

Approved drugs for HIV treatment

Nucleoside/Nucleotide reverse transcriptase inhibitors (NRTIs)			
	Drug	Doses	Side Effects and other important information
	Emtriva Gilead Sciences Generic Name: Zidovudine	One 200 mg capsule once a day. Available as liquid formulation.	Side Effects: Headache, diarrhea, nausea, mild to moderate skin fading, and redness. Can be taken with or without food. Emtriva® is very similar to Epivir®. Patients resistant to Epivir® are probably resistant to Emtriva®.
	Epivir ViiV Healthcare Generic Name: Lamivudine	One 300 mg tablet once a day or one 150 mg tablet twice a day. Available in liquid form.	Side Effects: Headache, fatigue, nausea, diarrhea, insomnia, low white blood cell count (neutropenia) and low red blood cell count (anemia), pancreatitis, and hair loss. May "revert" HIV resistance to AZT, if used jointly. Avoid the use of alcohol. Check triglycerides, especially in children, for risk of pancreatitis. Can be taken with or without food.
	Retrovir ViiV Healthcare Generic Name: Zidovudine	One 300 mg tablet twice a day. Available in liquid form.	Side Effects: Low red blood cell count (anemia), neutropenia, headache, nausea, pain, muscle damage and swelling, fading nails. Be cautious with anemia. Can be taken with or without food. Stomach discomfort may be reduced if the drug is taken with food. Avoid taking it with Zerit®. Also used to prevent perinatal transmission (mother to child).
	Videx EC Bristol-Myers Squibb Generic Name: Didanosine	One 400 mg coated capsule once a day or one 250 mg capsule for patients weighing less than 132 pounds (60 kg). Available as powder formulation.	Side Effects: Peripheral neuropathy, tingling, numbness or soreness in hands and feet, retinal changes, pancreatitis, nausea, diarrhea, headache, vomiting, dry skin. Both forms should be taken at least one hour before meals or two hours after meals. Avoid the use of antacid tablets with aluminum if taking tablets or powder form. When combined with Viread®, the dose should be reduced to 250 mg a day.
	Viread Gilead Sciences Generic Name: tenofovir DF	One 300 mg tablet once a day.	Side Effects: Nausea, vomiting, diarrhea, headache and osteopenia. Check kidney function. Can be taken with or without food. If combined with Videx®, reduce Videx® dose to 250 mg a day.
	Zerit Bristol-Myers Squibb Generic Name: Stavudine	One 40 mg capsule twice a day (patients weighing 132 pounds (60 kg) or less: One 30 mg capsule twice a day).	Side Effects: Peripheral neuropathy, tingling, numbness or soreness in hands and feet, pancreatitis, insomnia, headache, nausea and diarrhea. Certain evidence suggests it should not be taken with AZT. Can be taken with or without food.
	Ziagen ViiV Healthcare Generic Name: Abacavir sulfate	One 300 mg tablet twice a day or two 300 mg tablets once a day. Available in liquid form.	Side Effects: Hypersensitivity (serious allergic reaction), nausea, vomiting, shortness of breath, abdominal pain, fever and/or skin rash. Patients who have these side effects within six weeks after starting the treatment with Ziagen® may be suffering from hypersensitivity and should contact their doctor immediately. The medication should be discontinued after diagnosing any allergic reaction. Once you stop taking Ziagen®, you should not take this medicine because it could be fatal. Can be taken with or without food.
Non-nucleoside reverse transcriptase inhibitors (NNRTIs)			
	Edurant Janssen Therapeutics Generic Name: Rilpivirine	One 25 mg tablet once a day.	Side Effects: Insomnia, depression, elevations in liver function tests, elevations in serum creatinine. May be less potent if baseline HIV RNA >100,000 copies/mL. Requires acidic gastric environment for adequate absorption: Must be taken with food. Contraindicated with proton pump inhibitors. Other antacid medications and H2 blockers require specific timing if used by persons taking rilpivirine.
	Intelence Janssen Therapeutics Generic Name: Etravirine	Two 100 mg tablets twice a day.	Side Effects: Severe skin reactions, Stevens-Johnson Syndrome cases, hypersensitivity. Interrupt its use in case of severe rash. Should be taken after meals. Intelence should not be administered with the following antiretrovirals: Tipranavir/ritonavir, fosamprenavir/ritonavir, atazanavir/ritonavir; protease inhibitors which do not have ritonavir and NNRTIs.
	Rescriptor ViiV Healthcare Generic Name: Delavirdine mesylate	Two 200 mg tablets three times a day.	Side Effects: Skin rash, headache, fatigue, nausea, elevated liver enzymes. Should be taken at least one hour before or after taking Videx® or antacid tablets. Raises the blood levels of some protease inhibitors. Contact your doctor if you have a rash. Can be taken with or without food.

	Sustiva Bristol-Myers Squibb Generic Name: Efavirenz (also sold as Stocrin in some countries)	One 600 mg table once a day or three 200 mg capsules once a day.	Side Effects: Symptoms related to the central nervous system (CNS): Dizziness, drowsiness, insomnia, vivid dreams, decline in concentration, feeling unstable and skin rash. Take Sustiva® before going to bed to minimize possible side effects. May reduce blood levels of some PIs and increase others. Rifampin and clarithromycin reduce the levels of Sustiva®. Avoid the use of alcohol and activities which require concentration. Women should use a contraceptive method due to the risk of damage to the fetus. Avoid fatty food. Should be taken preferably with an empty stomach.
	Viramune Boehringer-Ingelheim Generic Name: Nevirapine	One 200 mg tablet once a day for the first 14 days, then one 200 mg tablet twice a day. Available as liquid formulation.	Side Effects: Skin rash, stomach problems, headache, low white blood cell count, liver enzymes increase. Initial dose: 1 x 200 mg tablet once a day for the first 14 days. Lowers the levels of PIs. Contact your doctor if you have a rash. Can be taken with or without food. Liver enzymes should be monitored, especially during pregnancy. When the treatment with Viramune® begins, be cautious with T-cell counts. It is not advisable for women with cell counts higher than 250 cells and for men with cell counts higher than 400 cells.

Protease inhibitors (PIs)

	Aptivus Boehringer-Ingelheim Generic Name: Tipranavir	Two 250 mg capsules with two 100 mg Norvir® capsules twice a day.	Side Effects: Nausea, vomiting, diarrhea, skin rash. Should be taken with food. Use with caution in patients with hepatitis. Not recommended for patients with mild to severe liver failure. Aptivus may cause intracranial hemorrhage. Liver failure. Contact your doctor immediately if you have unusual bleeding or bleeding for no apparent reason. Use with caution in patients allergic to sulfas. Works best when combined with Fuzeon®. Only for patients who had previous treatments. Should be taken with food.
	Crixivan Merck & Co. Generic Name: Indinavir sulfate	Two 250 mg capsules with two 100 mg Norvir® capsules twice a day.	Side Effects: Kidney stones (symptoms may be back or side pain), high levels of bilirubin (biliary pigment), skin rash, dry skin, hair loss, nausea and diarrhea. Should be taken with water (6-8 glasses of water a day) to avoid kidney stones. With Norvir®, can be taken with or without food. Has several drug interactions, talk to your doctor. Combination with atazanavir is not recommended.
	Invirase La Roche Generic Name: Saquinavir mesylate	Two 500 mg tablets with one 100 mg Norvir® capsule twice a day.	Side Effects: Nausea, diarrhea, flatulence, abdominal pain, headache. Should be taken with food or within two hours of eating. Invirase® should not be used without Norvir®. See Norvir® interactions.
	Kaletra Laboratorios Abbott Generic Name: 200 mg lopinavir + 50 mg ritonavir (also sold as Aluvia in some countries)	Four tablets once a day (recommended for first-time treatment takers), or 2 tablets twice a day.	Side Effects: Watery depositions, diarrhea, nausea, vomiting, feeling tired or weak. This drug has Norvir® and includes many drug interactions. Use with caution in patients coinfecting with hepatitis B or C. No dietary restrictions. The tablets do not need refrigeration. The once-daily dose is only recommended for patients with no previous treatments. If the regime includes Sustiva® or Viramune®, the Kaletra dose should be modified. The twice-daily dose is only recommended for patients with previous treatments who have been unsuccessful with other medications. If the regime includes Sustiva® or Viramune®, the Kaletra dose should be modified.
	Lexiva ViiV Healthcare Generic Name: Fosamprenavir (also sold as Telzir in some countries)	Two 700 mg tablets twice a day; or one 700 mg tablet with one 100 mg Norvir® capsule twice a day; or two 700 mg tablets with one 100 mg Norvir® capsule once a day. Available as liquid formulation.	Side Effects: Diarrhea, nausea, vomiting, skin rash, headache, diabetes. Can be taken with or without food. The combined dose with Norvir® is for patients with experience in PIs and the recommended dose is twice a day. Lexiva® has sulfas derived components.
	Norvir Laboratorios Abbott Generic Name: Ritonavir	Six 100 mg capsules twice a day. Available as liquid formulation. Also approved for pediatric doses (1 month to 2 year-old children).	Side Effects: Nausea, diarrhea, abdominal pain, weakness, dizziness, numbness around the mouth, taste alterations, high triglycerides and cholesterol levels. Should be taken with food. Norvir® interacts with other medications. Split the Videx® dose with at least two hours in between doses. Refrigeration. If exposed to room temperature, use within 30 days.
	Prezista Janssen Therapeutics Generic Name: Darunavir	Two 400 mg tablets with one 100 mg Norvir® capsule once a day.	Side Effects: Nausea, diarrhea, headache, throat and nose inflammation (cold-like symptoms). In some cases, moderate to severe skin rash. It may cause an increase in lipids and blood glucose (sugar). Use with caution in patients with hemophilia and patients allergic to sulfas. Should be taken with food (regardless the quantity or quality of foods). Approved only for patients with experience in anti-HIV treatments. May be stored at room temperature.
	Reyataz Bristol-Myers Squibb Generic Name: Atazanavir	Two 200 mg capsules once a day, or one 300 mg capsule plus 1 Norvir® capsule once a day for patients with previous treatments.	Side Effects: Hyperbilirubinemia (reversible with the interruption of the drug), heart rate alterations, hyperglycemia, nausea, vomiting, diarrhea, fever, headache, numbness and tingling in hands and feet, joint pain, kidney stones. Should be taken with food. Unlike other PIs, Reyataz® does not alter blood lipids. When taken with Sustiva® or Viread®, add Norvir® to the Reyataz® regime. In this combination, Reyataz® should be reduced to 300 mg a day (Reyataz® 300 mg /Norvir® 100 mg). Do not combine Reyataz® with Crixivan®. Take 2 hours after antacids, 10 hours after H2 antagonists and do not take with proton-pump inhibitors.
	Viracept ViiV Healthcare Generic Name: Nelfinavir	Two 625 mg tablets twice a day, or five 250 mg tablets twice a day. Available as powder formulation.	Side Effects: Diarrhea, nausea, skin rash, headache, stomach cramps. Should be taken with food to improve absorption. Has certain drug interactions. Warning: Until further notice, not recommended for children who are just starting treatment or pregnant women due to impurities in tablets.

Entry and fusion inhibitors

	Fuzeon Roche and Trimeris, Inc. Generic Name: Enfuvirtide	One 90 mg subcutaneous injection every 12 hours.	Allergic reaction at the injection site: Itching, swelling, redness, pain, hard skin (generally, the reaction appears again in the next injection site). Generalized allergic reaction: Shortness of breath, fever, vomiting, bloody urine, swollen feet, pneumonia, constipation, pancreatitis, muscle pain, loss of appetite. These effects were observed in combination with other antiretrovirals. No dietary restrictions. The Fuzeon® and sterile water vials may be stored at room temperature, 59° to 86° F (15° to 30° C). If room temperature is higher, the best practice is storing Fuzeon® in the refrigerator. Once combined with sterile water, can be stored in the refrigerator for 24 hours. Fuzeon® is only approved for use in patients with experience in antiretroviral therapy.
	Selzentry ViiV Healthcare Generic Name: Maraviroc (Also sold as Celsentri in some countries)	One 150 mg tablet twice a day, or one 300 mg tablet twice a day, or two 300 mg tablets twice a day (the prescribed dose will depend on its combination with other drugs).	Side Effects: Cough, fever, skin rash, muscle and joint pain, stomach pain and dizziness. Less Frequent: Liver problems, heart attacks, postural hypotension, potential risk of developing infections or cancers. Can be taken with or without food. Combine with other antiretrovirals. Approved for adult patients with previous experience and unsuccessful treatments, with CCR5-tropic detectable HIV-1 and resistant to multiple antiretrovirals. Perform a tropism test before using Selzentry to determine cellular receptor (CCR5 or CXCR4).

Integrase Inhibitor

	Isentress Merck & CO. Inc. Generic Name: Raltegravir	One 400 mg tablet twice a day.	Side Effects: Diarrhea, nausea, headache. Less Frequent: High creatine kinase (CK), as well as myopathy and rhabdomyolysis (muscle destruction). Can be taken with or without food. Combine with other antiretrovirals. Approved for adult patients with previous experience and unsuccessful treatments and with HIV-1 strains resistant to multiple antiretrovirals. Use with caution when administered with UGT enzyme inducers (such as rifampin) because the levels of raltegravir are reduced.
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Combinations

	Atripla Bristol-Myers Squibb and Gilead Sciences (contains efavirenz 600 mg + emtricitabine 200 mg + tenofovir DF 300 mg; one NNRTI + one NRTIs)	One tablet once a day.	Side Effects: For information about adverse effects, please read Sustiva® (efavirenz), Emtriva® (emtricitabine) and Viread® (tenofovir DF). Should be taken without food and before going to bed to minimize the development of possible side effects. Store at room temperature.
	Combivir ViiV Healthcare (contains lamivudine 150 mg + zidovudine 300 mg; 2 NRTIs)	One tablet twice a day.	For more information about side effects, please read Retrovir® (AZT) and Epivir® (3TC). Be cautious with anemia. The combinations already mentioned should not be prescribed for patients who need any dose adjustments. Can be taken with or without food. Upset stomachs are reduced if the drug is taken with food.
	Complera GILEAD Sciences and Janssen Therapeutics (contains: rilpivirine 25 mg + tenofovir DF 300 mg + emtricitabine 200 mg; one NNRTI and two NRTIs)	One tablet once a day.	The most common side effects are: trouble sleeping, abnormal dreams, headache, dizziness, diarrhea, nausea, rash, tiredness, depression, vomiting, and stomach pain. Less common side effects: kidney problems, bone problems (includes bone pain, softening or thinning, which may lead to fractures), changes in body fat. See the "What about side effects?" sections of Edurante, Viread, and Emtriva for additional possible side effects. Complera is approved only for people living with HIV starting HIV treatment for the first time. If you are taking Complera, you should not take other medicines that contain emtricitabine or lamivudine.
	Epzicom ViiV Healthcare (contains abacavir 600 mg + lamivudine 300 mg; 2 NRTIs) (Also sold as Kivexa in some countries)	One tablet once a day.	For more information about side effects, please read Ziagen® and Epivir®. Can be taken with or without food. This drug has Ziagen® (abacavir) and may cause serious allergic reactions (please read recommendations for Ziagen®).
	Trizivir ViiV Healthcare (contains zidovudine 300 mg + lamivudine 150 mg + abacavir 300 mg; 3 NRTIs)	One tablet twice a day.	For more information about side effects, please read Retrovir® (AZT), Epivir® (3TC) and Ziagen® (abacavir). This drug has Ziagen® (abacavir) and may cause serious allergic reactions (please read recommendations for Ziagen®). Can be taken with or without food.
	Truvada Gilead Sciences (contains tenofovir DF 300 mg + emtricitabine 200 mg; 2 NRTIs)	One tablet once a day.	For more information about side effects, please read Viread® and Emtriva®. Can be taken with or without food.