

## **Antiviral Medications for Seasonal Influenza - 2022-2023**

## **Recommendations for Treatment of Seasonal Influenza**

(November 28, 2022 - The Medical Letter - Antiviral Drugs for Seasonal Influenza 2022-2023)1

- Treatment is recommended for patients with suspected or confirmed influenza who are at high risk for complications, for hospitalized patients and for outpatients with severe, complicated or progressive illness even if it is started >48 hours after illness onset.
- Treatment can be considered for otherwise healthy symptomatic outpatients with suspected or confirmed influenza not at risk for complications if it can be started within 48 hours of symptom onset.<sup>1</sup>

Please refer to The Medical Letter on Drugs and Therapeutics. 2022. Nov 28:64(1664)

- For outpatients with complications or progressive disease and suspected or confirmed influenza (e.g., pneumonia, or exacerbation of underlying chronic medical conditions), initiation of antiviral treatment with oral oseltamivir is recommended as soon as possible.<sup>2</sup>
- For outpatients with suspected or confirmed uncomplicated influenza, oral baloxavir <u>oral oseltamivir</u>, <u>inhaled zanamivir</u>, <u>intravenous peramivir</u>, <u>or oral baloxavir</u> may be used for treatment, depending upon approved age groups and contraindications.<sup>2</sup>
- Oral oseltamivir is the recommended antiviral for pregnant women.<sup>2</sup>

Antiviral Drugs for Prophylaxis and Treatment of Seasonal Influenza 2022-2023<sup>1</sup>

Antiviral Drugs for Prophylaxis and Treatment of Seasonal Influenza 2022-2023 <sup>1</sup>						
Drug	Tamiflu (oseltamivir)	Relenza (zanamivir)	Rapivab (peramivir)	Xofluza (baloxavir) <sup>3</sup>		
Formulations	30mg, 45mg, 75mg caps 6mg/mL oral suspension	5mg/blister for inhalation	200mg/20mL single dose vials	40mg, 80mg tablets, 40mg/20mL oral suspension**		
Prophylaxis of Influenza						
Adult Dose	≥13 years: 75mg PO once daily x 7 days	2 inhalations once daily x 7 days	Not FDA approved for prophylaxis	≥5 years and <80 kg: 40 mg PO once ≥5 years and ≥80 kg: 80 mg PO once		
Adult Dosage for Renal Impairment	CrCl 30-60mL/min: 30mg once daily CrCl>10-30mL.min: 30mg every other day HD: 30mg after every other HD CAPD: 30mg once/week after exchange ESRD not on HD: not recommended	No dosage adjustments required for renal impairment	Not FDA approved for prophylaxis	No studies available for the use of baloxavir in patients with CrCl <50mL/min. Effects of severe renal impairment has not been evaluated.		
Pediatric Dosage	<1 year: 3 mg/kg PO once/day x 7 days 1-12 years: 30-75mg PO once/day x 7 days	≥5 years: 2 inhalations once daily x 7 days	Not FDA approved for prophylaxis	≥5 years and <80 kg: 40 mg PO once ≥5 years and ≥80 kg: 80 mg PO once		
	Treatn	nent of Uncomplicated	d Influenza			
Adult Dosage	≥13 years: 75mg PO bid x 5 days	2 inhalations bid x 5 days	600mg IV over 15-30 minutes once	≥5 years and <80 kg: 40 mg PO once ≥5 years and ≥80 kg: 80 mg PO once		
Adult Dosage for Renal Impairment	CrCl 30-60mL/min: 30mg bid CrCl>10-30mL/min: 30mg once daily HD: 30mg after every HD CAPD: 30mg after exchange ESRD not on HD: not recommended	No dosage adjustments required for renal impairment	CrCl 30-49mL/min: 200mg once CrCl 10-29mL/min: 100mg once HD: administer dose (based on CrCl) after HD	No studies available for the use of baloxavir in patients with CrCl <50mL/min. Effects of severe renal impairment has not been evaluated.		
Pediatric Dosage	≥2 weeks- <1 year : 3 mg/kg PO bid x 5 days 1-12 years: 30-75mg PO bid x 5 days	≥7 years: 2 inhalations bid x 5 days	6 months-12 years: 12 mg/kg (max 600 mg) IV over 15-30 minutes once ≥13 years: 600 mg IV over 15-30 minutes once	≥5 years and <80 kg: 40 mg PO once ≥5 years and ≥80 kg: 80 mg PO once		
Comments	<ul> <li>FDA-approved for treatment of acute uncomplicated influenza in patients ≥2 weeks old</li> <li>FDA-approved for chemoprophylaxis of influenza in patients ≥1 year old</li> <li>Preferred for treatment of influenza in pregnant women, hospitalized patients, and outpatients with severe, complicated, or progressive illness</li> </ul>	Contraindicated in patients with milk protein allergy     Not recommended for patients with underlying airway disease     Not recommended for treatment of severe influenza	<ul> <li>FDA-approved for treatment of acute uncomplicated influenza healthy patients ≥6 months old</li> <li>Not recommended for treatment of severe influenza</li> <li>Not FDA-approved for chemoprophylaxis</li> </ul>	<ul> <li>No data in patients with severe influenza</li> <li>Monotherapy is not recommended for the severely immunosuppressed due to resistance concerns.</li> <li>Not recommended for use in severely immunocompromised patients or pregnant women</li> </ul>		

Comparative Costs - Agents for the Treatment of Influenza A and B

**Generic Name** 

Strength/

\*Brand Course

Brand Name	Generic Name	Dosage Form	Brand Course
Rapivab	peramivir	200mg/20mL vials	
Adult Prophylaxis: Not FDA	N/A		
<b>Pediatric Prophylaxis: Not F</b>	N/A		
Adult Treatment: 600mg IV			
Pediatric Treatment: 6 mon	\$943.20		
≥13 years: 600 mg IV once			
Relenza	zanamivir	5mg/blister for inhalation	
Adult Prophylaxis: 10mg (2	inhalations) once daily x 7 days		
Pediatric Prophylaxis: ≥5 ye	\$66.18		
Adult Treatment: 10mg (2 i			
Pediatric Treatment: ≥7 yea			
Additional dosing regimens	indicated for institutional and commun	ity outbreaks <sup>4</sup>	
Tamiflu	oseltamivir		
Adult Prophylaxis:	75mg PO once daily x 7 days	75mg caps	\$26.86
≥13 years	75mg (12.5mL) PO once daily x 7 days	6mg/mL oral susp	\$61.00
Pediatric Prophylaxis:		30mg caps	\$19.85
1-12 years old*	30mg-75mg PO once daily x 7 days	45mg caps	\$22.73
*<1 year weight based dosing –		75mg caps	\$26.86
see chart above		6mg/mL oral susp	\$30.50
Adult Treatment:	75mg PO bid x 5 days	75mg caps	\$26.86
≥13 years		6mg/mL oral susp	\$91.50
Pediatric Treatment:		30mg caps	\$19.85
1-12 years old*	30mg-75mg PO bid x 5 days	45mg caps	\$22.73
*≥2 weeks- <1 year weight	Soring-7-String FO blu X 3 days	75mg caps	\$26.86
based dosing – see chart above		6mg/mL oral susp	\$61.00
Xofluza	baloxavir marboxil		
Treatment and	(Less than 80kg) 40mg as a single oral dose	40mg 40mg/20mL oral suspension**	\$160.06
Prophylaxis for ≥5 years	(80kg or greater) 80mg as a single oral dose	80mg GRx) – accessed 11/28/22	

<sup>\*</sup>Source: GoodRx (GRx) – accessed 11/28/22

## Prescribers are encouraged to:

**Brand Name** 

- Not wait for laboratory confirmation of influenza before starting antiviral treatment.<sup>5</sup>
- Consider the benefits, risks, and cost of prescribing anti-influenza therapy.
- Reinforce the value of generics with patients!

Frequently updated information on influenza activity and antiviral resistance available at <a href="https://www.cdc.gov/flu">www.cdc.gov/flu</a>.

## References:

- 1) The Medical Letter on Drugs and Therapeutics. 2022. Nov 28:64 (1664)
- 2) CDC. Influenza antiviral medications: summary for clinicians. Available at: www.cdc.gov/flu/professionals/antivirals/ summary-clinicians. htm. Accessed November 28, 2022.
- 3) Xofluza (baloxavir marboxil) package insert. South San Francisco, CA: Genentech, Inc.; August 2022.
- 4) Relenza. In: Micromedex. (electronic version) IBM Corporation; [Updated July 22, 2021]; Accessed November 28, 2022
- 5) CDC. Guide for considering influenza testing when influenza viruses are circulating in the community. Available at: https://www.cdc.gov/flu/professionals/diagnosis/consider-influenza-testing.htm. Accessed November 28, 2022.

<sup>\*\*</sup> Pricing/availability data of Xofluza (baloxavir) oral suspension unavailable in GoodRx/Amerisource