

## HAART

HAART stands for highly-active antiretroviral therapy. This medication regimen is used for patients who present with AIDS-defining lesions, or have CD4+ counts below 350 internationally, or below 500 in the United States. This regimen can be summarized by knowing the patient will take 2 NRTI medications + 1 of the following: an NNRTI, a protease inhibitor or an integrase inhibitor.



PLAY PICMONIC

### HIV

#### Band-AIDS

HAART is a medication protocol for treating patients with HIV who have AIDS-defining lesions or low CD4+ levels.

#### Begin at Diagnosis

##### Diagnostic-computer

Once the diagnosis of HIV is made, HAART can be initiated. Antiretroviral therapy is recommended for all HIV-infected individuals to reduce the risk of disease progression. It is also recommended for HIV-infected individuals to prevent the of transmission of HIV.

### 3 Drugs

#### (3) Tree with Drugs

This treatment regimen consists of 3 drugs. A multiple drug approach helps to attack HIV at varying points of its life cycle and replication as well as to resist mutation.

#### 2 NRTIs (Nucleoside Reverse Transcriptase Inhibitors)

##### (2) Tutu Nerd-ties

HAART is initiated with a treatment of 2 NRTI medications; these 2 drugs are then combined with a third medication. NRTI medications work by inhibiting the binding of nucleotides, which reverses transcriptase, and by terminating the DNA chain.

#### And one of the following:

#### NNRTI (Non-Nucleoside Reverse Transcriptase Inhibitor)

##### Nun-Nerd-tie

The third drug used in HAART can be an NNRTI, which is a drug that treats HIV by inhibiting nucleotide binding, which reverses transcriptase at a different site of action than NRTIs.

#### or Protease Inhibitor

##### Propeller-ace with Inhibiting-chains

The third drug used in HAART can be a protease inhibitor. This drug works by preventing the maturation of the new HIV from within the host cell.

#### or Integrase Inhibitor

##### Integra with Inhibiting-chains

The third medication used in HAART alongside the NRTIs can be an integrase inhibitor; medications in this class work by inhibiting HIV genome integration into the host cell.