

ART (antiretroviral therapy)

The treatment for HIV is called antiretroviral therapy (ART). ART involves taking a combination of HIV medicines (called an HIV treatment regimen) every day. ART is recommended for everyone who has HIV. ART can't cure HIV, but HIV medicines help people with HIV live longer, healthier lives.

- **Nucleoside/Nucleotide Reverse Transcriptase Inhibitors (NRTIs):** block the HIV replication cycle by inhibiting the enzyme viral reverse transcriptase, which is used to convert the HIV RNA into DNA
- **Non-nucleoside Reverse Transcriptase Inhibitors (NNRTIs):** are structurally similar to NRTIs. However, they bind to a different site on the viral reverse transcriptase enzyme, inhibiting its activity.
- **Protease Inhibitors (PIs):** inhibit the activity of another viral enzyme, HIV protease, which is required to assemble more HIV particles. This prevents further virus particles from forming and infecting other cells.
- **Integrase Inhibitors:** These stop HIV from making copies of itself by blocking a key protein that allows the virus to put its DNA into the healthy cell's DNA.
- **Fusion Inhibitors:** these drugs help block HIV from getting inside healthy cells in the first place.
- **gp120 Attachment Inhibitor:** This is a new class of drug with currently just one medication. It is for adults who have tried multiple HIV medications and whose HIV has been resistant to current available therapies. It targets the glycoprotein 120 on the surface of the virus, stopping it from being able to attach itself to the CD4 T-cells of your body's immune system.
- **CCR5 Antagonist:** also stops HIV before it gets inside a healthy cell, but in a different way than fusion inhibitors. It blocks a specific kind of "hook" on the outside of certain cells so the virus can't plug in.
- **Post-Attachment Inhibitor or Monoclonal Antibody:** This is a new class of antiviral medication specifically for adults living with HIV who have tried multiple HIV medications and whose HIV has been resistant to current available therapies. It blocks your body's HIV infected cells from spreading the virus into those which are uninfected. It is administered by IV.

*Link to **FDA-Approved** medications can be found below:

[+ Antiretroviral Therapy medication list](#)

Sources:

- <https://medlineplus.gov/>
- <https://medlineplus.gov/druginfo/meds/a699012.html>
- <https://medlineplus.gov/druginfo/meds/a691006.html>
- <https://medlineplus.gov/druginfo/meds/a604004.html>
- <https://medlineplus.gov/druginfo/meds/a696011.html>
- <https://medlineplus.gov/druginfo/meds/a694033.html>
- <https://www.goodrx.com/vemlidy/what-is>
- https://www.gilead.com/~media/Files/pdfs/medicines/liver-disease/viread/viread_pi.pdf
- <https://medlineplus.gov/druginfo/meds/a687007.html>
- <https://medlineplus.gov/druginfo/meds/a621009.html>
- <https://www.pifeltro.com/>
- <https://medlineplus.gov/druginfo/meds/a699004.html>
- <https://www.janssenlabels.com/package-insert/product-monograph/prescribing-information/INTELENCE-pi.pdf>
- <https://medlineplus.gov/druginfo/meds/a600035.html>
- <https://www.edurant.com/>
- <https://www.reyataz.com/>
- <https://www.janssenlabels.com/package-insert/product-monograph/prescribing-information/PREZISTA-pi.pdf#zoom=100>
- <https://medlineplus.gov/druginfo/meds/a604012.html>
- <https://medlineplus.gov/druginfo/meds/a696028.html>
- <https://www.kaletra.com/>
- <https://medlineplus.gov/druginfo/meds/a697034.html>
- <https://norvir.com/>
- <https://medlineplus.gov/druginfo/meds/a696001.html>
- <https://medlineplus.gov/druginfo/meds/a606009.html>
- <https://medlineplus.gov/druginfo/meds/a618012.html>
- <https://medlineplus.gov/druginfo/meds/a613043.html>
- https://www.accessdata.fda.gov/drugsatfda_docs/label/2014/203093s000lbl.pdf
- <https://www.goodrx.com/isentress/what-is>
- <https://www.rxlist.com/fuzeon-drug.htm#medguide>
- https://www.rukobia.com/?qclid=CjwKCAjwqliFBhAHEiwANg9szulyjq36yNjtemnmWG9C5Kdpyh1RAkk5WJmmkASmAD06_LmYnThQ3BoCN5QQAuD_BwE&qclsrc=aw.ds
- <https://www.rxlist.com/selzentry-drug.htm#warnings>
- <https://www.rxlist.com/trogarzo-drug.htm#description>

***Medical Advice Disclaimer:** The information, including but not limited to, text, graphics, images and other materials contained on this website are for informational purposes only. No materials on this site are intended to be a substitute for professional medical advice, diagnosis or treatment. Always seek the advice of your physician or other qualified healthcare provider with any questions you may have regarding a medical condition or treatment and before undertaking a new health care regimen; never disregard professional medical advice or delay in seeking it because of what is on the internet.