

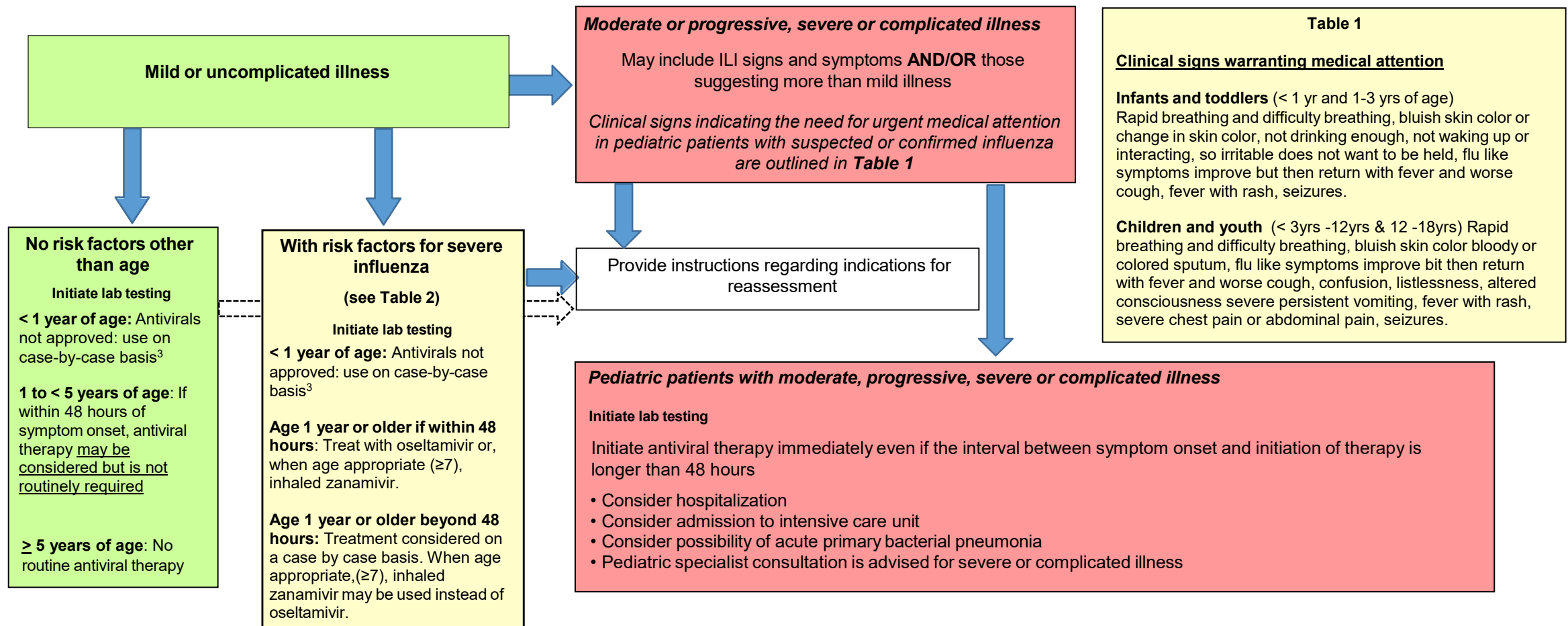
PEDIATRIC (Infant, child or youth < 18yrs old)
YUKON RAPID GUIDE TO ASSESSMENT AND MANAGEMENT OF SEASONAL INFLUENZA or INFLUENZA LIKE ILLNESS (ILI)

Clinical evidence of seasonal ILI: Does the patient have signs and symptoms consistent with ILI?

ILI is characterized by: acute onset of respiratory illness with fever and cough and with one or more of the following: sore throat, arthralgia, myalgia or prostration that could be due to influenza virus. *In older children may be characterized by typical signs and symptoms. In children ≤ 10 years of age clinical features may be atypical. In children < 5 years of age gastrointestinal symptoms may also be present and fever may not be prominent¹.*

*Illness associated with novel influenza viruses may present with other symptoms. **Always** ask a travel history in patients presenting with a febrile illness*

Considerations in selecting treatment include: severity of illness, the presence of risk factors or co-morbidities, the interval between onset of illness and diagnosis, and local influenza epidemiology



PLEASE NOTE: THIS ALGORITHM DOES NOT REPLACE CLINICAL JUDGEMENT

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Table 2

Risk factors for severe influenza in children²

- Asthma and other chronic pulmonary disease, including asthma, bronchopulmonary dysplasia, cystic fibrosis, chronic bronchitis, and emphysema
- Cardiovascular disease (excluding isolated hypertension; including congenital and acquired heart disease, such as congestive heart failure and symptomatic coronary artery disease)
- Renal disease
- Chronic liver disease
- Diabetes mellitus and other metabolic diseases
- Anemia and hemoglobinopathies, such as sickle cell disease
- Cancer, immunosuppression, or immunodeficiency due to disease (eg, HIV infection, especially if CD4 is <200 × 106/L) or management of underlying condition (solid organ transplant or hematopoietic stem cell transplant recipients)
- Neurological disease and neurodevelopmental disorders that compromise handling of respiratory secretions (cognitive dysfunction; spinal cord injury; neuromuscular, neurovascular, neurodegenerative, and seizure disorders; cerebral palsy; metabolic disorders)
- Children aged younger than 5 years*
- People of any age who are residents of nursing homes or other chronic care facilities
- Pregnancy and up to 4 weeks postpartum regardless of how the pregnancy ended
- Obesity with a BMI 40 or a BMI >3 z-scores above the mean for age and gender
- Children and adolescents aged younger than 18 years undergoing treatment for long periods with acetylsalicylic acid because of the potential increase in Reye's syndrome associated with influenza
- Indigenous Peoples

* Among healthy children aged younger than 5 years, the risk of hospitalization is further increased among those aged younger than 2 years

Health care providers may consider remote and isolated communities as an additional high risk group. Remote and isolated communities are those that:

- do not have scheduled flights; OR
- do not have year round access by land/water routes that are functional in all weather conditions; OR
- are over 350 km from a hospital

Pediatric Antiviral Treatment Dosing³

Children ≥ 12 months and < 7 years with mild or uncomplicated illness⁴ OR with moderate, progressive, severe or complicated illness⁴					
Drug	Weight	Dosage	Frequency	Route	Duration of Therapy*
Oseltamivir (Tamiflu®)	>40 kg	75 mg	Twice Daily	Oral	5 days
Oseltamivir (Tamiflu®)	>23 - 40 kg	60 mg	Twice Daily	Oral	5 days
Oseltamivir (Tamiflu®)	>15 - 23 kg	45 mg	Twice Daily	Oral	5 days
Oseltamivir (Tamiflu®)	< 15 kg	30 mg	Twice Daily	Oral	5 days

Children ≥ 7 years or older with mild or uncomplicated illness OR with moderate, progressive severe or complicated illness					
	Weight	Dosage	Frequency	Route	Duration of Therapy*
Oseltamivir (Tamiflu®)	>40 kg	75 mg	Twice Daily	Oral	5 days
Oseltamivir (Tamiflu®)	>23 - 40 kg	60 mg	Twice Daily	Oral	5 days
Oseltamivir (Tamiflu®)	>15 - 23 kg	45 mg	Twice Daily	Oral	5 days
Oseltamivir (Tamiflu®)	≤ 15 kg	30 mg	Twice Daily	Oral	5 days
Zanamivir (Relenza®)	N/A	10mg (two 5 mg inhalations)	Twice daily	Inhalation	5 days

Note: Zanamivir should be considered for those not responding to Oseltamivir or those with illness despite Oseltamivir prophylaxis or where influenza B is confirmed or strongly suspected. It is not recommended for treatment or prophylaxis of influenza in individuals with underlying airway disease (such as asthma or chronic obstructive pulmonary disease).

- 1 Public Health Association of Canada, *Case definitions for Communicable Diseases under National Surveillance-2009*, Laboratory –Confirmed Influenza
- 2 Association of Medical Microbiology and Infectious Disease Canada, 2021-2022 AMMI Canada guidance on the use of antiviral drugs for influenza in the COVID19 pandemic setting in Canada, 7.1, 2022. [doi: 10.3138/jammi-2022-01-31](https://doi.org/10.3138/jammi-2022-01-31)
- 3 Association of Medical Microbiology and Infectious Disease Canada, Use of antiviral drugs for seasonal influenza: Foundation document for practitioners - Update 2019, 4.2, 2019. [doi: 10.3138/jammi.2019.02.08](https://doi.org/10.3138/jammi.2019.02.08)
- 4 In Canada, antivirals are not authorized for infants < 1 year of age but should be considered on a case by case basis. Pediatric consultation is recommended. See Use of antiviral drugs for seasonal influenza: Foundation document for practitioners - Update 2019 ([doi: 10.3138/jammi.2019.02.08](https://doi.org/10.3138/jammi.2019.02.08)) for further discussion.

For more direction on treatment of influenza (including recommendation for those under 1), see: AMMI, Use of antiviral drugs for seasonal influenza: Foundation document for practitioners - Update 2019, available at: <https://www.ammi.ca/guidelines/> *Duration of therapy may be continued longer than 5 days if clinically indicated, after review with pediatrics or infectious diseases.

Note: Oseltamivir and Zanamivir are schedule II drugs.

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