

REVISED Universal Influenza Immunization Program (UIIP) 2018-2019

Attention: Physicians, Nurse Practitioners, Long-Term Care Facilities, Rest & Retirement Homes, Walk-in Clinics/Urgent Care Clinics, Hospitals, Infection Control Practitioners, Hospital Occupational Health Nurses, Hospital Pharmacies, Correctional Facilities, Participating Health Care Agencies, Participating UIIP Pharmacies, NSM LHIN, Central LHIN, Beausoliel Health Centre

Date: September 25, 2018

The World Health Organization (WHO) has recommended the following strains be included in the 2018-2019 northern hemisphere influenza vaccines:

Quadrivalent vaccine:

- A/Michigan/45/2015 (H1N1)pdm09-like virus;
- A/Singapore/INFIMH-16-0019/2016 (H3N2)-like virus;
- B/Colorado/06/2017-like virus (B/Victoria/2/87 lineage); and
- B/Phuket/3073/2013-like virus (B/Yamagata/16/88 lineage).

Trivalent vaccines:

- A/Michigan/45/2015 (H1N1)pdm09-like virus;
- A/Singapore/INFIMH-16-0019/2016 (H3N2)-like virus; and
- B/Colorado/06/2017-like virus (B/Victoria/2/87 lineage).

The National Advisory Committee for Immunization (NACI) Statement on Seasonal Influenza Vaccine for 2018-2019 can be found on the Public Health Agency of Canada website at: <https://www.canada.ca/en/public-health/services/publications/healthy-living/canadian-immunization-guide-statement-seasonal-influenza-vaccine-2018-2019.html>

Which vaccines are individuals eligible to receive in Ontario this year?

Publicly funded vaccine eligibility for specific age groups			
Age Group	QIV	Q-LAIV	High-Dose TIV
6 to 23 months	✓		
2 to 17 years	✓	✓	
18 to 64 years	✓		
≥65 years	✓		✓

Note: NACI has not identified any preference between Q-LAIV and QIV products.

Important Notes:

- Fluzone® Quadrivalent and Fluzone® High-Dose are different products. Fluzone® High-Dose is only authorized for those 65 years of age and over. Please use caution when administering Fluzone® products to ensure that the right vaccine is being administered to the right person.
- Fluzone® High-Dose will be available through primary care providers (e.g. physicians and nurse practitioners), participating retirement homes, long-term care homes and hospitals. Fluzone® High-Dose will not be available through pharmacies.
- Trained pharmacists may only administer publicly funded influenza vaccine to individuals 5 years of age and older.

Vaccine	Quadrivalent Inactivated Vaccines (QIV)		Quadrivalent - Live Attenuated Influenza Vaccine (Q-LAIV)	High-Dose Trivalent Inactivated Vaccine (High-Dose TIV)
	FluLaval [®] Tetra	Fluzone [®] Quadrivalent	FluMist [®] Quadrivalent	Fluzone [®]
Dosage	0.5 mL	0.5 mL	0.2 mL (0.1mL in each nostril)	0.5 mL
Format(s)	Multi-dose vial	Multi-dose vial (MDV) & Prefilled syringe	Prefilled single use sprayer	Prefilled syringe
Administration Route	Intramuscular injection	Intramuscular injection	Intranasal spray	Intramuscular injection
Age Indications as per product monograph	≥6 months	≥6 months	2 to 59 years	≥65 years
Most Common Allergens	<ul style="list-style-type: none"> • Egg Protein* • Thimerosal 	MDV: <ul style="list-style-type: none"> • Egg Protein PFS: <ul style="list-style-type: none"> • Egg Protein 	<ul style="list-style-type: none"> • Arginine • Egg Protein* • Gelatin • Gentamicin 	<ul style="list-style-type: none"> • Egg Protein*
Post-Puncture Shelf Life	28 days	MDV: 28 days PFS: N/A	N/A	N/A
Package Dimensions in cm	3 x 3 x 6	MDV: 3.6 x 2.9 x 6 PFS: 10.4 x 8.9 x 3.8	10.6 x 17.6 x 2.9	10.4 x 8.9 x 2.3

*According to NACI, egg-allergic individuals may be vaccinated against influenza using the full dose of any appropriate product, including QIV, Q-LAIV and high-dose TIV.

*Children less than nine years of age receiving influenza vaccine for the first time this year are to receive two doses of 0.5 ml, with a minimum interval of four weeks between the first and second dose. The second dose is not needed if the child has received at least one dose of influenza vaccine during a previous influenza season. Ideally the same product is used for both doses. However, if the same product is not available, any influenza vaccine can be given for the second dose.

Recommended needle gauge and length for vaccine recipient: Intramuscular Injections (IM)		
Vaccine Recipient	Infants, Toddlers and Older children	Adolescents and Adults
Needle gauge	22-25	22-25
Needle length	7/8 – 1 inch	1 -1 ½ inch

Please ensure stock of appropriate sized syringes and needles. Pre-filled syringes do not come with needle tips.

To access product monographs for the publicly funded influenza vaccine products, visit the Health Canada – Drug Product Database Online Query website and enter the product name to search:

<http://webprod5.hc-sc.gc.ca/dpd-bdpp/index-eng.jsp>

High-Dose Trivalent Influenza Vaccine (HD TIV) and non-high dose Quadrivalent Influenza Vaccine (QIV) are available this year for those 65 years and older

Public Health Ontario has provided a more detailed analysis on the various influenza vaccines including the high-dose TIV and QIV formulations for older adults and children [here](#). Below is a summary of the considerations. There is insufficient data comparing the efficacy between the two vaccines. **The choice between the high dose TIV vs non-high dose QIV rests with the clinician and patient. Both are acceptable. Given the available information at this time, the Simcoe Muskoka District Health Unit (SMDHU) recommends the high dose TIV because of its higher effectiveness in preventing influenza A morbidity in those 65 years and older. However, immunization should not be delayed if your preferred vaccine is unavailable.**

The following are relevant considerations when vaccinating adults 65 years of age and over.

Influenza A:

- The burden of influenza A/H3N2 is higher in adults 65 years of age and over compared to other strains. Seasons with circulation of influenza A/H3N2 result in more outbreaks, hospitalizations and deaths, which occur most commonly among older adults.
- The high-dose TIV provides better protection than standard-dose TIV, including against the A/H3N2 strain as demonstrated in a large randomized trial. The trial showed high-dose TIV to be 24.2% (95% CI: 9.7% to 36.5%) more effective compared to standard dose TIV in preventing laboratory-confirmed influenza. The A/H3N2 strain is the same in the standard-dose TIV and standard-dose QIV vaccines, so similar enhanced protection against the A/H3N2 found for high-dose TIV is also expected when compared to the standard dose QIV.

Influenza B:

- Although the high-dose TIV contains one less B strain than in the QIV, B strains occur less frequently in adults 65 years of age and over than A strains.
- There may be cross protection against B lineages, such that the TIV vaccine that contains B/Victoria may offer some protection against B/Yamagata and vice versa, although this may not always occur. Therefore, high-dose TIV may afford some protection against the B lineage not included in that vaccine.

Safety:

QIV and high-dose TIV are expected to have a generally similar safety profile. Local reactions and systemic adverse events occur somewhat more frequently with high-dose TIV than standard-dose TIV. The systemic reactions are described as generally mild and short lived.

For more information on high-dose TIV and QIV formulations, please see the Canadian Immunization Guide Chapter on Influenza and Statement on Seasonal Influenza Vaccine for 2018-2019 available at: www.canada.ca/en/public-health/services/publications/healthy-living/canadian-immunization-guide-statement-seasonal-influenza-vaccine-2018-2019.html

Vaccine Ordering Information

Only Influenza vaccine orders that are submitted on this year's Influenza Vaccine Order Form (see attached) will be filled. Be sure to choose the appropriate form based on which health unit office you pick up vaccine from.

Primary care providers, hospitals and long term care homes (LTCH) – orders received by Tuesday October 2nd 2018 at 3pm will be ready for pick-up Tuesday October 9th 2018.

This vaccine is only initially to be administered to those who meet the following high risk criteria:

Individuals at high risk of influenza-related complications or more likely to require hospitalization which includes:

- o All pregnant women
- o People who are residents of LTCH or other chronic care facilities
- o People ≥ 65 years of age
- o All children 6-59 months of age
- o Indigenous peoples
- o Adults or children with chronic health conditions as follows:
 - cardiac or pulmonary disorders
 - diabetes mellitus or other metabolic disease
 - cancer
 - conditions which compromise the immune system
 - renal disease
 - anemia or hemoglobinopathy
 - neurologic or neurodevelopmental conditions
 - morbid obesity (body mass index of ≥ 40)
 - children and adolescents undergoing treatment with acetylsalicylic acid for long periods

Individuals capable of transmitting influenza to those at high risk which includes:

- o Health care workers and other care providers in facilities and community settings
- o Household contacts (adults and children) of individuals at high risk of influenza related complications
- o Persons who provide care to children ≤ 59 months of age.
- o Those who provide services within a closed / relatively closed setting to persons at high risk (e.g., crew on a ship)

In addition, influenza vaccine is strongly recommended for individuals that work in essential community services and the swine and poultry industry.

Influenza vaccine can be administered to the general public by all providers above as soon as the Minister of Health announces the launch of the annual UIP which is anticipated to be the week of October 22nd.

As in previous years, the health unit will only receive part of their influenza vaccine allocation in October. This means that we have to distribute the vaccine as fairly and equitably as possible to ensure that all area HCPs get some supply to immunize their most vulnerable patients. Our initial supply of HD TIV will be allocated to LTCHs, R&Rs and hospitals. Any remaining will be available to primary care to order if they wish, with additional supply available at the end of October. We have also been notified that Flumist® has been delayed, and will not be available from OGP until mid-October. To assist with planning the following allocation and timelines have been established for vaccine ordering:

Primary Care Practices:

Order Due By	Ready for Pick up	Product	Maximum Quantity
Tues October 2 nd at 3pm	Tues October 9 th	QIV HD-TIV Q-LAIV (Flumist®)	Up to 50 doses per MD/NP Up to 10 doses per MD/NP 0 available
Tues October 16 th at 3pm	Tues October 23 rd	QIV HD-TIV Q-LAIV (Flumist®)	Up to 50 doses per MD/NP Only if local supply remaining Up to 2 per MD/NP if stock arrives

We recommend that large booked clinics not be scheduled until week of October 29th to ensure you have the vaccine supply you need. You will be receiving multi dose vials of QIV. HD TIV will be provided in prefilled syringes that you will require a needle to attach to it.

LTCHs:

Order the number of doses of HD TIV that you require for residents. Note: it is large packaging, so please only order what your fridge can properly store and reorder as needed. If you have a physician or Directive in place for staff immunization, order the required number of doses of QIV. Orders submitted by 3pm on a Tuesday will be ready the

following Tuesday. HD TIV will be provided in a prefilled syringe that you will require a needle to attach to. QIV for staff may be either prefilled syringe or multi-dose vial based on health unit inventory availability.

Hospitals:

Order as needed for those considered high risk as per listing on page 4. Orders submitted by 3pm on a Tuesday will be ready the following Tuesday. Prefilled syringes will be shipped so please order accordingly based on space available.

Other Important Ordering Reminders:

- If you were required to prequalify for vaccine, and recently had your fridge inspection, you must submit five consecutive days of twice daily fridge temperatures between 2-8°C before your initial order can be filled.
- Each time you order influenza vaccine, you must submit by fax your temperature log sheet(s) for the previous four weeks. Temperature readings must be done and recorded in the log book twice a day every day. These temperature log sheets are reviewed by the SMDHU prior to vaccine being released.
- Once our supply is established, all providers are only to stock a one to two week supply of influenza vaccine. This is to prevent large amounts of vaccine wastage as a result of a power outage or fridge malfunction. The package sizes of some products may also impact fridge space. Health unit staff may adjust orders taking into account your current inventory, the size of your vaccine fridge and current vaccine supply.
- If there is a reason you are ordering a large amount of vaccine (i.e. you have a clinic booked), please note this on the order form so that staff can take this into account when reviewing your order.
- Unfortunately we do not have a way of tracking balances remaining that were not filled on previous orders. If you require additional vaccine beyond what you received in your order, you will need to submit another vaccine order along with your updated temperature logs.

Where can the public access their flu shots this year?

- At their primary care provider's office
- At a pharmacy – most pharmacies have pharmacists that are certified to administer flu vaccine or they may host flu clinics. Encourage clients to check with their local pharmacy
Note: children under five years of age cannot be immunized by pharmacists.
- At a workplace clinic if offered through their employer
- At the health unit. We will be offering a limited number of appointments for families with children less than five years who do not have a HCP and for those with no Ontario Health Card Number

For more information, support materials and forms refer to the following websites:

- www.smdhu.org/pcportal
- <http://www.ontario.ca/flu>

For those who were required to prequalify for the 2018/2019 UIIP, (health care agencies, retirement homes, workplaces, educational institutions, shelters, private hospitals, paramedics, etc.) please refer to the MOHLTC's UIIP website below for information on reporting requirements for **reimbursable** and **non-reimbursable** influenza immunization clinics. <http://www.health.gov.on.ca/en/pro/programs/publichealth/flu/uiip/prequalification.aspx>

NOTE: completed forms are to be sent directly to uiip.moh@ontario.ca rather than to the health unit.

Reporting of Adverse Events

The attached *Adverse Event Following Immunization (AEFI)* form must be filled out and faxed back to the Immunization Program for follow-up immediately following an unexpected adverse event: **Fax #: 705-726-3962**

If you have any questions regarding the vaccine ordering process please contact the Immunization Program at 705-721-7520 or toll free at 1-877-721-7520 ext. 8808.

If you are calling to report a Cold Chain Failure, or have any questions regarding influenza vaccines please contact the Immunization Program at 705-721-7520 or toll free at 1-877-721-7520 ext. 8806.

Date: _____

Facility Name: _____ Phone #: _____ Facility Fax #: _____

Facility Contact: _____ # of Fridges: _____ Type: Bar Domestic Purpose Built

- Place orders by **3pm Tuesday** for pick up the following **Tuesday morning**
- Orders must include the **previous 4 week** temperature log
- Order no more than a **1 – 2 week** supply
- Vaccine order inquiries 1-877-721-7520 ext. **8808**
- For **URGENT** requests due to **UNEXPECTED** demands, provide details below
- Include current Influenza vaccine inventory
- Coolers must be between 2 - 8 °C for vaccine to be released

Premise Type:				
<input type="checkbox"/> Physician Office	<input type="checkbox"/> Retirement Home	<input type="checkbox"/> Correctional Facility	<input type="checkbox"/> Workplace	<input type="checkbox"/> Nursing Agency
<input type="checkbox"/> Hospital	<input type="checkbox"/> Long-term care home	<input type="checkbox"/> Pharmacy	<input type="checkbox"/> Community Health Ctr	<input type="checkbox"/> Other

Based on Ministry’s distribution and supply of vaccine, the health unit cannot guarantee the amount or type of vaccine released to facilities, therefore HCPs should be prepared with appropriate supplies.

Influenza Vaccines	Current # of Doses in your fridge	Requested # of Doses
HD TIV - Fluzone® High-Dose (prefilled syringe) • Publicly funded for those 65 years and over		
QIV - FluLaval®Tetra/Fluzone®Quadrivalent (multi dose vial or prefilled syringe) • Publicly funded for those 6 months and older		
Q-LAIV - FluMist®Quadrivalent – prefilled nasal sprayer • Publicly funded for those 2 years through 17 years		

HD TIV = High Dose Trivalent Influenza Vaccine; protects against 2 A strains & 1 B strain. Only for those 65 years+
 QIV = Quadrivalent Influenza Vaccine; protects against 2 A strains & 2 B strains.
 Q-LAIV = Quadrivalent Live Attenuated Influenza Vaccine; protects against 2 A strains & 2 B strains.

For high volume scheduled influenza clinic(s) or urgent influenza orders, please provide details for consideration.

Location to be picked up (please check):

- Barrie Collingwood Cookstown Midland

VIM Order # (for office use only): _____

2018-09

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<input type="checkbox"/> Hospital	<input type="checkbox"/> Long-term care home	<input type="checkbox"/> Pharmacy	<input type="checkbox"/> Community Health Ctr	<input type="checkbox"/> Other

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For high volume scheduled influenza clinic(s) or urgent influenza orders, please provide details for consideration.

Location to be picked up (please check):

- Gravenhurst Huntsville Orillia

VIM Order # (for office use only): _____

2018-09

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