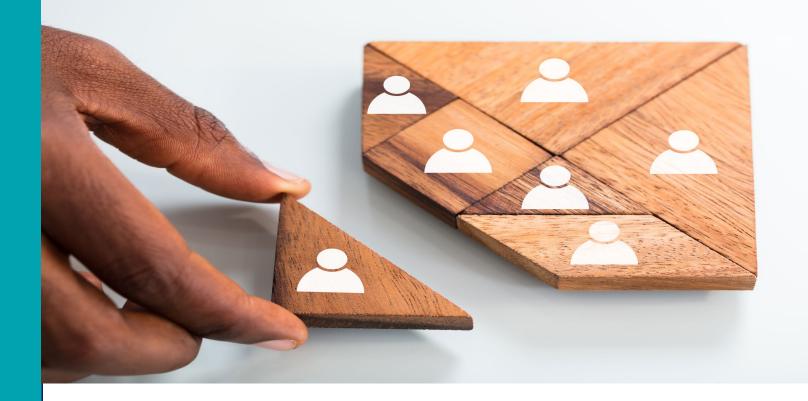
COVID-19 Community of Practice for Ontario Family Physicians

# October 8, 2021

Dr. Allison McGeer Dr. Jeff Kwong Dr. David Kaplan Dr. Liz Muggah



# Changing the Way We Work

Flu shots, managing ILI, COVID vaccine boosters, and more





# Flu shots, managing ILI, COVID vaccine boosters, and more

Moderator: Dr. Tara Kiran

Fidani Chair, Improvement and Innovation

Department of Family and Community Medicine, University of Toronto

#### Panelists:

- Dr. Allison McGeer, Toronto, ON
- Dr. Jeff Kwong, Toronto, ON
- Dr. David Kaplan, Toronto, ON
- Dr. Liz Muggah, Ottawa, ON

This one-credit-per-hour Group Learning program has been certified by the College of Family Physicians of Canada and the Ontario Chapter for up to 1 Mainpro+ credits.

The COVID-19 Community of Practice for Ontario Family Physician includes a series of planned webinars. Each session is worth 1 Mainpro+ credits, for up to a total of 26 credits.

# Land Acknowledgement

We acknowledge that the lands on which we are hosting this meeting include the traditional territories of many nations.

The OCFP and DFCM recognize that the many injustices experienced by the Indigenous Peoples of what we now call Canada continue to affect their health and well-being. The OCFP and DFCM respect that Indigenous people have rich cultural and traditional practices that have been known to improve health outcomes.

I invite all of us to reflect on the territories you are calling in from as we commit ourselves to gaining knowledge; forging a new, culturally safe relationship; and contributing to reconciliation. healthydebate

Subscribe











Sep 30, 2021 by Suzanne Shoush

On this Orange Shirt Day, don't nitpick the facts. Accept the outrage and anger.

2 Comments

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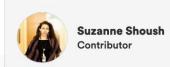








**AUTHORS** 



To make donations please consider:

- Toronto Council Fire
- Call Auntie Network, Seventh Generation Midwives of Toronto
- Toronto Indigenous Harm Reduction
- Thunder Women's Healing Lodge
- · Native Women's Cultural Centre
- Nameres
- Auduzhe Mino Nesewinong
- Well Living House

# Changing the way we work

#### A community of practice for family physicians during COVID-19

At the conclusion of this <u>series</u> participants will be able to:

- Identify the current best practices for delivery of primary care within the context of COVID-19 and how to incorporate into practice.
- Describe point-of-care resources and tools available to guide decision making and plan of care.
- Connect with a community of family physicians to identify practical solutions for their primary care practice under current conditions.

#### **Disclosure of Financial Support**

This CPD program has received in-kind support from the Ontario College of Family Physicians and the Department of Family and Community Medicine, University of Toronto in the form of logistical and promotional support.

#### **Potential for conflict(s) of interest:**

N/A

#### **Mitigating Potential Bias**

- The Scientific Planning Committee has full control over the choice of topics/speakers.
- Content has been developed according to the standards and expectations of the Mainpro+ certification program.
- The program content was reviewed by a three-member national/scientific planning committee.

Planning Committee: Dr. Tara Kiran, Patricia O'Brien (DCFM), Susan Taylor (OCFP) and Mina Viscardi-Johnson (OCFP), Liz Muggah (OCFP)

#### **Previous webinars & related resources:**

https://www.dfcm.utoronto.ca/covid-19-community-practice/past-sessions



**Dr. Allison McGeer – Panelist**Infectious Disease Specialist, Mount Sinai Hospital



Dr. Jeff Kwong – Panelist
Twitter: @DrJeffKwong
Epidemiologist, Family Physician, Toronto Western Family Health Team



**Dr. David Kaplan – Panelist**Twitter: @davidkaplanmd

Family Physician, North York Family Health Team and Chief, Clinical Quality, Ontario Health - Quality



Dr. Liz Muggah — Co-Host
Twitter: @OCFP\_President
OCFP President, Family Physician, Bruyère Family Health Team

# **Speaker Disclosure**

- Faculty Name: Dr. Allison McGeer
- Relationships with financial sponsors: Novavax, Medicago, Sanofi-Pasteur, GSK, Merck
  - Grants/Research Support: Sanofi-Pasteur, Pfizer
  - Speakers Bureau/Honoraria: Moderna, Pfizer, AstraZeneca, Novavax, Medicago, Sanofi-Pasteur, GSK, Merck
  - Others: N/A
- Faculty Name: Dr. Jeff Kwong
- Relationships with financial sponsors: ICES; Public Health Ontario; DFCM, University of Toronto;
  - Grants/Research Support: CIHR; Health Canada; US Centres for Disease Control and Prevention
  - Speakers Bureau/Honoraria: Ontario College of Family Physicians
  - Others: N/A
- Faculty Name: **Dr. David Kaplan**
- Relationships with financial sponsors:
  - Grants/Research Support: N/A
  - Speakers Bureau/Honoraria: Ontario College of Family Physicians
  - Others: Ontario Health (employee)

# **Speaker Disclosure**

- Faculty Name: Dr. Liz Muggah
- Relationships with financial sponsors:
  - Grants/Research Support: N/A
  - Speakers Bureau/Honoraria: Ontario College of Family Physicians
  - Others: N/A
- Faculty Name: **Dr. Tara Kiran**
- Relationships with financial sponsors:
  - Grants/Research Support: St. Michael's Hospital, University of Toronto, Health Quality Ontario, Canadian Institute for Health Research, Toronto Central LHIN, Toronto Central Regional Cancer Program, Gilead Sciences Inc.
  - Speakers Bureau/Honoraria: Ontario College of Family Physicians, Ontario Medical Association, Doctors of BC, Nova Scotia Health Authority, Osgoode Hall Law School, Centre for Quality Improvement and Patient Safety
  - Others: N/A

# Where are we from (outside the GTA)?

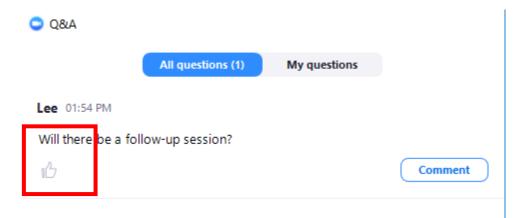


# **How to Participate**

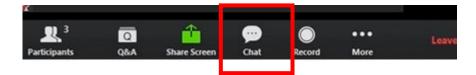
• All questions should be asked using the Q&A function at the bottom of your screen.



• Press the thumbs up button to upvote another guests questions. Upvote a question if you want to ask a similar question or want to see a guest's question go to the top and catch the panels attention.



Please use the chat box for networking purposes only.





**Dr. Allison McGeer – Panelist**Infectious Disease Specialist, Mount Sinai Hospital



Dr. Jeff Kwong – Panelist
Twitter: @DrJeffKwong
Epidemiologist, Family Physician, Toronto Western Family Health Team

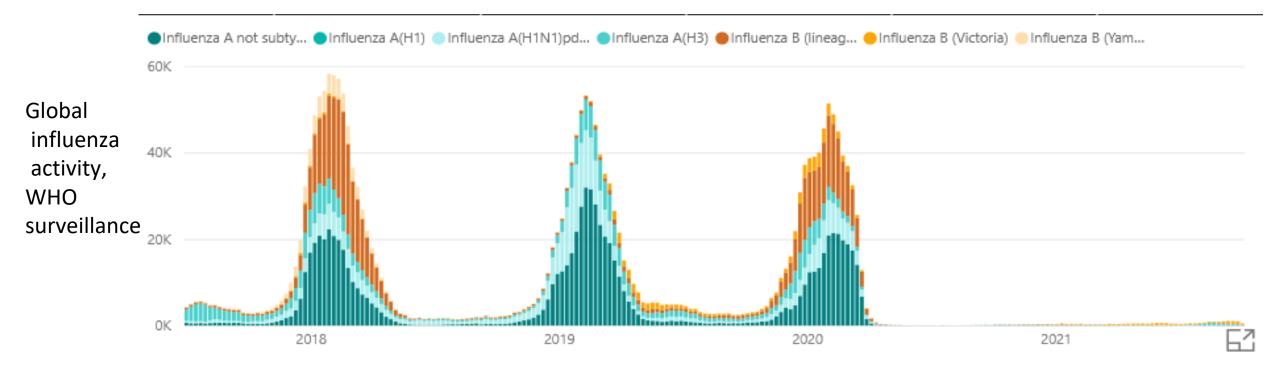


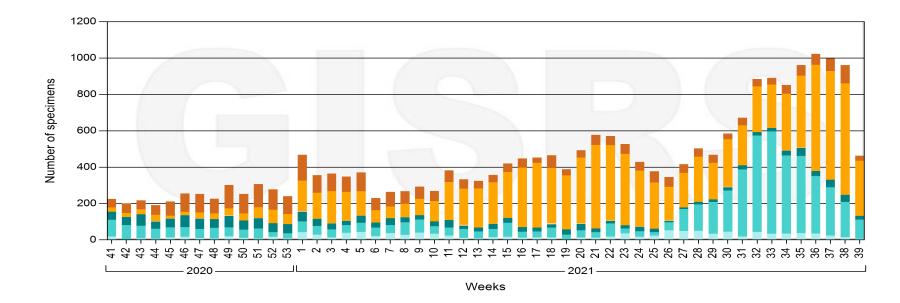
**Dr. David Kaplan – Panelist**Twitter: @davidkaplanmd

Family Physician, North York Family Health Team and Chief, Clinical Quality, Ontario Health - Quality

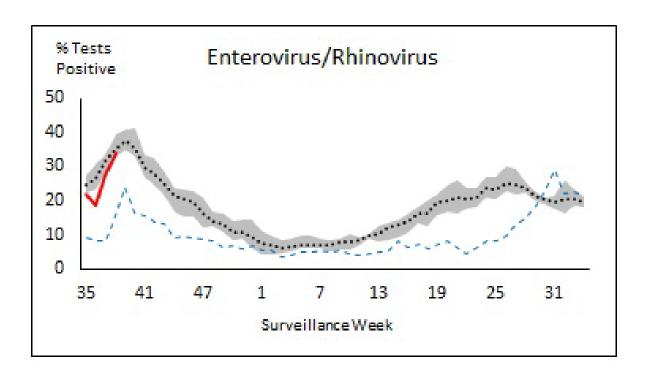


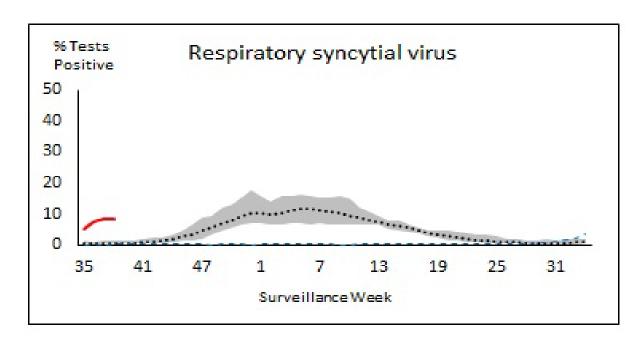
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Twitter: @OCFP\_President
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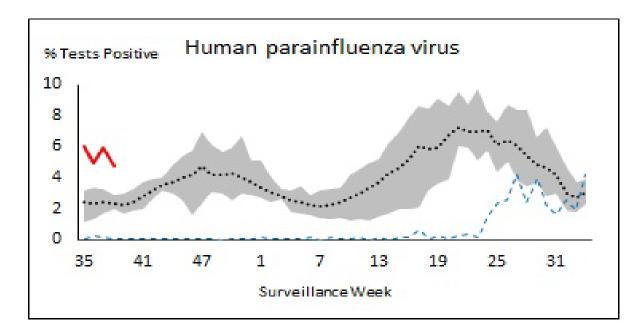


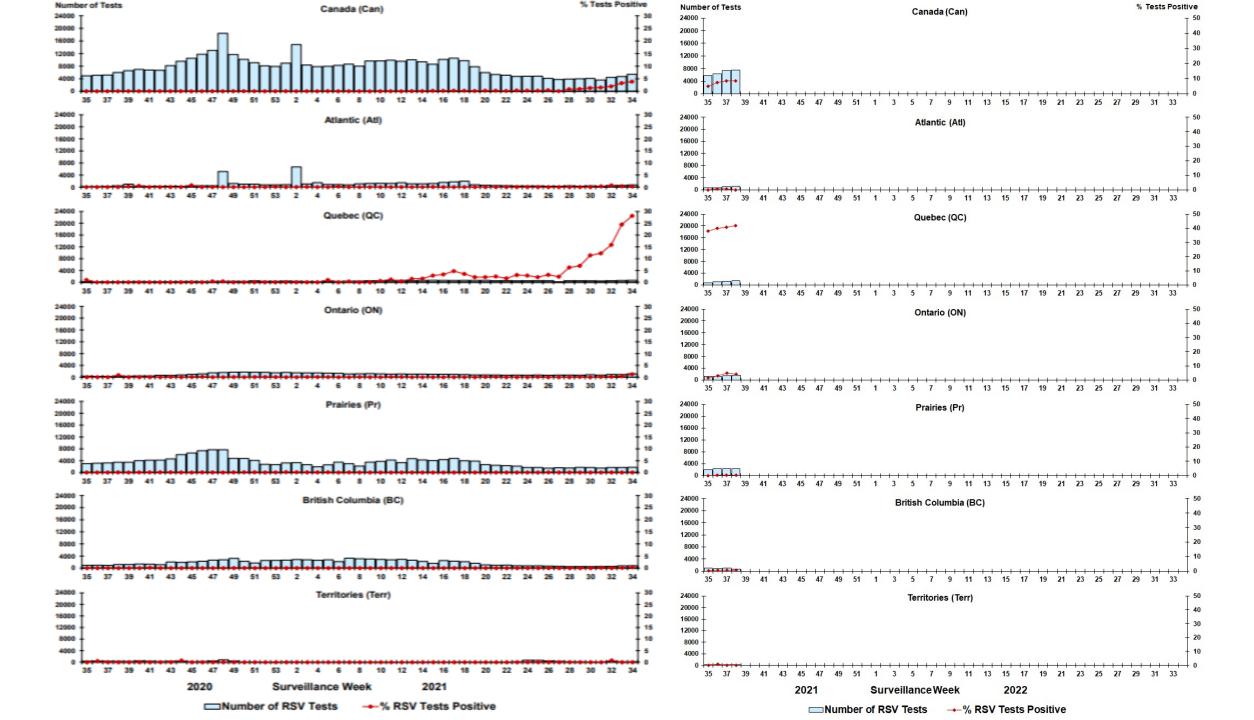


#### Other Respiratory Virus Activity in Canada









## Influenza Vaccine Composition for Northern Hemisphere, 2021

2020-21 Northern  Hemisphere  Egg-based vaccines	2020-21 Northern  Hemisphere  Cell- based vaccines	2021-22 Northern Hemisphere Egg-based vaccines	2021-22 Northern  Hemisphere  Cell- based vaccines
A/Guangdong- Maonan/SWL1536/2019 (H1N1)pdm09	A/Hawaii/70/ 2019 (H1N1)pdm09	A/Victoria/2570/ 2019 (H1N1)pdm09	A/Wisconsin/588/ 2019 (H1N1)pdm09
A/Hong-Kong/2671/ 2019 (H3N2)	A/Hong Kong/45/ 2019 (H3N2)	A/Cambodia/e0826360/ 2020 (H3N2)	A/Cambodia/e0826360/ 2020 (H3N2)
B/Washington/02/2019 (B/Victoria lineage)	B/Washington/02/2019 (B/Victoria lineage)	B/Washington/02/2019 (B/Victoria lineage)	B/Washington/02/2019 (B/Victoria lineage)
B/Phuket/3073/2013 (B/Yamagata lineage)	B/Phuket/3073/2013 (B/Yamagata lineage)	B/Phuket/3073/2013 (B/Yamagata lineage)	B/Phuket/3073/2013 (B/Yamagata lineage)

### **Ontario UIIP Vaccines for 2021-22**

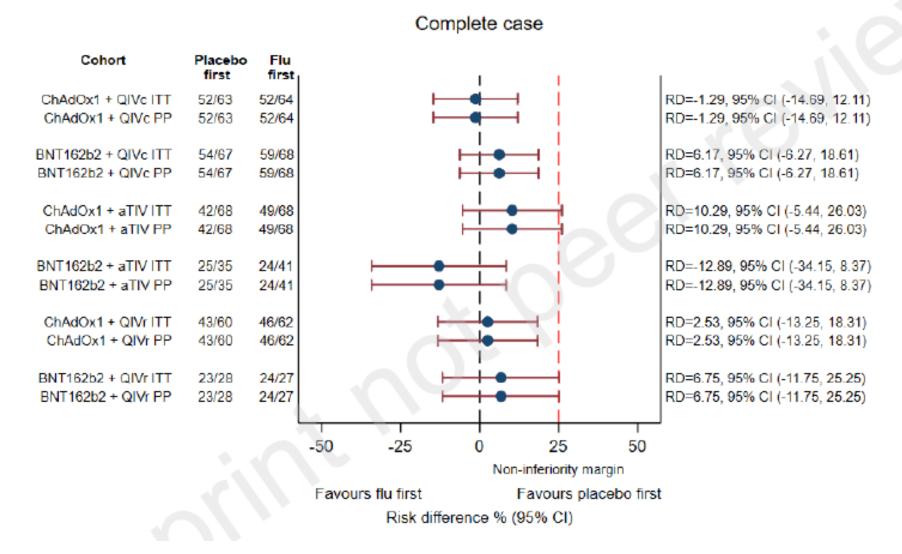
Age	Type of Product	Product Name			
6 mos - 1 yr	Standard-dose quadrivalent (QIV)	FluLaval Tetra Fluzone® Quadrivalent			
2 yrs to 4 yrs	Standard-dose quadrivalent (QIV)	FluLaval Tetra Fluzone® Quadrivalent Flucelvax® Quad			
5 to 64 years	Standard-dose quadrivalent (QIV)	FluLaval Tetra Fluzone® Quadrivalent Flucelvax® Quad Afluria® Tetra			
65 years +	High-dose quadrivalent (HD-QIV) Adjuvanted trivalent (TIVadj) Standard-dose quadrivalent (QIV)	Fluzone® High-Dose Quadrivalent  Fluad ® Trivalent  Any of the four standard-dose QIV			

#### New NACI recommendation re concomitant vaccines

- NACI recommends that COVID-19 vaccines may be given concomitantly with, or at any time before or after, other vaccines\*. (Discretionary NACI Recommendation)
  - \* including live, non-live, adjuvanted, or unadjuvanted vaccines

 NACI has concluded that a precautionary approach is now no longer necessary and recommends that COVID-19 vaccines may be concomitantly with (i.e. same day), or any time before, non-COVID-19 vaccines (including live, non-live, adjuvanted, or unadjuvanted).

# ComFluCOV

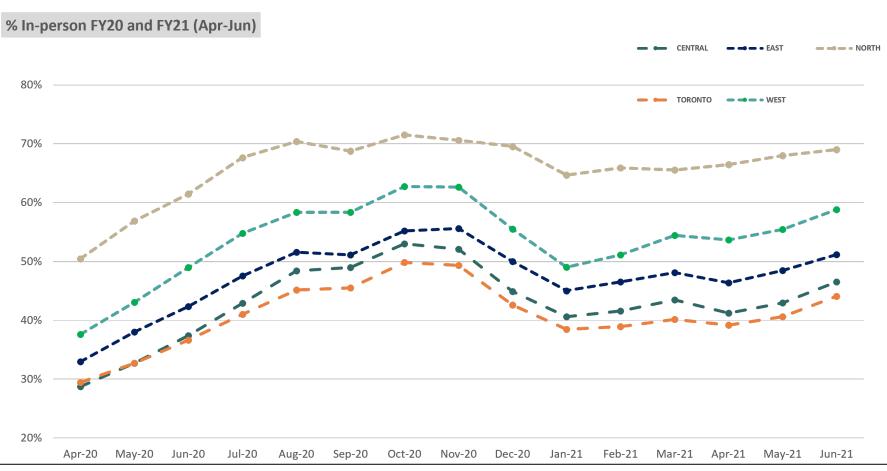


# COVID, Flu, What to do?

DR. DAVID M. KAPLAN MD MSC CCFP FCFP VICE PRESIDENT, QUALITY CLINICAL INSTITUTES AND QUALITY PROGRAMS

ASSOCIATE PROFESSOR, FAMILY & COMMUNITY MEDICINE JOINT CENTRE FOR BIOETHICS TEMERTY FACULTY OF MEDICINE, UNIVERSITY OF TORONTO

### Monthly trend in percent in-person by region



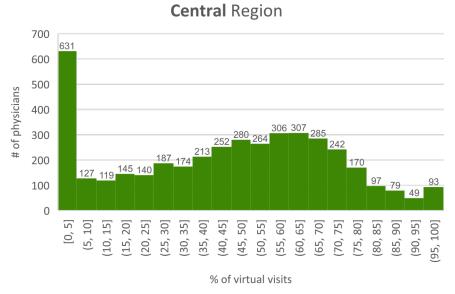
<sup>•</sup> The North consistently had the highest proportion of in-person visits while Central and Toronto have had the lowest proportion of in-person visits, generally less than 50% of total visits.

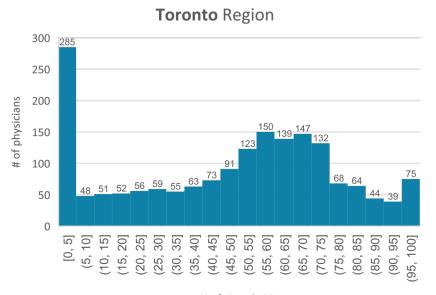
<sup>\*</sup> Preliminary results based on incomplete data.

# Thank-you for all you have done and continue to do

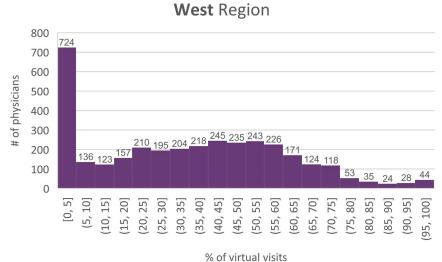
#### Distribution of GP virtual visit volumes across regions (Jan-June 2021)

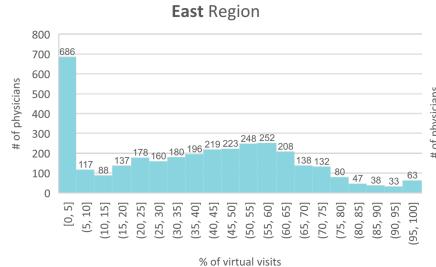
**Quintiles by % virtual** 

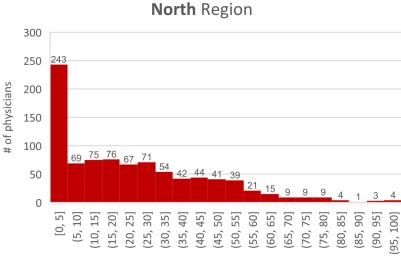




% of virtual visits







% of virtual visits

### **Primary Care Role in COVID Response and Recovery**

- 1. Increase volume of in-person care
- 2. Resume/continue non-COVID care activity
- 3. Manage influenza-like illness

Where local need and capacity within the primary care practice exist, *an additional priority may include* COVID testing, assessment, and vaccinations (in collaboration with public health and Ontario Health regions)

#### Influenza-like Illness

- CDC definition for ILI is fever (temperature of 37.8C [100F] or greater) and a cough and/or a sore throat without a known cause other than influenza.
- PPE, Test Kits and Rapid Test can be ordered online
  - Critical PPE, Swab Kit and Rapid Test: Intake Form

### **Reminders about Symptomatic Testing**

**COVID-19 Provincial Testing Guidance Update** 

PHO - Specimen Types for COVID-19 testing by Patient Characteristic

# Reminders about Symptomatic Testing in the Community (outpatients)

Serology should NOT be used for screening and diagnosis of acute COVID-19 infection, determining immune status, vaccination status.

Antigen POCT should NOT be used to test for COVID-19 infection in symptomatic individuals, individuals with known contact with a COVID-19 case or in outbreaks.

Anyone presenting with at least one symptom or sign should be **considered** for COVID-19 molecular testing. Clinicians should continue to use their clinical judgment during patient assessment and in deciding whether to order testing, in consideration of local epidemiology and exposure risks.

### **Adult ILI guidance – to Emergency Department**

- Patients who are experiencing at least one symptom of COVID-19 and have any of the following symptoms of severe illness should be directed to the nearest emergency department:
  - Severe difficulty breathing (struggling for each breath, can only speak in single words)
  - Severe chest pain (constant tightness or crushing sensation)
  - Altered level of consciousness, drowsiness

#### **Pediatric ILI guidance – to Emergency Department**

- Children who should be directed to the emergency department include:
  - Infants under 3 months of age with fever or trouble breathing or who appear unwell
  - Children and infants over 3 months of age with any of the following:
    - Fever longer than 7 days, or immune compromised with a fever
    - Fast breathing or trouble breathing
    - Bluish skin colour
    - Not drinking enough fluids
    - Not waking up or not interacting
    - Being so irritable that the child does not want to be held

Table 1 – ILI Patient Assessment Pathways for Primary Care

PRACTICE READINESS	ACCESS TO ASSESSMENT CENTRES					
Practice readiness may include physical plant size, practice resources, infrastructure, personal protective equipment, hours of operation, ability to electronically submit results for rapid molecular COVID-19 tests, and established pathways for delivery to labs for lab-based PCR tests.	Limited access to COVID AC in community	Access to COVID AC in community	Access to ILI AC in community			
LOW  1 or 2 providers working in a small footprint with limited ability to implement IPAC standards and limited ability to coordinate the transport of swabs to labs.	Consider seeing patients for COVID swabbing in office during designated	Consider directing patient to COVID AC;				
MEDIUM 3 to 8 co-located providers working in an office with a larger footprint, the resources to implement IPAC standards, and established lab delivery pathways.	hours when not seeing other non-COVID patients	with follow-up care provided by primary care provider after negative test	If appropriate and available, direct patient to ILI AC; with note back to primary care provider via Health Report			
HIGH  More than 8 co-located providers, with or without allied health support, in a large footprint that would allow dedicated space on a different floor or in a distinct area for patients with ILI symptoms, and established lab delivery pathways.	Consider seeing patients for COVID swabbing in office during designated hours when not seeing other non-COVID patients; consider being a referral site for smaller and solo providers in your area	Collaborate with local COVID AC to provide COVID testing and assessment of other ILI conditions, prescribe meds and provide follow-up support; consider becoming a regional ILI hub	Manager (HRM)			

COVID-19, COLD & FLU/ILI Resources in Toronto Region - October 7, 2021

Outlined below are resources available to support COVID-19 assessment and testing, as well as Cold, Flu and Influenza-like illness (ILI) assessments.

Sub-region	Site Name	COVID Assessment & Testing	ILI Assessment	Age Restrictions	Location	Hours of Operation	Booking Appointment
North West Toronto	Humber River Hospital – Finch (COVID Assessment Centre)	✓	✓	6 months and older	2111 Finch Ave. W, North York	Mon-Fri: 11 am to 7 pm; Saturday, Sunday & holidays, 8am to 4pm	Online Booking: Humber River Hospital website Telephone: 416-747-5474
	Humber River Hospital – Church Site (Child & Family Cold, Flu & COVID Assessment)	✓	✓	17 years and younger	200 Church St., North York	Mon-Fri: 9 am to 5 pm	Online Booking: Humber River Hospital website Telephone: 416-243-4333
North York Toronto	North York General Hospital  – Branson Site (Cough, Cold & COVID Clinic)	✓	✓		555 Finch Ave. West, North York	Mon-Fri: 8 am to 8 pm	Online Booking: North York General website Telephone: 416-635-2509
North Toronto	Sunnybrook Health Sciences Centre (COVID Assessment Centre)	✓		12 months and older	Vaughan Estate on Sunnybrook's Bayview Campus, 80 Armistice Dr.	Sunday to Thursday, 9 am to 12:30 pm & 1 pm – 5pm	Online Booking: Sunnybrook Health Sciences Centre website Telephone: 416-480-4559
East Toronto	Michael Garron Hospital (COVID Assessment Centre & Pediatric Cold, Flu & COVID Assessment)	✓	✓		825 Coxwell Ave.	7 days a week, 8am to 8 pm	Online Booking: Michael Garron website Telephone: 416-469-6858
	Scarborough Health Network  – General Campus (COVID  Assessment Centre)	✓		6 months and older	3050 Lawrence Ave. E., Scarborough	Mon-Sat: 8:00am to 6:00pm	Online Booking: SHN Website Telephone: 416-495-2601
	Scarborough Health Network  – General Campus (Kids  After Hours Clinic)	✓	✓	Paediatric	3050 Lawrence Ave. E., Scarborough	Mon-Fri: 5 pm to 8:30 pm Weekends & Holidays: 10 am to 1:30 pm	Telephone: 416-438-2911 ext. 3415
Downtown	UHN Toronto Western (COVID Assessment Centre)	<b>✓</b>		12 months and older	347 Bathurst St.	Mon-Fri: 7:30 am to 3:30pm; and Sat & Sun, 10 am to 6pm	Online Booking: UHN website
Toronto	Women's College Hospital (COVID Assessment Centre)	✓		None	76 Grenville St.	Mon-Fri: 10:15 am to 5:30 pm	Online Booking: Women's College Telephone: 416-800-1945
West Toronto	Unity Health, St. Joseph's Health Centre (COVID Assessment Centre)	✓		12 months and older	30 The Queensway	7 days a week, 8 am to 4 pm	Online Booking: Unity Health website Telephone: 416-530-6720
West Toronto	Unity Health, St. Joseph's Health Centre (Just for Kids Clinic)	✓	✓	17 years and younger	30 The Queensway	Mon-Fri: 10 am to 8pm; Saturday to Sunday, 10 am to 2 pm	Online Booking: Just for Kids Clinic website Telephone: 416-530-6720

For a comprehensive list of Assessment Centres across Ontario, please see the Ministry's website at <u>COVID-19 Assessment Centre Locations</u>



COVID, Cold and Flu Care Clinic	Location
Barrie and Community Family Medicine Clinic COVID-19, Cold and Flu	829 Big Bay Point Rd D13, Barrie, ON L4M 4S6
Queen Square FHT COVID-19 Cold and Flu Clinic	11692 Hurontario St, Brampton, ON L7A 1K5
Caledon Centre for Recreation and Wellness	14111 Regional Road 50 North, Bolton, ON L7E 2V
Dufferin-Caledon COVID-19 Cold and Flu Clinic	1 Elizabeth St, Orangeville, ON L9W 7N7
Mississauga Health Cough and Flu Clinic	120-2695 N Sheridan Way, Mississauga, ON L5K 2N6
Couchiching COVID-19 Clinic	Kiwanis Building 170 Colborne St W Orillia, ON L3V 2Z3

Additionally, you can locate Assessment Centre locations in your own communities here: <a href="https://covid-19.ontario.ca/assessment-centre-locations">https://covid-19.ontario.ca/assessment-centre-locations</a>

# Pfizer RCT

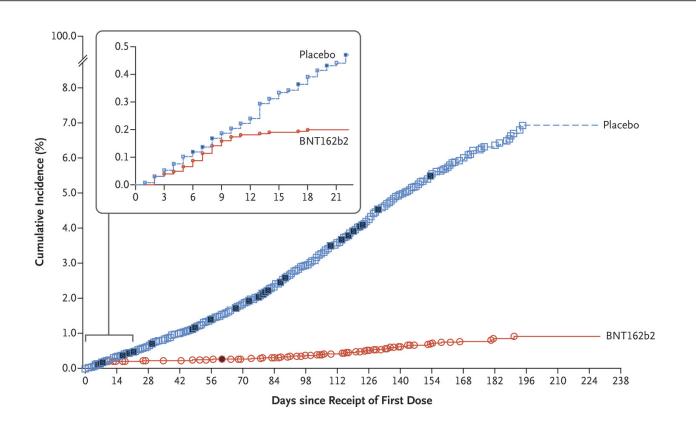
The NEW ENGLAND JOURNAL of MEDICINE

#### ORIGINAL ARTICLE

#### Safety and Efficacy of the BNT162b2 mRNA Covid-19 Vaccine through 6 Months

S.J. Thomas, E.D. Moreira, Jr., N. Kitchin, J. Absalon, A. Gurtman, S. Lockhart, J.L. Perez, G. Pérez Marc, F.P. Polack, C. Zerbini, R. Bailey, K.A. Swanson, X. Xu, S. Roychoudhury, K. Koury, S. Bouguermouh, W.V. Kalina, D. Cooper, R.W. Frenck, Jr., L.L. Hammitt, Ö. Türeci, H. Nell, A. Schaefer, S. Ünal, Q. Yang, P. Liberator, D.B. Tresnan, S. Mather, P.R. Dormitzer, U. Şahin, W.C. Gruber, and K.U. Jansen, for the C4591001 Clinical Trial Group\*

#### ABSTRACT



Efficacy End Point		(N=23,040)			(N=23,037)		Vaccine Efficacy
	No. of cases	Surveillance time	No. at risk	No. of cases	Surveillance time	No. at risk	
		1000 person-γr			1000 person-үr		% (95% CI)
Overall: first occurrence of Covid-19 after receipt of first dose	131	8.412	22,505	1034	8.124	22,434	87.8 (85.3 to 89.9)
After receipt of first dose up to receipt of second dose	46	1.339	22,505	110	1.331	22,434	58.4 (40.8 to 71.2)
<11 Days after receipt of first dose	41	0.677	22,505	50	0.675	22,434	18.2 (-26.1 to 47.3)
≥11 Days after receipt of first dose up to receipt of second dos	e 5	0.662	22,399	60	0.656	22,369	91.7 (79.6 to 97.4)
After receipt of second dose to <7 days after	3	0.424	22,163	35	0.422	22,057	91.5 (72.9 to 98.3)
≥7 Days after receipt of second dose	82	6.649	22,132	889	6.371	22,001	91.2 (88.9 to 93.0)
≥7 Days after receipt of second dose to <2 mo after	12	2.923	22,132	312	2.884	22,001	96.2 (93.3 to 98.1)
≥2 Mo after receipt of second dose to <4 mo after	46	2.696	20,814	449	2.593	20,344	90.1 (86.6 to 92.9)
≥4 Mo after receipt of second dose	24	1.030	12,670	128	0.895	11,802	83.7 (74.7 to 89.9)

BNT162h2

Placeho

# US

# Effectiveness of mRNA BNT162b2 COVID-19 vaccine up to 6 months in a large integrated health system in the USA: a retrospective cohort study



Α

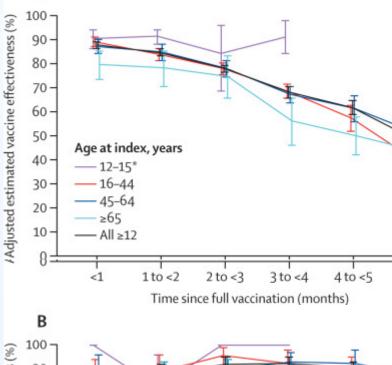
Sara Y Tartof, Jeff M Slezak, Heidi Fischer, Vennis Hong, Bradley K Ackerson, Omesh N Ranasinghe, Timothy B Frankland, Oluwaseye A Ogun, Joann M Zamparo, Sharon Gray, Srinivas R Valluri, Kaije Pan, Frederick J Angulo, Luis Jodar, John M McLaughlin

#### Summary

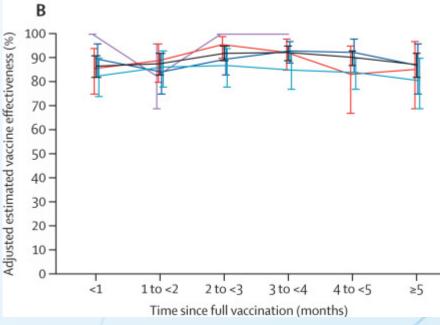
Background Vaccine effectiveness studies have not differentiated the effect of the delta (B.1.617.2) variant and potential waning immunity in observed reductions in effectiveness against SARS-CoV-2 infections. We aimed to evaluate overall and variant-specific effectiveness of BNT162b2 (tozinameran, Pfizer-BioNTech) against SARS-CoV-2 infections and COVID-19-related hospital admissions by time since vaccination among members of a large US health-care system.

October 4, 2021 https://doi.org/10.1016/ S0140-6736(21)02183-8

Department of Research and Evaluation, Kaiser Permanente Southern California, Pasadena,

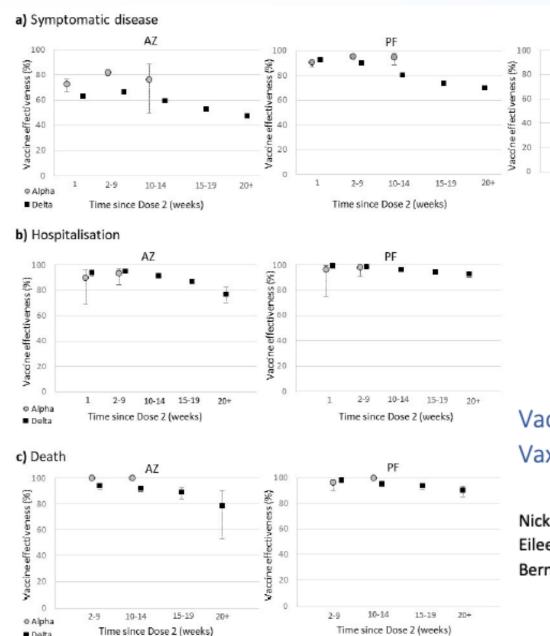


#### Infection



#### Hospitalization





Delta



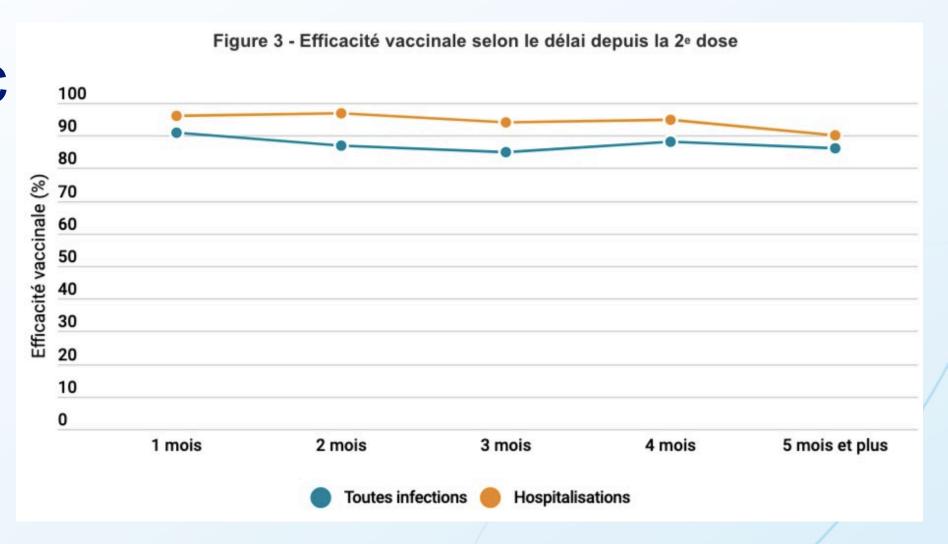
Vaccine effectiveness and duration of protection of Comirnaty, Vaxzevria and Spikevax against mild and severe COVID-19 in the UK

10-14

Time since Dose 2 (weeks)

Nick Andrews<sup>1,2</sup>, Elise Tessier<sup>1</sup>, Julia Stowe<sup>1</sup>, Charlotte Gower<sup>1</sup>, Freja Kirsebom<sup>1</sup>, Ruth Simmons<sup>1</sup>, Eileen Gallagher<sup>1</sup>, Meera Chand<sup>1,3</sup>, Kevin Brown<sup>1</sup>, Shamez N Ladhani<sup>1,4</sup>, Mary Ramsay<sup>1,2</sup>, Jamie Lopez Bernal<sup>1,2,5</sup>

# Quebec





#### Vaccine Effectiveness (VE): 2 Doses | British Columbia (BC), Canada



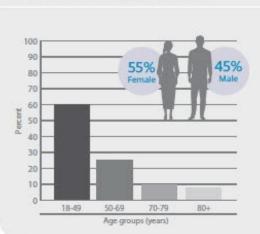
Vaccines: mRNA (Pfizer Comirnaty & Moderna Spikevax), AstraZeneca Vaxzevria Population: 18+ year olds, excluding long term care residents

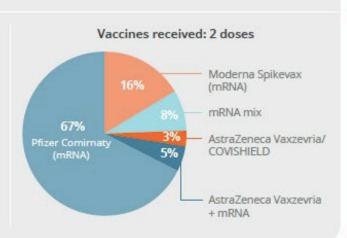
Research method: Test-negative design Study period: May 30 - Sept. 11, 2021, during rise of Delta variant in BC

Sample size: 246,656

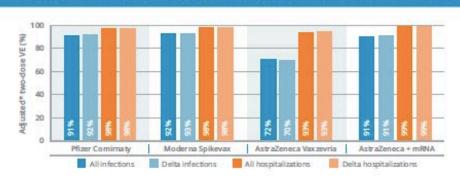
Cases: 17,077 Controls: 229,579

#### Participant characteristics



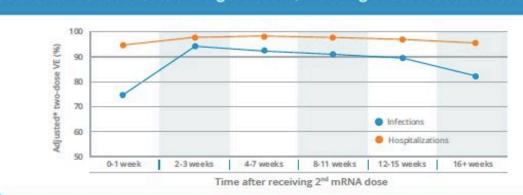


#### 2 doses of any vaccine are highly protective, including against the Delta variant



- Hospitalization risk in vaccinated people reduced by more than 90%
- Infection risk reduced by more than 90% for mRNA recipients and 70% for Vaxzevria
- · Mixed doses (mRNA and Vaxzevria) offers protection similar to 2 mRNA doses

#### Strong protection > 80-90% against infection maintained at least 4 months after the 2<sup>nd</sup> mRNA dose (monitoring continues, including for AstraZeneca Vaxzevria)



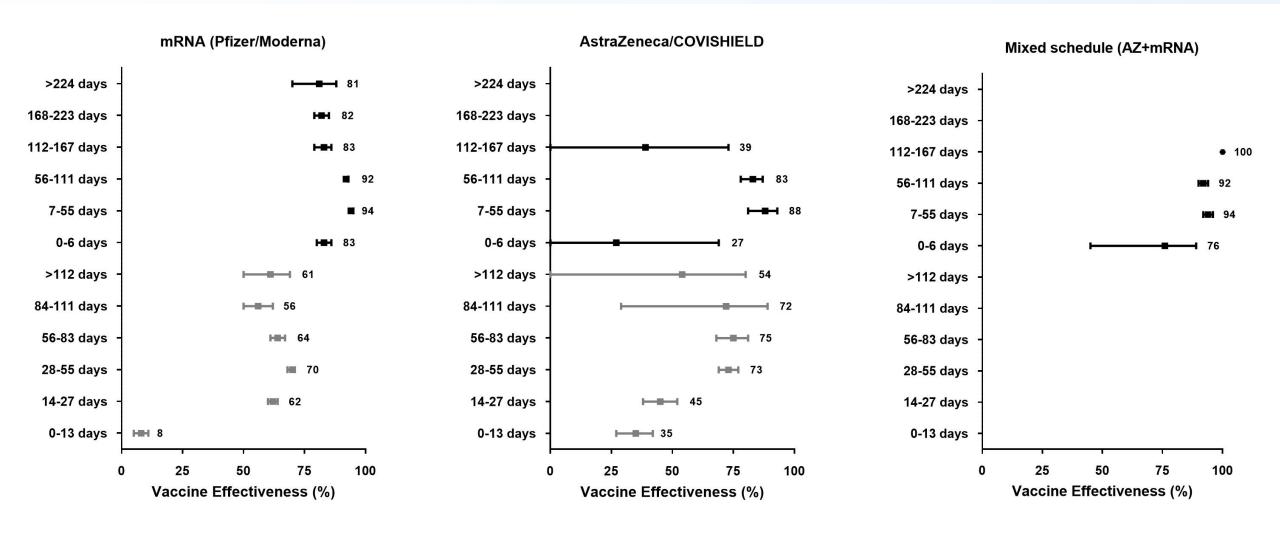
#### Protection is even stronger when the interval between 1st and 2nd dose is more than 6 weeks



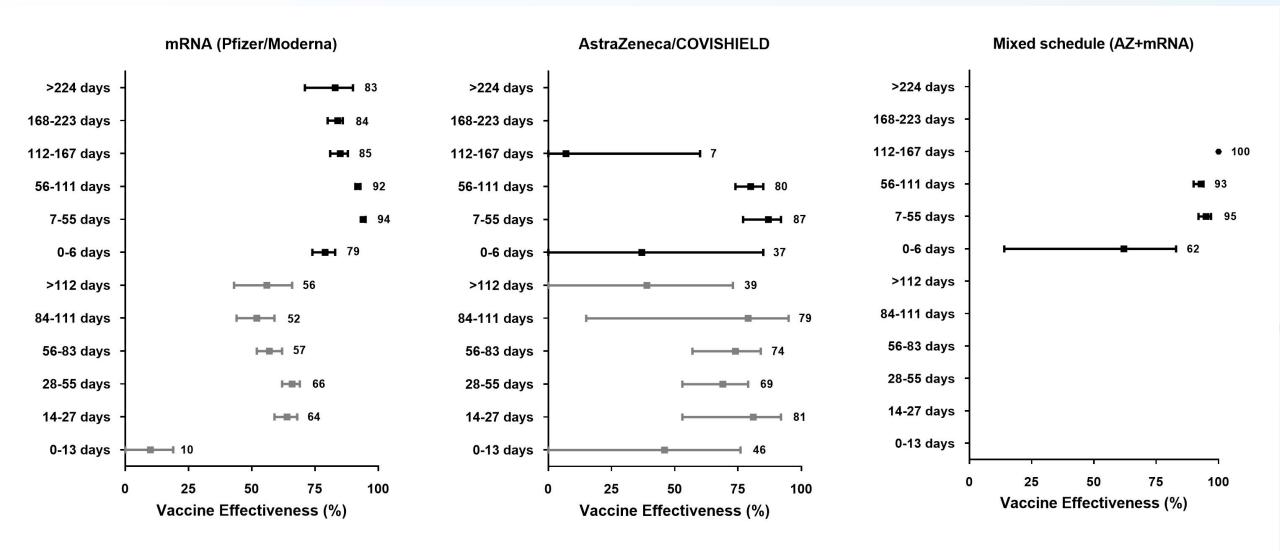
VE estimates displayed are against infection.

<sup>\*</sup>Adjusted for: age group, gender, epidemiological week (22 - 36) and health regions

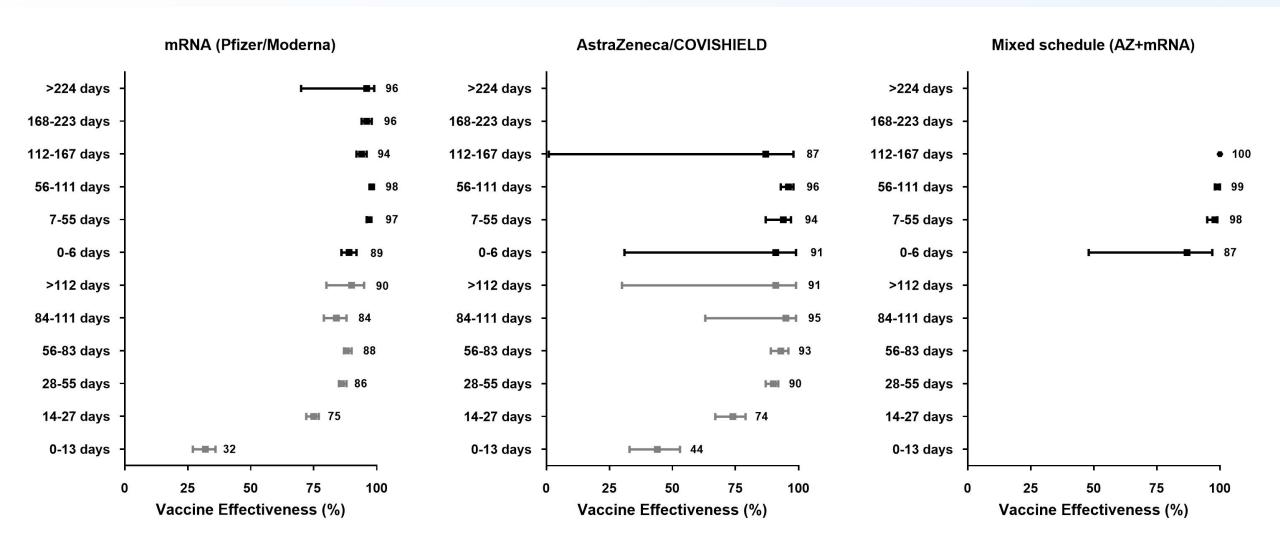
## ≥16 yrs, symptomatic infection, any lineage



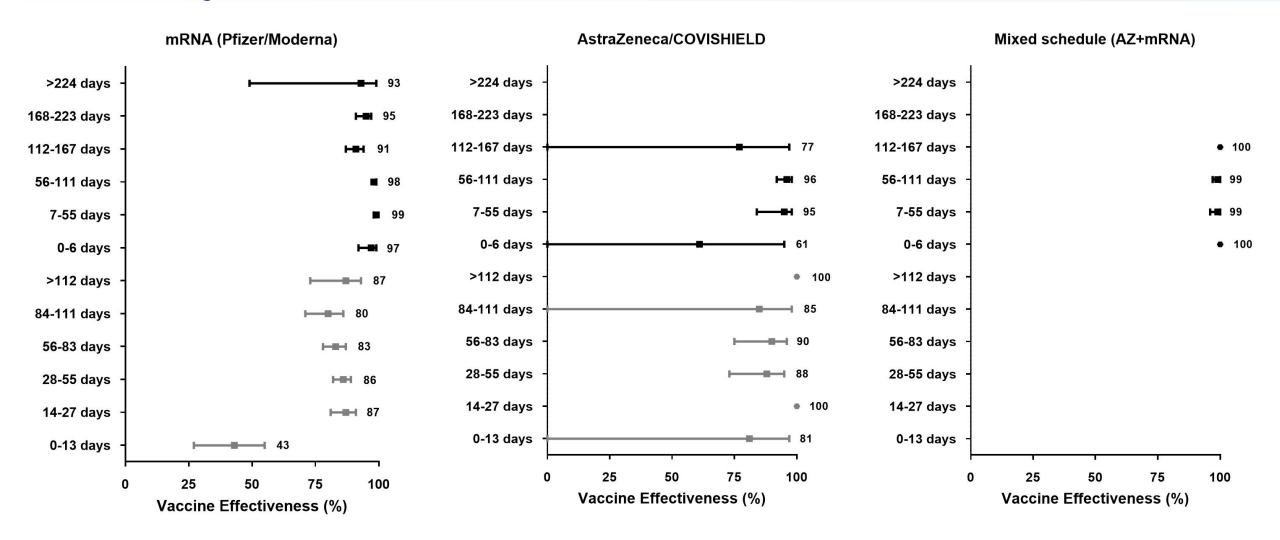
## ≥16 years, symptomatic infection, Delta



## ≥16 years, severe outcomes, any lineage

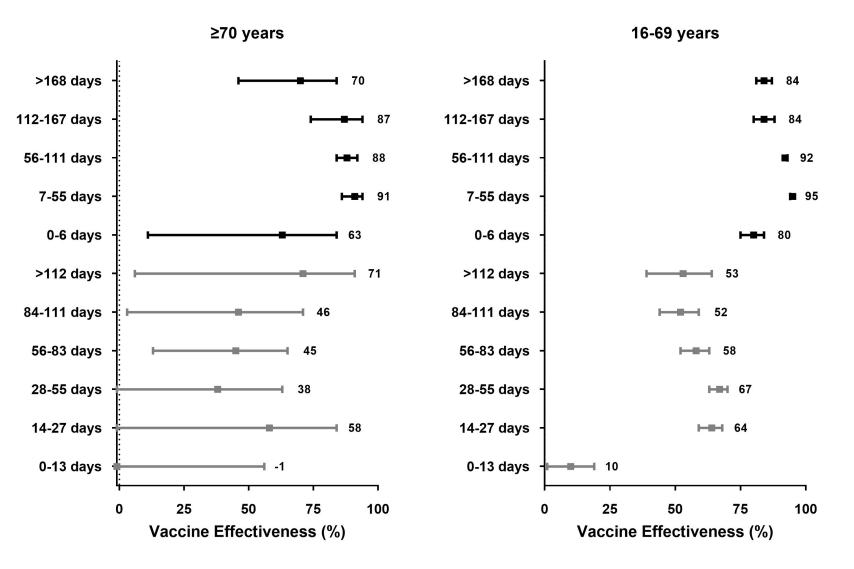


## ≥16 years, severe outcomes, Delta



## mRNA, symptomatic infection, Delta

Received only 1 dose

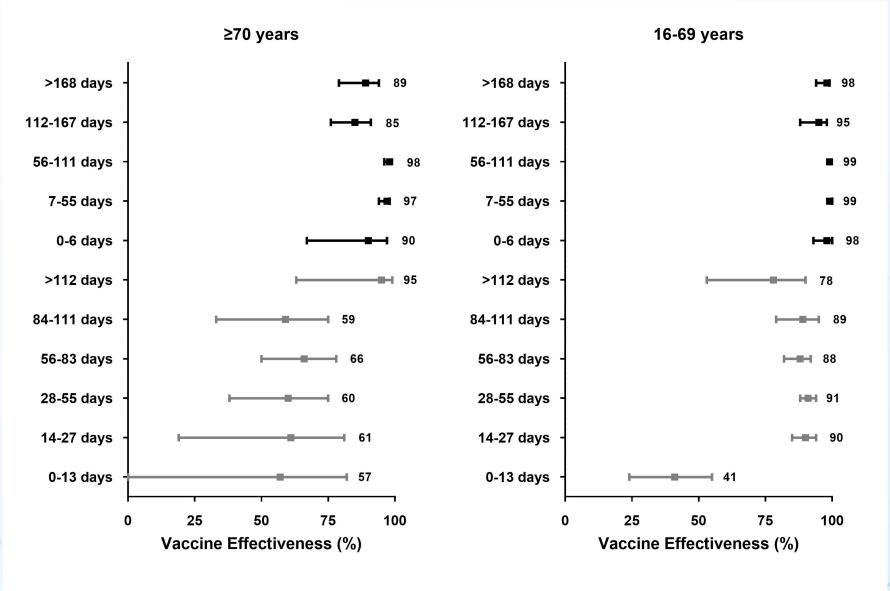


Received 2 doses



## mRNA, severe outcomes, Delta

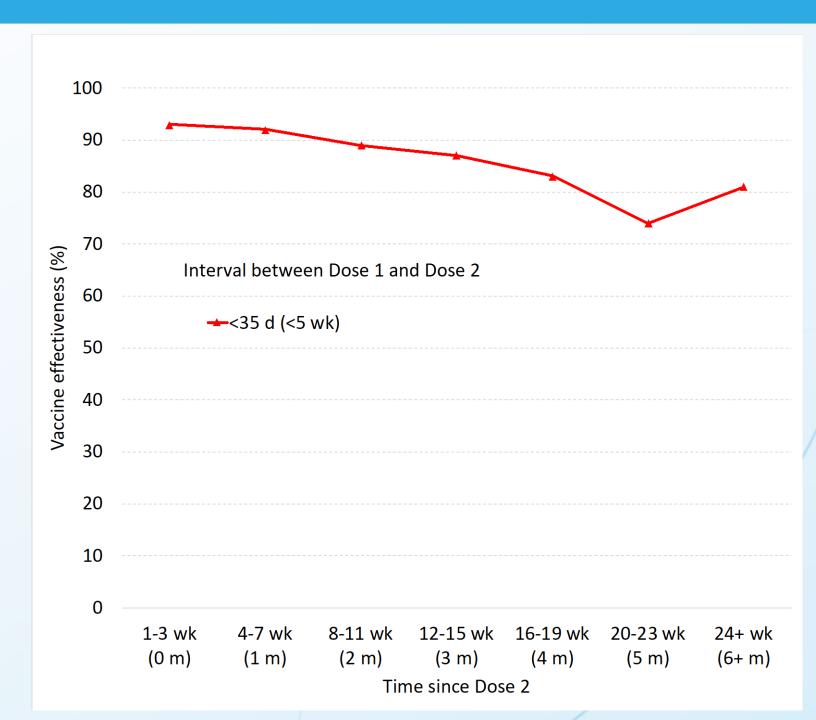
IC/ES



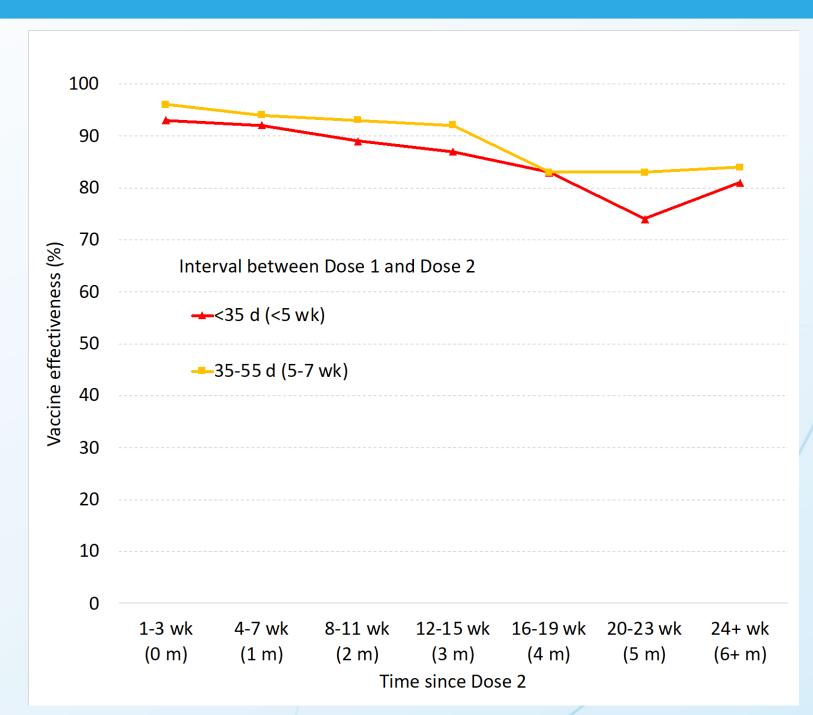
Received 2 doses

- Received only 1 dose

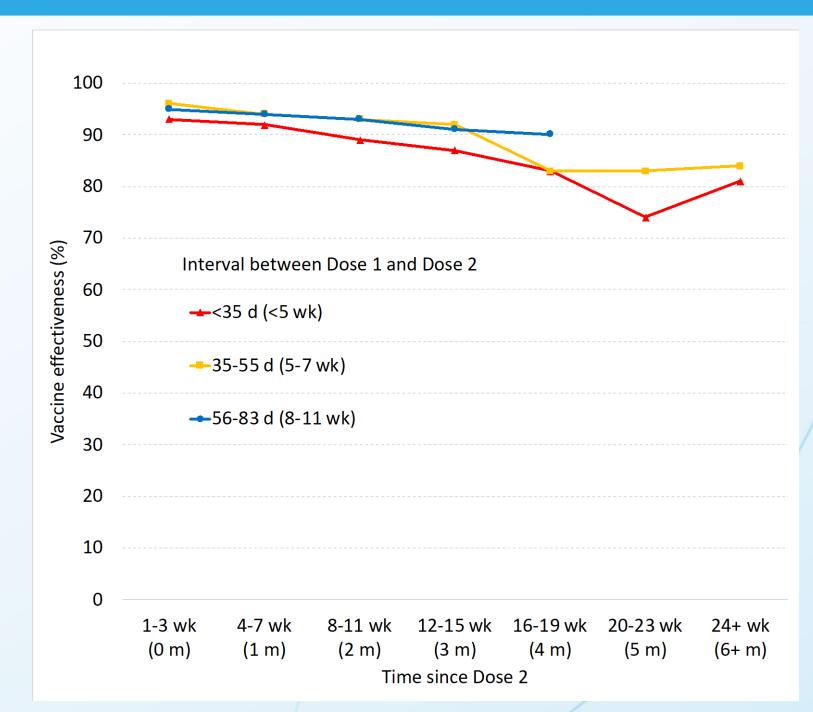




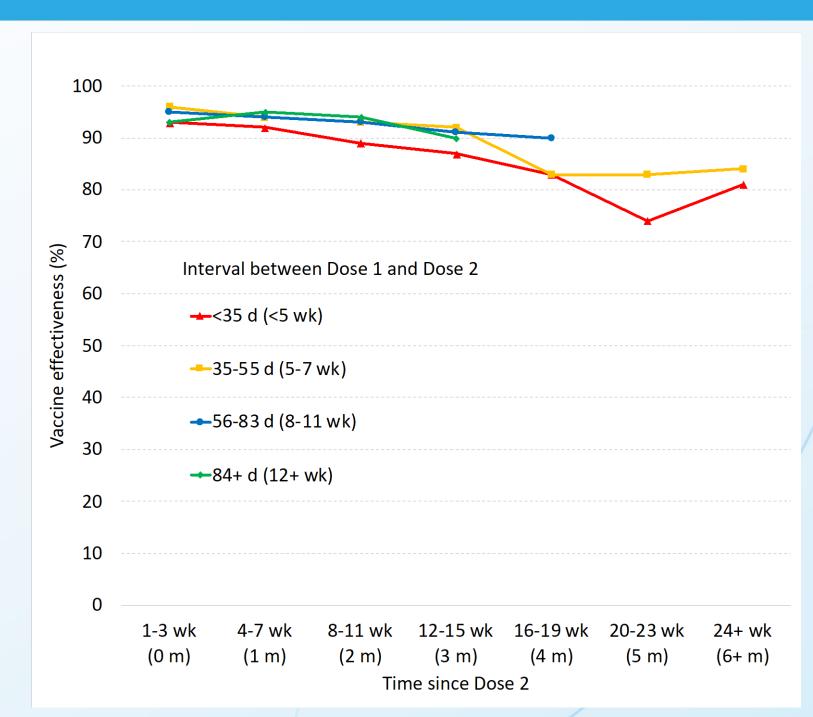






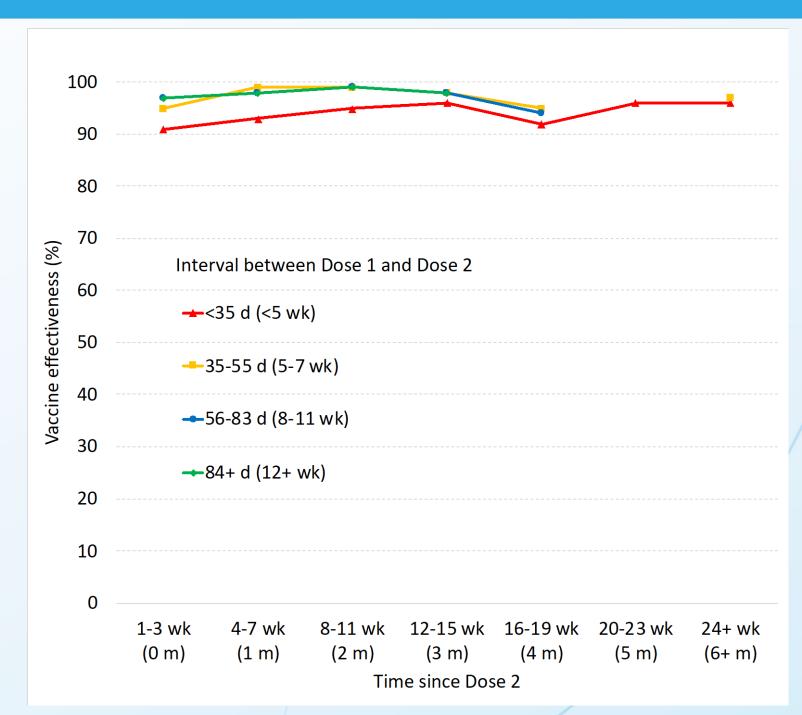






Impact of dosing interval and time since Dose 2 on VE, ≥16 years, mRNA, severe outcomes, any lineage





## Summary

- Most studies show minimal waning of protection against severe outcomes
- Some studies show some waning of vaccine protection against infection – extent of waning varies by study
- Ontario data suggest very high VE for mRNA vaccines even ≥32 weeks after dose 2, with only slight waning (10%) against infection (maybe more for older adults) but not against severe outcomes
- Boosters don't appear to be needed for the general
- population at this time

### **COVID-19 vaccine third dose recommendations**

To achieve better protection (vs boosting a response that has waned)

- Vulnerable elderly in high-risk congregate settings
  - Long-term care
  - ☐ High-risk retirement homes
  - Elder care lodges
- Moderately to severely immunocompromised
  - Active treatment for solid tumour or hematologic malignancies
  - Solid-organ transplant and immunosuppressive therapy
  - ☐ Chimeric antigen receptor (CAR)-T-cell therapy or hematopoietic stem cell transplant
  - Moderate to severe primary immunodeficiency (e.g., DiGeorge syndrome, Wiskott-Aldrich syndrome)
  - □ Stage 3 or advanced untreated HIV infection | acquired immunodeficiency syndrome
  - Active treatment immunosuppressive therapies
    - anti-B cell therapies2 (monoclonal antibodies targeting CD19, CD20 and CD22)
    - high-dose systemic corticosteroids (refer to the CIG for suggested definition of high dose steroids)
    - alkylating agents, antimetabolites, or tumor-necrosis factor (TNF) inhibitors and other biologic agents that are significantly immunosuppressive

MOH guidance, Sept. 14, 2021: COVID-19 Vaccine Third Dose Recommendations

## Immunosuppressant medications eligible for third doses

#### Table 1: List of Immunosuppressant Medications for Third Doses

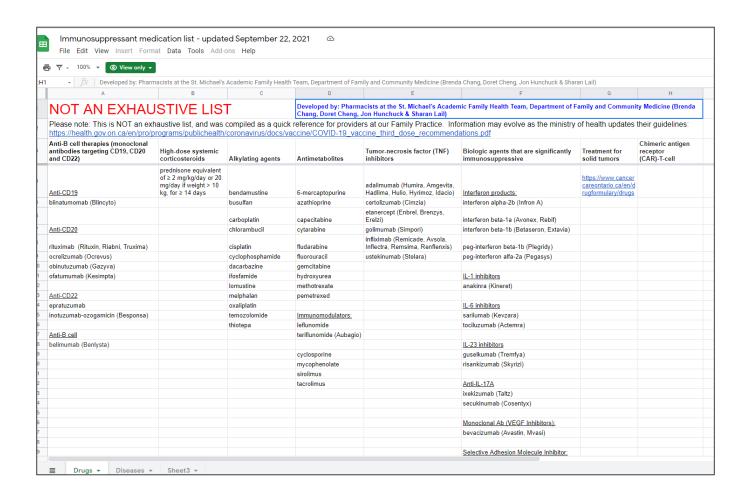
\*This list may not be comprehensive; health care providers may identify patients on other medications that are significantly immunosuppressive. Prescriptions/medication bottles for the below immunosuppressant medications can be presented for third doses as needed. If an individual presents a prescription of a medication that is not listed in Table 1, they should be directed to their health care provider to receive a referral form/letter for a third dose of the COVID-19 vaccine.

Class	Generic Name(s)	Brand Name(s)
Steroids (>20 mg per day of prednisone or equivalent for at least 2 weeks) <sup>3</sup>	<ul><li>prednisone</li><li>dexamethasone</li></ul>	Decadron
	methylprednisolone	<ul><li>DepoMedrol</li><li>SoluMedrol</li><li>Medrol</li></ul>

https://www.health.gov.on.ca/en/pro/programs/publichealth/coronavirus/docs/vaccine/COVID-19 vaccine third dose recommendations.pdf

Class	Generic Name(s)	Brand Name(s)
Antimetabolites	cyclophosphamide	Procytox
	leflunomide	Arava
	methotrexate	Trexall Metoject Otrexup Rasuvo Rheumatrex
	azathioprine	• Imuran
	6- mercaptopurine (6-MP)	Purinethol
	mycophenolic acid	Myfortic
	mycophenolate mofetil	Cellcept
Calcineurin inhibitors/mTOR kinase inhibitor	tacrolimus	Prograf     Advagraf     Envarsus PA
	cyclosporine	<ul><li>Neoral</li><li>Gengraf</li><li>Sandimmune</li></ul>
	• sirolimus	Rapamune
JAK (Janus kinase) inhibitors	baricitinib	Olumiant
	tofacitinib	Xeljanz
	upadacitinib	Rinvoq
Anti-TNF (tumor necrosis factor)	adalimumab	<ul><li>Humira</li><li>Amgevita</li><li>Hadlima</li><li>Hulio</li><li>Hyrimoz</li><li>Idacio</li></ul>
	golimumab	Simponi
	certolizumab pegol	Cimzia
	etanercept	Enbrel     Brenzys     Erelzi

## Immunosuppressant medications eligible for third doses



Developed by: Brenda Chang, Doret Cheng, Jon Hunchuck & Sharan Lail, Pharmacists at the St. Michael's Academic Family Health Team

https://docs.google.com/spreadsheets/d/1L9Ko0Xc6\_VRyzKO6pneGbuu-OUR2NaQUBkjPI6-LAOA/edit?usp=sharing

### **Medical exemptions to COVID-19 vaccination**

### Four reasons for medical exemptions

- 1. Pre-existing condition allergist, immunologist or specialist must confirm individual is unable to receive any COVID-19 vaccine).
  - Medical exemption if severe allergy or anaphylactic reaction to a previous dose or any vaccine component
  - Medical exemption if myocarditis before starting mRNA vaccine series (age 12 to 17)
- 2. Contraindications to AZ/COVISHIELD vaccine history of capillary leak syndrome, cerebral venous sinus thrombosis with thrombocytopenia, heparin-induced thrombocytopenia, or major venous and/or arterial thrombosis with thrombocytopenia following any vaccine
  - Complete vaccine series with mRNA vaccine
    - Medical exemption if individual has medical exemption to receiving mRNA vaccine

### Medical exemptions to COVID-19 vaccination (cont'd)

### 3. Adverse events following COVID-19 immunization

- Severe allergic reaction or anaphylaxis following a COVID-19 vaccine.
  - Exemption if allergist/immunologist determines unable to receive any COVID-19 vaccine
- TTS/VITT4 following AstraZeneca/COVISHIELD COVID19 vaccine
  - Exemption if medical exemption to completing series with mRNA vaccine
- Myocarditis or pericarditis following a mRNA COVID-19 vaccine
  - Exemption if diagnosed after medical evaluation (discuss immunization/reimmunization options with specialist if uncertain diagnosis)
- Serious adverse event following COVID-19 immunization
  - Exemption if medically evaluated, risk-benefit of immunization options discussed with relevant specialist AND determined unable to receive any COVID-19 vaccine

### Medical exemptions to COVID-19 vaccination (cont'd)

- 4. Receiving monoclonal antibody therapy OR convalescent plasma therapy for the treatment or prevention of COVID-19
  - Time-limited exemption while receiving therapy

\*\*\*\*

MOH guidance, Sept. 14,2021: Medical Exemptions to COVID-19 vaccination

•••

Do you have questions about your child getting the #COVID19Vaccine? We've launched a COVID-19 Vaccine Consult Service to help answer those questions.

Make an appointment to speak to a SickKids clinician through a confidential phone consult: sickkids.ca /vaccineconsult



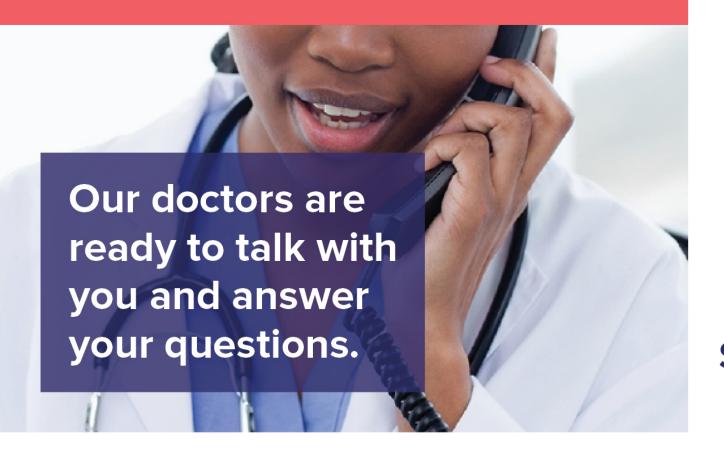
Talk to a knowledgeable SickKids clinician to get your questions answered about the COVID-19 vaccine for children and youth.

Visit www.sickkids.ca/vaccineconsult to book a confidential phone appointment.

**SickKids** 

https://www.sickkids.ca/en/careservices/supportservices/covid-19-vaccineconsult/

# Want to know more about the COVID-19 vaccine?



Book a one-to-one phone conversation with one of our doctors so that you can make an informed decision:

- shn.ca/VaxFacts
- 416-438-2911 ext. 5738



## **Questions?**

Webinar recording and curated Q&A will be posted soon <a href="https://www.dfcm.utoronto.ca/covid-19-community-practice/past-sessions">https://www.dfcm.utoronto.ca/covid-19-community-practice/past-sessions</a>

Our next Community of Practice: Friday, October 22, 2021

Contact us: ocfpcme@ocfp.on.ca

*Visit*: <a href="https://www.ontariofamilyphysicians.ca/tools-resources/covid-19-resources">https://www.ontariofamilyphysicians.ca/tools-resources/covid-19-resources</a>

This one-credit-per-hour Group Learning program has been certified by the College of Family Physicians of Canada and the Ontario Chapter for up to 1 Mainpro+®credits.

The COVID-19 Community of Practice for Ontario Family Physician includes a series of planned webinars. Each session is worth 1 Mainpro+®credits, for up to a total of 26 credits.

Post session survey will be emailed to you. Mainpro+ credits will be entered for you with the information you provided during registration.



