



# Influenza Program Overview



FNIHB – Alberta Region  
September 13, 2023



**For videoconference and Zoom  
assistance**

**Call 1-888-999-3356**





**Reminder:  
This videoconference  
will be recorded.**



September 2023





## Land Acknowledgement

- *We would like to begin by acknowledging that we are on the traditional lands, referred to as Treaty 6 Territory and that the participants of this session, and all the people here, are beneficiaries of this peace and friendship treaty.*
- *Treaty 6 encompasses the traditional territories of numerous western Canadian First Nations, including Cree, Dene, Stoney Nakota Sioux, Saulteaux, and Ojibwe.*

# Acknowledgements

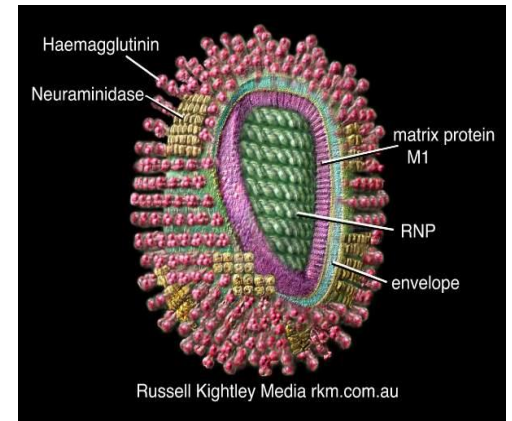
The National Advisory Committee on Immunization (NACI), Alberta Health, Alberta Health Services, Statistics Canada, OKAKI vaccine data, FluWatch Canada, and WHO resources have been used in the development of this presentation.

# Learning Objectives



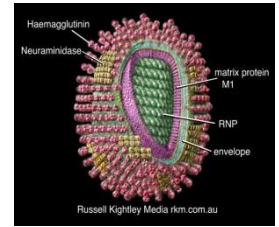
At the end of the presentation, participants will:

- Understand what influenza is and its potential impact
- Be knowledgeable about influenza and Pneumo-P vaccines and related programming
- Understand Influenza programming within COVID-19 disease and vaccine context
- Be able to implement influenza surveillance activities
- Be able to implement TB Screening for those with At Risk Medical Conditions



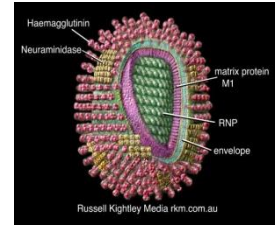
# BACKGROUND INFORMATION

# What is Influenza?



- Commonly known as “the flu”, influenza is a highly contagious infection of the airways caused by the influenza virus.
- Referred to as “seasonal” as these viruses circulate during the winter season in the northern hemisphere
- The timing and duration of influenza varies: cases can occur throughout the year, however the “season” is usually considered to be from late September/early October through March, but most often activity peaks in January or later
  - Outbreaks have been reported as early as October and as late as May.

# What is Influenza?



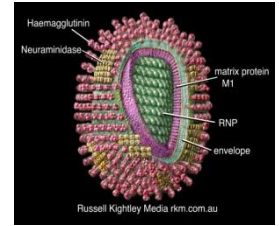
Influenza typically starts with sudden onset of:

- Headache, chills and cough
- Followed by:
  - fever
  - loss of appetite
  - muscle aches and fatigue
  - runny nose, sneezing, watery eyes
  - sore throat
- Nausea, vomiting and diarrhea may also occur, especially in young children.



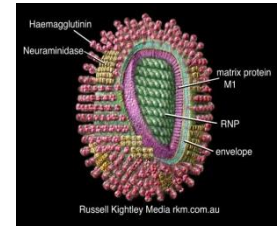


# A, B and C Influenza Viruses



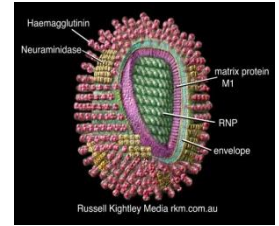
- Influenza A and B viruses cause seasonal epidemics/outbreaks, while type C causes mild respiratory illness
  - Influenza A viruses are divided into subtypes based on surface proteins:
    - hemagglutinin (H) and neuraminidase (N).
  - Influenza B viruses are not divided into subtypes, but generally fall in 2 strain families (lineages):
    - Yamagata and Victoria like viruses
- Vaccines only protect against types A and B

# Influenza Types – A and B














<b>Type A</b> (seasonal, avian, swine . . .)	<b>Type B</b> (seasonal influenza)
Can cause significant disease	Generally causes milder disease but may also cause severe disease
Infects humans and other species (e.g. birds, pigs)	Limited to humans
Can cause epidemics and pandemics (worldwide epidemics)	Generally causes milder epidemics

# Influenza Types – A and B



- Small changes in influenza viruses occur continually (drift)
  - New strains may not be recognized by the body's immune system.
    - A person infected with a specific influenza virus strain develops immunity against that specific strain.
- Strains in seasonal vaccine are updated to align with any changes in circulating strains
  - Usually, at least one change each season
- Annual influenza immunization recommended to protect against infection from changing viruses

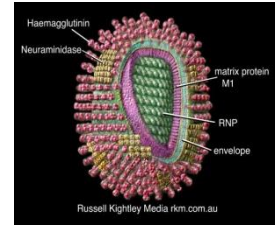
# Comparison of COVID-19, influenza, common cold, and gastrointestinal (GI) illness

	COVID-19	Influenza (Flu)	Cold	GI Illness (Stomach "Flu")
<b>Caused by</b>	SARS-CoV-2 virus	Influenza A or Influenza B viruses	Many different kinds of viruses such as rhinovirus or adenovirus	Norovirus (or Norwalk-like viruses) is the most common, but there are many causes of stomach upset
<b>Symptoms appear quickly</b>	Sometimes	Yes	No. Symptoms appear gradually	Yes
<b>Prevention</b>	Getting the COVID-19 vaccine provides protection from the SARS-CoV-2 virus (also known as COVID-19)	Getting the influenza vaccine every year protects against the strains of the virus going around that season	Cannot be prevented by immunization	Cannot be prevented by immunization
<b>Symptoms</b>				
 Fever	Common	Common	Rare	Sometimes
 Fatigue	Common	Common	Sometimes	Sometimes
 Cough	Common	Common	Common	No
 Sneezing	Rare	Sometimes	Common	No
 Aches and pains	Common	Common	Sometimes	Common
 Runny or stuffy nose	Rare	Common	Common	No
 Sore throat	Sometimes	Common	Common	No
 Diarrhea	Common	Sometimes (especially for children)	Rare	Common
 Headaches	Common	Common	Rare	Sometimes
 Shortness of breath	Sometimes	Sometimes	No	No
 Loss of smell or taste	Sometimes	No	No	No

# The myth of the “Stomach Flu”

- Many people use the term “stomach flu” to describe illnesses with nausea, vomiting or diarrhea. These symptoms can be caused by many different viruses, bacteria or parasites.
- Influenza is a respiratory disease – not a stomach or intestinal disease.
  - While vomiting, diarrhea and nausea can sometimes occur with influenza (particularly with children), these problems are not the main symptoms of influenza.

# How Serious is Influenza?



- Fortunately, the majority of infected people will recover.
- However, annually in Canada, influenza typically causes approximately
  - 12,200 hospitalizations
  - 3,500 deaths
- Influenza is among the top 10 leading causes of death in Canada

# How is Influenza Spread?

- Influenza is easily spread when an infected person sneezes, coughs or even talks. **(Droplet)**
- The virus gets into the air and can be breathed in by others.
- Exposure to the virus can also occur when your hand touches something that has the virus on it (like hands or objects) and then you touch your eyes, nose or mouth.
  - Hard surfaces: virus can survive for 1 – 2 days but is only infectious for about 8 hours
  - Soft surfaces: virus can survive 8 – 12 hours but is only infectious for a few minutes **(Contact)**

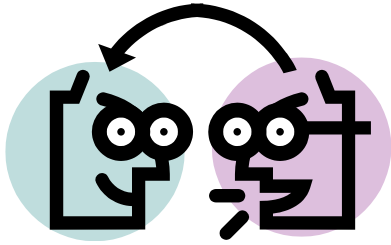
Note: Influenza can be spread even before symptoms start.

# Influenza Incubation

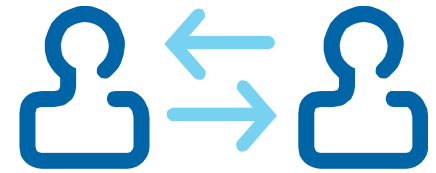
- Time from exposure to developing symptoms:
  - is 1 to 4 days;
  - average ~ 2 days.





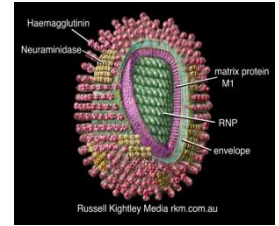


# Influenza Infectivity



- Most healthy adults may be infectious from 1 day **before** symptoms develop through 5 days **after** becoming ill.
  - Age and health of the person will impact how long contagious
  - Young children and people with weakened immune systems may be infectious > 1 week.
- Some people can be infected but have no symptoms – they can still spread the virus
  - Best Practice: all Health Care Workers receive influenza immunization

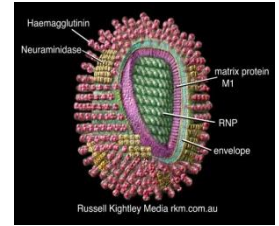
# Who is at Higher Risk of Developing Complications



Influenza can lead to other health problems, especially for individuals who:

- Have heart or lung conditions, diabetes, a weak immune system, a lot of extra weight, or other health problems
- Live in a care facility
- Are under 5 years of age
- Are over 65 years of age
- Are pregnant
- Are Indigenous

# Complications of Influenza



Complications of Influenza can include:

- pneumonia (bacterial and viral)
- ear and sinus infections
- dehydration
- worsening of chronic medical conditions such as congestive heart failure, asthma, or diabetes

# Treatment of Influenza



- Non-complicated cases of influenza are generally managed at home – “self-care”
  - Bed rest
  - Analgesics
  - Fluids
  - Time (typically 3-7 days for the majority of people, although cough and malaise can persist for >2 weeks, especially in elderly people and those with chronic lung disease).

# Influenza Prevention



- Annual influenza immunization
- Cover your cough
- Hand hygiene
- Avoid touching eyes, nose or mouth
- Clean and disinfect high touch surfaces
- Healthy lifestyle (exercise, water, diet, avoid smoke)
- Avoid crowds when influenza is around

# Influenza Prevention



## Handwashing:

- Use regular soap – antibacterial soap not recommended
  - Lather and friction for at least 20 seconds
  - Rinse well
  - Dry well

# Influenza Prevention



## Self Care at Work

- Frequently wipe down keyboard, mouse and phone
- If ill, stay home!
- Practice hand hygiene frequently
  - especially after contact with high touch surfaces
  - before eating

# Antiviral Therapy



- Antiviral drugs currently used in Canada for the treatment and prevention of seasonal influenza are oseltamivir (Tamiflu<sup>®</sup>), which is administered orally and zanamavir (Relenza<sup>®</sup>), which is inhaled.
- Each year, antiviral therapy guidelines are prepared by Association of Medical Microbiology and Infectious Disease Canada (AMMI)

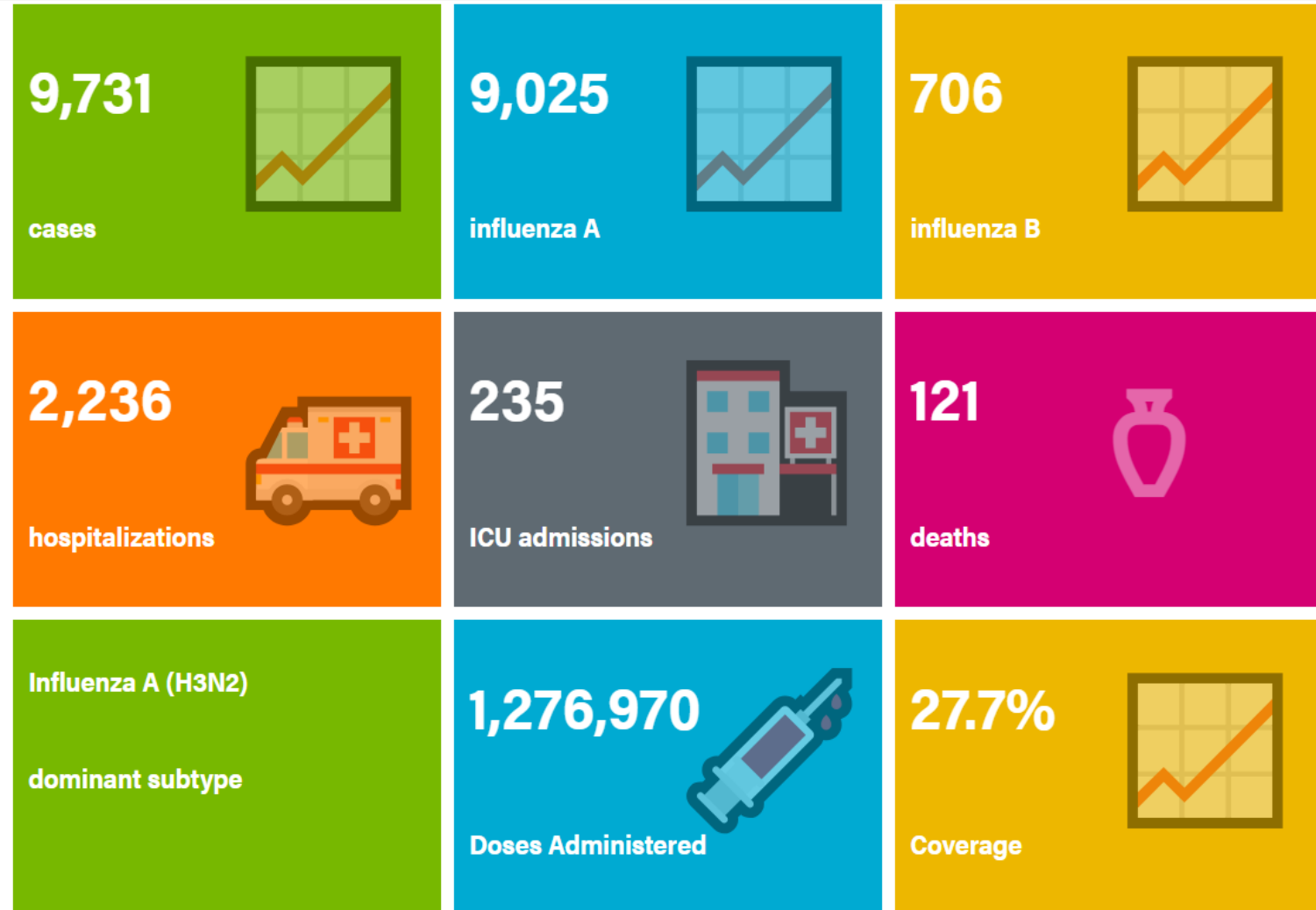


# Public Health Measures Work

- 2020/2021 lab confirmed flu cases in Canada:
  - 69 cases. Influenza cases in Canada stopped almost immediately when COVID restrictions were put in place.
- 2021/2022 lab confirmed flu cases in Canada:
  - 16 126 cases. COVID restrictions easing.
- 2022/2023 lab confirmed flu cases in Canada:
  - 74,315 cases. COVID restrictions eased.

FluWatch Report Weeks 30-34 (Government of Canada, Public Health Agency of Canada)

# Summary of laboratory-confirmed seasonal influenza in Alberta, 2022-2023



# Summary of **On Reserve** Influenza Activity 2022-2023

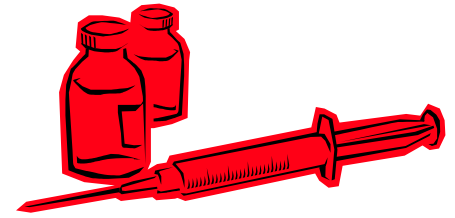
- Total number of Influenza A/B cases – Unknown
  - 109 discovered from AHS referrals and GenXpert
- Total number of cases Hospitalized – 53 (↑of 17)
  - Subtype of those hospitalized – H3N2
  - Only 2 of 53 were immunized; both with medical issues
- Total number of Deaths – 10 (↑of 7)
  - Aged 29-87 (aver. 58 years). All 3 treaty areas.
  - None immunized
  - Subtypes: H1N1 (5 people); H3N2 (5 people).

Statistics from AB FNIHB CDC 2023

# Summary of **On-Reserve** Influenza Vaccine Doses Administered, 2017-2022

Flu Season Year	Total Doses Administered	2 <sup>nd</sup> Doses (6 mo - 8 yr olds)
2022-2023	9,060	36
2021-2022	10,469	25
2020-2021	12,811	35
2019-2020	14,173	98
2018-2019	14,173	82
2017-2018	13,156	82

Data Source: OKAKI Analytics –  
CHIP Regional Reports



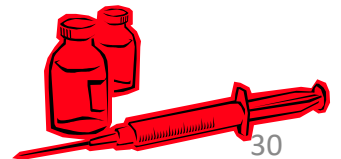
# INFLUENZA VACCINES



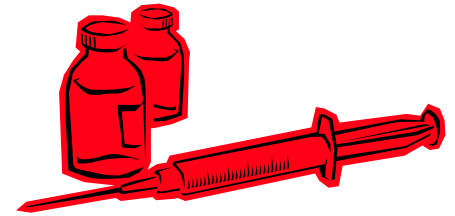
# Influenza Vaccine Development

Each February, the WHO recommends which strains should be included in the Influenza vaccines for the Northern Hemisphere.

- A new vaccine is formulated each year based on these recommendations
- Each vaccine lot is tested on healthy individuals to ensure the vaccine is safe and effective.

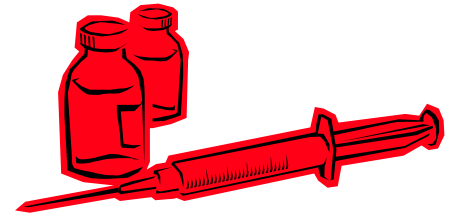


# Influenza Vaccine



- There are 4 components in the quadrivalent vaccine (*2 Type A & 2 Type B*) and 3 components in trivalent vaccines (*2 Type A & 1 Type B*)
  - Tailored to match the strains projected to be in circulation

# Influenza Vaccine

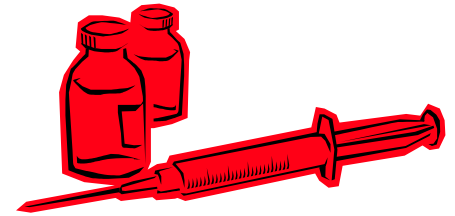


Inactivated (killed) vaccines:

- The vaccine cannot cause influenza disease
- The virus is grown in hen eggs, inactivated, broken apart and highly purified
- The vaccine may contain:
  - Thimerosal (preservative in multidose vials)
  - Trace residual amounts of egg proteins, formaldehyde, Triton X-100 (an emulsifier), ethanol, and sucrose
- Check the product monograph for a full list because ingredients vary by vaccine.



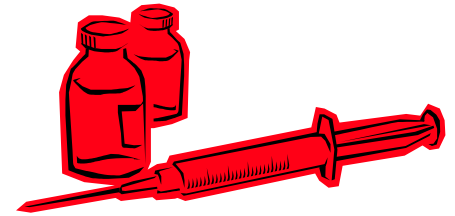
# Influenza Vaccine



## Inactivated (killed) vaccines (con't):

- Both humoral and cell-mediated responses play a role in immunity.
- Administration of inactivated influenza vaccine results in the production of IgG antibodies to the virus
- A cytotoxic T lymphocyte response is also initiated
- Humoral antibody levels, which correlate with vaccine protection, are generally achieved 2 weeks after immunization; immunity usually lasts less than one year
- Initial antibody response may be lower in the elderly and in individuals who are immunocompromised.

# Influenza Vaccine



- Children between 6 months of age up to and including 8 years of age ***require 2 doses the first year they get a seasonal influenza immunization.***
  - Only require 1 dose in subsequent years
- Everyone else only needs 1 dose each influenza season

# Effectiveness of Influenza Vaccines



Vaccine effectiveness depends on the similarity between vaccine strains and the strains in circulation during influenza season, as well as individual factors.

# Effectiveness of Influenza Vaccines



- The body's immune response from vaccination diminishes within a year.
- Influenza viruses change frequently, so the vaccine is updated each year to keep up with the changes.

# The Ever-Changing Virus

Influenza viruses undergo continuous change in two ways:

1. The first, known as antigenic drift occurs when small genetic mutations lead to changes in the surface proteins of influenza viruses.
2. The second is when influenza A virus undergoes a significant and abrupt change which is known as antigenic shift. Influenza pandemics occur when most humans have little or no immunity to a novel influenza A virus which leads to sustained human-to-human transmission and community-wide outbreaks.

Alberta Public Health Disease Management Guidelines – Seasonal Influenza, Sept 2023

# Effectiveness of Influenza Vaccines



- Vaccine efficacy of 50% or lower in healthy adults has been identified during select seasons of vaccine mismatch.
- A vaccine that is not perfectly matched can still offer protection against related viruses making illness milder and preventing complications.

# Effectiveness of Influenza Vaccines



Fluzone™ High Dose (HD) vaccine:

- there is good evidence that Fluzone™ HD provides better protection compared to Fluzone™ standard dose (SD) in adults 65 years of age and older.
  - Rates of seroconversion about 19% higher for 65 years and older (range: 8 – 39%)
  - Higher rates of seroconversion also noted for those 75 years and older.

# **2022 SEASON PROGRAM OVERVIEW**



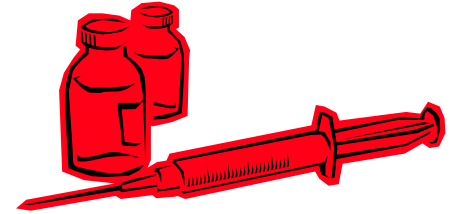
# Co-administration with COVID-19 & other Inactivated Vaccines

- Alberta Health has determined that COVID-19 vaccines may be co-administered with, or at any time before or after other inactivated or live vaccines to those 6 months and over.
- **COVID-19 and influenza immunizations can be given at the same visit (separate syringes with adequate spacing) or no concern about time intervals between the two vaccines.**

# COVID-19 XBB.1.5 Vaccine

- On Sept 12, 2023 Health Canada authorized the use of the Moderna SPIKEVAX™ COVID-19 vaccine targeting the Omicron XBB.1.5 subvariant for people six months of age and older.
- Alberta Health and AHS are reviewing this recommendation and will be making a public announcement & creating vaccine biological pages in the coming days.

# Influenza Vaccine



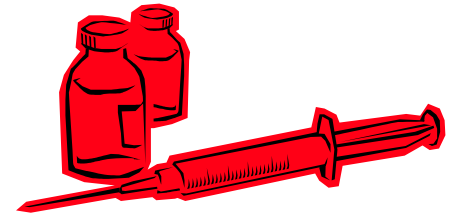
Two quadrivalent inactivated influenza vaccines will be used for the universal influenza program:

- **Fluzone<sup>®</sup>**
- **FluLaval<sup>®</sup>Tetra**


One quadrivalent inactivated influenza vaccine is available for individuals 65 years of age and older

- **Fluzone<sup>®</sup> HD (High Dose)**
  - Has 4 times the amount of antigen than “regular” Fluzone<sup>®</sup>

# Influenza Vaccine



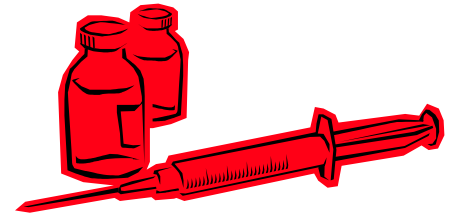
## 2022 – 2023 components in influenza vaccines:

- **A/Victoria/4897/2022** (H1N1) pdm09 - like virus 
- **A/Darwin/9/2021**(H3N2)-like virus
- **B/Phuket/3073/2013** (B Yamagata lineage)-like virus
- **B/Austria/1359417/2021** (B/Victoria lineage)-like virus

Changes from last year's vaccine:

- 1 A strain is different (updated)

# Immunization



- The universal program is for anyone 6 months of age and older who lives, works or studies, or is temporarily visiting in Alberta.
  - Includes those on visiting from other provinces
  - Can provide influenza immunization to individuals working in the community even if they don't live there
- There is a focus on increasing uptake for:
  - People at high risk of influenza-related complications or hospitalization (identified on slide following)
  - People capable of transmitting influenza to those at risk (identified on slide following)

# People at high risk of influenza-related complications or hospitalization:

- All pregnant women
- People of any age who are residents of nursing homes and other chronic care facilities
- Adults 65 years of age and older
- All children 6–59 months of age
- Indigenous peoples

Adults and children with the following chronic health conditions:

- cardiac or pulmonary disorders (includes bronchopulmonary dysplasia, cystic fibrosis, and asthma)
- diabetes mellitus and other metabolic diseases
- cancer, immune compromising conditions (due to underlying disease, therapy or both)
- renal disease
- anemia or hemoglobinopathy
- neurologic or neurodevelopmental conditions
- morbid obesity (body mass index [BMI] of 40 and over)
- children 6 months to 18 years of age undergoing treatment for long periods with acetylsalicylic acid, because of the potential increase of Reye's syndrome associated with influenza

*Source: 2023 NACI Statement: List 1 of section II*

# People capable of transmitting influenza to those at risk:

- health care and other care providers in facilities and community settings
- household contacts, both adults and children, of individuals at high risk, whether or not the individual at high risk has been vaccinated:
  - household contacts of individuals at high risk
  - household contacts of infants less than six months of age, as these infants are at high risk but cannot receive influenza vaccine
  - members of a household expecting a newborn during the influenza season
- those providing regular child care to children 0 to 59 months of age, whether in or out of the home
- those who provide service within closed or relatively closed settings to people at high risk (e.g. crew on a ship)

*Source: 2023 NACI Statement: List 1, section II*

# Others recommended for flu vaccine:

- Essential community service workers
  - To minimize health-related absenteeism and public disruption during epidemics.
- Poultry handlers
  - Preventing infection from human influenza prevents theoretical risk of a worker being co-infected with avian influenza virus' (reassortment of genes)
  - Poultry culling operations due to avian flu is high risk.

*Source: 2022 NACI Statement: List 1 of section II*

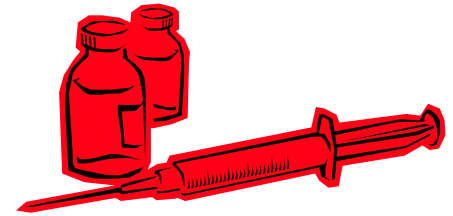


# NACI statement 2023

- Health Care Workers who have direct patient contact should consider it an essential component of their standards of care to receive annual influenza immunization as a way to protect themselves and their patients.
- This should be considered part of their responsibility to provide the highest standard of care.

The National Advisory Committee on Immunization (NACI) is a national advisory committee of experts in the fields of pediatrics, infectious diseases, immunology, medical microbiology, internal medicine and public health.

# Influenza Vaccine



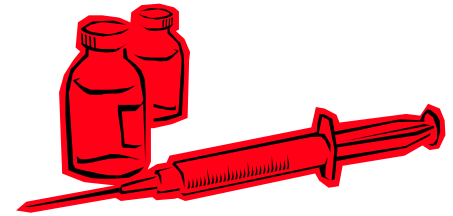
	Fluzone® (QIV) (Sanofi Pasteur)	FluLaval Tetra™ (QIV) (GlaxoSmithKline)
Strains included	<ul style="list-style-type: none"> <li>• <b>A/Victoria/4897/2022</b> (H1N1) pdm09 - like virus</li> <li>• <b>A/Darwin/9/2021</b> (H3N2)-like virus</li> <li>• <b>B/Phuket/3073/2013</b> (B Yamagata lineage)-like virus</li> <li>• <b>B/Austria/1359417/2021</b> (Victoria lineage)-like virus</li> </ul>	
Licensed for	6 months of age and older	6 months of age and older
Packaging	Single dose: pre-filled syringe Multi-dose: 5 mL vial	Multi-dose: 5 mL vial
Ingredients	<ul style="list-style-type: none"> <li>• Formaldehyde</li> <li>• Triton X-100 (prevents aggregation and precipitation)</li> </ul> <p>Multidose vials also contain:</p> <ul style="list-style-type: none"> <li>• Thimerosal</li> </ul> <p>See monograph for complete list</p>	<p>Multidose vials contain:</p> <ul style="list-style-type: none"> <li>• Thimerosal</li> <li>• Trace amounts of formaldehyde, egg proteins, ethanol</li> <li>• Polysorbate 80</li> </ul> <p>See monograph for complete list</p>

# Fluzone High Dose

- For the 2023 flu program:
  - **High Dose quadrivalent** influenza vaccine.
  - Fluzone™ High Dose will be provided for anyone 65 years of age or older; the same as last 2 years



# Influenza Vaccine



	Fluzone™HD (QIV) Sanofi Pasteur (High Dose)
Strains included	<ul style="list-style-type: none"><li>• <b>A/Victoria/4897/2022</b> (H1N1) pdm09 - like virus</li><li>• <b>A/Darwin/9/2021</b> (H3N2)-like virus</li><li>• <b>B/Phuket/3073/2013</b> (B Yamagata lineage)-like virus</li><li>• <b>B/Austria/1359417/2021</b>(B/Victoria lineage)-like virus</li></ul>
Licensed for	<ul style="list-style-type: none"><li>• 65 years of age and older</li></ul>
Program use	<ul style="list-style-type: none"><li>• 65 years of age and older</li></ul>
Packaging	Single Dose: Pre-filled syringe
Ingredients	<ul style="list-style-type: none"><li>• 60 µg hemagglutinin (HA)<ul style="list-style-type: none"><li>○ 4 times more than in standard dose vaccine</li></ul></li><li>• Formaldehyde</li><li>• Sodium phosphate</li><li>• Egg protein, propagated in embryonated chicken eggs</li><li>• Triton X-100</li></ul> <p>See monograph for complete list</p>

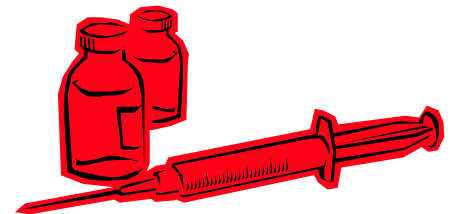
# Vaccine Eligibility, Dosing & Scheduling

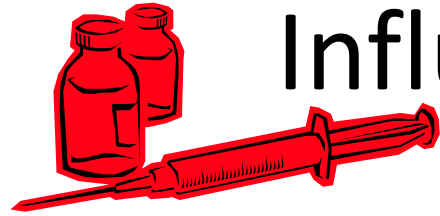
Age	QIV	QIV High Dose	# of Doses
<b>Infants under the age of 6 months</b>	Not eligible	Not eligible	Not eligible
<b>Individuals 6 months up to and including 8 years of age who HAVE NOT received influenza vaccine in a previous season:</b>	0.5 mL IM	Not eligible	2 doses, 4 weeks apart
<b>Individuals 6 months up to and including 8 years of age who HAVE received influenza vaccine in a previous season:</b>	0.5 mL IM	Not eligible	1 dose
<b>Individuals 9 to 64 years of age:</b>	0.5 mL IM	Not eligible	1 dose
<b>Individuals 65 years of age and older:</b>	0.5 mL IM	0.7 mL IM	1 dose of either QIV or QIV HD (high dose should be offered as first option)

# Influenza Vaccine

- Multi-dose vials and prefilled syringes must be shaken well before each dose:
  - will be clear to slightly off white suspension.
- Multi-dose vials: discard 28 days after first puncture into the vial.
- Do not freeze. Protect from light.

MDV = Multi-Dose Vial; PFS = Pre-filled Syringe

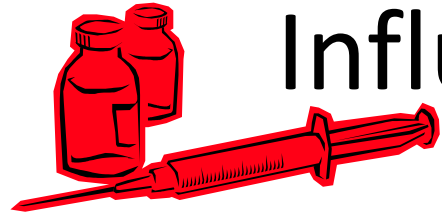




# Influenza Vaccine Reactions

Side effects from the vaccine tend to be mild and go away in a few days. They include:

- Redness, swelling, bruising, or feeling sore at the injection site
- Crying, feeling tired, or getting upset
- Headache
- Fever or chills
- Body aches or sore joints
- Loss of appetite
- Nausea, stomach pain, vomiting, loose stool
- Sore throat, cough or runny nose



# Influenza Vaccine Reactions

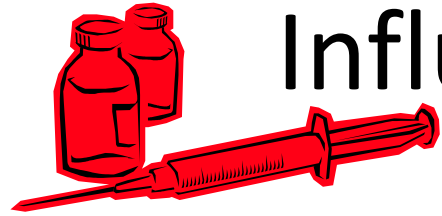
## **Uncommon:**

- Lymphadenopathy, dizziness, cough, rash, upper respiratory tract infection, injection site pruritus.

## **Rare:**

- Anaphylaxis, allergic reaction, Guillain Barré Syndrome (GBS), oculo-respiratory syndrome (ORS).
- As with any immunization, unexpected or unusual side effects can occur. Refer to product monograph for more detailed information.





# Influenza Vaccine Reactions

- Fluzone™ HD (high dose):
  - Injection site and systemic reactions more frequent with high dose vaccines
    - Higher rates of malaise, myalgia and moderate to severe fever
    - Most systemic reactions are mild and resolve within 3 days.
    - Severe adverse events are rare and similar to standard dose vaccines

# Influenza Vaccine **Contraindications**

- Infants under 6 months of age cannot receive the vaccine
- Anaphylactic or allergic reaction to a previous dose of influenza vaccine or to any constituent of the vaccine
- Known hypersensitivity to any component of the vaccine -excluding eggs.
- Individuals who developed Guillain Barré Syndrome (GBS) within 6 weeks of previous influenza immunization.



# Influenza Vaccine Precautions



NACI states:

- Egg allergy is NOT a contraindication for influenza immunization. Individuals severely allergic to eggs should be monitored for 30 minutes following immunization.
- Egg-allergic individuals may be vaccinated against influenza using any appropriate product without prior influenza vaccine skin test and without any particular consideration, including immunization setting.

***2023 NACI Statement: List 1 section II***

# Vaccine Deferral



- Vaccine should be deferred for individuals presenting with serious acute febrile illness
  - Recommend to be immunized when symptoms have resolved.
- Vaccine can be safely given to:
  - Individual with mild acute illness, with or without fever
  - Individuals recovering from illness or who are taking antibiotics or antivirals (eg. Tamiflu)

# **GBS, ORS AND AEFI REPORTING**

# Guillain Barré Syndrome (GBS)

- GBS illness affects the nervous system
  - Rare: general risk is about 2 cases/100,000 person years
  - Characterized by muscle weakness and sometimes paralysis, usually beginning in the legs
  - Complete or near complete recovery in most cases
- GBS is thought to be triggered by an infection
  - *Campylobacter jejuni* infection most commonly precedes GBS
  - Other respiratory or intestinal illness have preceded GBS (i.e. Cytomegalovirus, Epstein-Barr Virus, *Mycoplasma pneumoniae*)

# Guillain Barré Syndrome (GBS)

- In 1976, the “swine flu” vaccine was associated with increased risk of GBS: not found with any other vaccines since
- Absolute risk of GBS after influenza vaccine is about 1 excess case per 1,000,000 vaccines above background rate of 10 – 20 cases/million
- Risk of GBS associated with *influenza infection* is much greater than that associated with the immunization

**It is recommended that you DO NOT provide influenza immunization to people who have been diagnosed with GBS within 6 weeks of a previous influenza immunization.**

# Oculorespiratory Syndrome (ORS)

ORS Case Definition: **(onset within 24 hours of immunization)**

- bilateral red eyes  
**and**
- one or more respiratory symptoms (cough, wheeze, chest tightness, difficulty breathing, difficulty swallowing, hoarseness or sore throat) **with or without** facial swelling

Immunization recommendations following client reported ORS are based on:

- Risk/benefit
- Severity of symptoms as perceived by the individual who experienced the symptoms

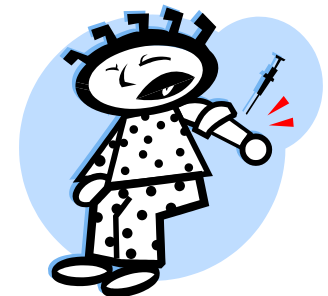
**Contact the CDC Team to have MOH review.**



# Adverse Reaction Reporting

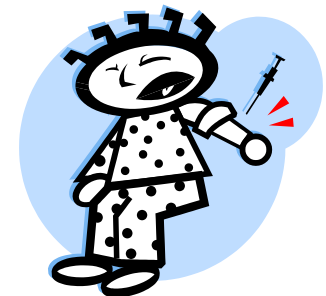
**Local reactions** are reportable if they have:

- Onset within **48 hours** following immunization **and**
  - Swelling that extends past the nearest joint **or**
  - Severe pain that interferes with the normal use of the limb lasting > 4 days **or**
  - Reaction requires hospitalization



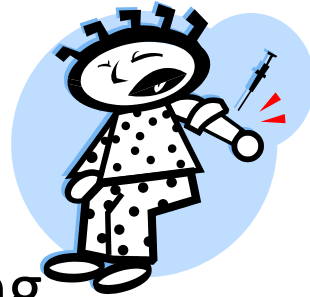
# Adverse Reaction Reporting

- Any of the following are also reportable adverse reactions:
  - GBS
  - ORS
  - Anaphylaxis – report immediately after treating
  - Other allergic reactions
  - Any unexpected reaction



# Adverse Reaction Reporting

- Use Alberta Health form: “Report of Adverse Reaction following Immunization”
  - only available on FNIHB Onehealth Website
  - speak to FNIHB CDC Team before completing
  - send completed form to FNIHB CDC Team
  - expect written response from FNIHB CDC Team
- Severe reactions are reportable within **24 hours**. All other reactions within **one week**.



# PNEUMOCOCCAL DISEASE AND VACCINES



# Why is Pneumo-Polysaccharide (Pneumo-P) Important?

- Protects against 23 common types of *Streptococcus pneumoniae* that can cause bacterial pneumonia and other serious infections like bacteremia and meningitis
- Vaccine offered to certain groups of individuals who are more at risk of serious illness
- Bacteria becoming resistant to some antibiotics
- Vaccine effectiveness related to age and immune competency of individual immunized
  - Only protects against serotypes included in vaccine
  - Vaccine is 60 – 70% effective in preventing invasive pneumococcal disease (IPD); >80% develop antibodies.

# Recommended Pneumo-P Recipients

## **Routine:**

Those 65 years of age and older, *regardless of previous Pneumo-P* (minimum spacing: 5 years)

## **Medically at Risk:**

- Individuals 24 months up to and including 64 years of age with chronic conditions.
- Individuals 24 months up to and including 64 years of age in high risk settings:
  - Homeless/shelters
  - Long term care settings
  - Alcoholism and Illicit injection drug use
  - Lengthy list...

# Recommended Pneumo-P Recipients

- A one-time reinforcing dose of Pneumo-P is recommended ONLY for individuals at highest risk of invasive pneumococcal disease.
  - See current pneumococcal biological pages for details
  - This one time dose is given 5 years after initial dose
- Individuals 65 years and older should receive one dose of Pneumo-P regardless of # of previous doses
  - Ensure any dose is at least 5 years after any previous dose

# Polysaccharide Pneumococcal Vaccine

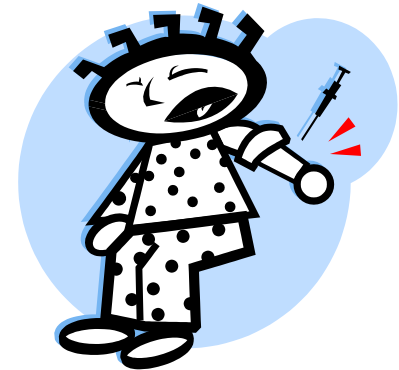
Product used: Pneumovax 23<sup>®</sup>, produced by Merck

- Pneumo-P can be administered either SC or IM, but it is recommended to use IM in deltoid.
- FLU and Pneumo-P can be administered during the same visit; using separate syringes at different sites



# Pneumo-P Reactions

- Very common:
  - Injection site soreness, redness and swelling
- Common:
  - Fever  $> 38.5$
  - Headache, malaise, chills
- Rare:
  - Large amount of swelling and pain
  - Nausea and vomiting
  - General rash



# Pneumo-P Contraindications



- Children less than 24 months of age
- Known sensitivity to any vaccine component
- History of anaphylactic reaction to any previous dose of vaccine
- Special considerations need to be given to clients undergoing splenectomies, transplants or immunosuppressive therapy. Discuss with CDC team.

# A Quick Word about Pneumococcal 13-valent Conjugate Vaccine (Prevnar<sup>®</sup> 13)

- Part of the routine child immunization schedule
- Adults High Risk for IPD are eligible for a dose
  - Eg. HIV infection, Cancers, Immunosuppressive Tx.
  - See Biological Page for complete list of indications.
- If a Prevnar<sup>®</sup>13 dose is indicated:
  - Give minimum of 8 weeks before Pneumo-P
  - If Pneumo-P was given 1st, must wait 1 yr before giving.

# A Quick Word about Pneu-C-20 Vaccine

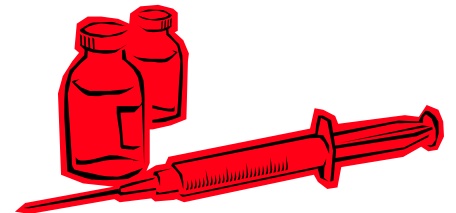
- Authorized in Canada for adults (NACI 2023-02-24 statement)
- Available for purchase in pharmacies (\$150/ dose)
- Not part of Alberta Immunization Program
- Feel free to discuss with FNIHB CDC team if your client has a documented dose in Netcare

# VACCINE MANAGEMENT

# Vaccine Management

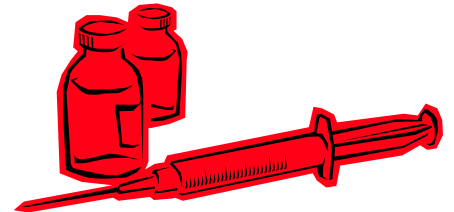
Communicate with your vaccine depot regarding influenza vaccine ordering and delivery schedules.

- # of doses shipped are based on doses administered last year
- Add influenza doses into AVI inventory as soon as received
- Reconcile in AVI Every Monday before 21:00h (9PM)



# Vaccine Management

- Store at +2°C to +8°C in original packaging. Do not freeze
- All multidose vials must be dated upon opening
- Check expiry date of all products administering
- Communicate use of nearly expired vials to other staff members
- Vaccine should be withdrawn from the vial by the immunizer administering the vaccine
- Do not mix vaccine from different vials
- Do not pre-draw vaccine



# **PROGRAM INFORMATION**



# Program Information

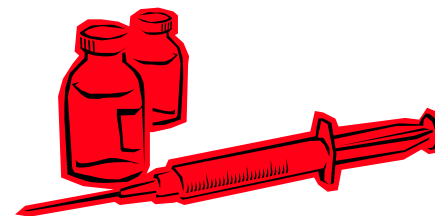
General resources will be in the Influenza section on OneHealth.

The screenshot shows the website for the Seasonal Influenza Program 2020-2021. The page is titled "Seasonal Influenza Program Resources 2020 - 2021" and features a navigation menu with options like Home, Community Health, Forms, Alberta Region, Resource Library, Calendars, and WebMail. The main content area is divided into sections: "2020 Influenza Inservice Videorecording", "2020 Influenza Inservice PowerPoint", "2019 Are you at risk for TB?", "Program Information & Resources" (with links for Immunization Recommendations, Pneumococcal Vaccines, Worksheets, and Calendars), "Handouts" (with links for various vaccine-related documents), "Screening Tools" (with links for Prescreening and Risk Assessment), and "Reporting". A large red watermark "Website to be updated" is overlaid across the page.



# IMMUNIZATION

# Immunization



## **October 2, 2023/when vaccine received:**

Soft roll out – not advertised:

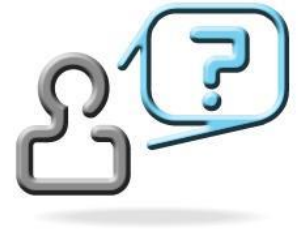
- Can begin immunizing individuals at greatest risk (HCW, home care clients, etc.)
- Can include influenza vaccine as part of routine childhood immunization clinics, include child and anyone who accompanies them.

## **October 16, 2023:**

- Advertised Influenza vaccine clinics can begin.

**Pneumo-P** is offered throughout the year and can be given at same time as influenza vaccine

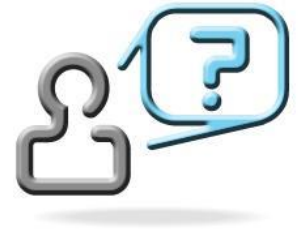
# Who Can Immunize



In order to be part of the Influenza immunization team, **all NPs, RNs, LPNs and paramedics *must* participate in or view the recording of this in-service.**

- Resources:
  - Influenza Program resources on OneHealth
  - Anaphylaxis Module
  - Best Practices: Vaccine Management

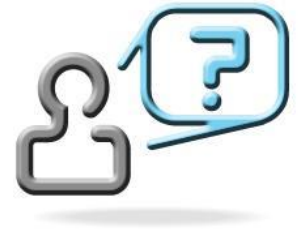
# Who Can Immunize



Following this presentation:

- RNs (public health and home care) and NPs:
  - **can** provide Influenza and/or Pneumo-P immunizations for eligible clients **of all age groups** if they have the knowledge, skills, and competence to administer the vaccine
- LPNs **can** provide Influenza and/or Pneumo-P immunizations for eligible clients **older than 5 year of age** if they meet CLPNA's requirements and have the knowledge, skills and competence to administer the vaccine. *(see next slides)*

# Who Can Immunize

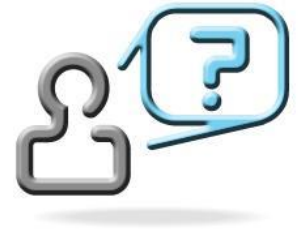


## **LPNs and Immunization:**

The Council of the College of Licensed Practical Nurses of Alberta (CLPNA) updated their policy “*Practice and Education Requirements for Restricted Activities and Advanced Practice*” effective February 1, 2020.

- Immunization no longer requires Registrar authorization and authorization will not be noted on the practice permit.
- Any LPN who graduates in Alberta after June 2022 will have education on administering immunizations as part of their diploma program.

# Who Can Immunize

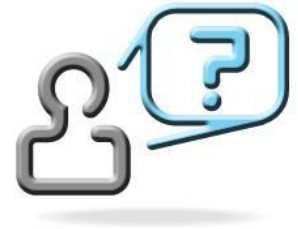


## Guidance for current LPNs:

- LPNs who have “Immunization Specialty” on their practice permit:
  - May continue to administer vaccines without need for further education/training.
- LPNs who do NOT have “Immunization Specialty” on their practice permit:
  - Must take additional training/education prior to administering immunizations
  - CLPNA website has a module on administering immunizations: available to members at no cost.

**Note: Contact CLNPA if more information or guidance is needed.**

# Who Can Immunize



## **LPNs and Immunization:**

LPNs who want to provide routine immunizations in addition to influenza and Pneumo-P should contact the FNIHB Nursing Education Team to review the process and requirements.

Nursing Education Team email: [santepubliquespniab-publichealthfnihbab@sac-isc.gc.ca](mailto:santepubliquespniab-publichealthfnihbab@sac-isc.gc.ca)



# Who Can Immunize

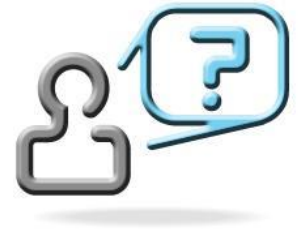


## Paramedics and Immunization

- There are different levels of emergency responders:
  - EMR: emergency medical responder
  - PCP: primary care paramedic
  - ACP: advanced care paramedic
- Administering vaccines falls within Authorized Restricted Activities for PCP and ACP.

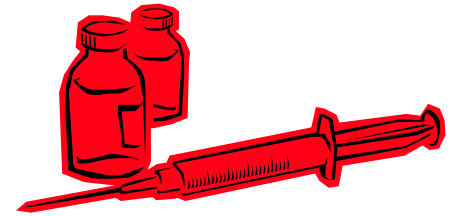
Province of Alberta, Health Professions Act: Paramedics Profession Regulation. Alberta Regulation 1151-2016

# Who Can Immunize



- The Nursing Education team has updated the *Mandatory Immunization Certification and Recertification Program* policy and guidelines for primary care and advanced care paramedics.
  - Attending or viewing the *Annual Influenza Program Overview* is part of the requirement

# Immunization Process

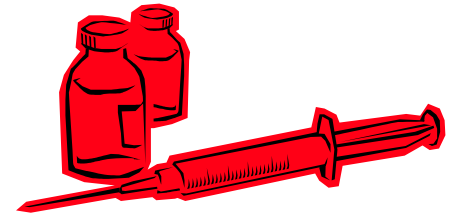


Fit to immunize:

- The immunizer will:
  - Assess the need for immunization
  - Confirm the client has not received a dose of influenza vaccine in the 2023-2024 season
  - Complete a fit to immunize assessment
    - Health status today
    - History of allergies
    - Previous reactions
    - Contraindications
    - Chronic illness/medications
    - Pregnancy

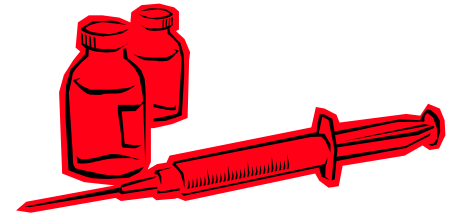
Resource:  
“Influenza Vaccine  
Pre-Screening” tool

# Immunization Process



- Must obtain “informed consent”
  - Risks and benefits of influenza vaccine (and Pneumo-P) should be discussed prior to vaccination, as well as the risks of not getting immunized
  - Do not need signature if the individual presents at a “flu clinic” and bares injection site
  - Children presenting without parent/guardian will need signed consent form or verbal consent from the parent/guardian
  - Follow residential facility consent process when providing immunization in care facilities

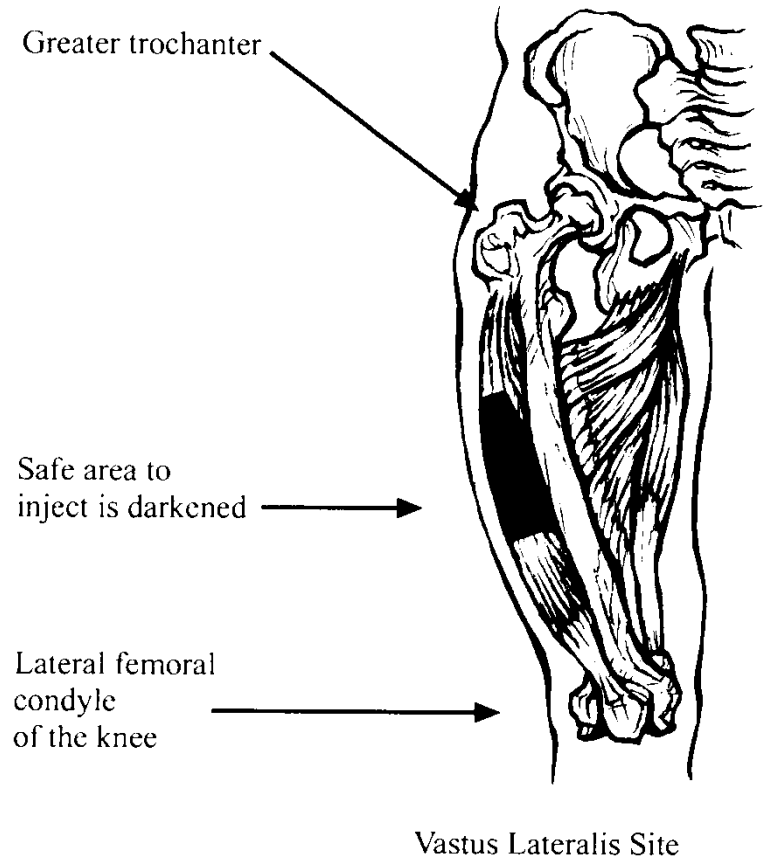
# Intramuscular Injections



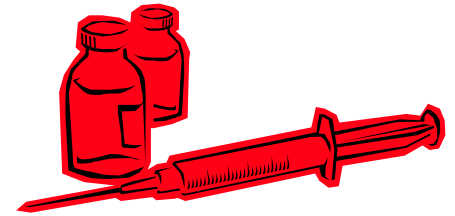
## Children < 12 months old

- 3 mL syringe
- 25G 1" needle
- insert at 90 degree angle
- vastus lateralis - middle third of anterior thigh and slightly lateral to the midline

Note: This site can be used for children older than 12 months of age with inadequate deltoid muscle mass.



# Intramuscular Injections

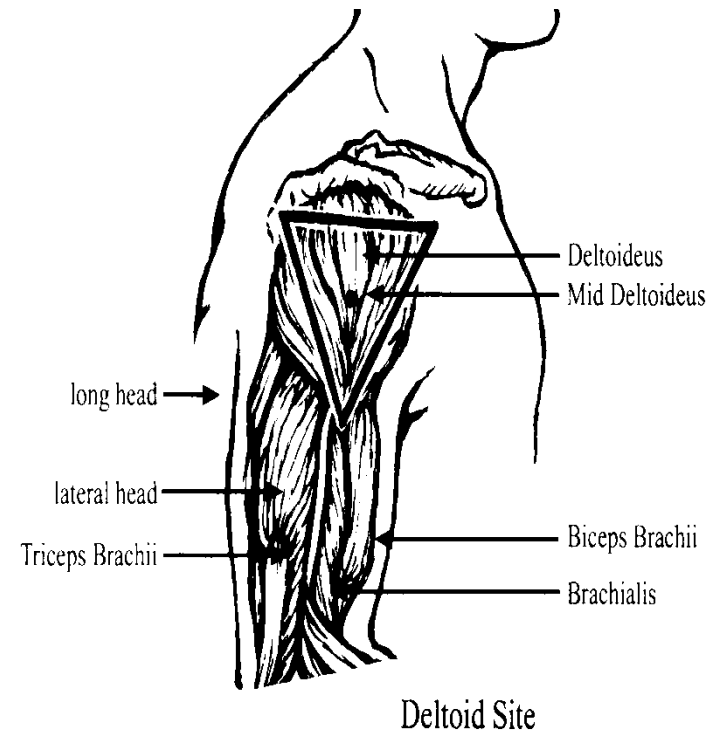


## Children $\geq$ 12 months old

- 3 mL syringe
- 25G 1" needle
- insert at 90 degree angle
- mid portion of deltoid

## Adults

- 3 mL syringe
- 25G - 1" to 1½" needle depending on muscle mass and adipose tissue
- insert at 90 degree angle
- mid portion of deltoid

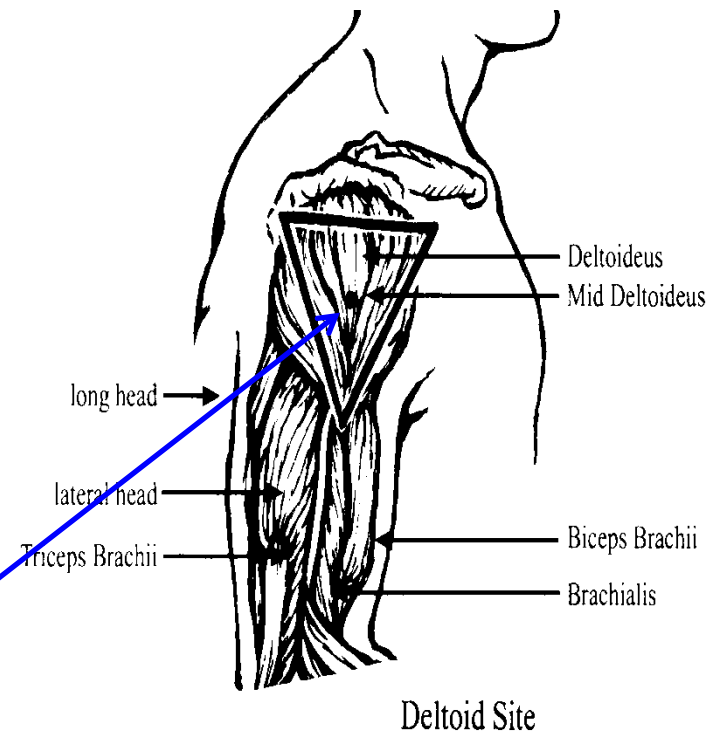


# Importance of Accurate Land-marking

## Shoulder Injury Related to Vaccine Administration:

- Sequelae of immune response to direct intracapsular injection
- Typical History/Symptoms:
  - Absence of prior shoulder dysfunction
  - Rapid onset of pain
  - Limited range of motion
  - Persists weeks/months

- ✓ **Ensure correct needle length is used, correct depth**
- ✓ **Ensure site of injection avoids the top 1/3 of deltoid**

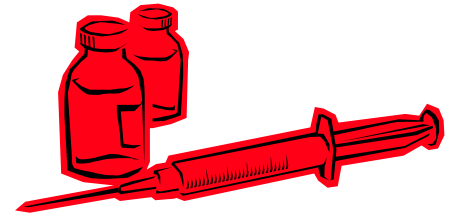


Applied Radiology, 2014;43(12):30 – 31 “Shoulder Injury Related to Vaccine Administration.”

<http://www.medscape.com/viewarticle/837089>

September 2023

# Intramuscular Injections



## **Women with history of mastectomy, lumpectomy or other breast surgery:**

- **Single Mastectomy:**
  - One vaccine: give IM in arm opposite to mastectomy.
  - Two vaccines: give both IM in arm opposite mastectomy with a minimum of 1" apart.
  
- **Double mastectomy:**
  - One vaccine: give IM in Vastus Lateralis.
  - Two vaccines: give both IM in Vastus Lateralis with a minimum spacing of 1" apart.



- Discard all influenza vaccine and influenza resources from previous years.
- All 2022-2023 flu vaccine expired at end of June.
- Reconcile wasted vaccine in AVI before receiving new product.





Resource: [Anaphylaxis Guidelines](#)

**Everyone involved in immunization must review the Guidelines for the Management of Anaphylaxis Related to Immunizations document.**

# ANAPHYLAXIS AND FAINTING

# Anaphylaxis



- Potentially life threatening allergic reaction
- Very rare (about 1 per 1,000,000 doses) but should be anticipated with every client
- Pre-immunization screening can prevent episodes
- Every immunizer should be familiar with the symptoms of anaphylaxis and be ready to initiate appropriate interventions
- Most reactions begin within 15 minutes of immunization
- All clients should be encouraged to wait 15 minutes after immunization.
  - Clients with known anaphylactic allergies, and clients with severe egg allergies should be monitored for 30 minutes after immunization

# Anaphylaxis Management

- ***All immunizers must review Anaphylaxis Guidance in the:***
  - a. Canadian Immunization Guide available on-line
    - Part 2: Vaccine Safety
    - Anaphylaxis and other Acute Reactions following Vaccination
  - b. ISC CDC Guidelines for Management of Anaphylaxis – on OneHealth

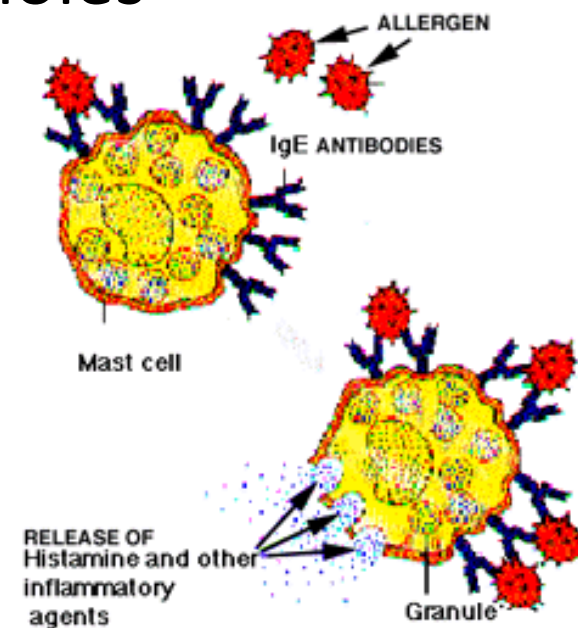
# Anaphylaxis Management

- Immunization related anaphylaxis protocol has NOT Changed.
  - Reminder that oral Benadryl is only to be used in High Alert situations.
- The epinephrine auto-injectors provided to the health centre (pediatric and adult versions) are for use as per the “Protocol For Management of Non-Immunization Anaphylaxis” ONLY.

# Quick Anaphylaxis Review

**A quick & excessive release of Histamine causes:**

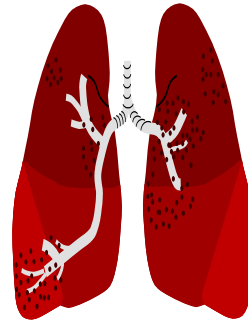
- Plasma to leave capillaries and enter tissues  
→ ++ swelling, trouble breathing
- Vasodilation of capillaries and arterioles  
→ low blood pressure
- Smooth muscle contraction  
→ trouble breathing, GI problems
- Increased mucous production  
→ trouble breathing



# Quick Anaphylaxis Review

## Respiratory:

- dyspnea - wheezing - sneezing
- choking - drooling
- cyanosis – angioedema - tightness in throat/chest



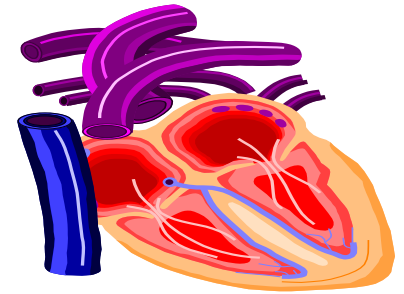
## Dermatologic (skin):

- urticaria - erythema - pruritus
- flushing - pale/grey - facial swelling
- tingling of mouth or face followed by a feeling of warmth

# Quick Anaphylaxis Review

## Vascular Collapse (cardiovascular)

- rapidly falling blood pressure
- sweating
- rapid, thready pulse
- a feeling of uneasiness, restlessness or anxiety
- weakness or dizziness
- throbbing in the ears or a headache



## Gastrointestinal:

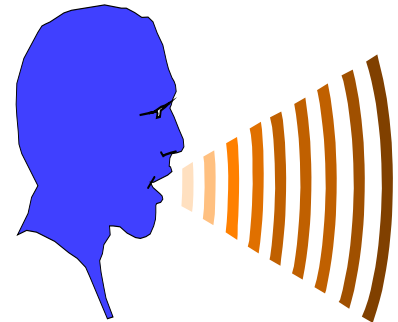
- nausea, vomiting
- diarrhea
- abdominal cramps



# Anaphylactic shock intervention

## The Initial Response ...

- Call for help
- Lie the client on his/her back with feet elevated, if possible
- Loosen restrictive clothing around the neck
- Establish an adequate airway
- Note the time
- Initiate anaphylaxis protocol



## What would you do?

Would you give this child epinephrine? Why or why not?

***If in doubt, give!***

Failure to administer epinephrine promptly is more dangerous than administering it in a situation where anaphylaxis is not truly present.



# Fainting after Immunization

- Also known as **syncope or vasovagal syncope**
  - Triggered by a stimulus (anxiety) that causes an exaggerated response in the part of the nervous system that regulates involuntary body functions (heart rate, blood flow)
  - When a stimulus triggers an exaggerated response, both heart rate and blood pressure drop, quickly reducing blood flow to the brain and leading to loss of consciousness



# Fainting after Immunization

- In about 25% of cases, reduced blood flow can result in jerking movements that resemble seizures
  - More common when fainting occurs soon after immunization and disappears when consciousness is regained
- Clients fainting due to vasovagal syncope recover quickly, usually within seconds or a few minutes



# Symptoms of Fainting

## **Musculoskeletal:**

- Muscles relaxed
- Weakness
- Incontinence (rare)
- Clonic jerks of limbs and face

## **Respiratory**

- Normal or yawning

## **Dermatologic**

- Pallor/grey colour – sweating

## **Gastrointestinal**

- Vomiting, nausea

## **Cardiovascular**

- Hypotension, Slow weak pulse
- Ringing in ears

## **Neurological**

- Light headedness, dizziness
- Spots before the eyes
- Dazed
- Unconsciousness



# Facts about Fainting

- Clear incidence peak in age 10 to 19 years of age, with smaller peak at 4 to 6 years
  - After the age of 20 years, the incidence decreases
- 57.5% occur in females
- Incidence of fainting is under-reported
- Most cases occur within 5-15 minutes of immunization
- Fainting can result in head trauma if a client falls
  - The goal is to prevent falls



# Tips to Prevent Fainting

- ✓ Administer vaccine while client is seated
- ✓ Maintain a calm and confident manner
- ✓ Observe anxious clients while seated until anxiety has resolved after immunization
- ✓ Have clients with a history of fainting lie down prior to administering the vaccine
- ✓ Clients with pre-syncopal symptoms (*such as dizziness, anxiety, pallor, perspiration, trembling, or cool clammy skin*) should sit or lie down until symptoms resolve



# Assisting Clients after Fainting

- Assist the client to lay down with feet elevated
- Ensure the client's airway is open (ABCs)
- Monitor for signs of allergic reaction
- Call for assistance if needed
- Cover client with blanket for warmth if available
- Wipe client's forehead with cool damp cloth
- Can offer fluids
- Have the client resume a standing position in stages (sit, stand, walk)
- Observe the client until the symptoms have resolved

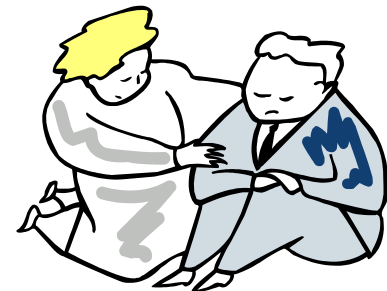




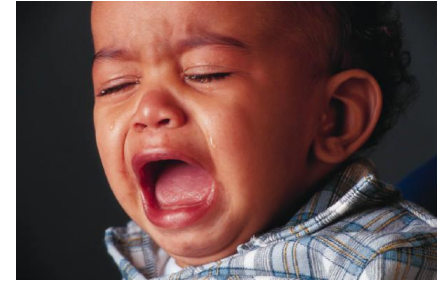
# Anxiety Spells



- Symptoms:
  - Fearful, pale, diaphoretic
  - Complains of light headedness, dizziness, numbness, and tingling of face and extremities
  - Hyperventilation
- Treatment
  - Reassurance
  - Instruct to relax and breathe slowly



# Breath Holding



- Occurs in young children when upset
  - Suddenly become quiet but still very agitated
  - Facial flushing and perioral cyanosis
  - Often ends with resumption of crying, or a brief period of unconsciousness during which time breathing resumes
- Treatment:
  - reassurance



# INFECTION PREVENTION AND CONTROL



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# Infection Prevention and Control

- Hand hygiene is critical
  - Must be done between each client
    - ✓ *Waterless hand gel*
  - Hand creams to maintain skin integrity
- Gloves are **not** recommended during immunizations
- “Respiratory Etiquette” protocol.
  - coughing/sneezing into tissue or upper sleeve
  - providing masks PRN



# Infection Prevention and Control

- **Vaccine Administration**

- Ensure a clean workspace

- Clean surface at start and end of day
- Establish clean work area (blue pad, professional towel, etc.)

- Avoid placing papers, pens in this area

- **Sharps management**

- Use safety syringes and needles

- Sharps disposal at point of contact



# Vaccine Clinic Guidelines

- Key Components:
  - Screening:
    - self-screen for all staff
    - Process to screen clients (appointments, prior to entry)
  - Physical Distancing:
    - Scheduled appointments or mass immunization clinic approach
    - Limit number of clients at any one time (including 15 minute post immunization wait time)
    - One way traffic flow, i.e: entry → waiting area → immunization station → post immunization waiting area → exit.

# Vaccine Clinic Guidelines

- Infection Prevention and Control:
  - Hand hygiene: clients must perform hand hygiene upon entry to site
  - Environmental cleaning: cleaning of high touch areas at least twice daily, or when dirty.
  - Mandatory mask use discontinued by MOH July 2023
    - Have masks available to people mildly symptomatic or who otherwise choose to wear one.

# Vaccine Clinic Guidelines

- Other recommendations:
  - Minimize large groups
    - i.e. one immunizer : one person
  - Maintain list of staff/clients for each clinic
  - Signage to help with instructions
  - Consider various clinic formats in accordance with available resources/community context, e.g.:
    - Drive through immunization clinics
    - Immunize during home visits
    - Outreach/mobile clinics

PHAC 2020: “Guidance for Influenza Vaccine Delivery in the presence of COVID-19”.

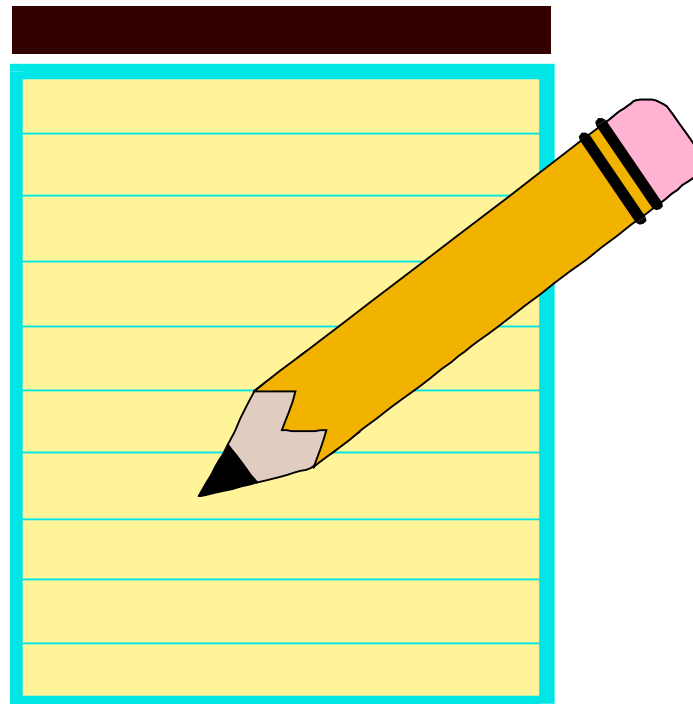


# Vaccine Clinic Guidelines

The FNIHB August 21, 2020 guidance document also includes recommendations for:

- Immunization clinics in Community Health Centres/Nursing Stations
- Immunizations during Home Care Visits or Door-to-Door campaigns
- Parking lot or drive through clinics
- Outreach or mobile clinics
- School-based clinics

# Recording & Data Collection



# Overall Objectives



- Immunization Coverage:
  - **80%** of all persons  $\geq$  65 years of age
  - **95%** residents of LTC facilities
  - **80%** of HCWs
  - **80%** of children 6 to 59 months of age
  - **100%** assessment for Pneumo-P eligibility with all individuals presenting for influenza vaccine
- **100%** TB assessment for chronically ill adults
  - See TB screening algorithms

# Alberta Health Reason Code Changes

- Instead of the previous list, one reason code is in use for 2023-2024:
  - Routine Recommended Immunization - Code 50

# Immunization Reporting Requirements

- Weekly clinic summary of influenza doses administered
  - To be submitted by **Monday, noon**, for the previous week's activity ***if not*** submitting through CHIP.
- Adverse Reactions:
  - Submit reportable reactions *to Regional CDC* as they occur
  - Reminder to monitor for unexpected AEs.

Documents will be updated and  
placed on OneHealth



# Immunization Documentation Requirements

## Information to include when charting:

- Client demographic information
  - Full name, PHN, DOB, gender, full address
- Vaccine name, lot number
- Dosage administered, dose number
- Site of injection, route of administration
- Immunizer name, designation and signature
- Date of immunization



# Influenza Immunization Record

- An electronic form is available:
  - It can be filled by typing information in, then printing, or
  - It can be printed then filled manually by writing the information on it
  - It does not specifically include Pneumo-P
    - use “other” section on record
    - Document dose given on immunization record

**Influenza Immunization Record**

Last Name _____		First Name _____		Initial _____	Gender _____
Provincial Health Care Number/ULI _____			Age _____	Date of Birth (dd-Mon-yyyy) _____	
Alberta Address _____				Phone (Home) _____	
City _____	Province _____	Postal Code _____		Phone (Other) _____	
Out of Province Address (if applicable) _____			Province _____	Status <input type="checkbox"/> New to Alberta <input type="checkbox"/> Visitor	

 Informed Consent  
 Reason Code  

50	Routine Recommended Immunization (Note: Use 50A for Meditech entry)
----	--

Vaccine (Manufacturer)	
<input type="checkbox"/>	Fluzone® Quadrivalent (SF) 0.5 mL IM Lot # _____
<input type="checkbox"/>	FluLaval® Tetra (GSK) 0.5 mL IM Lot # _____
<input type="checkbox"/>	Fluzone® High-Dose Quadrivalent (SF) 0.7 mL IM Lot # _____
<input type="checkbox"/>	Other _____ Lot # _____

PNEUMO-P

 Dose     Annual  
            1 of 2             2 of 2

 Site    **Arm**     Left     Right  
           **Leg**     Left     Right

Date Vaccine Given (dd-Mon-yyyy) _____	Time Vaccine Given (24 hrs) _____
Immunizer's Full Name (first, last) _____	Designation _____
Signature _____	Meditech ID Number _____



# Influenza Client Immunization Record and Care After Immunization

**Keep this document as your personal immunization record.**

The *Influenza Client Immunization Record and Care After Immunization* sheet will remind clients of side effects and act as a record of immunization.

Immunization Record				
Last Name	First Name	Middle Initial		
Date of Birth <i>(dd-Mon-yyyy)</i>	Date of Influenza Immunization <i>(dd-Mon-yyyy)</i>			
<b>For children who need 2 doses of Influenza vaccine:</b>  Next dose is due on or after _____	Dose <input type="checkbox"/> Annual <input type="checkbox"/> 1 of 2 <input type="checkbox"/> 2 of 2			
	<b>Vaccine (Manufacturer)</b> <input type="checkbox"/> Fluzone Quadrivalent (Sanofi Pasteur) <input type="checkbox"/> FluLaval Tetra (GlaxoSmithKline) <input type="checkbox"/> Fluzone High-Dose Quadrivalent (Sanofi Pasteur) <input type="checkbox"/> Other _____			
	<b>Lot Number</b> _____			
	_____			
Care After Immunization				
<b>Side Effects</b> Many people have no side effects from the influenza vaccine. If you do have side effects, they tend to be mild and go away in a few days. Side effects may include:				
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <ul style="list-style-type: none"> <li>redness, swelling, bruising, a hard spot, or feeling sore where you had the needle</li> <li>crying or getting upset easily</li> <li>feeling tired or unwell</li> <li>a headache</li> <li>a fever or chills</li> </ul> </td> <td style="width: 50%; vertical-align: top;"> <ul style="list-style-type: none"> <li>body aches or sore joints</li> <li>not feeling hungry or not wanting to eat (poor appetite)</li> <li>feeling sick to your stomach (nausea), stomach pain, vomiting (throwing up), or loose stool (diarrhea)</li> </ul> </td> </tr> </table>			<ul style="list-style-type: none"> <li>redness, swelling, bruising, a hard spot, or feeling sore where you had the needle</li> <li>crying or getting upset easily</li> <li>feeling tired or unwell</li> <li>a headache</li> <li>a fever or chills</li> </ul>	<ul style="list-style-type: none"> <li>body aches or sore joints</li> <li>not feeling hungry or not wanting to eat (poor appetite)</li> <li>feeling sick to your stomach (nausea), stomach pain, vomiting (throwing up), or loose stool (diarrhea)</li> </ul>
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It is rare to have a serious side effect. Call Health Link at 811 to report any serious or unusual side effects.				
For more information about the influenza vaccine, read the influenza vaccine information on <a href="https://ahs.ca/immunize">ahs.ca/immunize</a> or talk to your healthcare provider.				

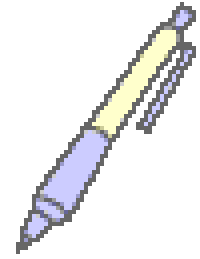
PNEUMO-P

# Influenza Immunization Record

How long do influenza immunization records need to be kept?

- If entering the **full information** into CHIP or onto hard copy immunization record, NCR is considered to be a transitory document and can be shredded once entered.
  - Full information: name, DOB, PHN, full vaccine details (product, lot number, dose, site), immunizer
- ***If only entering partial information, or not entering into CHIP or onto hard chart record:***
  - Children: keep **30 years**
  - Adults (18+): keep **11 years**

# Data collection



- All immunization providers are required to account for vaccine doses administered, vaccine doses wasted and vaccine doses on hand. The rationale for requiring data collection is:
  - To determine immunization rates
  - To be accountable for doses received/administered
  - To monitor vaccine safety
  - For planning and operational decisions for subsequent seasonal programs

# Immunization/Reporting Tools

## Weekly Influenza Clinic Summary 2022 – 2023 Influenza Season

Please submit by noon on Monday of each week (or on Tuesday following a long weekend) starting October 11, 2022 until influenza immunizations are no longer being given.

Fax to the CDC Team at 780-495-8070 or scan/email to [equipecmtab-abc-dc-team@sac-isc.gc.ca](mailto:equipecmtab-abc-dc-team@sac-isc.gc.ca)

Note: this form does not need to be completed if all influenza immunizations have been entered into CHIP and the FNIHB CDC Team has permission to access the weekly influenza immunization numbers electronically. Contact OKAKI for more information.

## Weekly Influenza Clinic Summary

- Required if permission is not given to share CHIP data to FNIHB Region
- Doesn't need to be done if all vaccines are entered into CHIP and if Okaki received community permission to share with us.

Summary of Influenza Immunizations for the week of: \_\_\_\_\_

Community: \_\_\_\_\_

Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

Document the number of influenza immunizations that have been given for each category:

Category	Number Immunized		
	Dose 1 of 2*	Dose 2 of 2*	Annual*
Children 6 months to 8 years of age*			
9 - 64 years of age			
65 years of age and older			
Column Totals			

Total Influenza Immunizations for the week \_\_\_\_\_

\*Notes: Children 6 months up to and including 8 years of age who HAVE NOT received influenza vaccine in a previous season and require two doses, document the doses as "1 of 2" or "2 of 2". Children 6 months up to and including 8 years of age who HAVE received influenza vaccine in a previous season and only require one dose, document the dose as "Annual".

# Immunization/Reporting Tools

FNIHB - Alberta Region

## Influenza Vaccination Monitoring Form 2022 – 2023 Flu Season

For use in influenza clinics, physician's clinics, home care nursing staff, pharmacists to assist with tracking.

Vial # \_\_\_\_\_

High Dose: Y N

Influenza Vaccine Lot #: \_\_\_\_\_

Format<sup>4</sup>: MDV PFS

Pneumo-P Vaccine Lot #: \_\_\_\_\_

	Name	DOB	PHN	Date Given	TB Screened (Y/N)	Pneumo-P <sup>2</sup>			Influenza			Initials <sup>3</sup>
						History of Imm.	Imm. Given Today	Refused	Not Eligible	6 months to 8 years <sup>1</sup>	9-64 years of age	
1										1 2 A		
2										1 2 A		
3										1 2 A		
4										1 2 A		
5										1 2 A		
6										1 2 A		
7										1 2 A		
8										1 2 A		
9										1 2 A		
10										1 2 A		
11										1 2 A		

Will be updated and placed on OneHealth

- For children 6 months through 8 years of age, please indicate the appropriate dose for each child. Circle "1" or "2" if this is the first year they are receiving influenza vaccine to indicate which dose in the series was given (i.e. 1 of 2=1; 2 of 2=2). If they have received influenza vaccine in a previous season and only require one dose this year, circle "A" for annual.
- Individuals eligible for Pneumo-P vaccine should be assessed as they present. Code as follows: *History of Imm.* = if they have received Pneumo-P immunization in the past and are not due; *Imm given today* = if Pneumo-P given "today" (date included in "Date Given" column); *Refused* and *Not-eligible* = self explanatory. See ***Pneumococcal Polysaccharide Vaccine Eligibility Criteria Reference***.
- The initials of the person administering the vaccine – ensure that a register of initials is maintained.
- MDV = multi-dose vial; PFS = prefilled syringe. Please circle appropriate format.

October 2022

**Optional resource – do not submit to FNIHB AB Region**

September 2023

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# OKAKI/CHIP Update for Influenza

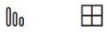
- No changes for influenza and pneumococcal vaccine codes
- Privately received vaccines (Pevnar20, adult RSV) being merged into CHIP and Netcare

# Vaccine Tracking through OKAKI/SLICE

The screenshot shows a web browser window with the URL <https://slice.okakihealth.com/reports/browse>. The application header includes the logo, "OKAKI SLICE Analytics", "Home", a search icon, a settings gear, a download arrow, a help question mark, and the user name "Lauren Bilinsky". Below the header, there are tabs for "Favorites" and "Browse" (which is active and underlined). To the right of the tabs are icons for a list and a grid view. Under the "Folders" section, there is a single folder named "CHIP Facility Reports" with a blue folder icon. A "Sign out" button is located in the top right corner of the main content area.

# Vaccine Tracking through OKAKI/SLICE

Favorites Browse



Folders (1)

Sign out

Adolescent Immunization Reports

Eg. Influenza Immunization, Imms Activity by Age and Gender, & Records to Verify



Power BI Reports (6)

CDOM Report

Community Health Report

Covid-19 Report

Infant and Preschool Coverage Rates

Seniors Immunization Report

Vaccine Checkup



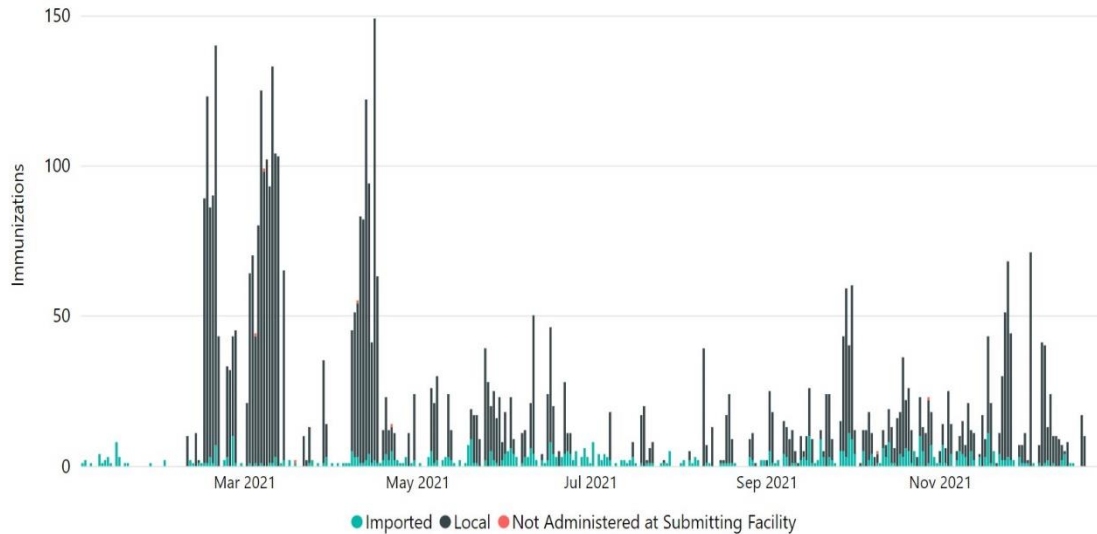
Eg. DTaP, P-13, Hib, MMR, Rota, MenC Infant to 7 years

Eg. Influenza, dTaP, P-23 Ages 65+



# Vaccine Tracking through OKAKI/SLICE

## Immunization Activity by Source



Community  ▾

Calendar Year  ▾

Age at Immunization  ▾

Vaccine  ▾

Reason  ▾

Gender  ▾

Source  ▾

In Stats  ▾

Deceased  ▾

Reset Filters

Week starts on Sunday

## Immunization Activity by Source and Week

Source	Immunizations	
Imported	641	Given outside of CHIP eg. AHS facility
Local	4762	Given in this community
Not Administered at Submitting Facility	7	Given at another CHIP facility ie. another Health Centre or Nursing Station
<b>Total</b>	<b>5410</b>	

# SURVEILLANCE



# Surveillance

- Part of international process to monitor influenza activity around the world
  - Monitor circulating strains
    - Nasopharyngeal swabs, ILI surveillance
  - Assess effectiveness of current vaccines
  - Contribute toward Pandemic Influenza preparedness



# ILI Definition

- Influenza Like Illness definition:
  - Acute onset of respiratory illness with fever and cough **and** with one or more of:
    - Sore throat
    - Joint Pain
    - Tenderness or pain in the muscles
    - General exhaustion
  - Laboratory Confirmation



# ILI Surveillance

## Weekly Influenza Activity Surveillance Report

### Weekly Surveillance Report

- Due Monday noon for the previous week ILI activity:

Please fax to the CDC Team (780-495-8070) or scan/email to [equipecmstab-abcdcteam@sac-isc.gc.ca](mailto:equipecmstab-abcdcteam@sac-isc.gc.ca) by noon each Monday for previous week's activity from October 11, 2022 through May 8, 2023

Community: \_\_\_\_\_

Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

Surveillance Report for the week of \_\_\_\_\_

Influenza-like Illness (ILI) and other Activity Codes (circle one of the following):

**0 No activity in the community**

(No influenza-like illness reported, no lab confirmed influenza cases)

**1 Minimal Influenza-like activity in the community**

(Influenza-like activity reported, no lab confirmed influenza cases)

**2 Sporadic influenza activity in the community**

(Influenza-like activity reported, one or more lab confirmed influenza cases, no outbreak of influenza cases)

**3 Widespread influenza activity in the community**

(Influenza-like activity reported, lab confirmed influenza cases, outbreak of influenza cases)

**Comments:** (additional information regarding ILI, confirmed cases, etc.)

*Will be updated and placed on OneHealth*

# Surveillance



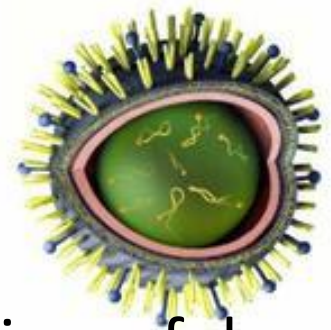
- Components of Surveillance:
  - ILI activity (no activity, sporadic, widespread)
  - NP swabs
  - Weekly surveillance reports
  - ➡ Please call Brent/Daylene/Melissa if you hear of anyone admitted to hospital with influenza.
    - ➡ We need to submit a specific report to AH for all cases hospitalized with influenza.
      - ➡ Will need hx of FLU vaccine for current and previous seasons.

# ILI Surveillance

- Begins October 2, 2023 until Spring 2024
  - Each community to designate an individual as key contact and a back-up contact for weekly surveillance
    - Does not need to be a nurse



# Swabbing for Influenza



- Confirming the cause of ILI in your community is useful
- Typically a few positive flu results may tell the story
- Traditional Resp. Path. Panels include influenza A & B
  - NP swabs in UTM transport media, shipped to APL
  - Dr. Christopher Sarin may be the ordering physician
- Optional expanded testing using the GeneXpert machines
  - Influenza A & B, and RSV
  - Require nasal or nasopharyngeal swabbing
  - Dr. Christopher Sarin is to be the ordering physician
  - FNIHB POCT training modules need to be successfully completed prior to engaging in testing





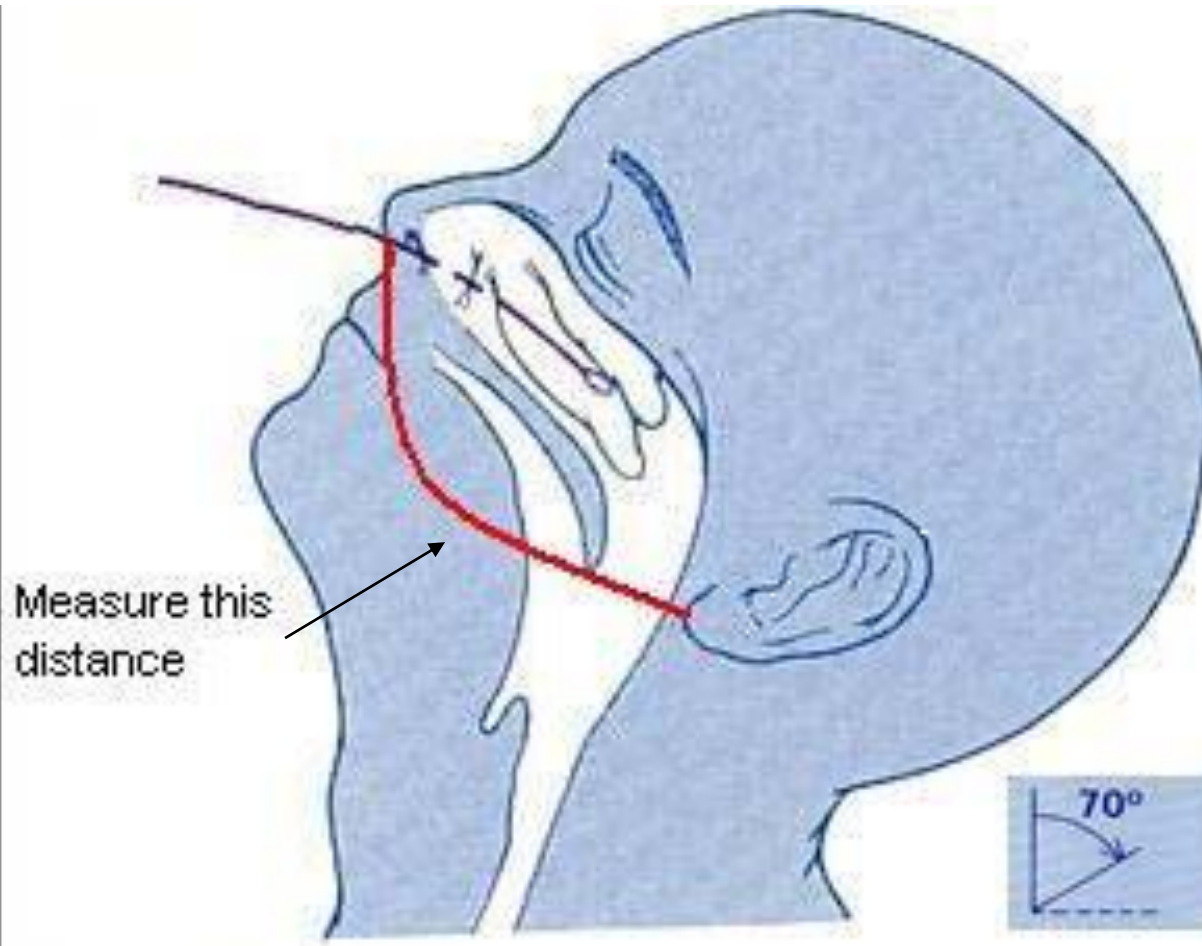
# Influenza Specimen Basics

**Check the quality of the specimen containers before and after collection.**

- Faulty containers
- Contaminated viral transport medium
- Proper capping to avoid leaking
- Expiration dates (usually a 1 year shelf life)
- Label specimen with 2 unique identifiers (name, PHN/ULI, specimen site)
- Keep specimens refrigerated and send to lab asap

# Nasopharyngeal Swabs

<http://www.provlab.ab.ca/education.htm>



# PDF Fact Sheets/Posters available for printing at this GOC Website



**SHARE TRADITIONS, NOT THE FLU**

**Adults 65 years and older are at higher risk of complications from the flu.**

Protect yourself, your family and your community:

-  Get the flu vaccine every year
-  Clean your hands often
-  Cough and sneeze into your arm
-  Keep shared surfaces and objects clean
-  Stay home and away from others if you feel sick

TO LEARN MORE, VISIT [CANADA.CA/FLU](https://CANADA.CA/FLU)

Indigenous Services Canada / Services aux Autochtones Canada






Canada



**SHARE TRADITIONS, NOT THE FLU**

**Children under 5 years are at higher risk of serious complications from the flu.**

Protect yourself, your family and your community:

-  Get the flu vaccine every year
-  Clean your hands often
-  Cough and sneeze into your arm
-  Keep shared surfaces and objects clean
-  Stay home and away from others if you feel sick

TO LEARN MORE, VISIT [CANADA.CA/FLU](https://CANADA.CA/FLU)

Indigenous Services Canada / Services aux Autochtones Canada

Canada



**THE FLU SHOT:**  
Protect yourself, protect your community



The flu can spread easily and quickly to anyone, even before you know you are sick. Indigenous people with chronic health conditions or living in overcrowded homes are at a higher risk of hospitalization and serious health complications from the flu.

Getting the flu shot can help keep you and your community healthy!

**THE FLU SHOT CAN SAVE LIVES**

- ▶ Young children, people over age 65, pregnant women, and those who are in poor health are more likely to become very sick from the flu.
- ▶ The flu shot can help protect you and your family from the flu.

**THE FLU SHOT WORKS**

- ▶ There are many different types of flu viruses. Every year, the flu shot protects against the expected 3 or 4 most common types of the virus.
- ▶ Everyone responds differently to the flu shot. The shot can either prevent the flu entirely or reduce the severity of the sickness.
- ▶ It usually takes 2 to 4 weeks to build protection after you get the flu shot.
- ▶ The flu shot does not prevent colds because they are caused by different germs.

**THE FLU SHOT IS SAFE**

- ▶ You cannot get the flu virus from the flu shot.
- ▶ Most people do not have significant side effects from the flu shot.
- ▶ Serious side effects are very rare.
- ▶ If you have concerns or questions about the flu shot, talk to your nurse or doctor.

**WHO SHOULD GET THE FLU SHOT**

- ▶ **Everyone** 6 months of age and older.
- ▶ If you are pregnant or have an allergy to eggs, you can still safely get the flu shot.

Visit your community health centre, nursing station, or local healthcare provider to get your flu shot! | To learn more about the flu shot and other ways to prevent the flu, visit: [Canada.ca/flu](https://Canada.ca/flu)



Indigenous Services Canada / Services aux Autochtones Canada

Canada

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<https://www.sac-isc.gc.ca/eng/1570037443226/1570037485313>

# PDF Fact Sheets/Posters available for printing at this AH Website

## Cover Your Cough

Stop the spread of germs that make you and others sick!



OR



Cough or sneeze into your sleeve, not your hands

Cover your mouth and nose with a tissue and put your used tissue in the waste basket

### Clean your hands after coughing or sneezing



OR



Wash your hands with soap and warm water, for at least 20 seconds

Clean hands with alcohol-based hand rub or sanitizer

Original date: October 2009  
Revised date: January 2020



## Cover your Cough



Cough or sneeze into your upper sleeve, not your hands.

OR



Cover your mouth and nose with a tissue.



Put your used tissue in the waste basket.

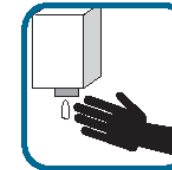
## Clean your Hands

After coughing or sneezing:



Wash with soap and water.

OR



Clean with waterless hand cleaner.



<https://www.albertahealthservices.ca/influenza/Page17625.aspx>

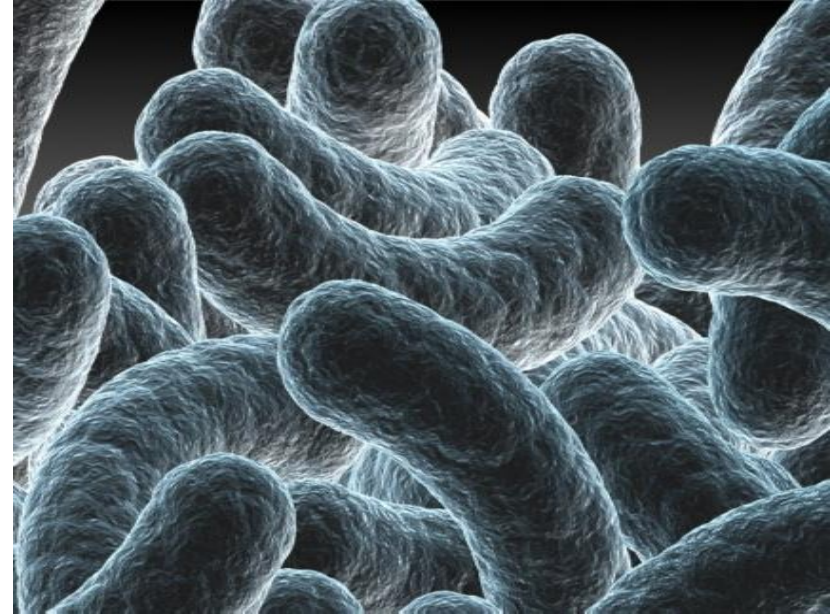
# Toolkit for Promoting Influenza Vaccinations in Communities

- <https://www.onehealth.ca/ab/Community-Health/Communicable-Disease-Control-Program/Notifiable-Diseases/Seasonal-Influenza-Program-2019-2020>

This toolkit was developed to assist health care providers in:

- Planning campaign messages;
- Locating influenza promotion resources and;
- Providing examples to assist in delivering messaging about vaccinations;
- Providing ideas to promote immunization in communities;
- Providing general messaging to share on social media pages.

<p><b>Protecting others by getting vaccinated</b></p>  <p>Saskatchewan Health Authority Retweeted  <b>Health Canada and PHAC</b> @GovCanHealth - Oct 23      Are grandparents part of your bubble? This year it's more important than ever to get your #flu shot. Protect your loved ones, yourself and your community by getting the #flushot. Learn more: <a href="https://ow.ly/55q3506Lr8A">ow.ly/55q3506Lr8A</a></p> <p>CANADA.CA/VACCINES</p>	<p><b>Educating about vaccinations</b></p>  <p>Saskatchewan Health Authority @SaskHealth - Oct 23      Joyce Desjarlais is a retired Registered Nurse. She knows #flu shot works, and the yearly influenza vaccine - "The vaccine helps to kick-start our immune response, which is more helpful than anything else if you come into contact with the influenza virus." <a href="https://saskhealthauthority.ca/news/stories/flu...">saskhealthauthority.ca/news/stories/flu...</a></p> <p>Saskatchewan Health Authority @SaskHealth - Oct 25      "We need to do everything we can to stay as healthy as we can, given COVID-19." Joyce notes, "Getting a flu shot is an important part of that effort. The shot may not completely prevent the flu, but will certainly decrease symptoms and complications." #FluShotWorks</p>
<p><b>Community Notices</b></p>  <p>Aakom-ikyii Health Services      Today is the last day for our flu clinic! If you haven't received your flu shot, please attend!</p> <p><b>Piikani Immunization for Flu vaccine</b>      Napi's Elementary School Gym      Tuesday, October 20, 2020 to Thursday, October 22, 2020 from 10:00 AM to 3:00 PM</p> <p>Members who are pregnant, over the age of 65 years and who live with a chronic condition are encouraged to come in.</p> <p>Parents are encouraged to pick up their child(ren) from school and come in together to have the vaccine.</p> <p>For more information call Aakomikyii Health Services 403-965-3809</p>	<p><b>Community Notices</b></p>  <p>Kehewin Health Services      November 2 at 5:44 PM</p> <p>We are here until 8pm! Come on down!</p> <p>THE INFLUENZA VACCINE IS AVAILABLE      LATE NIGHT INFLUENZA VACCINE CLINIC      protect yourself and your family</p> <p>KEHEWIN HEALTH SERVICES</p> <p>CALL 780-826-2913 TO BOOK YOUR APPOINTMENT</p> <p>Open 4:30pm - 8pm      MONDAY NIGHT      NOVEMBER 2, 2020</p> <p>Dr. Makokis will be providing the vaccinations</p>



# TUBERCULOSIS PROGRAM



# TB Screening During Influenza Vaccination Clinics

Goal of Pre-screen Tool:

- Identify those with signs or symptoms possibly indicative of TB disease
- Identify those with certain medical conditions/on certain medication therapies that put them at greater risk for TB disease

Using the pre-screening tool **does not** constitute a completed screen or assessment under the At Risk Medical Conditions (ARMC) Screening Program. Clients who screen positive on either portion of the pre-screening tool need further assessment and interview.

*Triage the screens based on symptoms versus no symptoms and presence of medical conditions or medical therapies. Recall clients to complete:*

- ✓ *TB History and Symptom Inquiry*
- ✓ *At Risk Medical Conditions Screening Algorithm*

## Pre-screening Tool



### Are you at risk for TB?

Do you have any of these symptoms?

Cough longer than 3 weeks	Yes	No
Coughing up phlegm	Yes	No
Fever	Yes	No
Sweating at night	Yes	No
Poor appetite and Weight loss	Yes	No
Feeling very tired	Yes	No

1. Have you been told you have any of these conditions?

Diabetes, kidney problems or other conditions that suppress your immune system  
Yes or No

2. Are you underweight? Yes No

3. Have you been told you have a positive TB skin test in the past? Yes No

4. Have you had TB disease in the past? Yes No  
When? \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Date of Birth: \_\_\_\_\_

Phone: \_\_\_\_\_

This information is for your local community health professionals to help identify your potential health risk for tuberculosis and will be confidential.

Please list any medications you are taking.

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September 2018



# TB Screening for those with At Risk Medical Conditions

1. Identify those with certain medical conditions/drug therapies that increase their risk of developing TB disease (those already having TB infection)
2. Screen and follow-up for TB using appropriate “**At Risk TB Screening Algorithm**” (High Risk vs. Moderate Risk Screening Algorithm) Protocol and algorithms for this program can be found on OneHealth.
3. Make referrals to TB Services as appropriate and continue to monitor those with At Risk Medical Conditions who have untreated TB infection

**Canada**

**TB HISTORY & SYMPTOM INQUIRY**

Client Name: \_\_\_\_\_

Gender:  M  F Band: \_\_\_\_\_

D.O.B. (yy-mm-dd) PHN: \_\_\_\_\_

Health Care Worker: Y/N Homeless: Y/N

Previous TB Disease: Y/N Date: \_\_\_\_\_ Site: \_\_\_\_\_ Previous Treatments: \_\_\_\_\_ Date: \_\_\_\_\_

Contact of Current Case? Y/N Case #: \_\_\_\_\_ Previous exposure to TB:  Self  Family

Previous Preventive TB Medication: Y/N If yes, when: \_\_\_\_\_

Menstrual Status: Date: \_\_\_\_\_ Result: \_\_\_\_\_ man BCG: Y/N/Unknown Date of Vaccination: \_\_\_\_\_

Last Chest X-Ray: Date: \_\_\_\_\_ Descriptors of TB: \_\_\_\_\_

Recent Travel: Where: \_\_\_\_\_ When: \_\_\_\_\_

Weight: \_\_\_\_\_ kg Height: \_\_\_\_\_ cm BMI: \_\_\_\_\_

Medical History	Yes	No	Comments	Yes	No	Comments
Alcohol Use (amt. frequency)				Smoker (amt. frequency)		
Cancer				Street drugs		
Diabetes				Transplant candidate		
Gastrohepatic				Organ Donor		
HIV/AIDS				Current Medications		Specify
Kidney Disease				Anti-coagulants		
Liver Disease				Anti-convulsants		
Lung Disease				Chemotherapy or Radiation therapy		
Malnutrition (BMI < 20)				Contraceptive medication		
Other Immune suppressive drug(s) or condition(s) (see Medications)				Insulin or oral Hypoglycemics		
				Stressors (dose, frequency, duration)		
				Other		

Current Symptoms	Yes	No	Onset date	Comments
Cough > 3 weeks				
Sputum with cough				
Blood in sputum				
Unexplained weight loss (amt and time frame)				
Poor Appetite				
Fever				
Fatigue				
Night Sweats				
Chest Pain				
Other symptoms (extra pulmonary disease)				
Urinary - hematuria, dysuria				
Swollen lymph nodes				
Other (please specify)				

Date: \_\_\_\_\_ Signature: \_\_\_\_\_

**At Risk TB Screening Algorithm (First Screen) HIGH RISK**

Name: \_\_\_\_\_ Date of Diagnosis: \_\_\_\_\_

DOB: (yyyy-mm-dd) PHN: \_\_\_\_\_

Community: \_\_\_\_\_ Date of Diagnosis: \_\_\_\_\_

Treatment with: \_\_\_\_\_ Date Initiated: \_\_\_\_\_

Diagnosis: \_\_\_\_\_ Date Initiated: \_\_\_\_\_

Other (Specify): \_\_\_\_\_ Date Initiated: \_\_\_\_\_

Medical Conditions: \_\_\_\_\_

**START HERE**

Symptoms of TB present?  Yes  No

If Yes: History of TB disease?  Yes  No

If Yes: Positive Tuberculin Skin Test?  Yes  No

If Yes: Adequate treatment of TB disease or infection?  Yes  No

If Yes: Do TB skin test?  Yes  No

If Yes: Is the client less than 60 years of age?  Yes  No

If Yes: Client interested in taking prophylaxis?  Yes  No

If Yes: Refer to family physician or nurse practitioner for assessment (including CXR)?  Yes  No

If Yes: Collect Sputum for AFB x 3.  Yes  No

If Yes: Refer to TB Services using the TB Services Referral form.  Yes  No

Date Algorithm completed: (yyyy-mm-dd) Signature: \_\_\_\_\_

Faxed to Alberta Region TB Program - Date: (yyyy-mm-dd) Fax: 780-495-8070

**At Risk TB Screening Algorithm (First Screen) MODERATE RISK**

Name: \_\_\_\_\_ Date of Diagnosis: \_\_\_\_\_

DOB: (yyyy-mm-dd) PHN: \_\_\_\_\_

Community: \_\_\_\_\_ Date of Diagnosis: \_\_\_\_\_

Treatment with: \_\_\_\_\_ Date Initiated: \_\_\_\_\_

Diagnosis: \_\_\_\_\_ Date Initiated: \_\_\_\_\_

Other (Specify): \_\_\_\_\_ Date Initiated: \_\_\_\_\_

Medical Conditions: \_\_\_\_\_

**START HERE**

Symptoms of TB present?  Yes  No

If Yes: History of TB disease?  Yes  No

If Yes: Positive Tuberculin Skin Test?  Yes  No

If Yes: Adequate treatment of TB disease or infection?  Yes  No

If Yes: Do TB skin test?  Yes  No

If Yes: Is the client less than 60 years of age?  Yes  No

If Yes: Client interested in taking prophylaxis?  Yes  No

If Yes: Refer to family physician or nurse practitioner for assessment (including CXR)?  Yes  No

If Yes: Collect Sputum for AFB x 3.  Yes  No

If Yes: Refer to TB Services using the TB Services Referral form.  Yes  No

Date Algorithm completed: (yyyy-mm-dd) Signature: \_\_\_\_\_

Faxed to Alberta Region TB Program - Date: (yyyy-mm-dd) Fax: 780-495-8070

\* Please use for notes on completion

Original to client file.

\* Other: Some chemotherapy drugs and treatments for psoriasis may qualify. Please consult TB services for more information and guidance.

Revision Date: April 2018

Original to client file.



\* Other: Some chemotherapy drugs and treatments for psoriasis may qualify. Please consult TB services for more information and guidance.

Revision Date: April 2018

Original to client file.

Copy to binder/file for annual tracking







# TB Queries

If you have any specific queries relating to TB screening, please contact:

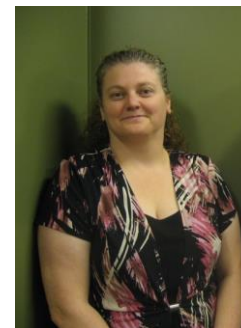
- ***FNIHB TB Program Coordinator:***

***Andrea Warman***

[andrea.warman@canada.ca](mailto:andrea.warman@canada.ca) ph: 780-983-3197

Coordinates activities around general program oversight

Facilitates support in management of cases/contacts as needed



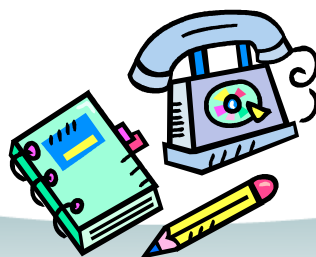
- ***FNIHB TB Screening & Education Nurse:***

***Deana Nahachewsky***

[deana.nahachewsky@canada.ca](mailto:deana.nahachewsky@canada.ca) ph: 780-718-1700

Manages the Screening Programs

Facilitates and delivers education & training to field staff



- **Thank you to everyone who is involved in the influenza program.**
- **You *are* making a difference in the health of the people in the community where you are!**

# Questions and roll call

