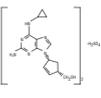




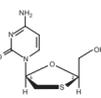
Abacavir Sulfate and Lamivudine Tablets (60 mg/30 mg) Rx only

WARNINGS
Abacavir Sulfate and Lamivudine Tablets contain 2 nucleoside analogues (abacavir sulfate and lamivudine) and are intended only for patients whose blood test results indicate these 2 components.
Hypersensitivity Reactions: Serious and sometimes fatal hypersensitivity reactions have been associated with abacavir sulfate, a component of Abacavir Sulfate and Lamivudine Tablets. Hypersensitivity to abacavir is a multi-organ clinical syndrome characterized by a sign or symptom in 2 or more of the following groups: (1) fever, (2) rash, (3) gastrointestinal (including nausea, vomiting, diarrhea, or abdominal pain), (4) constitutional (including generalized malaise, fatigue, or achiness), and (5) respiratory (including dyspnea, cough, or pharyngitis). Discontinue Abacavir Sulfate and Lamivudine Tablets as soon as a hypersensitivity reaction is suspected.
Patients who carry the HLA-B*5701 allele are at high risk for experiencing a hypersensitivity reaction to abacavir. Prior to initiating therapy with abacavir, screening for the HLA-B*5701 allele is recommended; this approach has been found to decrease the risk of hypersensitivity reaction. Screening is also recommended prior to reinitiation of abacavir in patients of unknown HLA-B*5701 status who have previously tolerated abacavir. HLA-B*5701-negative patients may develop a suspected hypersensitivity reaction to abacavir; however, this occurs significantly less frequently than in HLA-B*5701-positive patients.
Regardless of HLA-B*5701 status, permanently discontinue Abacavir Sulfate and Lamivudine Tablets if hypersensitivity cannot be ruled out, even when other diagnoses are possible.
Reinitiation of Abacavir Sulfate and Lamivudine Tablets: NEVER restart Abacavir Sulfate and Lamivudine Tablets or any other abacavir-containing product because more severe symptoms can occur within hours and may include life-threatening hypotension and death.
Excacerbations of Hepatitis B: Serious exacerbations of hepatitis B have been reported in patients who are co-infected with hepatitis B virus (HBV) and human immunodeficiency virus (HIV) and have discontinued lamivudine, which is one component of Abacavir Sulfate and Lamivudine Tablets. Hepatic function should be monitored closely in laboratory follow-up for at least several months in patients who have discontinued Abacavir Sulfate and Lamivudine Tablets and are co-infected with HIV and HBV. If appropriate, initiation of anti-hepatitis B therapy may be warranted (see WARNINGS).

DESCRIPTION
Abacavir Sulfate and Lamivudine Tablets contain the following 2 synthetic nucleoside analogues: abacavir sulfate (ZIAGEN[®]) and a component of lamivudine (also known as EPIVIR[®] or 3TC) with inhibitory activity against HIV. Abacavir Sulfate and Lamivudine Tablets may be swallowed or dispersed in water immediately before administration. **INDICATIONS AND ADMINISTRATION:** Method of Use: Abacavir Sulfate and Lamivudine Tablets are for oral administration. Each orange, film-coated tablet contains the active ingredients abacavir 60 mg as abacavir sulfate and lamivudine 30 mg, and the inactive ingredients: microcrystalline cellulose, sodium starch glycolate, and magnesium stearate. The tablets are coated with a film (opacolor orange YS-1-13065-A) that has a molecular formula of (C₁₄H₁₆N₂O₂)₂H₂SO₄ and a molecular weight of 670.76 daltons. It has the following structural formula:



Abacavir sulfate is a white to off-white crystalline powder with a solubility of approximately 77 mg/mL in distilled water at 25°C.
In vivo, abacavir sulfate dissociates to its free base, abacavir. All dosages for abacavir sulfate are expressed in terms of abacavir.
Lamivudine: The chemical name of lamivudine is (1-1)-(2R,5S)-2-(Hydroxymethyl)-3-oxathiolan-5-ylthiothymine. Lamivudine is the (+) enantiomer of a diastereoisomer of cytidine. Lamivudine has also been referred to as L-2'-3'-dideoxy-5-methyluracil riboside. Its molecular formula is C₈H₁₀N₂O₅ and a molecular weight of 226.26 daltons. It has the following structural formula:



Lamivudine is a white to off-white crystalline solid with a solubility of approximately 70 mg/mL in water at 20°C.

MICROBIOLOGY

Mechanism of Action
Abacavir: Abacavir is a carbocyclic synthetic nucleoside analogue. Abacavir is converted by cellular enzymes to the active metabolite, carbonyl triphosphate (CBV-TP), an analogue of deoxyguanosine-5'-triphosphate (dGTP). CBV-TP inhibits the activity of HIV-1 reverse transcriptase (RT) both by competing with the natural substrate dGTP and by its incorporation into viral DNA. The lack of a 3'-OH group in the incorporated nucleotide analogue prevents the formation of the 5' to 3' phosphodiester linkage essential for DNA chain elongation; and therefore, the viral DNA growth is terminated. CBV-TP is a weak inhibitor of cellular DNA polymerases α, β, and γ.
Lamivudine: Lamivudine is a synthetic nucleoside analogue. Intracellularly, lamivudine is phosphorylated to its active 5'-triphosphate metabolite (3TC-TP). The principal mode of action of lamivudine is through its incorporation into viral DNA, where it acts as a chain terminator. The incorporation of lamivudine into viral DNA results in the formation of a DNA chain with a 3' terminal diphosphate group, which is unstable and is rapidly hydrolyzed to a 3' terminal diphosphate group. This results in the formation of a DNA chain with a 3' terminal diphosphate group, which is unstable and is rapidly hydrolyzed to a 3' terminal diphosphate group. This results in the formation of a DNA chain with a 3' terminal diphosphate group, which is unstable and is rapidly hydrolyzed to a 3' terminal diphosphate group.

Antiviral Activity
Abacavir: The antiviral activity of abacavir against HIV-1 was evaluated against a T-cell tropic laboratory strain HIV-1_{LAI} in lymphoblastic cell lines, a macrocyt/macrophage tropic laboratory strain HIV-1_{MAC} in primary monocytes/macrophages, and clinical isolates in peripheral blood mononuclear cells. The concentration of drug necessary to effect viral replication by 50% (EC₅₀) was 0.02 to 0.5 μM (mean ± SD) against HIV-1_{LAI} and 0.07 to 1.0 μM against HIV-1_{MAC} and HIV-1_{MAC}, respectively, and was 0.26 ± 0.18 μM against 8 clinical isolates. The EC₅₀ values of abacavir against HIV-1 (clades A-G) ranged from 0.001 to 1.05 μM, and against HIV-2 isolates, from 0.024 to 0.45 μM. Ribavirin (50 μM) had no effect on the anti-HIV-1 activity of abacavir in cell culture.
Lamivudine: The antiviral activity of lamivudine against HIV-1 was assessed in a number of cell lines, including monocytes and fresh adherent peripheral blood lymphocytes) using standard susceptibility assays. EC₅₀ values were in the range of 0.003 to 15 μM (μM) against HIV-1_{LAI} and HIV-1_{MAC}. HIV from therapy-naïve subjects with no mutations associated with resistance gave median EC₅₀ values of 0.426 μM (range: 0.200 to 2.007 μM) from Virco (n = 93) baseline samples from 102 patients (range: 0.225 to 2.25 μM (1.44 to 4.08 μM) from Monogram. Mutations associated with resistance were defined as substitutions at positions 181, 215, 219, 225, 235, 242, 245, 252, 259, 264, 270, 275, 282, 285, 289, 290, 295, 300, 306, 308, 311, 314, 316, 318, 322, 324, 326, 333, 334, 335, 336, 338, 342, 344, 347, 352, 355, 359, 360, 363, 368, 370, 374, 375, 378, 382, 384, 385, 389, 393, 396, 400, 405, 407, 410, 411, 414, 417, 420, 424, 425, 429, 431, 434, 435, 438, 444, 447, 451, 455, 459, 462, 464, 467, 470, 474, 477, 481, 484, 487, 490, 493, 496, 499, 503, 506, 509, 512, 515, 518, 521, 524, 527, 531, 534, 537, 541, 544, 547, 551, 554, 557, 561, 564, 567, 571, 574, 577, 581, 584, 587, 591, 594, 597, 601, 604, 607, 611, 614, 617, 621, 624, 627, 631, 634, 637, 641, 644, 647, 651, 654, 657, 661, 664, 667, 671, 674, 677, 681, 684, 687, 691, 694, 697, 701, 704, 707, 711, 714, 717, 721, 724, 727, 731, 734, 737, 741, 744, 747, 751, 754, 757, 761, 764, 767, 771, 774, 777, 781, 784, 787, 791, 794, 797, 801, 804, 807, 811, 814, 817, 821, 824, 827, 831, 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Lamivudine: Patients co-infected with HIV and HBV should be informed that deterioration of liver disease has occurred in some cases when treatment with lamivudine was discontinued. Patients should be advised to discuss any changes in regimen with their physician.

Abacavir Sulfate and Lamivudine Tablets: Inform patients that some HIV medicines, including Abacavir Sulfate and Lamivudine Tablets, can cause a rare, but serious condition called lactic acidosis with liver enlargement (hepatomegaly).

Abacavir Sulfate and Lamivudine Tablets are not a cure for HIV infection and patients may continue to experience illnesses associated with HIV infection, including opportunistic infections. Patients should remain under the care of a physician when using Abacavir Sulfate and Lamivudine Tablets. Advise patients that the use of Abacavir Sulfate and Lamivudine Tablets has not been shown to reduce the risk of transmission of HIV to others through sexual contact or blood contamination.

Inform patients that redistribution or accumulation of body fat may occur in patients receiving antiretroviral therapy and that the cause and long-term health effects of these conditions are not known at this time. Abacavir Sulfate and Lamivudine Tablets are for oral ingestion only. Abacavir Sulfate and Lamivudine Tablets should be stored at room temperature (20° to 25°C (68° to 77°F)). Patients should be advised of the importance of taking Abacavir Sulfate and Lamivudine Tablets exactly as they are prescribed.

Drug Interactions

Abacavir Sulfate and Lamivudine: No clinically significant changes to pharmacokinetic parameters were observed for abacavir or lamivudine when administered together.

Abacavir: Abacavir has no effect on the pharmacokinetic properties of ethanol. Ethanol decreases the elimination of abacavir causing an increase in overall exposure (see **CLINICAL PHARMACOLOGY: Drug Interactions**). The addition of methadone in doses of either drug is recommended dose (40 mg and 90 mg daily), with 800 mg of abacavir sulfate twice daily (twice the currently recommended dose), oral methadone clearance increased 22% (90% to 104% to 42%). This alteration will not result in a methadone dose modification in the majority of patients; however, an increased methadone dose may be required in a small number of patients.

Lamivudine: Trimethoprim (TMP) 160 mg/sulfamethoxazole (SMX) 800 mg once daily has been shown to increase lamivudine exposure (AUC). No change in dose of either drug is recommended. The addition of high doses of TMP/SMX on lamivudine pharmacokinetics has not been investigated (see **CLINICAL PHARMACOLOGY**). Lamivudine and zalcitabine may inhibit the intracellular phosphorylation of one another. Therefore, use of Abacavir Sulfate and Lamivudine Tablets in combination with zalcitabine is not recommended. Use of Abacavir Sulfate and Lamivudine Tablets in combination with zalcitabine is not recommended.

See **CLINICAL PHARMACOLOGY** for additional drug interactions.

Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenicity

Abacavir: Abacavir was administered orally at 3 dosage levels to separate groups of mice and rats in 2-year carcinogenicity studies. Results showed an increase in the incidence of malignant and non-malignant tumors. Malignant tumors occurred in the preputial gland of males and the clitoral gland of females of both species, and in the liver of female rats. In addition, non-malignant tumors also occurred in the liver and thyroid gland of female rats. These observations were made at systemic exposures in the range of 6 to 32 times the human exposure at the recommended dose.

Lamivudine: Long-term carcinogenicity studies with lamivudine in mice and rats showed no evidence of carcinogenic potential at exposures up to 110 times (mice) and 58 times (rats) those observed in humans at the recommended therapeutic dose for HIV infection.

It is not known how predictive the results of rodent carcinogenicity studies may be for humans.

Mutagenicity

Abacavir: Abacavir induced chromosomal aberrations both in the presence and absence of metabolic activation in an *in vitro* cytogenetic study in human lymphocytes. Abacavir was mutagenic in the absence of metabolic activation, although it was not mutagenic in the presence of metabolic activation in an L5178Y mouse lymphoma assay. Abacavir was clastogenic in males and not clastogenic in females in an *in vivo* mouse bone marrow micronucleus assay. Abacavir was not mutagenic in bacterial mutagenicity assays in the presence and absence of metabolic activation.

Lamivudine: Lamivudine was mutagenic in an L5178Y mouse lymphoma assay and clastogenic in a cytogenetic assay using cultured human lymphocytes. Lamivudine was not mutagenic in a microbial mutagenicity assay, in an *in vitro* cell transformation assay, in a rat micronucleus test, in a rat bone marrow cytogenetic assay, and in an assay for unscheduled DNA synthesis in rat liver.

Impairment of Fertility

Abacavir or lamivudine induced no adverse effects on the mating performance or fertility of male and female rats at doses producing systemic exposure levels approximately 8 or 130 times, respectively, higher than those in humans at the recommended dose based on body surface area comparisons.

Pregnancy

Pregnancy Category C. There are no adequate and well-controlled studies of Abacavir Sulfate and Lamivudine Tablets in pregnant women. Reproduction studies with abacavir and lamivudine have been performed in animals (see **Abacavir and Lamivudine** sections below). Abacavir Sulfate and Lamivudine Tablets should be used during pregnancy only if the potential benefits outweigh the risks.

Abacavir: Studies in pregnant rats showed that abacavir is transferred to the fetus through the placenta. Fetal malformations (increased incidences of fetal anasarca and skeletal malformations) and developmental toxicity (depressed fetal body weight and reduced cranio-rump length) were observed in rats at a dose which produced 35 times the human exposure based on body surface area. Embryonic and fetal toxicities (increased resorptions, decreased fetal body weights) and malformations to the offspring (increased incidence of stillbirth and lower body weights) occurred at half of the above-mentioned dose. In separate fertility studies conducted in rats. In the rabbit, no developmental toxicity and no increased malformations occurred at doses that produced 8.5 times the human exposure at the recommended dose based on AUC.

Lamivudine: Studies in pregnant rats showed that lamivudine is transferred to the fetus through the placenta. Reproduction studies with orally administered lamivudine in rats and rabbits at doses producing plasma levels up to approximately 35 times that for the recommended adult HIV dose. No evidence of teratogenicity due to lamivudine was observed. Evidence of early embryolethality was seen in the rabbit at exposure levels similar to those in humans. In humans, but there was no indication of this effect in the rat at exposure levels up to 35 times those in humans.

Nursing Mothers

The Centers for Disease Control and Prevention recommend that HIV-infected mothers not breastfeed their infants to avoid risking postnatal transmission of HIV infection.

Abacavir: Abacavir is secreted into the milk of lactating rats.

Lamivudine: Lamivudine is excreted in human breast milk and into the milk of lactating rats.

Because of both the potential for HIV transmission and the potential for serious adverse reactions in nursing infants, mothers should be instructed not to breastfeed if they are receiving Abacavir Sulfate and Lamivudine Tablets.

Pediatric Use

Abacavir Sulfate and Lamivudine Tablets: The safety and effectiveness data described below are based on studies conducted with the individual nucleoside analog components of Abacavir Sulfate and Lamivudine Tablets.

Abacavir: The safety and effectiveness of abacavir sulfate have been established in pediatric patients 3 months to 13 years of age. Use of abacavir sulfate in pediatric patients 3 months to 13 years of age is based on data and evidence from adequate and well-controlled studies of abacavir sulfate in adults and pediatric patients (see **CLINICAL PHARMACOLOGY: Pharmacokinetics: Special Populations: Pediatric Patients, INDICATIONS AND USAGE: Description of Clinical Studies: Pediatric Patients, WARNINGS, ADVERSE REACTIONS, and DOSAGE AND ADMINISTRATION**).

Lamivudine: The safety and effectiveness of twice-daily lamivudine in combination with other antiretroviral agents have been established in pediatric patients 3 months of age and older (see **CLINICAL PHARMACOLOGY: Pharmacokinetics: Special Populations: Pediatric Patients, INDICATIONS AND USAGE: Description of Clinical Studies: Pediatric Patients, WARNINGS, ADVERSE REACTIONS, and DOSAGE AND ADMINISTRATION**).

Geriatric Use: Clinical studies of abacavir and lamivudine did not include sufficient numbers of patients aged 65 and over to determine whether they respond differently from younger patients. In general, dose selection for an elderly patient should be cautious, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy. Abacavir Sulfate and Lamivudine Tablets are not recommended for patients with impaired renal function or impaired hepatic function (see **PRECAUTIONS and DOSAGE AND ADMINISTRATION**).

ADVERSE REACTIONS
Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared with rates in the clinical trials of another drug and may not reflect the rates observed in practice.

Abacavir

Hypersensitivity Reaction: Serious and sometimes fatal hypersensitivity reactions have been associated with abacavir sulfate, a component of Abacavir Sulfate and Lamivudine Tablets.

In one study, once-daily dosing of abacavir sulfate was associated with more severe hypersensitivity reactions (see **WARNINGS and PRECAUTIONS: Information for Patients).**

Pediatric Patients

Treatment-emergent clinical adverse reactions (rated by the investigator as moderate or severe) with a >5% frequency during therapy with abacavir 8 mg/kg twice daily and zidovudine 180 mg/m² twice daily compared with lamivudine 4 mg/kg twice daily and zidovudine 180 mg/m² twice daily from CNA3006 are listed in Table 4.

Table 4. Treatment-Emergent (All Causality) Adverse Reactions of at Least Moderate Intensity (Grades 2 to 4, >5% Frequency) in Therapy-Experienced Pediatric Patients (CNA3006) Through 16 Weeks of Treatment

Adverse Reactions	Abacavir plus Zidovudine (n = 102)	Lamivudine plus Zidovudine (n = 103)
Fever and/or chills	9%	7%
Nausea and vomiting	9%	2%
Skin rashes	7%	1%
Ear/nose/throat infections	5%	1%
Pneumonia	4%	5%
Headache	1%	5%

Laboratory Abnormalities: In Study CNA3006, laboratory abnormalities (anemia, neutropenia, liver function test abnormalities, and 5% decrease in hemoglobin) were more frequent in pediatric patients receiving abacavir (CNA30024). Mild elevations of blood glucose were more frequent in pediatric patients receiving abacavir (CNA3006) as compared with adult patients (CNA30024).

Other Adverse Events: In addition to adverse reactions and laboratory abnormalities reported, other adverse reactions observed in the expanded access program were pancreatitis and increased GGT.

Lamivudine

Pediatric Patients
Lamivudine has been studied in 638 pediatric patients 3 months to 18 years of age in 3 clinical trials. Selected clinical adverse events and physician findings with a >5% frequency during therapy with lamivudine 4 mg/kg twice daily plus zidovudine 180 mg/m² 3 times daily compared with lamivudine in therapy-naïve (<56 days of antiretroviral therapy) pediatric patients are listed in Table 5.

Table 5. Selected Clinical Adverse Events and Physician Findings (>5% Frequency) in Pediatric Patients in Study ACTG330

Adverse Event	Lamivudine plus Zidovudine (n = 238)	Didanosine (n = 235)
Body as a Whole		
Fever	25%	32%
Digestive		
Hepatomegaly	11%	11%
Nausea and vomiting	8%	7%
Diarrhea	8%	6%
Stomatitis	8%	8%
Splenomegaly	5%	8%
Respiratory		
Cough	15%	18%
Abnormal breath sounds/wheezing	7%	9%
Ear, Nose and Throat		
Signs or symptoms of ears*	7%	6%
Nasal discharge or congestion	8%	11%
Other		
Skin rashes	12%	14%
Lymphadenopathy	3%	11%

Pancreatitis, which has been fatal in some cases, has been observed in antiretroviral nucleoside-experienced pediatric patients receiving lamivudine in combination with other antiretroviral agents. In an open-label dose-escalation study (NUCA2002), 14 patients (14%) developed pancreatitis while receiving monotherapy with lamivudine. Three of these patients died of complications of pancreatitis. In a second open-label study (NUCA2005), 12 patients (15%) developed pancreatitis. In Study ACTG330, pancreatitis was not observed in 228 patients randomized to lamivudine plus zidovudine. Pancreatitis was observed in 1 patient in this study who received open-label lamivudine in combination with zidovudine and ritonavir following discontinuation of didanosine monotherapy.

Pancreatitis and peripheral neuropathies were reported in 15 patients (15%) in Study NUCA2002, 6 patients (9%) in Study NUCA2005, and 2 patients (<1%) in Study ACTG330.

Selected laboratory abnormalities experienced by therapy-naïve (56 days of antiretroviral therapy) pediatric patients are listed in Table 6.

Table 6. Frequencies of Selected Laboratory Abnormalities in Pediatric Patients in Study ACTG330

Test (Threshold Level)	Lamivudine plus Zidovudine	Didanosine
Absolute neutrophil count (< 400/mm ³)	8%	3%
Hemoglobin (< 7.0 g/dL)	4%	2%
Platelets (< 50,000/mm ³)	1%	3%
ALT (> 10 x ULN)	1%	3%
AST (> 10 x ULN)	2%	4%
Lipase (> 2.5 x ULN)	3%	3%
Total Amylase (> 2.5 x ULN)	3%	3%

Neonates: Limited short-term safety information is available from 2 small, uncontrolled studies in South Africa in neonates receiving lamivudine with or without zidovudine for the first week of life following maternal treatment starting at Week 36 or 36 of gestation (see **CLINICAL PHARMACOLOGY: Pediatric Patients**). Adverse events reported in neonates included increased liver function tests, anemia, diarrhea, electrolyte disturbances, hypoglycemia, jaundice and hepatomegaly, rash, respiratory infections, sepsis, and syphilis. 3 neonates died (1 from gastroenteritis with acidosis and convulsions, 1 from traumatic injury, and 1 from unknown causes). Two neonates died (1 from unknown cause and 1 from unknown cause) during the first 2 weeks of treatment. Renal insufficiency associated with dehydration. The absence of control groups further limits assessments of causality, but it should be assumed that perinatally exposed infants may be at risk for adverse events comparable to those reported in pediatric and adult HIV-infected children treated with lamivudine-containing combination regimens. Long-term effects of *in utero* and infant lamivudine exposure are not known.

Observed During Clinical Practice

The following reactions have been identified during post-approval use of abacavir and lamivudine. Because they are reported voluntarily from a population of unknown size, estimates of frequency cannot be made. These events have been chosen for inclusion due to a combination of their seriousness, frequency of reporting, or potential causal connection to abacavir and/or lamivudine.

Abacavir: Suspected Stevens-Johnson syndrome (SJS) and toxic epidermal necrolysis (TEN) have been reported in patients receiving abacavir primarily in combination with medications known to be associated with SJS and TEN, respectively. Because of the overlap of clinical signs and symptoms between hypersensitivity to abacavir and SJS and TEN, and the possibility of multiple drug sensitivities in some patients, abacavir should be discontinued and not restarted in such cases.

There have also been reports of erythema multiforme with abacavir use.

Abacavir and Lamivudine

Body as a Whole: Redistribution/accumulation of body fat (see **PRECAUTIONS: Fat Redistribution**).

Digestive

Stomatitis: Stomatitis.

Endocrine and Metabolic:

Hyperglycemia.

General:

Weakness.

Hemic and Lymphatic: Aplastic anemia, anemia (including pure red cell aplasia and severe anemia) progressing to pancytopenia, lymphadenopathy, splenomegaly.

Hotspots and Rash: Lactic acidosis and hepatic steatosis, pancreatitis, posttreatment exacerbation of hepatitis B (see **WARNINGS**).

Hypersensitivity: Sensitization reactions (including anaphylaxis), urticaria.

Immune System: Myocarditis, weakness, CPK elevation, rhabdomyolysis.

Neurologic: Parosmia, peripheral neuropathy, seizures.

Respiratory: Abnormal breath sounds/wheezing.

Skin: Alopecia, erythema multiforme, Stevens-Johnson syndrome.

OVERDOSAGE

Abacavir: There is no known antidote for abacavir. It is not known whether abacavir can be removed by peritoneal dialysis or hemodialysis.

Lamivudine: One case of an adult ingesting 6 grams of lamivudine was reported; there were no clinical signs or symptoms noted and hematologic tests remained normal. It is not known whether lamivudine can be removed by hemodialysis or peritoneal dialysis.

DOSAGE AND ADMINISTRATION

A Medication Guide and Warning Card that provide information about recognition of hypersensitivity reactions should be dispensed with each prescription and refill.

Abacavir Sulfate and Lamivudine Tablets can be taken with or without food.

Adolescents and Pediatric Patients

The recommended oral dose of Abacavir Sulfate and Lamivudine Tablets for adolescents and pediatric patients 3 months to up to 16 years of age is abacavir 8 mg/kg twice daily (up to a maximum of 300 mg twice daily) and lamivudine plus zidovudine twice daily up to a maximum of 150 mg/kg twice daily in combination with other antiretroviral agents. This translates as follows in terms of 60 mg/30 mg tablets*:

Weight (kg)	Dosage Regimen Using Scored Abacavir Sulfate and Lamivudine 60 mg/30 mg Tablets*	Total Daily Dose (mg)
5	AM Dose (mg) ½ tablet (30 mg A/15 mg L) PM Dose (mg) 1 tablet (60 mg A/30 mg L)	90A/45L 120A/60L
6 - < 9	1 tablet (60 mg A/30 mg L)	120A/60L
9 - < 12	1.5 tablets (90 mg A/45 mg L)	135A/67.5L
12 - < 17	2 tablets (120 mg A/60 mg L)	240A/120L
17 - < 20	2.5 tablets (150 mg A/75 mg L)	300A/150L
20 - < 25	3 tablets (180 mg A/90 mg L)	360A/180L
25 - < 29	3.5 tablets (210 mg A/105 mg L)	420A/210L
29 - < 35	4 tablets (240 mg A/120 mg L)	480A/240L

*A= abacavir sulfate; L= lamivudine

For children younger than 16 years old and weighing ≥ 35 kg, the recommended dose is the adult maximum daily dose, abacavir 300 mg twice daily and lamivudine 150 mg twice daily.

Method of Preparation

For children or able to swallow the tablet, the following procedure can be used:

- Place the tablet in a container and add two teaspoons (10 mL) of water per tablet.
- Swirl the container until tablet gets dispersed.
- Drink the dispersion within 1 hour.
- Rinse the container with additional small amount of water and drink the contents to assure that the entire tablet has been dispersed.

DO NOT MIX ABACAVIR SULFATE AND LAMIVUDINE TABLET WITH ANY LIQUID OTHER THAN WATER.

Dose Adjustment

Patients who are liver-diseased, have hepatitis B, or whose experiencing dose-limiting adverse events.

HOW SUPPLIED

Abacavir Sulfate and Lamivudine Tablets, 60 mg/30 mg are orange colored, modified capsule shaped film-coated tablets, debossed with 'H' and '38' on either side of the deep break line on one side and deep break line on the other side.

Bottles of 30 NDC 65862-334-30

Bottles of 60 NDC 65862-334-60

Carton of 100 (10 x 10) Unit-of-use Units NDC 65862-334-100

Store at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature].

ANIMAL TOXICOLOGY

Myocardial degeneration was found in mice and rats following administration of abacavir for 2 years. The systemic exposures were equivalent to 7 to 24 times the expected systemic exposure in humans. The clinical relevance of this finding has not been determined.

REFERENCES

- Data Collection on Adverse Events of Anti-HIV Drugs (D.A.D) Study Group. *Lancet*. 2008;371 (9622):1412-1417.

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Abacavir Sulfate and Lamivudine Tablets 60 mg/30 mg

Read the Medication Guide that comes with Abacavir Sulfate and Lamivudine Tablets before you start taking or giving HIV therapy and each time you get a refill because there may be new information. This information does not take the place of talking to your doctor about your child's or your medical condition or treatment. Be sure to carry the Abacavir Sulfate and Lamivudine Warning Card with you at all times.

What are the most important information I should know about Abacavir Sulfate and Lamivudine Tablets?

Serious Allergic Reaction to Abacavir, Abacavir Sulfate and Lamivudine Tablets (also contained in Ziagen®, Epizcom™, and Trizivir®). Patients taking Abacavir Sulfate and Lamivudine Tablets may have a serious allergic reaction (hypersensitivity reaction) that can cause death. The risk of this allergic reaction is much higher in persons who have a gene variation called HLA-B*57:01 than in those who do not. A blood test can determine if a person has this gene variation. If you get a symptom from 2 or more of the following groups while taking Abacavir Sulfate and Lamivudine Tablets, call your doctor right away to determine if this medicine should be stopped:

Group 1 Fever
Group 2 Rash
Group 3 Nausea, vomiting, diarrhea, abdominal (stomach area) pain
Group 4 Generally ill feeling, extreme tiredness, or achiness
Group 5 Shortness of breath, cough, sore throat

What are the possible side effects of Abacavir Sulfate and Lamivudine Tablets?
Abacavir Sulfate and Lamivudine Tablets can have other serious side effects. Be sure to read the section below entitled "What are the possible side effects of Abacavir Sulfate and Lamivudine Tablets?"

What are Abacavir Sulfate and Lamivudine Tablets?
Abacavir Sulfate and Lamivudine Tablets are a prescription medicine used to treat HIV infection. Abacavir Sulfate and Lamivudine Tablets include 2 medicines: abacavir and lamivudine (3TC). See the end of this Medication Guide for a complete list of ingredients in Abacavir Sulfate and Lamivudine Tablets. Both of these medicines are called nucleoside analog reverse transcriptase inhibitors (NRTIs). When used together, they help lower the amount of HIV in your child's or your blood. This helps to keep your child's or your immune system as healthy as possible so that it can help fight infection.

Different combinations of medicines are used to treat HIV infection. You and your doctor should discuss which combination of medicines is best for your child or you.

Abacavir Sulfate and Lamivudine Tablets do not cure HIV infection or AIDS. We do not know if Abacavir Sulfate and Lamivudine Tablets will help your child or you live longer or have fewer of the medical problems that people get with HIV or AIDS. It is very important that your child see a doctor regularly while your child or you are taking Abacavir Sulfate and Lamivudine Tablets.

Abacavir Sulfate and Lamivudine Tablets do not lower the risk of passing HIV to other people through sexual contact, sharing needles, or being exposed to your blood. For your health and the health of others, it is important to always practice safe sex using a latex or polyurethane condom or other barrier method to lower the chance of sexual contact with semen, vaginal secretions, or blood. Never use or share dirty needles.

Who should not take Abacavir Sulfate and Lamivudine Tablets?
Do not give your child or take Abacavir Sulfate and Lamivudine Tablets if:
• Your child or you have ever had a serious allergic reaction (a hypersensitivity reaction) to Abacavir Sulfate and Lamivudine Tablets or any other medicine that get a rash because one of its ingredients is Abacavir Sulfate and Lamivudine Tablets, or any other medicine that get a rash because one of its ingredients is Epizcom™ and Trizivir®. See the end of this Medication Guide for a complete list of ingredients in Abacavir Sulfate and Lamivudine Tablets. If your child or you have had such a reaction, return all of the unused Abacavir Sulfate and Lamivudine Tablets to your doctor or pharmacist.
• Your child or you have a liver that does not function properly.

Before starting Abacavir Sulfate and Lamivudine Tablets tell the doctor about all your child's and your medical conditions, including if:

- Your child or you have kidney problems.
- Your child or you have heart problems, smoke, or suffer from diseases that increase your child's or your risk of heart disease such as high blood pressure, high cholesterol, or diabetes.

Tell your doctor about all the medicines your child and you take, including prescription and nonprescription medicines, vitamins, and herbal supplements. Especially tell your doctor if your child or you take:

- Methadone
- Epivir® or Epivir-HBV® (lamivudine, 3TC), Combivir® (lamivudine and zidovudine), Ziagen® (abacavir sulfate), Epizcom™ (abacavir sulfate and lamivudine) and Trizivir® (abacavir sulfate, lamivudine, and zidovudine).

How should my child or I take Abacavir Sulfate and Lamivudine Tablets?

- Give or take Abacavir Sulfate and Lamivudine Tablets by mouth exactly as the doctor prescribes them. The doctor will tell you the right dose to give or take. The dose will depend on the weight of your child. Do not skip doses. For very young children who cannot swallow tablets, the following procedure can be used:
 1. Place the tablet in a container and add two teaspoons (10 mL) of water per tablet.
 2. Swirl the container until tablet gets dispersed.
 3. Drink the dispersion within 1 hour.
 4. Rinse the container with additional small amount of water and drink the contents to assure that the entire dosage is taken.

DO NOT MIX ABACAVIR SULFATE AND LAMIVUDINE TABLET WITH ANY LIQUID OTHER THAN WATER.

- Older children, who can reliably swallow tablets, will be given the appropriate dose (see table) as swallowed.

Weight (kg)	Dosage Regimen Using Scored Abacavir Sulfate and Lamivudine 60 mg/30 mg Tablets*		Total Daily Dose (mg)
	AM Dose (mg)	PM Dose (mg)	
5	½ tablet (30 mg A/15 mg L)	1 tablet (60 mg A/30 mg L)	90A/45L
6 - < 9	1 tablet (60 mg A/30 mg L)	1 tablet (60 mg A/30 mg L)	120A/60L
9 - < 12	1.5 tablets (90 mg A/45 mg L)	1.5 tablets (90 mg A/45 mg L)	180A/90L
12 - < 17	2 tablets (120 mg A/60 mg L)	2 tablets (120 mg A/60 mg L)	240A/120L
17 - < 20	2.5 tablets (150 mg A/75 mg L)	2.5 tablets (150 mg A/75 mg L)	300A/150L
20 - < 25	3 tablets (180 mg A/90 mg L)		

(Front of Card)

WARNING CARD

Abacavir Sulfate and Lamivudine Tablets 60 mg/30 mg

Patients taking Abacavir Sulfate and Lamivudine Tablets may have a serious allergic reaction (hypersensitivity reaction) that can cause death. If your child or you get a symptom from 2 or more of the following groups while taking Abacavir Sulfate and Lamivudine Tablets, stop taking Abacavir Sulfate and Lamivudine Tablets and call your doctor right away.

	Symptom(s)
Group 1	Fever
Group 2	Rash
Group 3	Nausea, vomiting, diarrhea, or abdominal (stomach area) pain
Group 4	Generally ill feeling, extreme tiredness, or achiness
Group 5	Shortness of breath, cough, or sore throat

Always carry this Warning Card with you to help recognize symptoms of this allergic reaction.

(Back of Card)

WARNING CARD

Abacavir Sulfate and Lamivudine Tablets 60 mg/30 mg

If your child or you must stop treatment with Abacavir Sulfate and Lamivudine Tablets because your child or you have had an allergic reaction to abacavir, **NEVER** take Abacavir Sulfate and Lamivudine Tablets or another abacavir-containing medicine (Ziagen[®], Epzicom and Trizivir[®]) again. If your child or you take Abacavir Sulfate and Lamivudine Tablets or another abacavir-containing medicine again after your child or you have had an allergic reaction, **WITHIN HOURS** your child or you may get **life-threatening symptoms** that may include **very low blood pressure** or **death**.

Your child or you should return all of the unused Abacavir Sulfate and Lamivudine Tablets to your doctor or pharmacist for proper disposal.

Please read the Medication Guide for additional information on Abacavir Sulfate and Lamivudine Tablets.

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