

What should I tell my healthcare provider before taking Lamivudine Tablets (HBV)?

Before you take Lamivudine Tablets (HBV), tell your healthcare provider if you:

- have HIV-1 infection
- have kidney problems
- have any other medical condition
- are pregnant or plan to become pregnant. It is not known if Lamivudine Tablets (HBV) will harm your unborn baby.
- Pregnancy Registry.** There is a pregnancy registry for women who take antiviral medicines during pregnancy. The purpose of this registry is to collect information about the health of you and your baby. Talk to your healthcare provider about how you can take part in this registry.
- are breastfeeding or plan to breastfeed. Lamivudine can pass into your breast milk and may harm your baby. You and your healthcare provider should decide if you will take Lamivudine Tablets (HBV) or breastfeed.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

Do not take Lamivudine Tablets (HBV) if you also take:

- other medicines that contain lamivudine (COMBIVIR®, EPIVIR®, EPZICOM®, TRIZIVIR®)
- medicines that contain emtricitabine (ATRIPLA®, COMPLERA®, EMTRIVA®, STRIBILD®, TRUVADA®)

How should I take Lamivudine Tablets (HBV)?

- Take Lamivudine Tablets (HBV) exactly as your healthcare provider tells you to take it.
- Do not change your dose or stop taking Lamivudine Tablets (HBV) without talking with your healthcare provider.
- Lamivudine Tablets (HBV) is taken 1 time each day.
- Your healthcare provider may prescribe a lower dose if you have problems with your kidneys.
- For children 2 to 17 years of age, your healthcare provider will prescribe the right dose of Lamivudine Tablets (HBV) based on your child's body weight.
- Take Lamivudine Tablets (HBV) by mouth, with or without food.
- Tell your healthcare provider if you have trouble swallowing tablets.
- If you take too much Lamivudine Tablets (HBV), call your healthcare provider or go to the nearest hospital emergency room right away.
- It is important to stay under your healthcare provider's care while taking Lamivudine Tablets (HBV). Tell your healthcare provider about any new symptoms that you have.

What are the possible side effects of Lamivudine Tablets (HBV)?

Lamivudine Tablets (HBV) may cause serious side effects, including:

See "What is the most important information I should know about Lamivudine Tablets (HBV)?"

The most common side effects of Lamivudine Tablets (HBV) include:

- ear, nose, and throat infections
- sore throat
- diarrhea

Tell your healthcare provider if you have any side effect that bothers you or that does not go away.

These are not all the possible side effects of Lamivudine Tablets (HBV). For more information, ask your healthcare provider or pharmacist.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store Lamivudine Tablets (HBV)?

- Store Lamivudine Tablets (HBV) at room temperature between 68°F to 77°F (20°C to 25°C).

Keep Lamivudine Tablets (HBV) and all medicines out of the reach of children.

General information about the safe and effective use of Lamivudine Tablets (HBV)

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use Lamivudine Tablets (HBV) for a condition for which it was not prescribed. Do not give Lamivudine Tablets (HBV) to other people, even if they have the same symptoms that you have. It may harm them.

If you would like more information, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about Lamivudine Tablets (HBV) that is written for health professionals.

What are the ingredients in Lamivudine Tablets (HBV)?

Active ingredient: lamivudine

Inactive ingredients: anhydrous lactose, crospovidone, colloidal silicon dioxide, magnesium stearate, hypromellose, hydroxypropyl cellulose, polyethylene glycol, titanium dioxide, red ferric oxide and yellow ferric oxide.

This Patient Information has been approved by the U.S. Food and Drug Administration.

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APOTEX INC.
LAMIVUDINE TABLETS (HBV), 100 mg

Manufactured by: Apotex Inc. Toronto, Ontario Canada M9L 1T9	Manufactured for: Apotex Corp. Weston, Florida 33326
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Revision: 2

8.5 Geriatric Use

Clinical trials of lamivudine 100 mg did not include sufficient numbers of subjects aged and over to determine whether they respond differently from younger subjects. 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. In particular, because lamivudine is substantially excreted by the kidney and elderly patients are more likely to have decreased renal function, renal function should be monitored and dosage adjustments should be made accordingly [see *Dosage and Administration* (2.4), *Clinical Pharmacology* (12.3)].

8.6 Patients With Impaired Renal Function

Reduction of the dosage of Lamivudine Tablets (HBV) is recommended for patients with impaired renal function [see *Dosage and Administration* (2.4), *Clinical Pharmacology* (12.3)].

8.7 Patients With Impaired Liver Function

No dose adjustment for lamivudine is required for patients with impaired hepatic function.

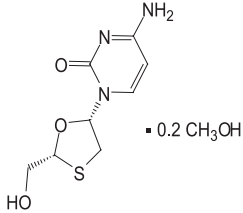
10 OVERDOSEAGE

There is no known antidote for lamivudine. If overdose occurs, the patient should be monitored, and standard supportive treatment utilized, as required.

Because a negligible amount of lamivudine was removed via (4-hour) hemodialysis, continuous ambulatory peritoneal dialysis, and automated peritoneal dialysis, it is not known if continuous hemodialysis would provide clinical benefit in a lamivudine overdose event.

11 DESCRIPTION

Lamivudine Tablets (HBV) is a synthetic nucleoside analogue with activity against HBV. The drug substance used in Lamivudine Tablets (HBV) is lamivudine in the form of lamivudine methanol solvate. The chemical name of lamivudine methanol solvate is (2R,cis)-4-amino-1-(2-hydroxymethyl)-1,3-oxathiolan-5-yl) 2 (1H)-pyrimidinone methanol solvate. It has a molecular formula of C₈H₁₁N₅O₃S•0.2 CH₃O and a molecular weight of 235.66. It has the following structural formula:



Lamivudine is a white to off-white powder. It is highly soluble in water.

Lamivudine Tablets (HBV) are for oral administration. Each tablet contains lamivudine methanol solvate equivalent to 100 mg of lamivudine and the inactive ingredients anhydrous lactose, crospovidone, colloidal silicon dioxide, magnesium stearate, hypromellose, hydroxypropyl cellulose, polyethylene glycol, titanium dioxide, red ferric oxide and yellow ferric oxide.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Lamivudine is an antiviral agent [see Microbiology (12.4)].

12.3 Pharmacokinetics

Pharmacokinetics in Adults: The pharmacokinetic properties of lamivudine have been studied as single and multiple oral doses ranging from 5 mg to 600 mg per day administered to HBV-infected subjects.

Absorption and Bioavailability: Following single oral doses of 100 mg, the peak serum lamivudine concentration (C_{max}) in HBV-infected patients (steady state) and healthy subjects (single dose) was 1.28 ± 0.56 mcg per mL and 1.05 ± 0.32 mcg per mL (mean ± SD), respectively, which occurred between 0.5 and 2 hours after administration. The area under the plasma concentration versus time curve (AUC_{0-24 h}) following 100 mg lamivudine oral single and repeated daily doses to steady state was 4.3 ± 1.4 (mean ± SD) and 4.7 ± 1.7 mcg•hour per mL, respectively. The relative bioavailability of the tablet and oral solution were demonstrated in healthy subjects. Although the solution demonstrated a slightly higher peak serum concentration (C_{max}), there was no significant difference in systemic exposure (AUC) between the oral solution and the tablet. Therefore, the oral solution and the tablet may be used interchangeably.

After oral administration of lamivudine once daily to HBV-infected adults, the AUC and C_{max} increased in proportion to dose over the range from 5 mg to 600 mg once daily.

Absolute bioavailability in 12 adult subjects was 86% ± 16% (mean ± SD) for the 150 mg tablet and 87% ± 13% for the 10 mg per mL oral solution.

Effects of Food on Oral Absorption: The 100-mg tablet was administered orally to 24 healthy subjects on 2 occasions, once in the fasted state and once with food (standard meal; 967 kcal; 67 grams fat, 33 grams protein, 58 grams carbohydrate). There was no significant difference in systemic exposure (AUC) in the fed and fasted states.

Distribution: The apparent volume of distribution after IV administration of lamivudine to 20 asymptomatic HIV-1-infected subjects was 1.3 ± 0.4 L per kg, suggesting that lamivudine distributes into extravascular spaces. Volume of distribution was independent of dose and did not correlate with body weight.

Binding of lamivudine to human plasma proteins is less than 36% and independent of dose. *In vitro* studies showed that over a concentration range of 0.1 to 100 mcg per mL, the amount of lamivudine associated with erythrocytes ranged from 53% to 57% and was independent of concentration.

Metabolism: Metabolism of lamivudine is a minor route of elimination. In humans, the only known metabolite of lamivudine is the trans-sulfoxide metabolite. In 9 healthy subjects receiving 300 mg of lamivudine as single oral doses, a total of 4.2% (range: 1.5% to 7.5%) of the dose was excreted as the trans-sulfoxide metabolite in the urine, the majority of which was excreted in the first 12 hours. Serum concentrations of the trans-sulfoxide metabolite have not been determined. **Elimination:** The majority of lamivudine is eliminated unchanged in urine by active organic cationic secretion. In 9 healthy subjects given a single 300 mg oral dose of lamivudine, renal clearance was 109.7 ± 56.9 mL per min (mean ± SD). In 20 HIV-1-infected subjects given a single IV dose, renal clearance was 280.4 ± 75.2 mL per min (mean ± SD), representing 71% ± 16% (mean ± SD) of total clearance of lamivudine.

In most single-dose trials in HIV-1-infected subjects, HBV-infected subjects, or healthy subjects with serum sampling for 24 hours after dosing, the observed mean elimination half-life (t_{1/2}) ranged from 5 to 7 hours. In HIV-1-infected subjects, total clearance was 398.5 ± 69.1 mL per min (mean ± SD). Oral clearance and elimination half-life were independent of dose and body weight over an oral dosing range of 0.25 to 10 mg per kg.

Special Populations: Adults With Renal Impairment: The pharmacokinetic properties of lamivudine have been determined in healthy subjects and in subjects with impaired renal function, with and without hemodialysis (Table 5).

Table 5. Pharmacokinetic Parameters (Mean ± SD) Dose-Normalized to a Single 100 mg Oral Dose of Lamivudine in Subjects With Varying Degrees of Renal Function

Parameter	Creatinine Clearance Criterion (Number of Subjects)		
	≥80 mL/min (n = 9)	20-59 mL/min (n = 8)	<20 mL/min (n = 6)
Creatinine clearance (mL/min)	97 (range 82-117)	39 (range 25-49)	15 (range 13-19)
C _{max} (mcg/mL)	1.31 ± 0.35	1.85 ± 0.40	1.55 ± 0.31
AUC (mcg•h/mL)	5.28 ± 1.01	14.67 ± 3.74	27.33 ± 6.56
Cl/F (mL/min)	326.4 ± 63.8	120.1 ± 29.5	64.5 ± 18.3

Exposure (AUC), C_{max}, and half-life increased with diminishing renal function (as expressed by creatinine clearance). Apparent total oral clearance (Cl/F) of lamivudine decreased as creatinine clearance decreased. T_{1/2} was not significantly affected by renal function. Based on these observations, it is recommended that the dosage of lamivudine be modified in patients with renal impairment [see *Dosage and Administration* (2.4)].

Hemodialysis increases lamivudine clearance from a mean of 64 to 88 mL per min; however, the length of time of hemodialysis (4 hours) was insufficient to significantly alter mean lamivudine exposure after a single-dose administration. Continuous ambulatory peritoneal dialysis and automated peritoneal dialysis have negligible effects on lamivudine clearance. Therefore, it is recommended, following correction of dose for creatinine clearance, that no additional dose modification be made after routine hemodialysis or peritoneal dialysis.

It is not known whether lamivudine can be removed by continuous (24-hour) hemodialysis.

Pediatric Patients With Renal Impairment: The effect of renal impairment on lamivudine pharmacokinetics in pediatric patients with chronic hepatitis B is not known.

Adults With Hepatic Impairment: The pharmacokinetic properties of lamivudine in adults with hepatic impairment are shown in Table 6. Subjects were stratified by severity of hepatic impairment.

Table 6. Pharmacokinetic Parameters (Mean ± SD) Dose-Normalized to a Single 100 mg Dose of Lamivudine in Subjects With Normal or Impaired Hepatic Function

Parameter	Impairments		
	Normal (n = 8)	Moderate (n = 8)	Severe (n = 8)
C _{max} (mcg/mL)	0.92 ± 0.31	1.06 ± 0.58	1.08 ± 0.27
AUC (mcg•h/mL)	3.96 ± 0.58	3.97 ± 1.36	4.30 ± 0.63
T _{max} (h)	1.3 ± 0.8	1.4 ± 0.8	1.4 ± 1.2
Cl/F (mL/min)	424.7 ± 61.9	456.9 ± 129.8	395.2 ± 51.8
Cl _r (mL/min)	279.2 ± 79.2	323.5 ± 100.9	216.1 ± 58.0

a Hepatic impairment assessed by aminopyrine breath test.

Pharmacokinetic parameters were not altered by diminishing hepatic impairment. Therefore, no dose adjustment for lamivudine is required for patients with impaired hepatic function. Safety and efficacy of lamivudine have not been established in the presence of decompensated liver disease [see *Indications and Usage* (1)].

Adults Post-Hepatic Transplant: Fourteen HBV-infected subjects received liver transplant following lamivudine therapy and completed pharmacokinetic assessments at enrollment, 2 weeks after 100 mg once-daily dosing (pre-transplant), and 3 months following transplant; there were no significant differences in pharmacokinetic parameters. The overall exposure of lamivudine is primarily affected by renal impairment; consequently, transplant patients with renal impairment had generally higher exposure than patients with normal renal function. Safety and efficacy of lamivudine have not been established in this population [see *Indications and Usage* (1)].

Pediatric Subjects: Lamivudine pharmacokinetics were evaluated in a 28 day dose-ranging trial in 53 pediatric subjects with chronic hepatitis B. Subjects aged 2 to 12 years were randomized to receive lamivudine 0.35 mg per kg twice daily, 3 mg per kg once daily, 1.5 mg per kg twice daily, or 4 mg per kg twice daily. Subjects aged 13 to 17 years received lamivudine 100 mg once daily. Lamivudine T_{max} was 0.5 to 1 hour. In general, both C_{max} and exposure (AUC) showed dose proportionality in the dosing range studied. Weight-corrected oral clearance was highest at age 2 and declined from 2 to 12 years, where values were then similar to those seen in adults. A dose of 3 mg per kg given once daily produced a steady-state lamivudine AUC (mean 5.955 ng•hour per mL ± 1.562 SD) similar to that associated with a dose of 100 mg per day in adults.

Gender: There are no significant gender differences in lamivudine pharmacokinetics.

Race: There are no significant racial differences in lamivudine pharmacokinetics.

Drug Interactions: Interferon Alfa: Multiple doses of lamivudine and a single dose of interferon were coadministered to 19 healthy male subjects in a pharmacokinetic trial. Results indicated a 10% reduction in lamivudine AUC, but no change in interferon pharmacokinetic parameters when the 2 drugs were given in combination. All other pharmacokinetic parameters (C_{max}, T_{max}, and t_{1/2}) were unchanged. There was no significant pharmacokinetic interaction between lamivudine and interferon alfa in this trial.

Ribavirin: *In vitro* data indicate ribavirin reduces phosphorylation of lamivudine, stavudine, and zidovudine. However, no pharmacokinetic (e.g., plasma concentrations or intracellular triphosphorylated active metabolite concentrations) or pharmacodynamic (e.g., loss of HIV-1/HCV virologic suppression) interaction was observed when ribavirin and lamivudine (n = 18), stavudine (n = 10), or zidovudine (n = 6) were coadministered as part of a multi-drug regimen to HIV-1/HCV co-infected subjects.

Trimopirym/Sulfamethoxazole: Lamivudine and trimopirym/sulfamethoxazole (TMP/SMX) were coadministered to 14 HIV-positive subjects in a single-center, open-label, randomized, crossover trial. Each subject received treatment with a single 300 mg dose of lamivudine and TMP 160 mg/SMX 800 mg once a day for 5 days with concomitant administration of lamivudine 300 mg with the fifth dose in a crossover design. Coadministration of TMP/SMX with lamivudine resulted in an increase of 44% ± 23% (mean ± SD) in lamivudine AUC, a decrease of 28% ± 13% in lamivudine oral clearance, and a decrease of 30% ± 36% in lamivudine renal clearance. The pharmacokinetic properties of TMP and SMX were not altered by coadministration with lamivudine.

Zidovudine: Lamivudine and zidovudine were coadministered to 12 asymptomatic HIV-positive adult subjects in a single-center, open-label, randomized, crossover trial. No significant differences were observed in AUC or total clearance for lamivudine or zidovudine when the 2 drugs were administered together. Coadministration of lamivudine with zidovudine resulted in an increase of 39% ± 62% (mean ± SD) in C_{max} of zidovudine.

12.4 Microbiology

Mechanism of Action: Lamivudine is a synthetic nucleoside analogue. Intracellularly, lamivudine is phosphorylated to its active 5'-triphosphate metabolite, lamivudine triphosphate, 3TC-TP. The principal mode of action of 3TC-TP is the inhibition of the RNA- and DNA dependent polymerase activities of HBV reverse transcriptase (rt) via DNA chain termination after incorporation of the nucleotide analogue into viral DNA. 3TC-TP is a weak inhibitor of mammalian α, β, and γ-DNA polymerases. **Antiviral Activity:** Activity of lamivudine against HBV in cell culture was assessed in HBV DNA-transfected 2.2.15 cells, HB611 cells, and infected human primary hepatocytes. EC₅₀ values (the concentration of drug needed to reduce the level of extracellular HBV DNA by 50%) varied from 0.01 microM (2.3 ng per mL) to 5.6 microM (1.3 mcg per mL) depending upon the duration of exposure of cells to lamivudine, the cell model system, and the protocol used. See the EPIVIR® prescribing information for information regarding activity of lamivudine against HIV.

Resistance: Lamivudine-resistant isolates were identified in subjects with virologic breakthrough, defined when using solution hybridization assay as the detection of HBV DNA in serum on 2 or more occasions after failing to detect HBV DNA on 2 or more occasions and defined when using PCR assay as a greater than 1 log₁₀ (10-fold) increase in serum HBV DNA from nadir during treatment in a subject who had an initial virologic response.

Lamivudine-resistant HBV isolates develop rM204V/I substitutions in the YMDD motif of the catalytic domain of the viral reverse transcriptase. rM204V/I substitutions are frequently accompanied by other substitutions (rV173L, rL180M) which enhance the level of lamivudine resistance or act as compensatory substitutions improving replication efficiency. Other substitutions detected in lamivudine-resistant HBV isolates include rL80I and rA181T.

In 4 controlled clinical trials in adults with HBeAg-positive chronic hepatitis B virus infection (CHB), YMDD-mutant HBV was detected in 91 of 335 subjects receiving lamivudine100 mg once daily for 52 weeks. The prevalence of YMDD substitutions was less than 10% in each of these trials for subjects studied at 24 weeks and increased to an average of 24% (range in 4 trials: 16% to 32%) at 52 weeks. In limited data from a long-term follow-up trial in subjects who continued 100 mg per day lamivudine after one of these trials, YMDD substitutions further increased from 18% (10 of 57) at 1 year to 41% (20 of 49), 53% (27 of 51), and 69% (31 of 45) after 2, 3, and 4 years of treatment, respectively. Over the 5-year treatment period, the proportion of subjects who developed YMDD-mutant HBV at any time was 69% (40 of 58).

In a controlled trial, treatment-naïve subjects with HBeAg-positive CHB were treated with lamivudine or lamivudine plus adefovir dipivoxil combination therapy. Following 104 weeks of therapy, YMDD-mutant HBV was detected in 7 of 40 (18%) subjects receiving combination therapy compared with 15 of 35 (43%) subjects receiving therapy with only lamivudine. In another controlled trial, combination therapy was evaluated in adult subjects with HBeAg-positive CHB who had YMDD-mutant HBV and diminished clinical and virologic response to lamivudine. Following 52 weeks of lamivudine plus adefovir dipivoxil combination therapy (n = 46) or therapy with only lamivudine (n = 49), YMDD-mutant HBV was detected less frequently in subjects receiving combination therapy, 62% versus 96%. A published trial suggested that the rates of lamivudine resistance in subjects treated for HBeAg-negative CHB appear to be more variable (0% to 27% at 1 year and 10% to 56% at 2 years).

Pediatric Subjects: In a controlled trial in pediatric subjects, YMDD-mutant HBV was detected in 31 of 166 (19%) subjects receiving lamivudine for 52 weeks. For a subgroup that remained on therapy with lamivudine in a follow-up trial, YMDD substitutions increased from 24% (29 of 121) at 12 months to 59% (68 of 115) at 24 months and 64% (66 of 103) at 36 months of treatment with lamivudine.

Cross-Resistance: HBV containing lamivudine resistance-associated substitutions (rL180M, rM204I, rM204V, rL180M and rM204V, rV173L, and rL180M and rM204V) retain susceptibility to adefovir dipivoxil but have reduced susceptibility to entecavir (30 fold) and telbivudine (greater than 100 fold). The lamivudine resistance-associated substitution rA181T results in diminished response to adefovir and telbivudine. Similarly, HBV with entecavir resistance-associated substitutions (rI169T/M250V and T164G/S202I) have greater than 1,000 fold reductions in susceptibility to lamivudine.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis: Long-term carcinogenicity studies with lamivudine in mice and rats showed no evidence of carcinogenic potential at exposures up to 34 times (mice) and 200 times (rats) those observed in humans at the recommended therapeutic dose for chronic hepatitis B.

Mutagenesis: Lamivudine was not active in a microbial mutagenicity screen or an *in vitro* cell transformation assay, but showed weak *in vitro* mutagenic activity in a cytogenetic assay using cultured human lymphocytes and in the mouse lymphoma assay. However, lamivudine showed no evidence of *in vivo* genotoxic activity in the rat at oral doses of up to 2,000 mg per kg producing plasma levels of 50 to 70 times those in humans at the recommended dose for chronic hepatitis B.

Impairment of Fertility: In a study of reproductive performance, lamivudine administered to rats at doses up to 4,000 mg per kg per day, producing plasma levels 80 to 120 times those in humans, revealed no evidence of impaired fertility and no effect on the survival, growth, and development to weaning of the offspring.

14 CLINICAL STUDIES

14.1 Clinical Studies of Lamivudine in Adult Patients

The safety and efficacy of lamivudine100 mg once daily versus placebo were evaluated in 3 controlled trials in subjects with compensated chronic hepatitis B virus infection. All subjects were aged 16 years or older and had chronic hepatitis B virus infection (serum HBeAg-positive for at least 6 months) accompanied by evidence of HBV replication (serum HBeAg-positive and positive for serum HBV DNA) and persistently elevated ALT levels and/or chronic inflammation on liver biopsy compatible with a diagnosis of chronic viral hepatitis. The results of these trials are summarized below.

- Trial 1 was a randomized, double-blind trial of lamivudine 100 mg once daily versus placebo for 52 weeks followed by a 16-week no-treatment period in 141 treatment-naïve US subjects.
- Trial 2 was a randomized, double-blind, 3-arm trial that compared lamivudine 25 mg once daily versus lamivudine 100 mg once daily versus placebo for 52 weeks in 358 Asian subjects.
- Trial 3 was a randomized, partially-blind trial conducted primarily in North America and Europe in 238 subjects who had ongoing evidence of active chronic hepatitis B despite previous treatment with interferon alfa. The trial compared lamivudine 100 mg once daily for 52 weeks, followed by either lamivudine 100 mg or matching placebo once daily for 16 weeks (Arm 1), versus placebo once daily for 68 weeks (Arm 2).

Principal endpoint comparisons for the histologic and serologic outcomes in subjects receiving lamivudine (100 mg daily) or placebo in these trials are shown in the following tables.

Table 7. Histologic Response at Week 52 Among Adult Subjects Receiving Lamivudine 100 mg Once Daily or Placebo

Assessment	Trial 1		Trial 2		Trial 3	
	Lamivudine 100 mg (n = 62)	Placebo (n = 63)	Lamivudine 100 mg (n = 131)	Placebo (n = 58)	Lamivudine 100 mg (n = 110)	Placebo (n = 54)
Improvement ^a	55%	25%	56%	26%	56%	26%
No Improvement	27%	59%	36%	62%	25%	54%
Missing Data	18%	16%	8%	12%	19%	20%

^a Improvement was defined as a greater than or equal to 2-point decrease in the Knodell Histologic Activity Index (HAI) at Week 52 compared with pretreatment HAI. Subjects with missing data at baseline were excluded.

Table 8. HBeAg Seroconversion at Week 52 Among Adult Subjects Receiving Lamivudine 100 mg Once Daily or Placebo

Seroconversion	Trial 1		Trial 2		Trial 3	
	Lamivudine 100 mg (n = 63)	Placebo (n = 69)	Lamivudine 100 mg (n = 140)	Placebo (n = 70)	Lamivudine 100 mg (n = 108)	Placebo (n = 53)
Seroconverters	17%	6%	16%	4%	15%	13%

^a Three-component seroconversion was defined as Week 52 values showing loss of HBeAg, gain of HBeAb, and reduction of HBV DNA to below the solution-hybridization assay limit. Subjects with negative baseline HBeAg or HBV DNA assay were excluded from the analysis.

Normalization of serum ALT levels was more frequent with lamivudine treatment compared with placebo in Trials 1-3.

The majority of subjects treated with lamivudine showed a decrease of HBV DNA to below the assay limit early in the course of therapy. However, reappearance of assay-detectable HBV DNA during treatment with lamivudine was observed in approximately one-third of subjects after this initial response.

14.2 Clinical Studies of Lamivudine in Pediatric Subjects

