

Influenza Program Overview

FNIHB – Alberta Region
September 27, 2022

For videoconference and Zoom assistance Call 1-888-999-3356



Canada





Reminder: This videoconference will be recorded.





September 2021



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.

3

Acknowledgements

The National Advisory Committee on Immunization (NACI), Alberta Health, and Albert Health Services 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.
 - Alberta Health has been seeing influenza cases since September 1st

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



Type A (seasonal, avian, swine)	Type 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 other 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")
Caus	ed by	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
	otoms ar quickly	Sometimes	Yes	No. Symptoms appear gradually	Yes
Preve	ention	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
Symp	toms				
ø	Fever	Common	Common	Rare	Sometimes
řa	Fatigue	Common	Common	Sometimes	Sometimes
	Cough	Common	Common	Common	No
	Sneezing	Rare	Sometimes	Common	No
*	Aches and pains	Common	Common	Sometimes	Common
6	Runny or stuffy nose	Rare	Common	Common	No
	Sore throat	Sometimes	Common	Common	No
5	Diamhea	Common	Sometimes (especially for children)	Rare	Common
9	Headaches	Common	Common	Rare	Sometimes
	Shortness of breath	Sometimes	Sometimes	No	No
⇔₽	Loss of smell or taste	Sometimes	No	No	No

Sources: Health Canada, Centers for Disease Control and Prevention





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.
- 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

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.





- 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

Influenza Self Care Guidelines



- 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 Self Care Guidelines



Handwashing:

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

Influenza Self Care Guidelines



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 therapy
 - The National Microbiology Laboratory detected no resistance to Oseltamivir (Tamiflu) or Zanamivir (Relenza) in influenza viruses studied during the 2021-2022 season.
 - Each year, antiviral therapy guidelines are prepared by Association of Medical Microbiology and Infectious Disease Canada (AMMI)

Public Health Measures Work

- March 2020:
 - influenza cases in Canada and around the world stopped almost immediately when COVID restrictions were put in place.
- 2021/2022 influenza season in Canada
 - 16 126 cases reported as of Aug 27, 2022
 - In other years, the average number of cases are
 52,169 at the same point of time

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

Summary of laboratory-confirmed seasonal influenza in Alberta, 2021-2022

2,906	2,903	3 influenza B
523	53 ICU	14 T deaths
Influenza A (H3N2) dominant subtype	1,207,403 Doses Administered	26.8%

Summary of **On Reserve** Laboratory-Confirmed Influenza cases 2021-2022

- Total number of Influenza A/B cases Unknown
- Total number of cases Hospitalized 36
- Total number of Deaths 3
- Subtype of those hospitalized H3N2

Alberta Health Services: Influenza Immunization webpage, Accessed September 2021

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

Flu Season Year	Total Doses Administered	2 nd Doses (6 mo - 8 yr olds)
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.





- 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



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.



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.



- Children between 6 months of age up to and including 8 years of age *require 2 doses <u>the</u> 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.



- 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 <u>antigenic drift</u> 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 <u>antigenic shift</u>. 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 2022

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 (dTap, Hepatitis B, Influenza, HPV, PNEUMO-P, MMR etc.) to those 5 years and over.
- COVID-19 and influenza immunizations can be given at the same visit (separate syringes with adequate spacing) or without having to worry about spacing between the two vaccines.

Influenza Vaccine



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

- Fluzone[®]
- FluLaval®Tetra

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

- Fluzone[®] HD (High Dose)
 - Has 4 times the amount of antigen than "regular" Fluzone[®]

Influenza Vaccine



2021 – 2022 components in influenza vaccines:

- A/Victoria/2570/2019 (H1N1) pdm09 like strain
- A/Darwin/9/2021(H3N2)-like strain 🛛 🚿
- B/Phuket/3073/2013 (B Yamagata lineage)-like strain
- B/Austria/1359417/2021 (B/Victoria lineage)-like strain

Changes from last year's vaccine:

- 1 A strain is different
- 1 B strain is different

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

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)

NACI statement 2022

- Health Care Workers who have direct patient contact should consider it an essential component of their standards of care to receive 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.

Others:

- People who provide essential community services
- People who are in direct contact with poultry infected with avian influenza during culling operations

Influenza Vaccine



	Fluzone [®] (QIV) (Sanofi Pasteur)	FluLaval Tetra™ (QIV) (GlaxoSmithKline)	
Strains included	 A/Victoria/2570/2019 (H1N1) pdm09 - like strain A/Darwin/9/2021 (H3N2)-like strain B/Phuket/3073/2013 (B Yamagata lineage)-like strain B/Austria/1359417/2021Victoria lineage)-like strain 		
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	 Formaldehyde Triton X-100 (prevents aggregation and precipitation) Multidose vials also contain: Thimerosol See monograph for complete list 	 Multidose vials contain: Thimerosol Trace amounts of formaldehyde, egg proteins, ethanol Polysorbate 80 See monograph for complete list 	

Fluzone High Dose

- For the 2022 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 year



Influenza Vaccine



	Fluzone ™HD (QIV) Sanofi Pasteur (High Dose)		
Strains included	 A/Victoria/2570/2019 (H1N1) pdm09 - like strain A/Darwin/9/2021 (H3N2)-like strain B/Phuket/3073/2013 (B Yamagata lineage)-like strain B/Austria/1359417/2021(B/Victoria lineage)-like strain 		
Licensed for	 65 years of age and older 		
Program use	 65 years of age and older 		
Packaging	Single Dose: Pre-filled syringe		
Ingredients	 60 µg hemagglutinin (HA) 4 times more than in standard dose vaccine Formaldehyde Sodium phasphate Egg protein, propagated in embryonated chicken eggs Triton X-100 See monograph for complete list 		

Age	QIV	QIV High Dose	# of Doses
Infants under the age of 6 months	Not eligible	Not eligible	Not eligible
Individuals 6 months up to and including 8 years of age who HAVE NOT received influenza vaccine in a previous season:	0.5 mL IM	Not eligible	2 doses, 4 weeks apart
Individuals 6 months up to and including 8 years of age who HAVE received influenza vaccine in a previous season:	0.5 mL IM	Not eligible	1 dose
Individuals 9 to 64 years of age:	0.5 mL IM	Not eligible	1 dose
Individuals 65 years of age and older:	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.
- Known history of severe oculo-respiratory syndrome (ORS) that included lower respiratory symptoms within 24 hours of receiving influenza vaccine (contact CDC Team to have MOH review)
- 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.

Vaccine Deferral



- Vaccine may be deferred for individuals presenting with acute febrile illness
 - Recommend to be immunized when symptoms have resolved.
- Vaccine <u>can</u> 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 <u>></u> 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 56 81% effective in preventing invasive pneumococcal disease (IPD)

Recommended Pneumo-P Recipients

Routine:

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

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[®], 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[®] 13)

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

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

- All multidose vials must be dated upon opening.
- Check expiry date of all products being administered
- 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.





IMMUNIZATION

Immunization



October 3, 2022/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 17, 2022:

• Advertised Influenza vaccine clinics can begin.

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



In order to be part of the Influenza immunization team, all nurses, 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



- Following this presentation, RNs (public health and home care) and NPs who hold a current*
 FNIHB Immunization Provider Certificate:
 - *can* provide Influenza and/or Pneumo-P immunizations *for all ages* if they have the knowledge, skills, and competence to administer the vaccine



Following this presentation:

- RNs (public health and home care) and NPs who *do NOT hold a current* FNIHB Immunization Provider Certificate:
 - can provide Influenza and/or Pneumo-P immunizations for eligible clients older than 5 years of age 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)



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.



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.



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.



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



- The Nursing Education team has updated the Mandatory Inoculist 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 2022-2023 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.



Vastus Lateralis Site

Intramuscular Injections



Children ≥ 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





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.







Resource: Anaphylaxis Guidelines

Everyone involved in immunization <u>must</u> 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?

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 with age
- 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





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



shutterstock.com · 1688420458

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.

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



(-)

(-)

<u>COVID-19 Awareness Resources</u> <u>Help Reduce the Spread of COVID-19 (various languages)</u> Post COVID-19 condition

Indigenous Services Canada <u>COVID-19 and Indigenous Communities</u> <u>COVID-19 Resources and Videos (various languages)</u> <u>A Layered Approach to Protect Against COVID-19 (Infographic)</u> Communication Resources for Community Health and Safety

Information Bulletins

- Medical Officer of Health Information Bulletins
- <u>COVID-19 Update for Chiefs</u>

Community Member Awareness

- Quarantine and Isolation
- Protect Our Elders
- Mental Health and Family Violence Resources

Stigma and COVID-19

Resources

COVID-19 Funding

Telehealth Mini-Series

COVID-19 Vaccine

- General Information and Resources
- E Staff Orientation / Training
- Vaccine Clinic Resources
- AH AB Vaccine Storage and Handling for COVID-19 Vaccine AH - Management of COVID-19 vaccine administration errors and deviations AHS - Fit to Immunize Tool for COVID-19 Vaccine AHS - COVID-19 Immunization Forms AHS - Informed Consent for COVID-19 Immunization AHS - Moderna Vaccine - Frozen Vaccine Biological Page AHS - Moderna Vaccine - Frozen Vaccine - Pediatric Biological Page AHS - Pfizer BioNTech Ultra Frozen Vaccine - Adult Biological Page AHS - Pfizer BioNTech Ultra Frozen Vaccine - Pediatric Biological Page GOA - COVID-19 Immunization: Prefilled Syringes Policy SC - COVID 19 Vaccine Clinic Planning Guide ISC - Planning for Off Site Vaccine Clinics ISC - Pac hg Insulated Vaccine Bags **ISC - Vaccinator Tip Sheet** ISC - Management of Anaphylaxis Post-Immunization Directive ISC - CDC Guidelines for Management of Anaphylaxis FPTI - Consensus Approach to Vaccine Wastage Moderna Vaccine Product Monograph Pfizer Bio-NTech Vaccine Product Monograph TempTale Temperature Data Logger Data Reporting
- <u>Communications</u>
- Handouts and Tools

- Key Components:
 - Screening:
 - self-screen for all staff
 - Process to screen clients (appointments, prior to entry)
 - Physical Distancing:
 - Scheduled appointments vs mass immunization clinic approach
 - Limit number of clients at any one time (including 15 minute post immunization wait time)
 - Ensure seating in any waiting area complies with 2 metre spacing
 - Ensure minimum of 2 metre spacing between each immunization station
 - One way traffic flow, i.e: entry→ waiting area→ immunization station → post immunization waiting area → exit.

- Infection Prevention and Control:
 - Masks must be worn by all staff and all clients
 - Exception: children younger than two, individuals with respiratory conditions, and those requiring assistance to don/doff masks
 - 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.

- PPE guidance for Staff:
 - Procedure mask, eye protection (i.e. face shield, goggles) if 2 metre spacing not possible
 - Hand hygiene must be performed between clients
 - Mask and eye protection changed/disposed of :
 - If soiled, wet, damaged
 - When HCP goes on break
 - At end of shift.

- 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".

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 Doorto-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

FLU Reporting Requirements

Alberta Health has set the following reason codes for influenza immunization documentation in order riority:

- Pregnant women
- Those 65 years and olde
- Children 6 months to nonths of age
- Individuals 5 through 4 years of age why ronic health condition (h gn isk population)
- Hous A protose contacts protove
- Individ als 5 through 64 v ar not at high risk

When determining work to pick, start at the top of the list and choose the first code applies

note: Health care workers are no longer reported separately

Every vaccine administered MUST have a code attached.



Alberta Health Reason Code Changes

- Instead of the previous list, one reason code is in use for 2022-2023:
 - 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.
- Influenza Annual Summary and Denominators:
 - Influenza Target Group Summary: Due Dec 31, 2022
- Annual summary of Pneumo-P and TB High Risk screening
 - due April 30, 2023.
- 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

Alberta Heal Services	th					·		
Last Name		First Name		Infi	Initial	Gender	on Record	
Provincial Health Care Num	ber/ULI			Age	Date of	Birth (dd-Mon-yyy)	Ŋ	
Alberta Address					P	hone (Home)		
City		Province	Posta	l Code	P	hone (Other)		
Out of Province Address (# a	applicable)	P	rovince		Status	New to Alberta	Visitor	
Informed Consent			Vaccine (Manufactur	rer)			
	mended Immunization for Meditech entry)		Lot #_	al® Tetra (G e® High-Do	SK) 0.5 r se (SF) 0	nL IM		PNEUMO-P
Dose Annual	2 of 2		Site Arm Leg	-		Right Right		
Date Vaccine Given Imr (dd-Mon-yyyy)	munizer's Full Name (#	rst, last)	Designa	tion Sigr	nature			

09826(Rev2021-09)

Influenza Client Immunization Record and Care After Immunization

Keep this document as your personal immunization record.

	(F) (1)		
Last Name	First Name	Middle Initial	
Date of Birth (dd-Mon-yyyy)	Date of Influenza Immunization (dd-Mon-yyyy)	
For children who need 2 doses of Influenza v	vaccine: Dose 🗌 Annual 🗌 1 of 2	2 of 2	
	Vaccine (Manufacturer)		
Next days is due on an after	Fluzone Quadrivalent (Sanofi	Pasteur)	
Next dose is due on or after	 FluLaval Tetra (GlaxoSmithKli	ne)	
	Fluzone High-Dose Quadrivale	ent (Sanofi Pasteur)	
	Other		
	Lot Number		— PNEUMO-P
Care After Immunization			
Side Effects			
Many people have no side effects from the influe		hey tend to be mild	
and go away in a few days. Side effects may incl			

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

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 sheet on www.ImmunizeAlberta.ca or talk to your healthcare provider.

See reverse for more information

This material is for information purposes only. It should not be used in place of medical advice, instruction or treatment. If you have questions, talk to your doctor or appropriate healthcare provider.



.

104990 (September 1, 2022)

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

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.



Influenza Target Group Summary Report

 Used to determine coverage rates for community health protection reports.

Due December 31, 2022



Notes: Provide the total numbers of individuals living in the community who will meet the following criteria as of December 31, 2020:

- 1. Children 6 to 59 months old: count the number of children born between 2016 and 2020 who are at least 6 months old and who have not yet turned 5 years of age. (i.e. Jan 1, 2016 June 30, 2020)
- 2. 65 and older: i.e. born 1955 or earlier.
- 3. Number living in community: total population living on reserve.

• • • • • • • • • • • • • • • • • • • •			Influenza Vaccination Monitoring Form 2021 – 2022 Flu Season									ph nu	For use in influenza c physician's clinics, ho nursing staff, pharmad assist with tracking.				
t Numbers:	Influenza Va	ccine:			Forn	nat⁵: MI	DV P	FS	I	Pneu-P-2	23 Vaccin	e:					
	ne, date of birth d one reason fo			-	-		-					or each	individua	l receiv	ing influ	uenza vaco	
N	ame	DOB	PHN	Date	TB Screen		Pneu	mo-P ²			ority R	eason C	Code – In	fluenza	l ³	Initials ⁴	
	ame	БОВ	PEN	Given	(Y/N)	History of Imm	lmm Given	Refused	N Eligi	tc_13 nonths ¹	24 to 59 months ¹	5 to 8 years ¹	Pregnant	9 to 64 years	65+ years		
							3	<u>eu</u>		12A	12	12A					
							181	5			GUAU	12A					
						ND			216		12A	12A					
				n h	e	~ 0		ae	0 -	12A	12A	12A					
			alla				U	50		12A	12A	12A					
			N/N v		20	<u>)(</u> ,				12A	12A	12A					
										12A	12A	12A					
				3 CC						12A	12A	12A					
										12A	12A	12A					
			V							12A	12A	12A					

- 1. 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, 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 ever received Pneumo-P immunization (preferably with documentation); Imm given = if Pneumo-P given "today" (i.e. date included in "Date Given" column); Refused and Not- eligible = self explanatory. See Pneumococcal Polysaccharide Vaccine Eligibility Criteria Reference.
 - Note guidelines re 65 and older: one documented dose of Pneumo-P after age 65 regardless of previous dose(s) received; minimum spacing is 5 years.
- 3. See 2021 Seasonal Influenza Vaccine, Priority Reason Code Reference: only record one reason, using the first code that is appropriate as per reference.
- 4. The initials of the person administering the vaccine ensure that a register of initials is maintained.
- 5. MDV = multi-dose vial; PFS = prefilled syringe. Please circle appropriate format.

Optional resource – do not submit to FNIHB AB Region

Excel Resource: Fast flow clinic worksheet

2021/22 Fast Flow	Clinic Workshe	et - OPTIONA	LT	00)L																
Nurse:					Date	э:					FLU	J QIV Lot #			Format:	MDV	PFS		PPV 23	Vaccine Lo	t #:
										Flu	Imm	unization						Pneu	umoccoca	al Vaccine	
Name	DOB	PHN			Pric	ority I	Reas	on fo	or Flu	u imm	nuniz	ation (Selec	t one only	0	Site of		Not give			Given	
Name	DOD		6 -	- 23 r			- 59					9 to 64 yrs				Not Eligible	Previous PPV-23	Refused	2 to 64 chronic	65 yrs +	other
			1	2	A	1	2	A	1	2	А										
															<u>n</u>						
															ā\						
													0 0	araly							
														0100							
												50	\mathbf{O}								
										1	-6				474A						
									6		М	910	•	2	160				-		
							•		ŇΘ)))))))))))))))))))))))))))))))))))))))	2		N	<u>e</u>							
				0		0	$ \rightarrow $	U.	7	-		~6	SIFU								
			20		3	16	5	·	-		6	MAR	2								
			111		5	-))\\`									
			ΗU	0				6			0										
								$(\bigcirc$	J١												
					6	2((D/	~							1	1					
		0	6			5															
			6	1																	
		5																			
		_																			
										-	-										
																I	-				
																					<u> </u>
			0	0	0	-			_	0	0	0			<u> </u>	0) O			0	
otals			0	0	0	0	0	0		0	0				1	- · ·	0 1			0	

Optional resource – do not submit to FNIHB Region

Pneumococcal and **Tuberculosis High Risk Medical Condition** Screen Coverage Report

Due: April 30, 2023

Pneumococcal and Tuberculosis High Risk Medical Conditions Screening Coverage Report – Alberta Region

For Winter season October 1, 2017 through March 31, 2018

Please submit report to Regional CDC Team by April 30, 2018. Fax: (780) 495-8070

Community Contact Name and number

						_
		Pn	eumococc	al (Pneu-P-2	3) Program	
Population	Total # in community ¹	# with dose of Pneu-P-23 after age 65 ²	# imm this year	# with Hx of Pneu-P- 23	Total # proten t	esals
<u>></u> 65 years (DOB <u><</u> 1952)			20	ate (กลาก
Chronic 2 to 64 years			<u>b</u> on	010	RIG _S	

At Risk Medical Con is Screening D no Please identify the total ig in the community know to the following conditions and those who Risk Medical Comparison Scienting Program. Count each individual only ne list flow many from highest to lowest risk. i.e: someone with diabetes are eligible4 for once under theil and renal failure

At Risk Condition	Total Known in Community	Total Eligible ⁴ for Screen
HIV/AIDS		
Transplantation		
Silicosis		
Renal Failure (requiring dialysis or as a result of diabetes)		
Carcinoma of the head and neck		
Abnormal chest x-ray – fibro-nodular disease		
Previous inadequately treated TB disease		
Treatment with tumor necrosis factor (TNF- alpha inhibitors <i>i.e. embril, remicade)</i>		
Treatment with glucocorticoids (prednisone of 15 mg/day or more for 2 weeks or longer)		
Diabetes mellitus		

Updated, August 2017

Count total for each category who are living on reserve as of December 31, 2017.

- > 65 years: all those born 1952 or earlier.
- Chronic 2 to 64 years: those who are known to meet the high risk definitions for Pneu-P-23 vaccine for those who are 2 years of age as of Sept 1, 2017 and born after 1952
- ² Only include those with documented dose of Pneu-P-23 given after age 65, regardless of previous Pneu-P-23 dose. Sum of "# imm this year" plus "# with history of Pneu-P-23" (all documented doses, regardless of provider)

- Anyone with an at risk condition who:
 - has never had an initial algorithm completed.
- 138 has had an initial algorithm completed and requires ongoing screening (with the follow up algorithm).

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





- 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.

Weekly Surveillance Report

 Due Monday noon for the previous week ILI activity:

Weekly Influenza Surveillance R	
Please fax to the CDC Team by noon each Monday for previo from October 4, 2021 throug	ous week's activity
Community:	Date:
Contact:	Phone:
Surveillance Report for the week of	ted an the
Influenza-like Illness (ILI) and Influence Uty	Codes (circle or e e e wing):
0 No activity in the ported, no lab com	a cases)
i i afluenza-like ac v ty	
2 Sporadic i for activity in the (Influence of the second	community o confirmed influenza cases, no
3 Witespread influenza activity in the (Influenza-like activity reported, lab confirmed in cases)	
Comments: (additional information regarding ILI, confirmed cas	es, etc.)
	October 2021

- Begins October 3, 2022 until Spring 2023
 - 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 APL
 - Dr. Christopher Sarin may be the ordering physician
- Optional expanded use of GeneXpert machines
 - Influenza A & B, and RSV
 - Require nasal or nasopharyngeal swabbing
 - Expect training packages and info re. software updates in October



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



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

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



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



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. Clients who screen positive need further assessment and interview.

Triage the screens based on symptoms or no symptoms and recall clients:

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



Pre-screening Tool



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 forms on OneHealth)
- 3. Make referrals to TB Services as appropriate and continue to monitor those with At Risk Medical Conditions and TB infection

Health Santá Canada Canada		sateq	cath a or	orkoniti:		santó ci voltro 14 notre priorit				ıadā
		TB	Наято	a	YMPTO	INQUERY NO.				
Client Name										
	-				1			-	_	
Gender M F				Band:	- L					
D.O.8. //		1		7959	- E			-		
						dess: Y/N		_	_	
TRADICAL WORKS 1/1				TR H	isterr					
Previous 78 Disease: Y/N Date:		Sile	·		- 70	erious Treatmen	·	_ D#	·	
Health Care Worker: Y/N Previous TB Disease: Y/N Dahe: Conduct of Current Case? Y/N	Cas				Presi	na expense is T	a: Self			Family
Previous Preventive TB Medication: Y	/N	lf yez,	when:							
Manieux Status: Date:		ult_		-	BCG:	Y / N / Unknow	m Date	of Va	ccinati	en
Last Chest X-Ray: Date:	De	ocripto								
Record Trevel: Where					When					
	He		_		_	CB BM2		_	_	
Medical History	Yes	No	Co	nuncate		Medical Histor		Yes	No	Comments
Alcohol Use (ant., frequency)	_	-	-			sker (and, freque	n(y)	-	-	
Cancer Diabetes	-	-	-			eet drugs noplant candid.		-	-	
Gastrectomy	-	-	-			ran Donor		-	-	
HIVAIDS	-	-	-			Carrent M	disting	-	-	Specify
Kidney Disease	-	-	-		- 40	ti-coagulante				
Liver Disease				Anti-convulsants						
Lung Disease				Chemo or Radiation therapy					_	
Mainutrition (BMD-20)				Contraceptive medication					_	
Other Immune suppressive drugs' or conditional (see			I 1			ulin or real Hyy		_		
	-	-	-		5he (06)	ovida (doan, fen	jumcy, dan	illion)	_	
Silicosis Carrent Symptoms	_	_		Yes		Onart date	Comme	a fa	_	
Cough > 3 weeks			_						_	
Sputum with cough							-			
Bleed in sputum							1			
Unexplained weight loss (amt. and	tioner fo	ame)	_				-	_	_	
Forr Appetite	_	_				<u> </u>	+		_	
Terrer					_		+			
Taligue			_			<u> </u>	+		_	
Night Sweats					-	<u> </u>	-			
Chest Pain	_	_	_		_		+	_	_	
			_		_	<u> </u>	+	_	_	
Other symptoms (extra pulmonary o	2204.204	9					-			
Urinary - hemahuria, dyouria						L	-			
Swollen lymph nodes										
Other (please specify)										
					16					







TB Queries

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

• FNIHB TB Program Coordinator:

Andrea Warman 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 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

