

General information about the safe and effective use of atorvastatin calcium tablets.

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use atorvastatin calcium tablets for a condition for which it was not prescribed. Do not give atorvastatin calcium tablets to other people, even if they have the same symptoms that you have. It may harm them. If you would like more information about atorvastatin calcium tablets, talk with your doctor. You can ask your pharmacist or doctor for information about atorvastatin calcium tablets that is written for health professionals.

What are the ingredients in atorvastatin calcium tablets?

Active Ingredient: atorvastatin calcium

Inactive Ingredients: calcium carbonate, croscarmellose sodium, hydroxypropyl cellulose, lactose monohydrate, magnesium stearate, microcrystalline cellulose, polysorbate 80 and film coating contains hypromellose, polyethylene glycol, talc and titanium dioxide).



Manufactured for:
Camber Pharmaceuticals, Inc.
Piscataway, NJ 08854

By: Amnora Pharma Pvt. Ltd.
Sangareddy - 502313,
Telangana, India

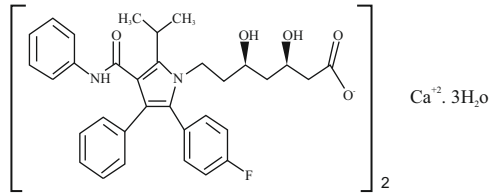
This Patient Package Information has been approved by the U.S. Food and Drug Administration

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11 DESCRIPTION

Atorvastatin is an inhibitor of 3-hydroxy-3-methylglutaryl-coenzyme A (HMG CoA) reductase.

Atorvastatin calcium is 1/4 Pyridine-1-heptanoic acid, 2-(4-fluorophenyl)-3,6-dihydroxy-5-(1-methylethyl)-3-phenyl-4-(phenylamino) carbonyl, calcium salt (2:1 [R,R']-[R,R'']) trihydrate. The molecular formula of atorvastatin calcium is $(C_{28}H_{37}FNO_6)_2 \cdot Ca^{2+} \cdot 3H_2O$, and its molecular weight is 1209.42. Its structural formula is:



Atorvastatin calcium, USP is a white to off-white powder. Atorvastatin calcium is very slightly soluble in pH 1.2, pH 4.5 and pH 6.8 buffers; freely soluble in methanol; slightly soluble in ethanol; practically insoluble in acetonitrile.

Atorvastatin Calcium Tablets, USP for oral use contain atorvastatin 10 mg, 20 mg, 40 mg, or 80 mg (equivalent to 18.825 mg, 37.65 mg, 75.3 mg, or 150.6 mg atorvastatin calcium trihydrate, USP) and the following inactive ingredients: calcium carbonate, croscarmellose sodium, hydroxypropyl cellulose, lactose monohydrate, magnesium stearate, microcrystalline cellulose, polyethylene glycol 80 and film coating contains hypromellose, polyethylene glycol, talc and titanium dioxide.

USP dissolution test is pending.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Atorvastatin calcium is a selective, competitive inhibitor of HMG CoA reductase, the rate-limiting enzyme that converts 3-hydroxy-3-methylglutaryl-coenzyme A to mevalonate, a precursor of sterols, including cholesterol. In animal models, atorvastatin calcium lowers plasma cholesterol and lipoprotein levels by inhibiting HMG CoA reductase and cholesterol synthesis in the liver and by increasing the number of hepatic LDL receptors on the cell surface to enhance uptake and catabolism of LDL, intermediate-density lipoprotein (IDL), and very-low-density lipoprotein (VLDL) particles.

12.2 Pharmacodynamics

Atorvastatin calcium, as well as some of its metabolites, are pharmacologically active in humans. The liver is the primary site of action and the principal site of cholesterol synthesis and LDL clearance. Drug dosage, rather than systemic drug concentration, correlates better with LDL-C reduction. Individualization of drug dosage should be based on therapeutic response (see Dosage and Administration (2)).

12.3 Pharmacokinetics

Absorption

Atorvastatin calcium is rapidly absorbed after oral administration; maximum plasma concentrations occur within 1 to 2 hours. Extent of absorption increases in proportion to atorvastatin calcium dose. The absolute bioavailability of atorvastatin (parent drug) is approximately 14%, and the systemic availability of HMG CoA reductase inhibitory activity is approximately 30%. The low systemic availability is attributed to presystemic clearance in gastrointestinal mucosa and/or hepatic first-pass metabolism. Although food decreases the rate and extent of drug absorption by approximately 25% and 5%, respectively, as assessed by C_{max} and AUC, LDL-C reduction is similar whether atorvastatin calcium is given with or without food. Plasma atorvastatin calcium concentrations are lower (approximately 30% for C_{max} and AUC) following evening drug administration compared with morning. However, LDL-C reduction is the same regardless of the time of day of drug administration.

Distribution

Mean volume of distribution of atorvastatin calcium is approximately 381 liters. Atorvastatin calcium is $\geq 98\%$ bound to plasma proteins. A blood/plasma ratio of approximately 0.25 indicates poor drug penetration into red blood cells.

Elimination

Metabolism

Atorvastatin calcium is extensively metabolized to ortho- and para-hydroxylated derivatives and various beta-oxidation products. *In vitro* inhibition of HMG CoA reductase by ortho- and para-hydroxylated metabolites is equivalent to that of atorvastatin calcium. Approximately 70% of circulating inhibitory activity for HMG CoA reductase is attributed to active metabolites. *In vitro* studies suggest the importance of atorvastatin calcium metabolism by cytochrome P450 3A4, consistent with increased plasma concentrations of atorvastatin calcium in humans following co-administration with erythromycin, a known inhibitor of this enzyme (see Drug Interactions (7.1)). In animals, the ortho-hydroxy metabolite undergoes further glucuronidation.

Excretion

Atorvastatin calcium and its metabolites are eliminated primarily in bile following hepatic and/or extrahepatic metabolism; however, the drug does not appear to undergo enterohepatic recirculation. Mean plasma elimination half-life of atorvastatin calcium in humans is approximately 14 hours, but the half-life of inhibitory activity for HMG CoA reductase is 20 to 30 hours due to the contribution of active metabolites. Less than 2% of a dose of atorvastatin calcium is recovered in urine following oral administration.

Specific Populations

Geriatric

Plasma concentrations of atorvastatin calcium are higher (approximately 40% for C_{max} and 30% for AUC) in healthy elderly subjects (age ≥ 65 years) than in young adults.

Pediatric

Apparent oral clearance of atorvastatin in pediatric subjects appeared similar to that of adults when scaled allometrically by body weight as the body weight was the only significant covariate in atorvastatin population PK model with data including pediatric patients (ages 10 years to 17 years of age, n=29) in an open-label, 8-week study.

Gender

Plasma concentrations of atorvastatin calcium in women differ from those in men (approximately 20% higher for C_{max} and 10% lower for AUC); however, there is no clinically significant difference in LDL-C reduction with atorvastatin calcium between men and women.

Renal Impairment Renal disease has no influence on the plasma concentrations or LDL-C reduction of atorvastatin calcium (see Use in Specific Populations (8.6)).

While studies have not been conducted in patients with end-stage renal disease, hemodialysis is not expected to significantly enhance clearance of atorvastatin calcium since the drug is extensively bound to plasma proteins.

Hepatic Impairment

In patients with chronic alcoholic liver disease, plasma concentrations of atorvastatin calcium are markedly increased. C_{max} and AUC are each 4-fold greater in patients with Child-Pugh B liver disease. C_{max} and AUC are approximately 16-fold and 11-fold increased, respectively, in patients with Child-Pugh B disease (see Use in Specific Populations (8.7)).

Drug Interactions

Atorvastatin is a substrate of the hepatic transporters, OATP1B1 and OATP1B3 transporter. Metabolites of atorvastatin are substrates of OATP1B1. Atorvastatin is also identified as a substrate of the efflux transporter BCRP, which may limit the intestinal absorption and biliary clearance of atorvastatin.

Table 5: Effect of Co-administered Drugs on the Pharmacokinetics of Atorvastatin

Co-administered drug and dosing regimen	Atorvastatin		
	Dose (mg)	Ratio of AUC*	Ratio of C _{max} *
*Cyclosporine 5.2 mg/kg/day, stable dose	10 mg QD for 28 days	8.69	10.66
*Tirapiravir 500 mg BID/atorvastatin 200 mg BID, 7 days	10 mg SQ	9.36	8.58
*Diclofenac 400 mg QID/pirfenidone 1200 mg QD, 7 days	10 mg QD for 7 days	8.28	22.00
*Telaprevir 750 mg q8h, 10 days	20 mg SQ	7.88	10.60
*Simeprevir 400 mg BID/atorvastatin 400 mg BID, 15 days	40 mg QD for 4 days	3.93	4.31
*Ebasovir 50 mg QD/grazoprevir 200 mg QD, 13 days	10 mg SQ	1.94	4.34
*Simeprevir 150 mg QD, 10 days	40 mg SQ	2.12	1.70
*Chlorzoxiprone 500 mg BID, 9 days	80 mg QD for 8 days	4.54	5.38
*Danavone 300 mg BID/atorvastatin 100 mg BID, 9 days	10 mg QD for 4 days	3.45	2.25
*Trazodone 200 mg QD, 4 days	40 mg SQ	3.32	1.20
*Letrozole 480 mg QD, 10 days	20 mg SQ	3.29	2.17
*Fosamprenavir 700 mg BID/atorvastatin 100 mg BID, 14 days	10 mg QD for 4 days	2.53	2.84
*Fosamprenavir 1400 mg BID, 14 days	10 mg QD for 4 days	2.30	4.04
*Nelfinavir 1250 mg BID, 14 days	10 mg QD for 28 days	1.74	2.22
Grapefruit Juice, 240 mL QD,	40 mg SQ	1.37	1.16
Diltiazem 240 mg QD, 28 days	40 mg SQ	1.51	1.00
Erythromycin 500 mg QID, 7 days	10 mg SQ	1.33	1.38
Amlodipine 10 mg, single dose	80 mg SQ	1.18	0.91
Cimetidine 300 mg QID, 2 weeks	10 mg QD for 2 weeks	1.00	0.89
Colistipol 10 g BID, 24 weeks	40 mg QD for 8 weeks	NA	0.74**
Mallinax TC [®] 30 mL QID, 17 days	10 mg QD for 15 days	0.68	0.67**
Etoricoxib 600 mg QD, 14 days	10 mg for 3 days	0.59	1.01
*Rifampin 600 mg QD, 7 days (co-administered)	40 mg SQ	1.12	2.90
*Rifampin 600 mg QD, 5 days (doses separated)	40 mg SQ	0.20	0.60
*Gemfibrozil 600 mg BID, 7 days	40 mg SQ	1.35	1.00
*Fenofibrate 180 mg QD, 7 days	40 mg SQ	1.03	1.02
*Eicosapentaenoic acid 1000 mg TID, 7 days	40 mg SQ	2.32	2.66

*Represents ratio of treatments (co-administered drug plus atorvastatin vs. atorvastatin alone).

** See Sections 5.1 and 7 for clinical significance.

* Greater increases in AUC (ratio of AUC up to 2.5) and/or C_{max} (ratio of C_{max} up to 1.7) have been reported with excessive grapefruit consumption (≥ 150 mL to 1.2 liters per day).

* Due to the dual interaction mechanism of rifampin, simultaneous administration of atorvastatin with rifampin is recommended, as delayed administration of atorvastatin after administration of rifampin has been associated with a significant reduction in atorvastatin plasma concentrations.

* The dose of saquinavir plus ritonavir in this study is not the clinically used dose. The increase in atorvastatin exposure when given clinically is likely to be higher than what was observed in this study. Therefore, caution should be applied and the lowest dose necessary should be used.

* Once daily

* Twice daily

* Single dose

* Three times daily

* Four times daily

* Every 6 hours

Table 5: Effect of Atorvastatin on the Pharmacokinetics of Co-administered Drugs

Atorvastatin	Co-administered drug and dosing regimen	Ratio of AUC	Ratio of C _{max}
80 mg QD for 15 days	Antipyrine, 600 mg SQ	1.03	0.89
80 mg QD for 10 days	* Digoxin 0.25 mg QD, 20 days	1.15	1.20
40 mg QD for 22 days	* nortriptyline 1 mg ethyl estradiol 35 mcg	1.28	1.23
10 mg SQ	* Tirapiravir 500 mg BID/atorvastatin 200 mg BID, 7 days	1.08	0.86
10 mg QD for 4 days	* Fosamprenavir 1400 mg BID, 14 days	0.73	0.82
10 mg QD for 4 days	* Fosamprenavir 700 mg BID/atorvastatin 100 mg BID, 14 days	0.99	0.94

* See Section 7 for clinical significance.

* Once daily

* Twice daily

* Single dose

Atorvastatin calcium had no clinically significant effect on prothrombin time when administered to patients receiving chronic warfarin treatment.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

In a 2-year carcinogenicity study in rats at dose levels of 10, 30, and 100 mg/kg/day, 2 rare tumors were found in high-dose females; in one, there was a thymic lymphoma and, in another, there was a fibrosarcoma. This dose represents a plasma AUC (D to 24) value of approximately 16 times the mean human plasma drug exposure after an 80 mg oral dose.

A 2-year carcinogenicity study in mice given 100, 200, or 400 mg/kg/day resulted in a significantly increase in liver adenomas in high-dose males and liver carcinomas in high-dose females. These findings occurred at plasma AUC (D to 24) values of approximately 8 times the mean human plasma drug exposure after an 80 mg oral dose.

In vitro, atorvastatin was not mutagenic or clastogenic in the following tests with and without metabolic activation: the Ames test with *Salmonella typhimurium* and *Escherichia coli*; the HGPRT forward mutation assay in Chinese hamster lung cells; and the chromosomal aberration assay in Chinese hamster lung cells. Atorvastatin was negative in the *in vivo* micronucleus test.

In female rats, atorvastatin at doses up to 225 mg/kg (56 times the human exposure) did not cause adverse effects on fertility. Studies in male rats performed at doses up to 175 mg/kg (15 times the human exposure) produced no changes in fertility. There was aplasia and aspermia in the epididymis of 2 of 10 rats treated with 100 mg/kg/day of atorvastatin for 3 months; 16 times the human AUC at the 80 mg dose; testis weights were significantly lower at 30 and 100 mg/kg and epididymal weight was lower at 100 mg/kg. Male rats given 100 mg/kg/day for 11 weeks prior to mating had decreased sperm motility, sperm head concentration, and increased abnormal sperm. Atorvastatin caused no adverse effects on semen parameters, and reproductive organ histopathology in dogs given doses of 10, 40, or 120 mg/kg for 2 years.

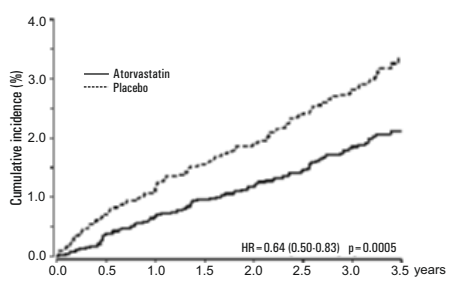
14 CLINICAL STUDIES

Prevention of Cardiovascular Disease

In the Anglo-Scandinavian Cardiac Outcomes Trial (ASCOT), the effect of atorvastatin calcium on fatal and non-fatal coronary heart disease was assessed in 10,200 patients with hypertension, 40 to 80 years of age (mean of 63 years; 19% women; 95% White, 3% Black, 1% South Asian, 1% other), without a previous myocardial infarction and with total cholesterol (TC) levels ≤ 251 mg/dL. Additionally, all patients had at least 3 of the following cardiovascular risk factors: male gender (81%), age > 55 years (85%), smoking (23%), diabetes (24%), history of CHD in a first-degree relative (26%), TC-HDL > 8 (14%), peripheral vascular disease (5%), left ventricular hypertrophy (14%), prior cardiovascular event (10%), specific ECG abnormality (14%), proteinuria/albuminuria (8%). In this double-blind, placebo-controlled trial, patients were treated with anti-hypertensive therapy (goal BP $< 140/90$ mm Hg for patients without diabetes; $< 130/80$ mm Hg for patients with diabetes) and allocated to either atorvastatin calcium 10 mg daily (n=5168) or placebo (n=5137), using a computerized adaptive method which took into account the distribution of nine baseline characteristics of patients already enrolled and minimized the imbalance of those characteristics across the groups. Patients were followed for a median duration of 3.3 years.

The effect of 10 mg/day of atorvastatin calcium on lipid levels was similar to that seen in previous clinical trials. Atorvastatin calcium significantly reduced the rate of coronary events (either fatal coronary heart disease (48 events in the placebo group vs. 40 events in the atorvastatin calcium group) or non-fatal (108 events in the placebo group vs. 90 events in the atorvastatin calcium group) with a relative risk reduction of 36% (based on incidences of 1.9% for atorvastatin calcium vs. 3.0% for placebo, $p < 0.0005$) (see Figure 1). The risk reduction was consistent regardless of age, smoking status, obesity, or presence of renal dysfunction. The effect of atorvastatin calcium was seen regardless of baseline LDL levels.

Figure 1: Effect of Atorvastatin Calcium 10 mg/day on Cumulative Incidence of Non-Fatal Myocardial Infarction or Coronary Heart Disease Death in ASCOT-LIA



Atorvastatin calcium also significantly decreased the relative risk for revascularization procedures by 42% (incidences of 1.4% for atorvastatin calcium and 2.5% for placebo). Although the reduction of fatal and non-fatal strokes did not reach a pre-defined significance level ($p < 0.01$), a favorable trend was observed with a 26% relative risk reduction (incidences of 1.7% for atorvastatin calcium and 2.3% for placebo). There was no significant difference between the treatment groups for death due to cardiovascular disease ($p = 0.51$) or noncardiovascular causes ($p = 0.17$). In the Collaborative Atorvastatin Diabetes Study (CARDS), the effect of atorvastatin calcium on cardiovascular disease (CVD) endpoints was assessed in 2838 subjects (94% White, 2% Black, 2% South Asian, 1% other; 68% male), ages 40 to 75 with type 2 diabetes based on WHO criteria, without prior history of cardiovascular disease and with LDL ≤ 160 mg/dL and triglycerides (TG) ≤ 600 mg/dL. In addition to diabetes, subjects had 1 or more of the following risk factors: current smoking (23%), hypertension (85%), retinopathy (35%), or microalbuminuria (5%) or macroalbuminuria (5%). No subjects on hemodialysis were enrolled in the trial. In this multicenter, placebo-controlled, double-blind clinical trial, subjects were randomly allocated to either atorvastatin calcium 10 mg daily (1428) or placebo (1411) in a 1:1 ratio and were followed for a median duration of 3.9 years. The primary endpoint was the occurrence of any of the major cardiovascular events: myocardial infarction, acute CVD death, unstable angina, coronary revascularization, or stroke. The primary analysis was the time to first occurrence of the primary endpoint.

Baseline characteristics of subjects were: mean age of 62 years, mean HbA1c 7.7%; median LDL-C 120 mg/dL; median TC 207 mg/dL; median TG 151 mg/dL; median HDL-C 52 mg/dL.

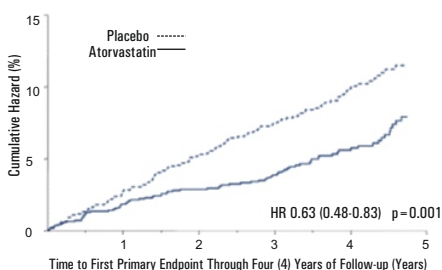
The effect of atorvastatin calcium 10 mg/day on lipid levels was similar to that seen in previous clinical trials.

Atorvastatin calcium significantly reduced the rate of major cardiovascular events (primary endpoint events) (83 events in the atorvastatin calcium group vs. 127 events in the placebo group) with a relative risk reduction of 37%, HR 0.63, 95% CI 0.48, 0.83 ($p < 0.001$) (see Figure 2). An effect of atorvastatin calcium was seen regardless of age, sex, or baseline lipid levels.

Atorvastatin calcium significantly reduced the risk of stroke by 48% (21 events in the atorvastatin calcium group vs. 39 events in the placebo group), HR 0.52, 95% CI 0.31, 0.89 ($p = 0.016$) and reduced the risk of MI by 42% (38 events in the atorvastatin calcium group vs. 64 events in the placebo group), HR 0.58, 95% CI 0.38, 0.86 ($p = 0.007$). There was no significant difference between the treatment groups for angina, revascularization procedures, and acute CHD death.

There were 61 deaths in the atorvastatin calcium group vs. 82 deaths in the placebo group (HR 0.73, $p = 0.059$).

Figure 2: Effect of Atorvastatin Calcium 10 mg/day on Time to Occurrence of Major Cardiovascular Event (myocardial infarction, acute CHD death, unstable angina, coronary revascularization, or stroke) in CARDS



In the Treating to New Targets Study (TNT), the effect of atorvastatin calcium 80 mg/day vs. atorvastatin calcium 10 mg/day on the reduction in cardiovascular events was assessed in 10,001 subjects (94% White, 81% male, 38% ≥ 65 years) with clinically evident coronary heart disease who had achieved a target LDL-C level < 130 mg/dL after completing an 8-week, open-label, run-in period with atorvastatin calcium 10 mg/day. Subjects were randomly assigned to either 10 mg/day or 80 mg/day of atorvastatin calcium and followed for a median duration of 4.9 years. The primary endpoint was the time-to-first occurrence of any of the following major cardiovascular events (MACE): death due to CHD, non-fatal myocardial infarction, revascularized cardiac arrest, and fatal and non-fatal stroke. The mean LDL-C, TC, TG, non-HDL, and HDL cholesterol levels at 12 weeks were 73, 145, 128, 58, and 47 mg/dL, during treatment with 80 mg of atorvastatin calcium and 89, 177, 162, 123, and 48 mg/dL during treatment with 10 mg of atorvastatin calcium.

Treatment with atorvastatin calcium 80 mg/day significantly reduced the rate of MACE (324 events in the 80 mg/day group vs. 548 events in the 10 mg/day group) with a relative risk reduction of 22%, HR 0.78, 95% CI (0.69, 0.89), $p < 0.0002$ (see Figure 3 and Table 7). The overall risk reduction was consistent regardless of age (< 65 , ≥ 65) or sex.

Figure 3: Effect of Atorvastatin Calcium 80 mg/day vs. 10 mg/day on Time to Occurrence of Major Cardiovascular Events (TNT)

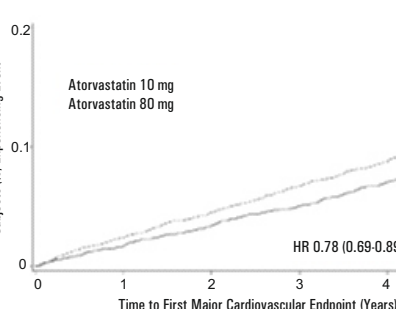


Table 7: Overview of Efficacy Results in TNT

Endpoint	Atorvastatin 10 mg (N=5098)	Atorvastatin 10 mg (N=5098)	HR* (95% CI)
PRIMARY ENDPOINT	n	n (%)	
First major cardiovascular endpoint	548	(10.9)	434 (8.7) 0.78 (0.69, 0.89)
Components of the Primary Endpoint			
CHD death	127	(2.5)	101 (2.0) 0.80 (0.61, 1.03)
Non-fatal, non-procedure related MI	209	(4.2)	243 (4.8) 0.78 (0.66, 0.93)
Revascularized cardiac arrest	26	(0.5)	25 (0.5) 0.96 (0.56, 1.67)
Stroke (fatal and non-fatal)	155	(3.1)	117 (2.3) 0.75 (0.59, 0.96)
SECONDARY ENDPOINTS*			
First CHF with hospitalization	164	(3.3)	122 (2.4) 0.74 (0.59, 0.94)
First PVD endpoint	282	(5.6)	276 (5.5) 0.97 (0.83, 1.15)
First CABG or other coronary revascularization procedure†	904	(18.1)	667 (13.4) 0.72 (0.65, 0.80)
First documented angina endpoint*	615	(12.3)	545 (10.8) 0.88 (0.78, 0.99)
All-cause mortality	282	(5.6)	284 (5.7) 1.01 (0.85, 1.19)
Components of All-Cause Mortality			
Cardiovascular death	155	(3.1)	126 (2.5) 0.81 (0.64, 1.03)
Noncardiovascular death	127	(2.5)	158 (3.2) 1.25 (0.99, 1.57)
Cancer death	75	(1.5)	85 (1.7) 1.13 (0.83, 1.55)
Other non-CV death	43	(0.9)	58 (1.2) 1.35 (0.91, 2.00)
Suicide, homicide, and other traumatic non-CV death	9	(0.2)	15 (0.3) 1.67 (0.73, 3.82)

*Atorvastatin 80 mg/atorvastatin 10 mg

†Component of other secondary endpoints

* Secondary endpoints not included in primary endpoint

HR=hazard ratio; CHD=coronary heart disease; CI=confidence interval; MI=myocardial infarction; CHF=congestive heart failure; CV=cardiovascular; PVD=peripheral vascular disease; CABG=coronary artery bypass graft. Confidence intervals for the Secondary Endpoints were not adjusted for multiple comparisons.

Of the events that comprised the primary efficacy endpoint, treatment with atorvastatin calcium 80 mg/day significantly reduced the rate of non-fatal, non-procedure related MI and fatal and non-fatal stroke, but not CHD death or revascularized cardiac arrest (Table 7). Of the predefined secondary endpoints, atorvastatin calcium 80 mg/day significantly reduced the rate of coronary revascularization, angina, and hospitalization for heart failure, but not peripheral vascular disease. The reduction in the rate of CHF with hospitalization was only observed in the 5% of patients with a prior history of CHF.

There was no significant difference between the treatment groups for all-cause mortality (Table 7). The proportions of subjects who experienced cardiovascular death, including the components of CHD death and fatal stroke, were numerically smaller in the atorvastatin calcium 80 mg group than in the atorvastatin calcium 10 mg treatment group. The proportions of subjects who experienced noncardiovascular death were numerically larger in the atorvastatin calcium 80 mg group than in the atorvastatin calcium 10 mg treatment group.

Plasma Lipid/Protein Levels in Adults
Atorvastatin calcium reduces total C, LDL-C, apo B, and TG, and increases HDL-C in patients with hyperlipidemia (heterozygous familial and nonfamilial) and mixed dyslipidemia. Therapeutic response is seen within 2 weeks, and maximum response is usually achieved within 4 weeks and maintained during chronic therapy.

In two multicenter, placebo-controlled, dose-response trials in patients with hyperlipidemia, atorvastatin calcium given as a single dose over 6 weeks, significantly reduced total C, LDL-C, apo B, and TG. (Pooled results are provided in Table 8.)