

## Zanamivir (Relenza) and Oseltamivir (Tamiflu)

Zanamivir (Relenza) and Oseltamivir (Tamiflu) are antiviral medications used to treat and provide prophylaxis against influenza A and B. These drugs work by binding to neuraminidase, preventing the virus from escaping its host cell and infecting others.



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### Indications

#### Influenza A and B

[Flute-virus \(A\)](#) [Apple](#) and [\(B\) Bee](#)

Zanamivir and Oseltamivir are indicated for treating infection from influenza A and B viruses.

#### Treatment and Prophylaxis

[Tx](#) and [Purple-axes](#)

These drugs are used in treating influenza infection, and shown to decrease symptoms by a day. It can also be used in providing prophylaxis in patients who are exposed to the virus, and has shown to decrease infection by 1-12%.

### Mechanism

#### Inhibits Release of New Virus

[Inhibiting-chains on Virus Exit](#)

These drugs render the virus unable to escape from the host cell that it has infected. Thus, it is unable to infect other cells.

#### Inhibits Influenza Neuraminidase

[Inhibiting-chains on Neuron-mini-daisies](#)

Zanamivir and Oseltamivir work to inhibit viral transmission by binding to the active site of viral neuraminidase. This makes the infected host cell unable to bud.