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HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use EFAVIRENZ TABLETS safely and effectively. See full prescribing information for EFAVIRENZ TABLETS.

EFAVIRENZ TABLETS, oral use

Initial U.S. Approval: 1998
Warnings and Precautions, Immune Reconstitution Syndrome (5.6) 10/2019
Warnings and Precautions, Nervous System Syndrome (5.12) 10/2019

INDICATIONS AND USAGE

Efavirenz tablets are a non-nucleoside reverse transcriptase inhibitor indicated in combination with other antiretroviral agents for the treatment of human immunodeficiency virus type 1 infection in adults and in pediatric patients at least 3 months old and weighing at least 3.5 kg (1).

DOSE AND ADMINISTRATION

- Efavirenz tablets should be taken orally once on an empty stomach, preferably at bedtime. (2)
- Recommended adult dose: 600 mg, (2)
- With rifampin, increase efavirenz dose to 800 mg once daily for patients weighing 50 kg or more. (2.2)
- Pediatric dosing is based on weight. (2.2)

DOSE FORMS AND STRENGTHS

- Tablets: 600 mg (3)

CONTRAINDICATIONS

- Patients with previously demonstrated hypersensitivity (e.g., Stevens-Johnson syndrome, erythema multiforme, or toxic skin eruptions) to any of the components of this product. (4)
- Coadministration of efavirenz with efavirenz and grazoprevir is contraindicated. (See Warnings and Precautions (5.1) and Drug Interactions (7.1)).

WARNINGS AND PRECAUTIONS

- OTC Prolongation: Consider alternatives to efavirenz in patients taking other medications with a known risk of Torsade de Pointes or in patients at higher risk of Torsade de Pointes. (5.2)
- Do not use as a single agent or add on as a sole agent to a failing regimen. Consider potential for cross-resistance when choosing other agents. (5.3)
- Not recommended with ATRILA, which contains efavirenz, emtricitabine, and tenofovir disoproxil fumarate, unless needed for dose adjustment when coadministered with rifampin. (5.4)

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- Serious psychiatric symptoms: Immediate medical evaluation is recommended for serious psychiatric symptoms such as severe depression or suicidal ideation. (5.5, 17)
- Nervous system symptoms (NSS): NSS are frequent and usually begin 1 to 2 days after initiating therapy and resolve in 2 to 4 weeks. (5.5, 17)
- Embryo-Fetal Toxicity: Avoid administration in the first trimester of pregnancy as fetal harm may occur. (5.7, 8.1)
- Hepatotoxicity: Monitor liver function tests before and during treatment with efavirenz in patients with underlying hepatic disease, including hepatitis B or C coinfection, marked transaminase elevations, or who are taking medications associated with liver toxicity. (5.8, 6.1, 8.1)
- Rash: Rash usually begins within 1 to 2 weeks after initiating therapy and resolves within 5 weeks. (5.8, 6.1, 8.1)
- Concomitant use: Caution in patients with a history of seizures. (5.10)
- Lipids: Total cholesterol and triglyceride elevations. Monitor before therapy and periodically thereafter. (5.11)
- Immune reconstitution syndrome: May necessitate further evaluation and treatment. (5.12)
- Redistribution/accumulation of body fat: Observed in patients receiving antiretroviral therapy. (5.13, 17)

Most common adverse reactions (>5%, moderate-severe) are impaired concentration, abnormal dreams, rash, dizziness, nausea, headache, fatigue, insomnia, and vomiting (6).

To report SUSPECTED ADVERSE REACTIONS, contact Aurobindo Pharma USA, Inc. at 1-866-950-2876 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Coadministration of efavirenz can alter the concentrations of other drugs and other drugs may alter the concentrations of efavirenz. The potential for drug-drug interactions should be considered before and during therapy. (7)
- Lactation: Breastfeeding not recommended. (8.2)
- Females and Males of Reproductive Potential: Pregnancy testing and contraception are recommended. (8.3)
- Hepatic impairment: Efavirenz is not recommended for patients with moderate or severe hepatic impairment. Use caution in patients with mild hepatic impairment. (8.5)
- Pediatric patients: The incidence of rash was higher than in adults. (5.8, 6.2, 8.4)

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Revised: 12/2019

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Selected clinical adverse reactions of moderate or severe intensity observed in >2% of efavirenz-treated patients in two controlled clinical trials are presented in Table 2.

Table 2: Selected Treatment-Emergent Adverse Reactions of Moderate or Severe Intensity Reported in >2% of Efavirenz-Treated Patients in Studies 006 and ACTG 364

Adverse Reactions	Study 006 LAM-, NNRTI-, and Protease Inhibitor-Naïve Patients		Study ACTG 364 NNRTI- and Protease Inhibitor-Naïve Patients			
	Efavirenz* + ZDV/LAM (n=412) 180 weeks*	Efavirenz* (n=415) 102 weeks*	Indinavir + ZDV/LAM (n=401) 76 weeks*	Efavirenz* + Nelfinavir + NNRTIs (n=64) 71.1 weeks*	Efavirenz* + NNRTIs (n=65) 70.9 weeks*	Nelfinavir + NNRTIs (n=66) 62.7 weeks*
Body as a Whole						
Fatigue	8%	5%	9%	0	2%	3%
Pain	1%	2%	8%	13%	6%	17%
Central and Peripheral Nervous System						
Dizziness	9%	5%	2%	2%	6%	6%
Headache	8%	9%	3%	5%	2%	3%
Insomnia	7%	7%	2%	0	0	2%
Concentration impaired	3%	3%	<1%	0	0	0
Abnormal dreams	3%	1%	0	-	-	-
Somnolence	2%	2%	<1%	0	0	0
Anorexia	1%	<1%	<1%	0	2%	2%
Gastrointestinal						
Nausea	10%	6%	24%	3%	2%	2%
Vomiting	6%	3%	14%	-	-	-
Diarrhea	3%	5%	6%	14%	3%	9%
Dyspepsia	4%	4%	6%	0	0	2%
Abdominal pain	2%	2%	5%	3%	3%	3%
Psychiatric						
Anxiety	2%	4%	<1%	-	-	-
Depression	5%	4%	<1%	3%	0	5%
Nervousness	2%	2%	0	2%	0	2%
Skin & Appendages						
Rash [†]	11%	16%	5%	9%	5%	9%
Pruritus	<1%	1%	1%	9%	5%	9%

* Includes adverse events at least possibly related to study drug or of unknown relationship for Study 006. Includes all adverse events regardless of relationship to study drug for Study ACTG 364.
† Median duration of treatment: 500 mg once daily.
‡ Includes erythema multiforme, rash, erythematous, rash follicular, rash maculopapular, rash patchy, rash pustular, and pruritus for Study 006 and macules, papules, rash, erythematous, rash, inflammatory, rash allergic, rash urticaria, vesicles, hives, itch, and urticaria for Study 006 and macules, papules, rash, erythematous, rash follicular, rash maculopapular, rash patchy, rash pustular, and pruritus for Study 006 and macules, papules, rash, erythematous, rash, inflammatory, rash allergic, rash urticaria, vesicles, hives, itch, and urticaria for Study 006 and macules, papules, rash, erythematous, rash follicular, rash maculopapular, rash patchy, rash pustular, and pruritus for Study 006 and macules, papules, rash, erythematous, rash, inflammatory, rash allergic, rash urticaria, vesicles, hives, itch, and urticaria for Study 006 and macules, papules, rash, erythematous, rash follicular, rash maculopapular, rash patchy, rash pustular, and pruritus for Study 006 and macules, papules, 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Distribution

Efavirenz is highly bound (approximately 99.5 to 99.7%) to human plasma proteins, predominantly albumin. In HIV-1 infected patients (N=19) who received efavirenz 200 to 600 mg once daily for at least one month, cerebrospinal fluid concentrations ranged from 0.25 to 1.1% (mean 0.65%) of the corresponding plasma concentration. This proportion is approximately 3-fold higher than the non-protein-bound (free) fraction of efavirenz in plasma.

Metabolism

Studies in humans and *in vitro* studies using human liver microsomes have demonstrated that efavirenz is principally metabolized by the cytochrome P450 system to hydroxylated metabolites with subsequent glucuronidation of these hydroxylated metabolites. These metabolites are essentially inactive against HIV-1. The *in vitro* studies suggest that CYP3A and CYP2B6 are the major isozymes responsible for efavirenz metabolism.

Efavirenz has been shown to induce CYP2C9, resulting in the induction of its own metabolism. Multiple doses of 200 to 400 mg per day for 10 days resulted in a lower than predicted extent of accumulation (22 to 42% lower) and a shorter terminal half-life of 40 to 55 hours (single dose half-life 52 to 76 hours).

Elimination

Efavirenz has a terminal half-life of 52 to 76 hours after single doses and 40 to 55 hours after multiple doses. A one-month mass balance/excretion study was conducted using 400 mg per day with a ¹⁴C-labeled dose administered on Day 8. Approximately 14 to 34% of the radiolabel was recovered in the urine and 16 to 61% was recovered in the feces. Nearly all of the urinary excretion of the radiolabeled drug was in the form of metabolites. Efavirenz accounted for the majority of the total radioactivity recovered in feces.

Special Populations

Pediatric: The pharmacokinetic parameters for efavirenz at steady state in pediatric patients were predicted by a population pharmacokinetic model and are summarized in Table 6 by weight ranges that correspond to the recommended doses.

Table 6. Predicted Steady-State Pharmacokinetics of Recommended Doses of Efavirenz (Capsules/Capsule Sprinkles) in HIV-1 Infected Pediatric Patients

Body Weight	Dose	Mean AUC ₀₋₂₄ pH-H	Mean C _{max} mg/mL	Mean C _{min} mcg/mL
3.5 to 5 kg	200 mg	220.52	5.81	2.43
5 to 7.5 kg	150 mg	262.62	7.07	2.71
7.5 to 10 kg	200 mg	284.28	7.75	2.87
10 to 15 kg	200 mg	238.14	6.54	2.32
15 to 20 kg	250 mg	233.98	6.47	2.32
20 to 25 kg	300 mg	257.56	7.04	2.55
25 to 32.5 kg	350 mg	262.37	7.12	2.68
32.5 to 40 kg	400 mg	259.79	6.96	2.69
>40 kg	600 mg	254.78	6.57	2.82

Gender and race: The pharmacokinetics of efavirenz in patients appear to be similar between men and women and among the racial groups studied.

Renal impairment: The pharmacokinetics of efavirenz have not been studied in patients with renal insufficiency; however, less than 1% of efavirenz is excreted unchanged in the urine, so the impact of renal impairment on efavirenz elimination should be minimal.

Hepatic impairment: A multiple-dose study showed no significant effect on efavirenz pharmacokinetics in patients with mild hepatic impairment (Child-Pugh Class A) compared with controls. There were insufficient data to determine whether moderate or severe hepatic impairment (Child-Pugh Class B or C) affects efavirenz pharmacokinetics.

Drug Interactions

Efavirenz has been shown *in vivo* to cause hepatic enzyme induction, thus increasing the biotransformation of some drugs metabolized by CYP3A and CYP2B6. *In vitro* studies have shown that efavirenz inhibited CYP isozymes 2C9 and 2C19 with K_i values (8.5 to 17 μM) in the range of observed efavirenz plasma concentrations. *In vivo* studies, efavirenz did not inhibit CYP2E1 and inhibited CYP2D6 and CYP1A2 (K_i values 82 to 160 μM) only at concentrations well above those achieved clinically. Coadministration of efavirenz with drugs primarily metabolized by CYP2D9, CYP2C9, CYP3A, or CYP2B6 isozymes may result in altered plasma concentrations of the coadministered drug. Drugs which induce CYP3A and CYP2B6 activity would be expected to increase the clearance of efavirenz resulting in lowered plasma concentrations.

Drug interaction studies were performed with efavirenz and other drugs likely to be coadministered or drugs commonly used as probes for pharmacokinetic interaction. The effects of coadministration of efavirenz on the C_{max}, AUC, and C_{min} are summarized in Table 7 (effect of efavirenz on other drugs) and Table 8 (effect of other drugs on efavirenz). For information regarding clinical recommendations see Drug Interactions (7.1).

Table 7. Effect of Efavirenz on Coadministered Drug Plasma C_{max}, AUC, and C_{min}

Coadministered Drug	Dose	Efavirenz Dose	Number of Subjects	Coadministered Drug (mean % change)		
				C _{max} (90% CI)	AUC (90% CI)	C _{min} (90% CI)
Atazanavir	400 mg qd with a light meal d 1 to 20	600 mg qd with a light meal d 7 to 20	27	↓ 5.9% (49 to 67%)	↓ 7.4% (66 to 78%)	↓ 9.3% (90 to 95%)
		400 mg qd of 1 to 6, then 300 mg qd of 7 to 20 with ritonavir 100 mg qd and a light meal	13	↑ 14% [†] (↓ 1.7 to 158) [‡]	↑ 39% [†] (2 to 88%)	↑ 48% [†] (24 to 76%)
	300 mg qd/ritonavir 100 mg qd of 1 to 10 (pm), then 400 mg qd/ritonavir 100 mg qd of 11 to 24 (pm) (simultaneous with efavirenz)	600 mg qd with a light snack d 11 to 24 (pm)	14	↑ 17% (8 to 27%)	↔	↓ 42% (31 to 51%)
		600 mg qd x 10 days	20	↔ [‡]	↓ 33% [†] (26 to 39%)	↓ 39% [†] (24 to 51%)
Indinavir	1000 mg q 8 h x 10 days	After morning dose	↔ [‡]	↓ 37% [†] (26 to 46%)	↓ 57% [†] (47 to 57%)	
		After afternoon dose	↔ [‡]	↓ 29% [†] (11 to 43%)	↓ 46% [†] (37 to 54%)	
		After evening dose	↔ [‡]	↓ 29% [†] (11 to 43%)	↓ 46% [†] (37 to 54%)	
Lopinavir/ritonavir	400/120 mg capsule q 12 h x 9 days	600 mg qd x 9 days	11,7 [‡]	↔ [‡]	↑ 19% [†] (↓ 1.36 to 13%)	↑ 39% [†] (3 to 62%)
		500/125 mg tablet q 12 h x 10 days with efavirenz compared to 400/100 mg q 12 h x 10 days	19	↑ 12% [†] (2 to 23%)	↔ [‡]	↓ 10% [†] (↓ 22 to 74%)
Nelfinavir	750 mg q 8 h x 7 days	600 mg qd x 7 days	10	↑ 36% [†] (28 to 44%)	↑ 36% [†] (28 to 44%)	↑ 32% [†] (21 to 44%)
		600/150 mg tablet q 12 h x 10 days with efavirenz compared to 400/100 mg q 12 h x 10 days	23	↑ 36% [†] (28 to 44%)	↑ 36% [†] (28 to 44%)	↑ 32% [†] (21 to 44%)
Nefazodone	500 mg q 12 h x 8 days	600 mg qd x 10 days	11	↑ 21% (10 to 33%)	↑ 20% (8 to 34%)	↔
		After AM dose	↔	↓ 4.0% (30 to 48%)	↓ 3.7% (25 to 48%)	↓ 4.3% (21 to 59%)
Ritonavir	500 mg q 12 h x 8 days	600 mg qd x 10 days	11	↔	↑ 24% (12 to 38%)	↑ 42% (9 to 86%) [†]
		After AM dose	↔	↑ 3.9% (28 to 56%)	↑ 1.9% (16 to 77%) [†]	↑ 7.4% (3 to 50%) [†]
Saquinavir SGC [§]	1200 mg q 8 h x 10 days	600 mg qd x 10 days	12	↓ 5.6% (28 to 60%)	↓ 6.2% (45 to 72%)	↓ 4.4% (16 to 77%) [†]
		600 mg qd x 10 days	9	↔	↔	↑ 265% (37 to 873%)
Lamivudine	150 mg q 12 h x 14 days	600 mg qd x 14 days	9	↔	↔	↑ 265% (37 to 873%)
		300 mg qd	29	↔	↔	↔
Zidovudine	300 mg q 12 h x 14 days	600 mg qd x 14 days	9	↔	↔	↑ 225% (43 to 640%)
		600 mg bid	12	↓ 5.1% (37 to 62%)	↓ 4.5% (38 to 51%)	↓ 4.5% (28 to 57%)
Maraviroc	400 mg single dose	600 mg qd	9	↓ 3.2% (2 to 5%)	↓ 3.8% (2 to 5%)	↓ 2.1% (↓ 51 to 78%)
		600 mg qd x 16 days	NA	↑ 3.9% (↓ 2.2 to 7.8)	↑ 1.9% (↓ 6.7 to 17.4%)	↑ 4.4% (1.88 to 10.92%)
Boceprevir	800 mg tid x 6 days	600 mg qd x 14 days	23	↓ 5.1% (↓ 4.6 to 1.56%)	↓ 7.1% (↓ 6.7 to 17.4%)	↓ 9.1% (1.88 to 10.92%)
		400 mg qd x 14 days	14	↑ 2.2% (4 to 42%)	↔	NA
Clarithromycin	500 mg q 12 h x 7 days	400 mg qd x 7 days	11	↑ 2.0% (15 to 35%)	↑ 3.9% (30 to 45%)	↓ 5.3% (42 to 63%)
		14-OH metabolite	10	↓ 2.8% (32 to 69%)	↑ 3.4% (18 to 53%)	↓ 9.5% (9 to 45%)
Fluconazole	200 mg q 7 days	400 mg qd x 7 days	10	↔	↔	↔
		600 mg qd x 14 days	18	↓ 3.7% (20 to 51%)	↓ 3.9% (21 to 53%)	↓ 4.4% (27 to 58%)
Hydroxy-fluconazole	400 mg (oral suspension) bid x 10 and 20 days	400 mg qd x 10 and 20 days	11	↓ 3.5% (12 to 25%)	↓ 3.7% (14 to 55%)	↓ 4.3% (12 to 60%)
		400 mg qd x 10 and 20 days	11	↓ 4.5% (34 to 50%)	↓ 5.0% (40 to 57%)	NA
Ribavirin	300 mg qd x 14 days	600 mg qd x 14 days	9	↓ 3.2% (15 to 46%)	↓ 3.8% (28 to 47%)	↓ 3.1% (31 to 56%)
		400 mg po q 12 h x 1 day, then 200 mg po q 12 h x 8 days	NA	↑ 61% [†]	↑ 77% [†]	NA
Voriconazole	400 mg po q 12 h x 1 day, then 200 mg po q 12 h x 8 days	400 mg qd x 9 days	NA	↑ 36% [†] (21 to 49%)	↑ 55% [†] (45 to 62%)	NA
		300 mg po q 12 h x 7 days	NA	↑ 36% [†] (21 to 49%)	↑ 55% [†] (45 to 62%)	NA
		400 mg po q 12 h x 7 days	NA	↑ 23% [†] (↓ 1 to 7.53%)	↑ 7% [†] (↓ 23 to 17.13%)	NA
Artemether/lumefantrine	Artemether 20 mg/lumefantrine 120 mg tablets (6 4-tablet doses over 3 days)	600 mg qd x 26 days	12	↓ 21%	↓ 51%	NA
		600 mg qd x 26 days	12	↓ 38%	↓ 46%	NA
Artemether dihydroartemisinin	Artemether 20 mg/lumefantrine 120 mg tablets (6 4-tablet doses over 3 days)	600 mg qd x 26 days	12	↓ 21%	↓ 51%	NA
		600 mg qd x 26 days	12	↓ 38%	↓ 46%	NA
Lumefantrine	10 mg qd x 4 days	600 mg qd x 15 days	14	↔	↓ 21%	NA
		600 mg qd x 15 days	14	↑ 14% (1 to 26%)	↓ 43% (34 to 50%)	↓ 69% (49 to 81%)
Total active (including metabolites)	40 mg qd x 4 days	600 mg qd x 15 days	14	↓ 1.5% (2 to 25%)	↓ 21% (1 to 41%)	↓ 23 to 84%)
		600 mg qd x 15 days	14	↓ 3.2% (↓ 5.9 to 1.12%)	↓ 4.4% (26 to 57%)	↓ 1.9% (0 to 35%)
Simvastatin	40 mg qd x 4 days	600 mg qd x 15 days	14	↓ 7.2% (63 to 79%)	↓ 6.8% (62 to 73%)	↓ 4.5% (20 to 62%)
		600 mg qd x 15 days	14	↓ 6.8% (55 to 78%)	↓ 6.0% (52 to 68%)	NA
Carbamazepine	200 mg bid x 3 days, then 400 mg bid x 29 days	600 mg qd x 14 days	12	↓ 2.0% (15 to 24%)	↓ 2.7% (20 to 33%)	↓ 3.4% (24 to 44%)
		600 mg qd x 14 days	12	↔	↔	↔
Epoxide metabolite	200 mg bid x 3 days, then 400 mg bid x 29 days	600 mg qd x 14 days	12	↔	↔	↓ 13% (↓ 30 to 77%)
		600 mg qd x 14 days	12	↔	↔	↔
Ceftriaxone	10 mg single dose	600 mg qd x 10 days	11	↓ 2.4% (18 to 30%)	↔	NA
		600 mg qd x 14 days	13	↓ 6.0% (50 to 68%)	↓ 6.9% (55 to 79%)	↓ 6.3% (44 to 75%)
Dilazepam	240 mg q 21 days	600 mg qd x 14 days	13	↓ 8.4% (57 to 96%)	↓ 7.5% (59 to 84%)	↓ 8.2% (44 to 75%)
		600 mg qd x 14 days	13	↓ 2.8% (7 to 44%)	↓ 3.7% (17 to 52%)	↓ 3.7% (17 to 52%)
N-mono-desmethyl-diltiazem	0.035 mg/0.25 mg x 14 days	600 mg qd x 14 days	21	↔	↔	↔
		600 mg qd x 14 days	21	↓ 4.6% (39 to 52%)	↓ 6.4% (62 to 67%)	↓ 8.2% (79 to 85%)
Norelgestrolone	2 mg single dose	600 mg qd x 10 days	12	↑ 8.0% (77 to 83%)	↑ 8.3% (79 to 87%)	↑ 8.6% (80 to 90%)
		600 mg qd x 10 days	12	↑ 1.6% (2 to 32%)	↔	NA
Methadone	Stable maintenance 35 to 100 mg daily	600 mg qd x 14 to 21 days	11	↓ 4.5% (25 to 59%)	↓ 5.2% (33 to 66%)	NA
		600 mg qd x 14 to 21 days	13	↓ 3.4% (21 to 47%)	↓ 5.5% (48 to 62%)	NA
Hydroxy-bupropion	150 mg single dose (sustained-release)	600 mg qd x 14 days	13	↑ 5.0% (20 to 80%)	↔	NA
		600 mg qd x 14 days	16	↔	↔	↔
Sertraline	50 mg qd x 14 days	600 mg qd x 14 days	13	↓ 2.9% (15 to 40%)	↓ 3.9% (27 to 50%)	↓ 4.6% (31 to 58%)
		600 mg qd x 14 days	13	↓ 2.9% (15 to 40%)	↓ 3.9% (27 to 50%)	↓ 4.6% (31 to 58%)

† Indicates increase; ↓ Indicates decrease; ↔ Indicates no change or a mean increase or decrease of <10%.

‡ Comparator dose of indinavir was 800 mg q 8 h x 10 days.

§ Soft Gelatin Capsule.

¶ Tenofovir disoproxil fumarate.

‡ 95% CI not available.

† Relative to steady-state administration of voriconazole (400 mg for 1 day, then 200 mg po q 12 h for 2 days).

NA = not available.

Table 8. Effect of Coadministered Drug on Efavirenz Plasma C_{max}, AUC, and C_{min}

Coadministered Drug	Dose	Efavirenz Dose	Number of Subjects	Efavirenz (mean % change)		
				C _{max} (90% CI)	AUC (90% CI)	C _{min} (90% CI)
Indinavir	800 mg q 8 h x 14 days	200 mg qd x 14 days	11	↔	↔	↔
		600 mg qd x 14 days	11,2 [‡]	↔	↓ 16% (↓ 38 to 15%)	↓ 16% (↓ 42 to 7.20%)
Lopinavir/ritonavir	400/100 mg capsule q 12 h x 9 days	600 mg qd x 9 days	11,7 [‡]	↔	↔	↔
		600 mg qd x 9 days	11,7 [‡]	↔	↔	↔
Nelfinavir	750 mg q 8 h x 7 days	600 mg qd x 7 days	10	↓ 12% (↓ 32 to 7.18%) [†]	↓ 12% (↓ 32 to 7.18%) [†]	↓ 21% (↓ 53 to 10.73%)
		600 mg qd x 7 days	10	↓ 1.4% (4 to 28%)	↓ 2.1% (10 to 34%)	↓ 7.5% (7 to 46%) [†]
Ritonavir	500 mg q 12 h x 8 days	600 mg qd x 10 days	9	↑ 1.4% (4 to 28%)	↑ 2.1% (10 to 34%)	↑ 7.5% (7 to 46%) [†]
		600 mg qd x 10 days	9	↑ 3.6% [†] (21 to 49%)	↑ 5.5% [†] (45 to 62%)	NA
Saquinavir SGC [§]	1200 mg q 8 h x 10 days	600 mg qd x 10 days	13	↓ 1.3% (5 to 20%)	↓ 1.2% (4 to 19%)	↓ 1.4% (2 to 24%) [†]
		600 mg qd x 10 days	13	↔	↔	↔
Tenofovir [¶]	300 mg qd	600 mg qd x 14 days	30	↔	↔	↔
		600 mg qd x 14 days	30	↑ 11% (2 to 20%)	↑ 20% (15 to 26%)	NA
Boceprevir	800 mg tid x 6 days	600 mg qd x 16 days	NA	↑ 11% (2 to 20%)	↑ 20% (15 to 26%)	NA
		600 mg qd x 16 days	NA	↑ 10% (5 to 15%)	↑ 13% (7 to 19%)	↔
Samprevir	150 mg qd x 14 days	600 mg qd x 14 days	23	↔	↔	↔
		600 mg qd x 14 days	23	↔	↔	↔
Asthromycin	600 mg single dose	400 mg qd x 7 days	14	↔	↔	↔
		400 mg qd x 7 days	14	↔	↔	↔
Clarithromycin	500 mg q 12 h x 7 days	400 mg qd x 7 days	12	↑ 1.1% (3 to 19%)	↔	↔
		400 mg qd x 7 days	12	↔	↔	↔
Fluconazole	200 mg x 7 days	400 mg qd x 7 days	10	↔	↔	↔
		400 mg qd x 7 days	10	↔	↔	↔
Itraconazole	200 mg q 12 h x 14 days	600 mg qd x 28 days	16	↔	↔	↔
		600 mg qd x 28 days	16	↔	↔	↔

† Indicates increase; ↓ Indicates decrease; ↔ Indicates no change or a mean increase or decrease of <10%.

‡ Comparator dose of indinavir was 800 mg q 8 h x 10 days.

§ Soft Gelatin Capsule.

¶ Tenofovir disoproxil fumarate.

‡ 95% CI not available.

† Relative to steady-state administration of voriconazole (400 mg for 1 day, then 200 mg po q 12 h for 2 days).

NA = not available.

Table 9. Outcomes of Randomized Treatment Through 48 and 96-Weeks, Study 006

Outcome	Efavirenz + ZDV + LAM (n=222)		Efavirenz + IDV (n=223)		IDV + ZDV + LAM (n=115)	
	Week 48	Week 168	Week 48	Week 168	Week 48	Week 168
Responders ^a	69%	49%	57%	40%	50%	29%
Virologic failure ^b	6%	12%	15%	20%	13%	19%
Discontinued for adverse events	7%	8%	6%	8%	16%	20%
Discontinued for other reasons ^c	17%	31%	22%	32%	21%	32%
CD4+ cell count (cells/mm ³)						
Observed subjects (n)	(279)	(205)	(158)	(228)	(129)	(129)
Mean change from baseline	190	329	191	319	180	329

^a Patients achieved and maintained confirmed HIV-1 RNA <400 copies/mL through Week 48 or Week 168.

^b Includes patients who were discontinued due to lack of efficacy.

^c Includes consent withdrawn, lost to follow-up, noncompliance, never treated, missing data, protocol violation, death, and other reasons. Patients with HIV-1 RNA levels <400 copies/mL, who chose not to continue in the voluntary extension phases of the study were censored at date of last dose of study medication.

^d For patients treated with efavirenz + zidovudine + lamivudine, efavirenz + indinavir, or indinavir + zidovudine + lamivudine, the percentage of responders with HIV-1 RNA <50 copies/mL was 65%, 50%, and 45%, respectively, through weeks 48, 168, and 168.

^e Includes virologic failure, loss to follow-up, noncompliance, never treated, missing data, protocol violation, death, and other reasons. Patients with HIV-1 RNA levels <400 copies/mL, who chose not to continue in the voluntary extension phases of the study were censored at date of last dose of study medication.