skin bruising or spots



### Vaccines, Pregnancy & Breastfeeding

### **COVID-19 Variants Can Be Serious In Pregnancy**

- Book an appointment at any time in pregnancy
- Vaccination during pregnancy and breastfeeding can protect the pregnant person and baby.
- Over 110,000 pregnant women have been involved in COVID-19 safety registry in the United States. Some have delivered with no safety concerns identified.



### Vaccines, Pregnancy & Breastfeeding

#### **GET THE COVID-19 VACCINE IF YOU ARE PREGNANT**







COVID-19 vaccines can protect you from serious illness



Antibodies can transfer to the baby, protecting them as well



COVID-19 vaccines are safe in pregnancy & are being used around the world



Talk to your health care provider if you have questions

### **Vaccines and Children**

- Pfizer vaccine approved for use in children 12+ in Canada on May 5, 2021.
- Vaccination of children 12-17, in Ontario, will begin once vaccine supply allows - dates and details to come!
- Vaccination is not mandatory.
- The best way to protect children is:
  - to keep following public health guidelines, and
  - for adults to be vaccinated as soon as they can

### I Already Had COVID-19...

### Do I need the vaccine, if I already had COVID-19?

A: Yes. Based on the latest scientific evidence, natural immunity from COVID-19 may not last long. It is possible to get re-infected after a previous COVID-19 infection.

Learn more: toronto.ca/COVID19







### Which COVID-19 Vaccine Is Best For Me?

### WHICH COVID-19 VACCINE IS BETTER FOR ME?



All the approved vaccines are safe and effective



All the vaccines will protect you from serious illness



Get vaccinated as soon as you are eligible



Vaccinating more people will reduce the spread of COVID-19



### **Phase 2 of Vaccine Rollout**

Eligibility group	Week of April 26	Week of May 3	Week of May 10	Week of May 17	Week of May 24
Provincial age band	April 30: 55 and older	50 and older	40 and older	30 and older	18 and older
Hotspot age band	April 27: 45 and older	18 and older	-	-	-
Health conditions	Highest-risk health conditions continues	<u>High-risk health</u> <u>conditions</u>	At-risk health conditions	-	-
Cannot work from home	April 29: licensed childcare workers	Group 1	Group 2	-	-

Source: <a href="https://covid-19.ontario.ca/ontarios-covid-19-vaccination-plan">https://covid-19.ontario.ca/ontarios-covid-19-vaccination-plan</a>



### 4 Vaccines Approved In Canada







For 12-18 years & older, including seniors

Real world effectiveness

2 dose schedule, except for Janssen

Name	Technology	Available in Ontario	Dose schedule
Pfizer BioNTech	mRNA	12 years +	2 doses
Moderna	mRNA	18 years +	2 doses
AstraZeneca/ COVISHIELD	viral vector	1 <sup>st</sup> dose paused until further notice	2 doses
Janssen	viral vector	30 years +	1 dose



# Pfizer/BioNTech Vaccine in Highest Supply for May/June in Ontario

- Ontario is expecting an average of 800,000 Pfizer doses per week for the month of May. Also some Moderna.
- 140,000,000 doses of Pfizer vaccine administered in the USA so far. No safety signals.
- Works well, even with variants.
- Current vaccine being offered at the City of Toronto's mass immunization clinics, and most other clinics.



### **Second Dose Extended But Still Necessary**

### WHY IS THE 2ND VACCINE DOSE EXTENDED TO 4 MONTHS?



Data shows the first dose provides strong protection



Extending the 2<sup>nd</sup> dose allows us to vaccinate more people



Vaccinating more people will reduce the spread of COVID-19



Vaccines can provide protection against COVID-19 variants

toronto.ca/COVID19



Protection is 80% after 1 dose of mRNA vaccine and 90% after the 2<sup>nd</sup> dose.

Ref - CDC: https://www.cdc.gov/mmwr/volumes/70/wr/mm7013e3.htm?s\_cid=mm7013e3



### **Community Immunity**





Herd immunity protects our community from infection when many people are vaccinated.



It is another way to protect others by reducing COVID-19 spread.



It also protects people who can't get vaccinated like newborn babies.

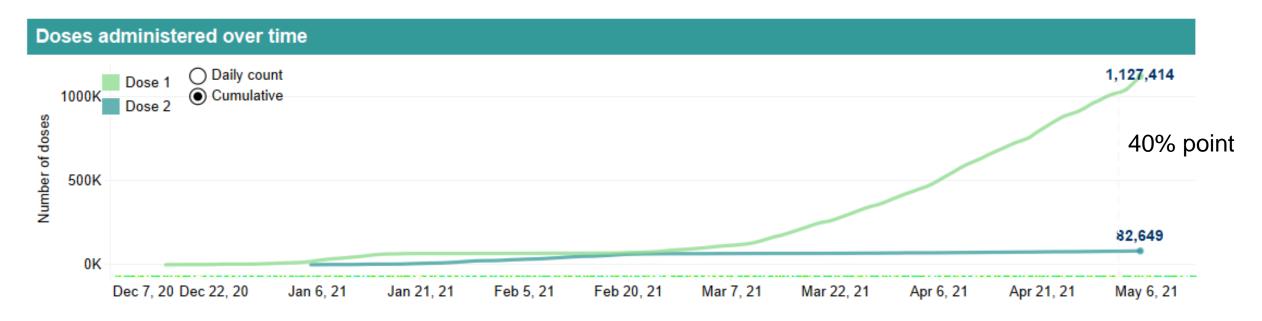


Until we have herd immunity, we need to wear our mask & keep a distance from people we don't live with.



## Goal of 40% of Toronto residents 18+ reached ahead of schedule. Next goal is 65% by May 31

Provincial goal to vaccinate 40% of adult residents was achieved on May 1st



At the current rates of vaccination, we are on track to exceed the 65% goal by end of May



### Ways To Get Vaccinated

Red & white or no health card?
Register using telephone #

City clinics <a href="https://covid-">https://covid-</a>

19.ontario.ca/book-

vaccine/

Or call: 1-888-999-6488

(TTY 1-866-797-0007)

**Hospital clinics** 

www.vaccineto.ca

Or call: 1-888-385-

1910

Visit <a href="https://covid-19.ontario.ca/book-vaccine/">https://covid-19.ontario.ca/book-vaccine/</a> to find a **pharmacy**Or call your local pharmacy / website

Mobile & pop-up clinics

Host organizations will promote clinics directly to the target community









Interactive map available online:

toronto.ca/covid19vaccinemap

### **Assistance Getting To Vaccine Clinics**

- For those with no other means to get to their vaccination appointment
  - 1. Toronto Ride 416-481-5250; www.torontoride.ca
  - 2. iRide 1-844-474-3301; <a href="www.circleofcare.com/vaccinerides">www.circleofcare.com/vaccinerides</a>;
  - 3. Scarborough Ride 416 736-9372; <a href="www.schcontario.ca/schc-scarborough-ride--transportation--hemodialysis.html">www.schcontario.ca/schc-scarborough-ride--transportation--hemodialysis.html</a>
  - 4. Uber Canada
  - 5. TTC

Vouchers distributed through a network of partner community agencies

More information: <a href="https://www.toronto.ca/home/covid-19/covid-19-protect-yourself-others/covid-19-vaccines/covid-19-how-to-get-vaccinated/?accordion=transportation-to-clinics">https://www.toronto.ca/home/covid-19/covid-19-protect-yourself-others/covid-19-vaccines/covid-19-protect-yourself-others/covid-19-vaccines/covid-19-how-to-get-vaccinated/?accordion=transportation-to-clinics</a>



# RESIDENTS WITHOUT OHIP CARDS



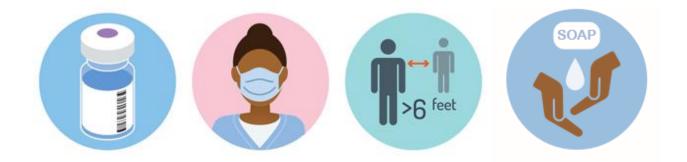
Residents without an OHIP card may use other forms of identification to book a COVID-19 vaccination appointment through agency partners.





### **Public Health Measures**

Vaccines are **one** of many tools we have to fight the COVID-19 pandemic. It will take time before we have enough vaccine to get everyone vaccinated.



For now, we still need to wear a mask, keep our distance and wash our hands frequently.



### **Don't Spread Misinformation**

#### **DON'T PLAY**

### THE TELEPHONE GAME

STOP THE SPREAD OF COVID-19 MISINFORMATION



### **More Than A Disease**



### You Are Not Alone

### You are not alone. Support is available.

Call 211 if you are having a hard time. Through 211 anyone be connected to free mental health supports, including including kids, seniors, racialized, Indigenous, Black and LGBTQ2S communities.

Language interpretation is available if you don't speak English.



### Be Part Of Something Greater

Be part of something greater. Your shot protects others too!



Protected together.



### **Toronto Public Health COVID-19 Hotline**

**Have questions?** 

### Call Toronto Public Health

416-338-7600

8:30 am to 8:00 pm

Interpreter service is available in many languages.

TTY 416-392-0658

More information about COVID-19 & vaccines: toronto.ca/covid19



### Questions?

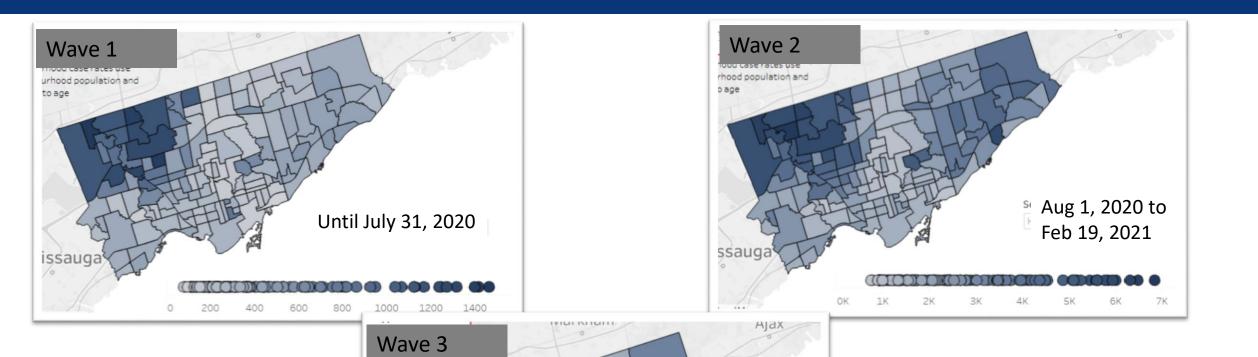




### Supplemental Slides



### Different wave, same inequitable distribution



Feb 20, 2021

onwards

1000 1500 2000 2500 3000 3500 4000 4500

\*Excludes LTC/RH residents
Based on episode date, as of April 29, 2021

COVID-19 case rates per 100,000 across Toronto neighbourhoods, by Pandemic wave



### **Hot Spot Communities Postal Codes (Toronto)**

<b>North York West</b>	<b>North York Central</b>	Scarborough South	<b>Scarborough North</b>
M3J	M2J	M1B	M1S
M3K	M2M	M1C	M1T
M3L	M2R	M1E	M1V
M3M	M3A	M1G	M1W
M3N	M3C	M1H	
M6B	МЗН	M1J	
M6L	M4A	M1K	East Toronto
M6M		M1M	M1L
M9L	<b>North Toronto</b>	M1P	M4H
M9M	M5N	M1R	
M9N	M6A	M1X	
M9P			North Etobicoke Malton
	Mid-East Toronto	South Etobicoke	West Woodbridge
<b>West Toronto</b>	M4X	M9A	M9R
M6K	M5A	M9B	M9V
M6N	M5B	M9C	M9W
M8V			

Source: https://assets.documentcloud.org/documents/20586240/20210406\_technical-briefing-final-eng.pdf



### Mass immunization clinic locations



- North Toronto Memorial Community Centre (200 Eglinton Avenue West)
- Mitchell Field Community Centre (89 Church Avenue)
- The Hangar (75 Carl Hall Road)
- Metro Toronto Convention Centre (255 Front Street West)
- Scarborough Town Centre (300 Borough Drive)
- Carmine Stefano Community Centre (3100 Weston Road)
- Toronto Congress Centre (650 Dixon Road)
- Malvern Community Recreation Centre (30 Sewells Road)
- Cloverdale Mall (250 The East Mall)

Interactive map available online:

toronto.ca/covid19vaccinemap

### Mental Health Support

#### Mental Health Support during COVID-19

It's okay not to feel okay. Many people may feel sad, worried, scared, confused or angry during COVID-19. These are normal and common responses to unexpected or stressful situations.



Stay connected. Play a virtual game, check in on a neighbour, have a video conference.



Be active & take care of yourself. Excercise, eat well, get enough sleep.



Take time to engage virtually or by phone with friends, family or loved ones.



Learn something new. Try a new hobby or take an online course.



Help someone else. Doing good can feel good.



Reach out for help. Talk to someone you trust or seek professional support.

# TOGETHER, WE CAN GET OUT OF THE 3RD WAVE



Take care of your physical & mental wellbeing.



Stay home except for essential reasons & exercise.



Gather only with members of your household.



Keep your distance, wear your mask, wash your hands.



Get the COVID-19 vaccine when it is available to you.



### How vaccines were developed so fast?

- Scientists & researchers around the world sharing data
- Building on existing research & technology
- Large scale funding allowed for multiple testing and large clinical trials
- Over 280 vaccine products were tested
- All vaccines approved by Health Canada still had to meet all safety, efficacy and quality standards

### **Vaccine ingredients**

Pfizer-BioNTech	Moderna	AstraZeneca / COVISHIELD	Janssen
<ul><li>active ingredient: mRNA</li></ul>	<ul><li>active ingredient: mRNA</li></ul>	<ul> <li>active ingredient:</li> <li>ChAdOx1-S recombinant</li> </ul>	<ul> <li>active ingredient:</li> <li>Ad26.COV2.S recombinant</li> </ul>
<ul><li>lipids, cholesterol</li><li>polyethylene glycol [PEG-2000]</li></ul>	<ul><li>lipids, cholesterol</li><li>polyethylene glycol [PEG-2000]</li></ul>	<ul> <li>amino acid: L-Histidine,</li> <li>L-Histidine hydrochloride</li> <li>monohydrate</li> <li>emulsifier: polysorbate 80</li> </ul>	<ul> <li>emulsifier: 2- hydroxypropyl-β- cyclodextrin, polysorbate- 80</li> </ul>
<ul> <li>salts: potassium chloride, monobasic potassium phosphate, sodium chloride, dibasic sodium phosphate dehydrate</li> <li>sugars: sucrose</li> </ul>	<ul> <li>salts: acetic acid, sodium acetate,</li> <li>sugars: sucrose</li> <li>buffers: tromethamin, tromethamin hydrocholoride</li> </ul>	<ul> <li>salts: sodium chloride, disodium edetate dihydrate (EDTA), magnesium chloride hexahydrate</li> <li>sugars: sucrose</li> <li>alcohol: ethanol</li> </ul>	<ul> <li>buffers: citric acid monohydrate, hydrochloric acid, sodium hydroxide, trisodium citrate dehydrate</li> <li>salts: sodium chloride</li> <li>alcohol: ethanol</li> </ul>



## What to expect after receiving your 1st dose of the COVID-19 vaccine





You may experience mild side effects that go away in 1-3 days



It takes 2 weeks after each dose for the vaccine to take effect



The clinic where you received your 1st dose will make your 2nd dose appointment



Keep your distance, wear a mask and wash your hands until more people are vaccinated



# Need help getting to a city-run clinic for your vaccination appointment?



If you cannot drive yourself or take transit, ask family or friends



If ride sharing, sit in the back seat with the windows open & wear a mask



If you cannot access or afford transportation you may be eligible for supports



Plan ahead - find more information, maps and pictures of city-run clinics at toronto.ca/COVID19