

# NNRTIs (Non-nucleoside Reverse Transcriptase Inhibitors)

NNRTIs are a class of medication designed to bind to reverse transcriptase to inhibit viral DNA elongation. These medications are often combined with other therapies to treat HIV and are different from NRTIs because they don't require intracellular metabolism. Side effects of NNRTIs are hepatotoxicity, vivid dreams, and CNS effects. These medications shouldn't be used in pregnant women.



**PLAY PICMONIC** 

### **Indications**

### HIV

AIDS Band-aid

These medications are used to treat HIV and AIDS.

#### Mechanism

# Do Not Require Intracellular Metabolism

Does Not Require Intracellular Metal-balls

These medications are different from NRTIs, as they do not require intracellular metabolism or phosphorylation "activation" to work against HIV.

# Inhibits Reverse Transcriptase

Inhibiting-chains on Reverse Train-script

These drugs work by binding to reverse transcriptase (at a different site from NRTIs), preventing viral DNA from being transcripted.

# **Side Effects**

# Rash

Rash

Patients taking NNRTIs can often complain about developing rashes. This side effect mainly occurs in female patients.

### Hepatotoxicity

Liver with Toxic-green-glow

Hepatotoxicity is a common side effect of NNRTI drug therapy, and patients should have their liver function monitored.

# **Vivid Dreams and CNS Symptoms**

Vivid-colors Dream from CNS-brain

Patients taking these medications have complained of vivid dreams and CNS symptoms (dizziness, confusion). The NNRTI medication efavirenz is known to cause these effects.

# Contraindication

### **Pregnancy**

Pregnant-woman with Caution-tape

NNRTI medications, most notably delavirdine and efavirenz, are contraindicated in pregnancy and can lead to teratogenic effects.