

Treatment of Seasonal Influenza

According to the Centers for Disease Control and Prevention (CDC), the influenza virus affects approximately 8% of the United States each year. If the influenza infection is suspected or confirmed, antiviral drugs should be administered promptly if appropriate.¹

Who should be treated?^{2,3}

The CDC recommends treatment within 48 hours if influenza is suspected or confirmed and the patient:

- Requires hospitalization;
- Has severe, complicated, or progressive illness;

• Has risk factors for flu-related complications (e.g. < 2 or \ge 65 years, pregnant women, immunocompromised). Individuals not at high risk may also be treated if clinically appropriate and within 48 hours of onset of illness.

Which antivirals are preferred?^{2,3,4}

- All the antiviral agents listed in Table 1 are active against both Influenza A and B viruses; baloxavir marboxil also has activity against certain strains resistant to neuraminidase inhibitors (NAIs).
- Oseltamivir is preferred for those who are pregnant, hospitalized, or with severe and/or complicated illness. It is also the most cost-effective agent.
- Peramivir may be considered in individuals who have malabsorption or are unable to tolerate oral formulations.
- Baloxavir is not recommended in pregnant or breastfeeding women due to lack of safety and efficacy data.
- Zanamivir is not recommended in individuals with respiratory disease due to risk of serious bronchospasm.
- Adamantanes (amantadine and rimantadine) are not recommended due to high resistance rates since 2006.

Antiviral timing and efficacy.^{2,3}

- The greatest clinical benefit is seen if treatment is initiated within 48 hours of illness onset.
- Treatment greater than 48 hours after illness onset may show benefit in severe, complicated, or hospitalized patients.
- Among patients with mild illness, early treatment with NAIs zanamivir and oseltamivir has been shown to shorten the duration of symptoms by up to three days.
- A single dose of baloxavir decreased duration of symptoms by one to two days after administration.
- Some studies have shown that early antiviral therapy reduces the severity and incidence of flu-related complications, such as otitis media, asthma exacerbations, and pneumonia.

| Drug | Preparation | Treatment Age | Treatment Duration | MCAL | 00/000 |
|----------------------------------|---|-----------------|---------------------------|--------------------|--------------------|
| Neuraminidase Inhibitors (NAIs) | | | | | |
| Tamiflu (oseltamivir) | Capsule: 30 mg, 45 mg, 75 mg Suspension: 6 mg/mL | ≥ 2 weeks old | 5 days (2 doses/day) | F* generic only | F* generic only |
| Relenza Diskhaler (zanamivir) | Diskhaler: 5 mg/actuation | ≥ 7 years old | 5 days (2 doses/day) | F* | F* |
| Rapivab (peramivir) | Intravenous: 200 mg/20 mL | ≥ 2 years old | 1 day (single dose) | PA | NF |
| Endonuclease Inhibitors | | | | | |
| Xofluza (baloxavir marboxil) | Tablet Pack: 20mg, 40mg | ≥ 12 years old§ | 1 day (single dose) | F* | F* |

Table 1. Recommended Antiviral Agents for the 2018-2019 Flu Season.⁵

MCAL: Medi-Cal; OC: OneCare; OCC: OneCare Connect; F: Formulary; PA: Prior Authorization; NF: Nonformulary; ^IRoutine dosing for outpatients with acute uncomplicated influenza; duration may be longer for hospitalized, severely ill individuals. [§]Recommended in ≥12 yrs or ≥40 kg; *Subject to quantity limit

References

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- Influenza Antiviral Medications. Available at: https://www.cdc.gov/flu/professionals/antivirals/summary-clinicians.htm. Accessed on October 2, 2019.
- 3. Morbidity and Mortality Weekly Report. Antiviral Agents for the Treatment and Chemoprophylaxis of Influenza: Recommendations of the ACIP. 2011; 60(1).
- 4. Kimberly E. Ng. "Xofluza (baloxavir marboxil) for the Treatment of Acute Uncomplicated Influenza." PT. 2019;44(1):9-11.
- 5. Lexicomp Online, Lexi-drugs online, Hudson, Ohio: Wolters Kluwer Clinical Drug Information, Inc.; October 3, 2019.

The CalOptima Approved Drug List is available on our website: <u>www.caloptima.org</u> and for PDA download at <u>www.epocrates.com</u>

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