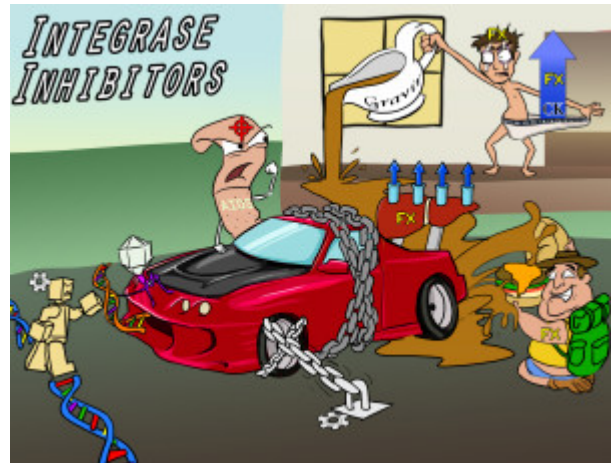


Integrase Inhibitors

Integrase inhibitors are a class of antiretroviral medication, which are used to treat HIV. They work by inhibiting HIV genome integration into the host DNA, by inhibiting HIV integrase. This medication can lead to insomnia and hypercholesterolemia.



PLAY PICMONIC

-gravir Suffix

[Gravy](#)

These medications are easily recalled because they share a "-gravir" suffix. An example is the medication raltegravir.

Indications

HIV

[Band-AIDS](#)

Integrase inhibitors are designed to treat HIV, and treatment is usually given with other medications.

Mechanism

Blocks Insertion of Viral Genome

[Blocking Insertion of Virus Genome](#)

This drug class works by blocking insertion of the HIV viral genome into the host cell chromosome.

Inhibit Actions of Integrase

[Inhibiting-chains stopping action of Integra](#)

Integrase inhibitors block viral genome integration by reversibly inhibiting HIV integrase, the viral enzyme which integrates the viral genome.

Side Effects

Hypercholesterolemia

[Hiker-cholesterol-burger](#)

A side effect of this medication is hypercholesterolemia, so patients should have baseline labs monitored.

Increased LFT's

[Up-arrow Liver with Test-tubes](#)

Increases in liver function tests such as AST, ALT and bilirubin are seen often in patients taking raltegravir but more commonly in patients who also have hepatitis. These increases may lead to pruritis and jaundice.

Insomnia

[Taped-awake-insomniac](#)

Many patients complain of insomnia after beginning treatment with integrase inhibitors.

Increased Creatine Kinase (CK)

[Up-arrow Calvin Klein model](#)

Increases in creatinine kinase are seen in up to 10% of patients taking raltegravir. It is associated with muscle pain and more severely can result in rhabdomyolysis.