

#### Influenza and the Flu Shot Facts for Health Care Workers 2021-2022

### Presentation to (group name) Your Name Your Title



- Highly contagious and common respiratory illness caused by influenza A & B viruses
- Influenza strains circulating the globe change on a regular basis
- In Canada influenza generally occurs between late fall and early winter

#### Estimated attack rate globally:

- o 5 to10% in adults
- o 20 to 30% in children
- Each year in Canada, influenza:
- causes up to 12,200 hospitalizations
  leads to about 3,500 deaths



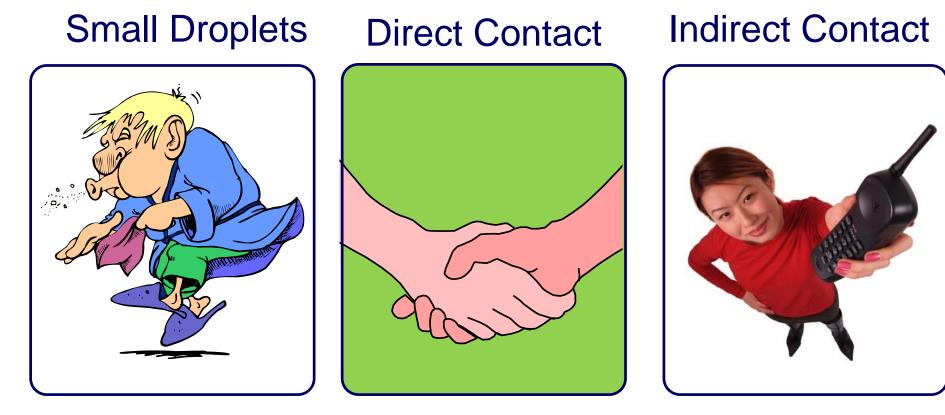
### Incubation Period: ~1-4 days

### **Period of Communicability:**

24 hrs Onset before onset

3-5 days after onset

## Public Health How Influenza Is Spread



## Image: Toronto<br/>Public HealthSigns and Symptoms

- Fever
- o Cough
- o Muscle aches
- o Headache
- o Chills
- Loss of appetite
- o Fatigue
- o Sore throat
- Nausea, vomiting and diarrhea may occur, especially in children

#### • A person infected with influenza may:

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- not develop symptoms but may shed the virus and infect others
- spread influenza for up to 24 hours before developing symptoms
- develop only mild symptoms but continue to work and infect others

- You may get sick with influenza
- You may spread influenza to family and friends
- You may transmit influenza to people at high risk of influenza-related complications, including pneumonia or even death



#### People at high risk for influenzarelated complications

- Adults and children with chronic health conditions
- People of any age who are residents of nursing homes and other chronic care facilities
- Adults 65 years of age and older
- All children under six years of age
- All pregnant people
- Indigenous peoples



# What Can be Done to Prevent and Control the Spread of Influenza?

#### Influenza Immunization

- Basic infection
   prevention & control
   measures:
  - o Hand hygiene
  - Respiratory etiquette
  - Avoid touching your eyes, nose and mouth
  - Physical distancing
  - Stay home if you are ill





What Can be Done to Prevent and Control the Spread of Influenza?

#### Routine Practices/Additional Precautions

- Acute respiratory infection screening
- Droplet/contact precautions
- Facial protection within 2 m of ill residents
- Isolation of ill residents in a single room or cohort with another lab-confirmed case
- Continued precautions for five days
- Environmental cleaning
- Outbreak control measures, including antiviral prophylaxis



- Vaccination is the most effective way to protect against influenza infection
- Influenza vaccine ~ 50% effective
- Reduces hospitalization, pneumonia and death in the elderly

#### Influenza Vaccine Effectiveness

- Can vary from season to season
- Depends on at least two factors:
  - Who is being vaccinated

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- Match between the influenza strains in the vaccine and the influenza strains that are circulating
- With a poor match, may still offer some protection
- Other flu shot vaccine strains may be well matched



## **2021-22** Publicly Funded Flu Vaccines

Age Cohort	Vaccine Product	Vaccine Type	Recommended Vaccine
≥ 65 years	Fluzone® High-Dose Quadrivalent	High-Dose QIV (QIV-HD)	When possible, administer QIV-HD or TIV-adj over the standard dose QIV for adults 65 years+ If QIV-HD or TIV-adj are not available, <b>don't delay vaccination</b> <b>for individuals 65 years+.</b> Give standard dose QIV.
≥ 65 years	Fluad®	Adjuvanted Trivalent Inactivated Vaccine (TIV- adj)	
≥ 6 months	FluLaval Tetra, Fluzone® Quadrivalent	Quadrivalent Inactivated Vaccine (QIV)	No preferential vaccine, with exception of contraindications (see note below). <b>Note:</b> Flucelvax® Quad is now approved for individuals ≥ 2 years. Children under nine years of age, without previous flu vaccination, need a second dose, given 4 weeks after the first dose.
≥ 2 years	Flucelvax® Quad	Quadrivalent Inactivated Vaccine (QIV)	
≥ 5 years	Afluria® Tetra	Quadrivalent Inactivated Vaccine (QIV)	



#### NEW: Cell-Culture Based Vaccine (Flucelvax Quad)

- Flu virus is grown in cultured cells from mammalian origin (versus hens' eggs)
- Does not promote egg adaptive mutations
- Similar immunogenicity, effectiveness and safety profile to egg-based vaccines
- Standard dose quardrivalent for people 2 years of age and older
- $\circ\,$  No concern for people with dog or egg allergies
- Can be given to pregnant women



## **NEW:** Vaccine co-administration with COVID vaccines

- NACI advised COVID-19 vaccines may be given at the same time as, or any time before or after, other vaccines, including live, non-live, adjuvanted or unadjuvanted vaccines
- Vaccines administered during the same visit should be given at different injection sites. As with other vaccines, when possible administration on the same day is preferred to vaccines being given a few days of each other

- Influenza vaccine is safe and well tolerated
- Soreness at the injection site may occur, and last up to 2 days
- Children may get a fever after vaccination

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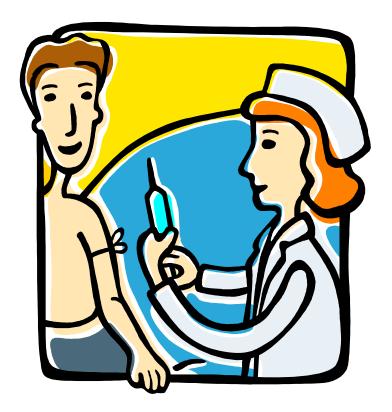
- $\circ$   $\,$  Severe side effects and allergic reactions are rare  $\,$
- Oculorespiratory syndrome (ORS) causing both eyes to be red and one or more of cough, wheeze, chest tightness, difficulty breathing, difficulty swallowing, hoarseness or sore throat.
- Guillain Barré Syndrome (GBS) is a rare disease that causes muscle paralysis and has been associated with certain infectious diseases. The risk after flu vaccination is fewer than 1-2 cases per one million people vaccinated. GBS is more common following a flu illness but is still rare.

FREE for everyone greater than 6 months old who lives, works or goes to school in Ontario

- NACI recommends flu shot programs should focus on people:
- •At high risk for influenza-related complications or hospitalization
- •Capable of transmitting flu to high risk individuals
- •Who provide essential community services

Toronto

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#### Important Additional Reasons to Get Your Flu Vaccine

- Individual protection against influenza
  - Lack of natural immunity since 1.5 years since influenza circulation
- Decreased burden on health care system
- Decreased illness that can be confused with COVID-19 and need for testing
- Decreased chance of co-infection in people, and outbreaks with more than one virus



#### Health Care Workers' (HCWs) Duty of Care



"In the absence of contraindications, refusal of HCWs to be immunized against influenza implies <u>failure in their duty of care</u> <u>to patients</u>."

- NACI

## Public Health Who Should NOT Get the Vaccine?

- Infants under 6 months of age
- Person who had an anaphylactic reaction to a previous dose of influenza vaccine OR to any vaccine components, with the exception of egg
- Person who has had GBS within 6 weeks of influenza vaccination
- Most people who had ORS can safely receive the vaccine but should talk to their doctor first
- Postpone vaccination in persons with serious acute illness until their symptoms have abated



#### NEW: During Pandemic, Defer Flu Vaccine if III with ARI Until Recovered

 During the COVID-19 pandemic, people with any symptoms of acute respiratory infection, including minor symptoms such as sore throat or runny nose, should defer influenza vaccination until they have recovered since they can pose a risk to others, including healthcare providers if they have COVID-19



Under What Conditions Can I Work During an Influenza Outbreak?

- Must be well
- Vaccinated for <u>2 weeks or</u> <u>more</u>
- Vaccinated for less than 2
   weeks must take antivirals
- Unvaccinated must take antivirals





- Influenza vaccines are safe and the most effective way to prevent influenza
- Unvaccinated staff can spread influenza to family, friends, and patients/residents
- Hospitalized and other vulnerable patients can have prolonged hospitalizations, severe illnesses, and can die as a result of influenza transmission from healthcare workers
- Influenza illness can add additional burden to our healthcare system which is already stretched due to the pandemic



## Public Health Questions?

