

ATORVASTATIN CALCIUM- atorvastatin calcium tablet, film coated

Asclemed USA, Inc.

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

ATORVASTATIN CALCIUM tablets, for oral use

Initial U.S. Approval: 1996

INDICATIONS AND USAGE

Atorvastatin calcium is an HMG-CoA reductase inhibitor (statin) indicated (1):

- To reduce the risk of:
 - Myocardial infarction (MI), stroke, revascularization procedures, and angina in adults with multiple risk factors for coronary heart disease (CHD) but without clinically evident CHD.
 - MI and stroke in adults with type 2 diabetes mellitus with multiple risk factors for CHD but without clinically evident CHD.
 - Non-fatal MI, fatal and non-fatal stroke, revascularization procedures, hospitalization for congestive heart failure, and angina in adults with clinically evident CHD.
- As an adjunct to diet to reduce low-density lipoprotein (LDL-C) in:
 - Adults with primary hyperlipidemia.
 - Adults and pediatric patients aged 10 years and older with heterozygous familial hypercholesterolemia (HeFH).
- As an adjunct to other LDL-C-lowering therapies to reduce LDL-C in adults and pediatric patients aged 10 years and older with homozygous familial hypercholesterolemia.
- As an adjunct to diet for the treatment of adults with:
 - Primary dysbetalipoproteinemia.
 - Hypertriglyceridemia.

DOSAGE AND ADMINISTRATION

- Take orally once daily with or without food (2.1).
- Assess LDL-C when clinically appropriate, as early as 4 weeks after initiating atorvastatin calcium, and adjust dosage if necessary (2.1).
- *Adults (2.2):*
 - Recommended starting dosage is 10 or 20 mg once daily; dosage range is 10 mg to 80 mg once daily.
 - Patients requiring LDL-C reduction >45% may start at 40 mg once daily.
- *Pediatric Patients Aged 10 Years of Age and Older with HeFH:* Recommended starting dosage is 10 mg once daily; dosage range is 10 to 20 mg once daily (2.3).
- *Pediatric Patients Aged 10 Years of Age and Older with HoFH:* Recommended starting dosage is 10 to 20 mg once daily; dosage range is 10 to 80 mg once daily (2.4).
- See full prescribing information for atorvastatin calcium dosage modifications due to drug interactions (2.5).

DOSAGE FORMS AND STRENGTHS

Tablets: 10 mg; 20 mg; 40 mg; 80 mg of atorvastatin (3).

CONTRAINDICATIONS

- Acute liver failure or decompensated cirrhosis (4).
- Hypersensitivity to atorvastatin or any excipient in atorvastatin calcium (4).

WARNINGS AND PRECAUTIONS

- *Myopathy and Rhabdomyolysis:* Risk factors include age 65 years or greater, uncontrolled hypothyroidism, renal impairment, concomitant use with certain other drugs, and higher atorvastatin calcium dosage. Discontinue atorvastatin calcium if markedly elevated CK levels occur or myopathy is diagnosed or suspected. Temporarily discontinue atorvastatin calcium in patients experiencing an acute or serious condition at high risk of developing renal failure secondary to rhabdomyolysis. Inform patients of the risk of myopathy and rhabdomyolysis when starting or increasing atorvastatin calcium dosage. Instruct patients to promptly report unexplained muscle pain, tenderness, or weakness, particularly if accompanied by malaise or fever (2.5, 5.1, 7.1, 8.5, 8.6).
- *Immune-Mediated Necrotizing Myopathy (IMNM):* Rare reports of IMNM, an autoimmune myopathy,

have been reported with statin use. Discontinue atorvastatin calcium if IMNM is suspected (5.2).

- *Hepatic Dysfunction*:Increases in serum transaminases have occurred, some persistent. Rare reports of fatal and non-fatal hepatic failure have occurred. Consider testing liver enzymes before initiating therapy and as clinically indicated thereafter. If serious hepatic injury with clinical symptoms and/or hyperbilirubinemia or jaundice occurs, promptly discontinue atorvastatin calcium (5.3).

ADVERSE REACTIONS

Most common adverse reactions (incidence \geq 5%) are nasopharyngitis, arthralgia, diarrhea, pain in extremity, and urinary tract infection (6.1).

To report SUSPECTED ADVERSE REACTIONS, contact Ascend Laboratories, LLC at 1-877-272-7901 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- See full prescribing information for details regarding concomitant use of atorvastatin calcium with other drugs or grapefruit juice that increase the risk of myopathy and rhabdomyolysis (2.5, 7.1).
- *Rifampin*:May reduce atorvastatin plasma concentrations. Administer simultaneously with atorvastatin calcium (7.2).
- *Oral Contraceptives*:May increase plasma levels of norethindrone and ethinyl estradiol; consider this effect when selecting an oral contraceptive (7.3).
- *Digoxin*:May increase digoxin plasma levels; monitor patients appropriately (7.3).

USE IN SPECIFIC POPULATIONS

- *Pregnancy*: May cause fetal harm. (8.1).
- *Lactation*: Breastfeeding not recommended during treatment with atorvastatin calcium (8.2).

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 5/2025

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Atorvastatin calcium is indicated:

- To reduce the risk of:
 - Myocardial infarction (MI), stroke, revascularization procedures, and angina in adults with multiple risk factors for coronary heart disease (CHD) but without clinically evident CHD
 - MI and stroke in adults with type 2 diabetes mellitus with multiple risk factors for CHD but without clinically evident CHD
 - Non-fatal MI, fatal and non-fatal stroke, revascularization procedures, hospitalization for congestive heart failure, and angina in adults with clinically evident CHD
- As an adjunct to diet to reduce low-density lipoprotein cholesterol (LDL-C) in:
 - Adults with primary hyperlipidemia.
 - Adults and pediatric patients aged 10 years and older with heterozygous familial hypercholesterolemia (HeFH).
- As an adjunct to other LDL-C-lowering therapies, or alone if such treatments are unavailable, to reduce LDL-C in adults and pediatric patients aged 10 years and older with homozygous familial hypercholesterolemia (HoFH).
- As an adjunct to diet for the treatment of adults with:
 - Primary dysbetalipoproteinemia
 - Hypertriglyceridemia

2 DOSAGE AND ADMINISTRATION

2.1 Important Dosage Information

- Take atorvastatin calcium tablets orally once daily at any time of the day, with or without food.
- Assess LDL-C when clinically appropriate, as early as 4 weeks after initiating

atorvastatin calcium tablets, and adjust the dosage if necessary.

- If a dose is missed, advise patients not to take the missed dose and resume with the next scheduled dose.

2.2 Recommended Dosage in Adult Patients

The recommended starting dosage of atorvastatin calcium tablets is 10 mg to 20 mg once daily. The dosage range is 10 mg to 80 mg once daily. Patients who require reduction in LDL-C greater than 45% may be started at 40 mg once daily.

2.3 Recommended Dosage in Pediatric Patients 10 Years of Age and Older with HeFH

The recommended starting dosage of atorvastatin calcium tablets is 10 mg once daily. The dosage range is 10 mg to 20 mg once daily.

2.4 Recommended Dosage in Pediatric Patients 10 Years of Age and Older with HoFH

The recommended starting dosage of atorvastatin calcium tablets is 10 mg to 20 mg once daily. The dosage range is 10 mg to 80 mg once daily.

2.5 Dosage Modifications Due to Drug Interactions

Concomitant use of atorvastatin calcium tablets with the following drugs requires dosage modification of atorvastatin calcium tablets [see *Warnings and Precautions* (5.1) and *Drug Interactions* (7.1)].

Anti-Viral Medications

- In patients taking saquinavir plus ritonavir, darunavir plus ritonavir, fosamprenavir, fosamprenavir plus ritonavir, elbasvir plus grazoprevir or letermovir, do not exceed atorvastatin calcium tablets 20 mg once daily.
- In patients taking nelfinavir, do not exceed atorvastatin calcium tablets 40 mg once daily.

Select Azole Antifungals or Macrolide Antibiotics

- In patients taking clarithromycin or itraconazole, do not exceed atorvastatin calcium tablets 20 mg once daily.

For additional recommendations regarding concomitant use of atorvastatin calcium tablets with other anti-viral medications, azole antifungals or macrolide antibiotics, see *Drug Interactions* (7.1).

3 DOSAGE FORMS AND STRENGTHS

Atorvastatin Calcium Tablets, USP:

- 10 mg of atorvastatin: white elliptical, film-coated tablets with "10" on one side and "ATS" on other side
- 20 mg of atorvastatin: white elliptical, film-coated tablets with "20" on one side and "ATS" on other side
- 40 mg of atorvastatin: white elliptical, film-coated tablets with "40" on one side and "ATS" on other side
- 80 mg of atorvastatin: white elliptical, film-coated tablets with "80" on one side and "ATS" on other side

4 CONTRAINDICATIONS

- Acute liver failure or decompensated cirrhosis [*see Warnings and Precautions (5.3)*]
- Hypersensitivity to atorvastatin or any excipients in atorvastatin calcium.
Hypersensitivity reactions, including anaphylaxis, angioneurotic edema, erythema multiforme, Stevens-Johnson syndrome, and toxic epidermal necrolysis, have been reported [*see Adverse Reactions (6.2)*].

5 WARNINGS AND PRECAUTIONS

5.1 Myopathy and Rhabdomyolysis

Atorvastatin calcium may cause myopathy (muscle pain, tenderness, or weakness associated with elevated creatine kinase [CK]) and rhabdomyolysis. Acute kidney injury secondary to myoglobinuria and rare fatalities have occurred as a result of rhabdomyolysis in patients treated with statins, including atorvastatin calcium.

Risk Factors for Myopathy

Risk factors for myopathy include age 65 years or greater, uncontrolled hypothyroidism, renal impairment, concomitant use with certain other drugs (including other lipid-lowering therapies), and higher atorvastatin calcium dosage [*see Drug Interactions (7.1) and Use in Specific Populations (8.5, 8.6)*].

Steps to Prevent or Reduce the Risk of Myopathy and Rhabdomyolysis

Atorvastatin calcium exposure may be increased by drug interactions due to inhibition of cytochrome P450 enzyme 3A4 (CYP3A4) and/or transporters (e.g., breast cancer resistant protein [BCRP], organic anion-transporting polypeptide [OATP1B1/OATP1B3] and P-glycoprotein [P-gp]), resulting in an increased risk of myopathy and rhabdomyolysis. Concomitant use of cyclosporine, gemfibrozil, tipranavir plus ritonavir, or glecaprevir plus pibrentasvir with atorvastatin calcium is not recommended. Atorvastatin calcium dosage modifications are recommended for patients taking certain anti-viral, azole antifungals, or macrolide antibiotic medications [*see Dosage and Administration (2.5)*]. Cases of myopathy/rhabdomyolysis have been reported with atorvastatin co-administered with lipid modifying doses (>1 gram/day) of niacin, fibrates, colchicine, and ledipasvir plus sofosbuvir [*see Adverse Reactions (6.1)*]. Consider if the benefit of use of these products outweighs the increased risk of myopathy and rhabdomyolysis [*see Drug Interactions (7.1)*].

Concomitant intake of large quantities, more than 1.2 liters daily, of grapefruit juice is not recommended in patients taking atorvastatin calcium [*see Drug Interactions (7.1)*].

Discontinue atorvastatin calcium if markedly elevated CK levels occur or if myopathy is either diagnosed or suspected. Muscle symptoms and CK elevations may resolve if atorvastatin calcium is discontinued. Temporarily discontinue atorvastatin calcium in patients experiencing an acute or serious condition at high risk of developing renal failure secondary to rhabdomyolysis (e.g., sepsis; shock; severe hypovolemia; major surgery; trauma; severe metabolic, endocrine, or electrolyte disorders; or uncontrolled epilepsy).

Inform patients of the risk of myopathy and rhabdomyolysis when starting or increasing the atorvastatin calcium dosage. Instruct patients to promptly report any unexplained muscle pain, tenderness or weakness, particularly if accompanied by malaise or fever.

5.2 Immune-Mediated Necrotizing Myopathy

There have been rare reports of immune-mediated necrotizing myopathy (IMNM), an autoimmune myopathy, associated with statin use, including reports of recurrence when the same or a different statin was administered. IMNM is characterized by proximal muscle weakness and elevated serum creatine kinase that persists despite discontinuation of statin treatment; positive anti-HMG CoA reductase antibody; muscle biopsy showing necrotizing myopathy; and improvement with immunosuppressive agents. Additional neuromuscular and serologic testing may be necessary. Treatment with immunosuppressive agents may be required. Discontinue atorvastatin calcium if IMNM is suspected.

5.3 Hepatic Dysfunction

Increases in serum transaminases have been reported with use of atorvastatin calcium [see *Adverse Reactions* (6.1)] . In most cases, these changes appeared soon after initiation, were transient, were not accompanied by symptoms, and resolved or improved on continued therapy or after a brief interruption in therapy. Persistent increases to more than three times the ULN in serum transaminases have occurred in approximately 0.7% of patients receiving atorvastatin calcium in clinical trials. There have been rare postmarketing reports of fatal and non-fatal hepatic failure in patients taking statins, including atorvastatin calcium.

Patients who consume substantial quantities of alcohol and/or have a history of liver disease may be at increased risk for hepatic injury [see *Use in Specific Populations* (8.7)].

Consider liver enzyme testing before atorvastatin calcium initiation and when clinically indicated thereafter. Atorvastatin calcium is contraindicated in patients with acute liver failure or decompensated cirrhosis [see *Contraindications* (4)]. If serious hepatic injury with clinical symptoms and/or hyperbilirubinemia or jaundice occurs, promptly discontinue atorvastatin calcium.

5.4 Increases in HbA1c and Fasting Serum Glucose Levels

Increases in HbA1c and fasting serum glucose levels have been reported with statins, including atorvastatin calcium. Optimize lifestyle measures, including regular exercise, maintaining a healthy body weight, and making healthy food choices.

5.5 Increased Risk of Hemorrhagic Stroke in Patients on atorvastatin calcium 80 mg with Recent Hemorrhagic Stroke

In a post-hoc analysis of the Stroke Prevention by Aggressive Reduction in Cholesterol Levels (SPARCL) trial where 2,365 adult patients, without CHD who had a stroke or TIA within the preceding 6 months, were treated with atorvastatin calcium tablets 80 mg, a higher incidence of hemorrhagic stroke was seen in the atorvastatin calcium tablets 80 mg group compared to placebo (55, 2.3% atorvastatin calcium tablets vs. 33, 1.4% placebo; HR: 1.68, 95% CI: 1.09, 2.59; p=0.0168). The incidence of fatal hemorrhagic stroke was similar across treatment groups (17 vs. 18 for the atorvastatin and placebo groups, respectively). The incidence of non-fatal hemorrhagic stroke was significantly higher in the atorvastatin calcium group (38, 1.6%) as compared to the placebo group (16, 0.7%). Some baseline characteristics, including hemorrhagic and lacunar stroke on study entry, were associated with a higher incidence of hemorrhagic stroke in the atorvastatin calcium group [see *Adverse Reactions* (6.1)] . Consider the risk/benefit of use of atorvastatin calcium tablets 80 mg in patients with recent hemorrhagic stroke.

6 ADVERSE REACTIONS

The following important adverse reactions are described below and elsewhere in the labeling:

- Myopathy and Rhabdomyolysis [see *Warnings and Precautions* (5.1)]
- Immune-Mediated Necrotizing Myopathy [see *Warnings and Precautions* (5.2)]
- Hepatic Dysfunction [see *Warnings and Precautions* (5.3)]
- Increases in HbA1c and Fasting Serum Glucose Levels [see *Warnings and Precautions* (5.4)]

6.1 Clinical Trials Experience

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

In the atorvastatin calcium placebo-controlled clinical trial database of 16,066 patients (8,755 atorvastatin calcium vs. 7,311 placebo; age range 10 to 93 years, 39% female, 91% White, 3% Black or African American, 2% Asian, 4% other) with a median treatment duration of 53 weeks, the most common adverse reactions in patients treated with atorvastatin calcium that led to treatment discontinuation and occurred at a rate greater than placebo were: myalgia (0.7%), diarrhea (0.5%), nausea (0.4%), alanine aminotransferase increase (0.4%), and hepatic enzyme increase (0.4%).

Table 1 summarizes adverse reactions reported in $\geq 2\%$ and at a rate greater than placebo in patients treated with atorvastatin calcium (n=8,755), from seventeen placebo-controlled trials.

Table 1: Adverse Reactions Occurring in $\geq 2\%$ in Patients Atorvastatin calcium -Treated with any Dose and Greater than Placebo

Adverse Reaction	% Placebo N=7,311	% 10 mg N=3,908	% 20 mg N=188	% 40 mg N=604	% 80 mg N=4,055	% Any dose N=8,755
Nasopharyngitis	8.2	12.9	5.3	7.0	4.2	8.3
Arthralgia	6.5	8.9	11.7	10.6	4.3	6.9
Diarrhea	6.3	7.3	6.4	14.1	5.2	6.8
Pain in extremity	5.9	8.5	3.7	9.3	3.1	6.0
Urinary tract infection	5.6	6.9	6.4	8.0	4.1	5.7
Dyspepsia	4.3	5.9	3.2	6.0	3.3	4.7
Nausea	3.5	3.7	3.7	7.1	3.8	4.0
Musculoskeletal pain	3.6	5.2	3.2	5.1	2.3	3.8
Muscle spasms	3.0	4.6	4.8	5.1	2.4	3.6
Myalgia	3.1	3.6	5.9	8.4	2.7	3.5
Insomnia	2.9	2.8	1.1	5.3	2.8	3.0
Pharyngolaryngeal pain	2.1	3.9	1.6	2.8	0.7	2.3

Other adverse reactions reported in placebo-controlled trials include:

Body as a Whole: malaise, pyrexia

Digestive System: abdominal discomfort, eructation, flatulence, hepatitis, cholestasis

Musculoskeletal System: musculoskeletal pain, muscle fatigue, neck pain, joint swelling

Metabolic and Nutritional System: transaminases increase, liver function test abnormal, blood alkaline phosphatase increase, creatine phosphokinase increase, hyperglycemia

Nervous System: nightmare

Respiratory System: epistaxis

Skin and Appendages: urticaria

Special Senses: vision blurred, tinnitus

Urogenital System: white blood cells urine positive

Elevations in Liver Enzyme Tests

Persistent elevations in serum transaminases, defined as more than 3 times the ULN and occurring on 2 or more occasions, occurred in 0.7% of patients who received atorvastatin calcium in clinical trials. The incidence of these abnormalities was 0.2%, 0.2%, 0.6%, and 2.3% for 10, 20, 40, and 80 mg, respectively.

One patient in clinical trials developed jaundice. Increases in liver enzyme tests in other patients were not associated with jaundice or other clinical signs or symptoms. Upon dose reduction, drug interruption, or discontinuation, transaminase levels returned to or near pretreatment levels without sequelae. Eighteen of 30 patients with persistent liver enzyme elevations continued treatment with a reduced dose of atorvastatin calcium.

Treating to New Targets Study (TNT)

In TNT, [see *Clinical Studies (14.1)*] 10,001 patients (age range 29 to 78 years, 19% female; 94% White, 3% Black or African American, 1% Asian, 2% other) with clinically evident CHD were treated with atorvastatin calcium tablet 10 mg daily (n=5,006) or atorvastatin calcium tablet 80 mg daily (n=4,995). In the high-dose atorvastatin group, there were more patients with serious adverse reactions (1.8%) and discontinuations due to adverse reactions (9.9%) as compared to the low-dose group (1.4%; 8.1%, respectively) during a median follow-up of 4.9 years. Persistent transaminase elevations ($\geq 3 \times$ ULN twice within 4 to 10 days) occurred in 1.3% of individuals with atorvastatin calcium tablet 80 mg and in 0.2% of individuals with atorvastatin calcium tablet 10 mg. Elevations of CK ($\geq 10 \times$ ULN) were higher in the high-dose atorvastatin group (0.3%) compared to the low-dose atorvastatin group (0.1%).

Stroke Prevention by Aggressive Reduction in Cholesterol Levels (SPARCL)

In SPARCL, 4,731 patients (age range 21 to 92 years, 40% female; 93% White, 3% Black or African American, 1% Asian, 3% other) without clinically evident CHD but with a stroke or transient ischemic attack (TIA) within the previous 6 months were treated with atorvastatin calcium 80 mg (n=2,365) or placebo (n=2,366) for a median follow-up of 4.9 years. There was a higher incidence of persistent hepatic transaminase elevations ($\geq 3 \times$ ULN twice within 4 to 10 days) in the atorvastatin group (0.9%) compared to placebo (0.1%). Elevations of CK ($>10 \times$ ULN) were rare, but were higher in the atorvastatin group (0.1%) compared to placebo (0.0%). Diabetes was reported as an adverse reaction in 6.1% of subjects in the atorvastatin group and 3.8% of subjects in the placebo group.

In a post-hoc analysis, atorvastatin calcium 80 mg reduced the incidence of ischemic

stroke (9.2% vs. 11.6%) and increased the incidence of hemorrhagic stroke (2.3% vs. 1.4%) compared to placebo. The incidence of fatal hemorrhagic stroke was similar between groups (17 atorvastatin calcium vs. 18 placebo). The incidence of non-fatal hemorrhagic strokes was significantly greater in the atorvastatin group (38 non-fatal hemorrhagic strokes) as compared to the placebo group (16 non-fatal hemorrhagic strokes). Patients who entered the trial with a hemorrhagic stroke appeared to be at increased risk for hemorrhagic stroke (16% atorvastatin calcium vs. 4% placebo).

Adverse Reactions from Clinical Studies of Atorvastatin calcium in Pediatric Patients with HeFH

In a 26-week controlled study in pediatric patients with HeFH (ages 10 years to 17 years) (n=140, 31% female; 92% White, 1.6% Black or African American, 1.6% Asian, 4.8% other), the safety and tolerability profile of atorvastatin calcium 10 to 20 mg daily, as an adjunct to diet to reduce total cholesterol, LDL-C, and apo B levels, was generally similar to that of placebo [see *Use in Specific Populations (8.4) and Clinical Studies (14.6)*].

6.2 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of atorvastatin calcium. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

*Gastrointestinal Disorders:*pancreatitis

*General Disorders:*fatigue

*Hepatobiliary Disorders:*fatal and non-fatal hepatic failure

*Immune System Disorders:*anaphylaxis

*Injury:*tendon rupture

Musculoskeletal and Connective Tissue Disorders: rhabdomyolysis, myositis.

There have been rare reports of immune-mediated necrotizing myopathy associated with statin use.

*Nervous System Disorders:*dizziness, peripheral neuropathy.

There have been rare reports of cognitive impairment (e.g., memory loss, forgetfulness, amnesia, memory impairment, confusion) associated with the use of all statins. Cognitive impairment was generally nonserious, and reversible upon statin discontinuation, with variable times to symptom onset (1 day to years) and symptom resolution (median of 3 weeks). There have been rare reports of new-onset or exacerbation of myasthenia gravis, including ocular myasthenia, and reports of recurrence when the same or a different statin was administered.

*Psychiatric Disorders:*depression

*Respiratory Disorders:*interstitial lung disease

*Skin and Subcutaneous Tissue Disorders:*angioneurotic edema, bullous rashes (including erythema multiforme, Stevens-Johnson syndrome, and toxic epidermal necrolysis)

7 DRUG INTERACTIONS

7.1 Drug Interactions that may Increase the Risk of Myopathy and Rhabdomyolysis with atorvastatin calcium

Atorvastatin calcium is a substrate of CYP3A4 and transporters (e.g., OATP1B1/1B3, P-gp, or BCRP). Atorvastatin calcium plasma levels can be significantly increased with concomitant administration of inhibitors of CYP3A4 and transporters. Table 2 includes a list of drugs that may increase exposure to atorvastatin calcium and may increase the risk of myopathy and rhabdomyolysis when used concomitantly and instructions for preventing or managing them [see *Warnings and Precautions (5.1) and Clinical Pharmacology (12.3)*].

Table 2: Drug Interactions that may Increase the Risk of Myopathy and Rhabdomyolysis with atorvastatin calcium

Cyclosporine or Gemfibrozil	
<i>Clinical Impact:</i>	Atorvastatin plasma levels were significantly increased with concomitant administration of atorvastatin calcium and cyclosporine, an inhibitor of CYP3A4 and OATP1B1 [see <i>Clinical Pharmacology (12.3)</i>]. Gemfibrozil may cause myopathy when given alone. The risk of myopathy and rhabdomyolysis is increased with concomitant use of cyclosporine or gemfibrozil with atorvastatin calcium.
<i>Intervention:</i>	Concomitant use of cyclosporine or gemfibrozil with atorvastatin calcium is not recommended.
Anti-Viral Medications	
<i>Clinical Impact:</i>	Atorvastatin plasma levels were significantly increased with concomitant administration of atorvastatin calcium with many anti-viral medications, which are inhibitors of CYP3A4 and/or transporters (e.g., BCRP, OATP1B1/1B3, P-gp, MRP2, and/or OAT2) [see <i>Clinical Pharmacology (12.3)</i>]. Cases of myopathy and rhabdomyolysis have been reported with concomitant use of ledipasvir plus sofosbuvir with atorvastatin calcium.
<i>Intervention:</i>	<ul style="list-style-type: none"> • Concomitant use of tipranavir plus ritonavir or glecaprevir plus pibrentasvir with atorvastatin calcium is not recommended. • In patients taking lopinavir plus ritonavir, or simeprevir, consider the risk/benefit of concomitant use with atorvastatin. • In patients taking saquinavir plus ritonavir, darunavir plus ritonavir, fosamprenavir, fosamprenavir plus ritonavir, elbasvir plus grazoprevir or letermovir, do not exceed atorvastatin calcium 20 mg. • In patients taking nelfinavir, do not exceed atorvastatin calcium 40 mg [see <i>Dosage and Administration (2.5)</i>]. • Consider the risk/benefit of concomitant use of ledipasvir plus sofosbuvir with atorvastatin calcium. • Monitor all patients for signs and symptoms of myopathy particularly during initiation of therapy and during upward dose titration of either drug.
<i>Examples:</i>	Tipranavir plus ritonavir, glecaprevir plus pibrentasvir, lopinavir plus ritonavir, simeprevir, saquinavir plus ritonavir, darunavir plus ritonavir, fosamprenavir, fosamprenavir plus ritonavir, elbasvir plus grazoprevir, letermovir, nelfinavir, and ledipasvir plus sofosbuvir.
Select Azole Antifungals or Macrolide Antibiotics	
<i>Clinical Impact:</i>	Atorvastatin plasma levels were significantly increased with concomitant administration of atorvastatin calcium with select azole antifungals or macrolide antibiotics, due to inhibition of CYP3A4 and/or transporters [see <i>Clinical Pharmacology (12.3)</i>].
	In patients taking clarithromycin or itraconazole, do not exceed atorvastatin calcium 20 mg [see <i>Dosage and Administration (2.5)</i>].

<i>Intervention:</i>	Consider the risk/benefit of concomitant use of other azole antifungals or macrolide antibiotics with atorvastatin calcium. Monitor all patients for signs and symptoms of myopathy particularly during initiation of therapy and during upward dose titration of either drug.
<i>Examples:</i>	Erythromycin, clarithromycin, itraconazole, ketoconazole, posaconazole, and voriconazole.
Niacin	
<i>Clinical Impact:</i>	Cases of myopathy and rhabdomyolysis have been observed with concomitant use of lipid modifying dosages of niacin (≥ 1 gram/day niacin) with atorvastatin calcium.
<i>Intervention:</i>	Consider if the benefit of using lipid modifying dosages of niacin concomitantly with atorvastatin calcium outweighs the increased risk of myopathy and rhabdomyolysis. If concomitant use is decided, monitor patients for signs and symptoms of myopathy particularly during initiation of therapy and during upward dose titration of either drug.
Fibrates (other than Gemfibrozil)	
<i>Clinical Impact:</i>	Fibrates may cause myopathy when given alone. The risk of myopathy and rhabdomyolysis is increased with concomitant use of fibrates with atorvastatin calcium.
<i>Intervention:</i>	Consider if the benefit of using fibrates concomitantly with atorvastatin calcium outweighs the increased risk of myopathy and rhabdomyolysis. If concomitant use is decided, monitor patients for signs and symptoms of myopathy particularly during initiation of therapy and during upward dose titration of either drug.
Colchicine	
<i>Clinical Impact:</i>	Cases of myopathy and rhabdomyolysis have been reported with concomitant use of colchicine with atorvastatin calcium.
<i>Intervention:</i>	Consider the risk/benefit of concomitant use of colchicine with atorvastatin calcium. If concomitant use is decided, monitor patients for signs and symptoms of myopathy particularly during initiation of therapy and during upward dose titration of either drug.
Grapefruit Juice	
<i>Clinical Impact:</i>	Grapefruit juice consumption, especially excessive consumption, more than 1.2 liters/daily, can raise the plasma levels of atorvastatin and may increase the risk of myopathy and rhabdomyolysis.
<i>Intervention:</i>	Avoid intake of large quantities of grapefruit juice, more than 1.2 liters daily, when taking atorvastatin calcium.

7.2 Drug Interactions that may Decrease Exposure to atorvastatin calcium

Table 3 presents drug interactions that may decrease exposure to atorvastatin calcium and instructions for preventing or managing them.

Table 3: Drug Interactions that may Decrease Exposure to atorvastatin calcium

Rifampin	
<i>Clinical Impact:</i>	Concomitant administration of atorvastatin calcium with rifampin, an inducer of cytochrome P450 3A4 and inhibitor of OATP1B1, can lead to variable reductions in plasma concentrations of atorvastatin. Due to the dual interaction mechanism of rifampin, delayed administration of atorvastatin calcium after administration of rifampin has been

	associated with a significant reduction in atorvastatin plasma concentrations.
<i>Intervention:</i>	Administer atorvastatin calcium and rifampin simultaneously.

7.3 Atorvastatin calcium Effects on Other Drugs

Table 4 presents atorvastatin's calcium effect on other drugs and instructions for preventing or managing them.

Table 4:Atorvastatin calcium Effects on Other Drugs

Oral Contraceptives	
<i>Clinical Impact:</i>	Co-administration of atorvastatin calcium and an oral contraceptive increased plasma concentrations of norethindrone and ethinyl estradiol [see <i>Clinical Pharmacology</i> (12.3)].
<i>Intervention:</i>	Consider this when selecting an oral contraceptive for patients taking atorvastatin calcium.
Digoxin	
<i>Clinical Impact:</i>	When multiple doses of atorvastatin calcium and digoxin were co-administered, steady state plasma digoxin concentrations increased [see <i>Clinical Pharmacology</i> (12.3)].
<i>Intervention:</i>	Monitor patients taking digoxin appropriately.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Discontinue atorvastatin calcium when pregnancy is recognized. Alternatively, consider the ongoing therapeutic needs of the individual patient. Atorvastatin calcium decreases synthesis of cholesterol and possibly other biologically active substances derived from cholesterol; therefore, atorvastatin calcium may cause fetal harm when administered to pregnant patients based on the mechanism of action [see *Clinical Pharmacology* (12.1)]. In addition, treatment of hyperlipidemia is not generally necessary during pregnancy. Atherosclerosis is a chronic process and the discontinuation of lipid-lowering drugs during pregnancy should have little impact on the outcome of long-term therapy of primary hyperlipidemia for most patients.

Available data from case series and prospective and retrospective observational cohort studies over decades of use with statins in pregnant women have not identified a drug-associated risk of major congenital malformations. Published data from prospective and retrospective observational cohort studies with atorvastatin calcium use in pregnant women are insufficient to determine if there is a drug-associated risk of miscarriage (see *Data*). In animal reproduction studies, no adverse developmental effects were observed in pregnant rats or rabbits orally administered atorvastatin at doses that resulted in up to 30 and 20 times, respectively, the human exposure at the maximum recommended human dose (MRHD) of 80 mg, based on body surface area (mg/m^2). In rats administered atorvastatin during gestation and lactation, decreased postnatal growth and development delay were observed at doses ≥ 6 times the MRHD (see *Data*).

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2 to 4% and

15 to 20%, respectively.

Data

Human Data

A Medicaid cohort linkage study of 1,152 statin-exposed pregnant women compared to 886,996 controls did not find a significant teratogenic effect from maternal use of statins in the first trimester of pregnancy, after adjusting for potential confounders – including maternal age, diabetes mellitus, hypertension, obesity, and alcohol and tobacco use – using propensity score-based methods. The relative risk of congenital malformations between the group with statin use and the group with no statin use in the first trimester was 1.07 (95% confidence interval 0.85 to 1.37) after controlling for confounders, particularly pre-existing diabetes mellitus. There were also no statistically significant increases in any of the organ-specific malformations assessed after accounting for confounders. In the majority of pregnancies, statin treatment was initiated prior to pregnancy and was discontinued at some point in the first trimester when pregnancy was identified. Study limitations include reliance on physician coding to define the presence of a malformation, lack of control for certain confounders such as body mass index, use of prescription dispensing as verification for the use of a statin, and lack of information on non-live births.

Animal Data

Atorvastatin was administered to pregnant rats and rabbits during organogenesis at oral doses up to 300 mg/kg/day and 100mg/kg/day, respectively. Atorvastatin was not teratogenic in rats at doses up to 300 mg/kg/day or in rabbits at doses up to 100 mg/kg/day. These doses resulted in multiples of about 30 times (rat) or 20 times (rabbit) the human exposure at the MRHD based on surface area (mg/m^2). In rats, the maternally toxic dose of 300 mg/kg resulted in increased post-implantation loss and decreased fetal body weight. At the maternally toxic doses of 50 and 100 mg/kg/day in rabbits, there was increased post-implantation loss, and at 100 mg/kg/day fetal body weights were decreased.

In a study in pregnant rats administered 20, 100, or 225 mg/kg/day from gestation day 7 through to lactation day 20 (weaning), there was decreased survival at birth, postnatal day 4, weaning, and post-weaning in pups of mothers dosed with 225 mg/kg/day, a dose at which maternal toxicity was observed. Pup body weight was decreased through postnatal day 21 at 100 mg/kg/day, and through postnatal day 91 at 225 mg/kg/day. Pup development was delayed (rotorod performance at 100 mg/kg/day and acoustic startle at 225 mg/kg/day; pinnae detachment and eye-opening at 225 mg/kg/day). These doses correspond to 6 times (100 mg/kg) and 22 times (225 mg/kg) the human exposure at the MRHD, based on AUC.

Atorvastatin crosses the rat placenta and reaches a level in fetal liver equivalent to that of maternal plasma.

8.2 Lactation

Risk Summary

There is no information about the presence of atorvastatin in human milk, the effects of the drug on the breastfed infant or the effects of the drug on milk production. However, it has been shown that another drug in this class passes into human milk. Studies in rats have shown that atorvastatin and/or its metabolites are present in the breast milk of lactating rats. When a drug is present in animal milk, it is likely that the drug will be

present in human milk (see *Data*). Statins, including atorvastatin calcium, decrease cholesterol synthesis and possibly the synthesis of other biologically active substances derived from cholesterol and may cause harm to the breastfed infant.

Because of the potential for serious adverse reactions in a breastfed infant, based on the mechanism of action, advise patients that breastfeeding is not recommended during treatment with atorvastatin calcium [see *Use in Specific Populations* (8.1), *Clinical Pharmacology* (12.1)].

Data

Following a single oral administration of 10 mg/kg of radioactive atorvastatin to lactating rats, the concentration of total radioactivity was determined. Atorvastatin and/or its metabolites were measured in the breast milk and pup plasma at a 2:1 ratio (milk:plasma).

8.4 Pediatric Use

The safety and effectiveness of atorvastatin calcium as an adjunct to diet to reduce LDL-C have been established pediatric patients 10 years of age and older with HeFH. Use of atorvastatin calcium for this indication is based on a double-blind, placebo-controlled clinical trial in 187 pediatric patients 10 years of age and older with HeFH. In this limited controlled trial, there was no significant effect on growth or sexual maturation in the males or females or on menstrual cycle length in females.

The safety and effectiveness of atorvastatin calcium as an adjunct to other LDL-C-lowering therapies to reduce LDL-C have been established pediatric patients 10 years of age and older with HoFH. Use of atorvastatin calcium for this indication is based on a trial without a concurrent control group in 8 pediatric patients 10 years of age and older with HoFH [see *Clinical Studies* (14)].

The safety and effectiveness of atorvastatin calcium have not been established in pediatric patients younger than 10 years of age with HeFH or HoFH, or in pediatric patients with other types of hyperlipidemia (other than HeFH or HoFH).

8.5 Geriatric Use

Of the total number of atorvastatin calcium-treated patients in clinical trials, 15,813 (40%) were ≥ 65 years old and 2,800 (7%) were ≥ 75 years old. No overall differences in safety or effectiveness were observed between these patients and younger patients.

Advanced age (≥ 65 years) is a risk factor for atorvastatin calcium-associated myopathy and rhabdomyolysis. Dose selection for an elderly patient should be cautious, recognizing the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy and the higher risk of myopathy. Monitor geriatric patients receiving atorvastatin calcium for the increased risk of myopathy [see *Warnings and Precautions* (5.1) and *Clinical Pharmacology* (12.3)].

8.6 Renal Impairment

Renal impairment is a risk factor for myopathy and rhabdomyolysis. Monitor all patients with renal impairment for development of myopathy. Renal impairment does not affect the plasma concentrations of atorvastatin calcium, therefore there is no dosage adjustment in patients with renal impairment [see *Warnings and Precautions* (5.1) and

8.7 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 Childs-Pugh A disease. C_{max} and AUC are approximately 16-fold and 11-fold increased, respectively, in patients with Childs-Pugh B disease. Atorvastatin calcium is contraindicated in patients with acute liver failure or decompensated cirrhosis [see *Contraindications* (4)].

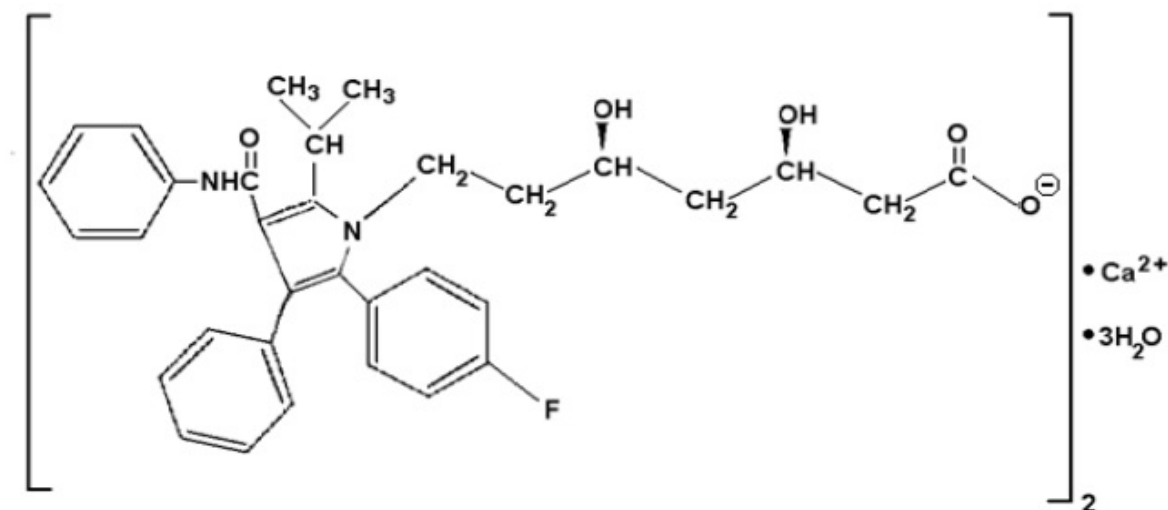
10 OVERDOSAGE

No specific antidotes for atorvastatin calcium are known. Contact Poison Control (1-800-222-1222) for latest recommendations. Due to extensive drug binding to plasma proteins, hemodialysis is not expected to significantly enhance atorvastatin calcium clearance.

11 DESCRIPTION

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

Atorvastatin calcium is [R-(R*, R*)]-2-(4-fluorophenyl)- β , δ -dihydroxy-5-(1-methylethyl)-3-phenyl-4-[(phenylamino) carbonyl]-1H-pyrrole- 1-heptanoic acid, calcium salt (2:1) trihydrate. The empirical formula of atorvastatin calcium is $(C_{33}H_{34}FN_2O_5)_2Ca \cdot 3H_2O$ and its molecular weight is 1209.42. Its structural formula is:



Atorvastatin calcium, USP is a white to off-white powder that is insoluble in aqueous solutions of pH 4 and below. Atorvastatin calcium, USP is very slightly soluble in distilled water, pH 7.4 phosphate buffer, and acetonitrile; slightly soluble in ethanol; and freely soluble in methanol.

Atorvastatin calcium tablets, USP for oral administration contain 10 mg, 20 mg, 40 mg or 80 mg of atorvastatin, USP and the following inactive ingredients: Calcium carbonate, croscarmellose sodium, hydroxypropyl cellulose, lactose monohydrate, magnesium stearate, microcrystalline cellulose, polysorbate 80. The coating material contains hypromellose, polyethylene glycol, talc, titanium dioxide.

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; atorvastatin calcium also reduces LDL production and the number of LDL 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 9%, 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 parahydroxylated derivatives and various beta-oxidation products. In vitro inhibition of HMG-CoA reductase by ortho- and parahydroxylated 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 isozyme [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 extra-hepatic 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 HeFH 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 females differ from those in males (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 males and females.

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 Childs-Pugh A disease. C_{max} and AUC are approximately 16-fold and 11-fold increased, respectively, in patients with Childs-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 dosage regimen	Atorvastatin		
	Dosage (mg)	Ratio of AUC &	Ratio of C _{max} &
#Cyclosporine 5.2 mg/kg/day, stable dose	10 mg QD ^a for 28 days	8.69	10.66
#Tipranavir 500 mg BID ^b /ritonavir 200mg BID ^b , 7 days	10 mg SD ^c	9.36	8.58
#Glecaprevir 400mg QD ^a /pibrentasvir 120 mg QD ^a , 7 days	10mg QD ^a for 7 days	8.28	22.00
#Telaprevir 750 mg q8h ^f , 10 days	20 mg SD ^c	7.88	10.60
#, [‡] Saquinavir 400 mg BID ^b /ritonavir 400mg BID ^b , 15 days	40 mg QD ^a for 4 days	3.93	4.31
#Elbasvir 50 mg QD ^a /grazoprevir 200 mg QD ^a , 13 days	10 mg SD ^c	1.94	4.34
#Simeprevir 150 mg QD ^a , 10 days	40 mg SD ^c	2.12	1.70
#Clarithromycin 500 mg BID ^b , 9 days	80 mg QD ^a for 8 days	4.54	5.38
#Darunavir 300 mg BID ^b /ritonavir 100 mg BID ^b , 9 days	10 mg QD ^a for 4 days	3.45	2.25
#Itraconazole 200 mg QD ^a , 4 days	40 mg SD ^c	3.32	1.20
#Letermovir 480 mg QD ^a , 10 days	20 mg SD ^c	3.29	2.17
#Fosamprenavir 700 mg BID ^b /ritonavir 100 mg BID ^b , 14 days	10 mg QD ^a for 4 days	2.53	2.84
#Fosamprenavir 1,400 mg BID ^b , 14 days	10 mg QD ^a for 4 days	2.30	4.04
#Nelfinavir 1,250 mg BID ^b , 14 days	10 mg QD ^a for 28 days	1.74	2.22
#Grapefruit Juice, 240 mL QDa,*	40 mg SD ^c	1.37	1.16
Diltiazem 240 mg QDa, 28 days	40 mg SD ^c	1.51	1.00
Erythromycin 500 mg QIDe, 7 days	10 mg SD ^c	1.33	1.38

Amlodipine 10 mg, single dose	80 mg SD ^c	1.18	0.91
Cimetidine 300 mg QID ^e , 2 weeks	10 mg QD ^a for 2 weeks	1.00	0.89
Colestipol 10 g BID ^b , 24 weeks	40 mg QD ^a for 8 weeks	NA	0.74**
Maalox TC [®] 30 mL QID ^e , 17 days	10 mg QD ^a for 15 days	0.66	0.67
Efavirenz 600 mg QD ^a , 14 days	10 mg for 3 days	0.59	1.01
#Rifampin 600 mg QD ^a , 7 days (co-administered) [†]	40 mg SD ^c	1.12	2.90
#Rifampin 600 mg QD ^a , 5 days (doses separated) [†]	40 mg SD ^c	0.20	0.60
#Gemfibrozil 600mg BID ^b , 7 days	40mg SD ^c	1.35	1.00
#Fenofibrate 160mg QD ^a , 7 days	40mg SD ^c	1.03	1.02
Boceprevir 800 mg TID ^d , 7 days	40 mg SD ^c	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 1.71) have been reported with excessive grapefruit consumption (≥ 750 mL to 1.2 liters per day).

**Ratio based on a single sample taken 8 to 16 h post dose.

[†]Due to the dual interaction mechanism of rifampin, simultaneous co-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 used 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.

^aOnce daily

^bTwice daily

^cSingle dosage

^dThree times daily

^eFour times daily

^fEvery 8 hours

Table 6: Effect of Atorvastatin on the Pharmacokinetics of Co-administered Drugs

Atorvastatin	Co-administered drug and dosage regimen		
	Drug/Dosage (mg)	Ratio of AUC	Ratio of C _{max}
80 mg QD ^a for 15 days	Antipyrine, 600 mg SD ^c	1.03	0.89

80 mg QD ^a for 10 days	# Digoxin 0.25 mg QD ^a , 20 days	1.15	1.20
40 mg QD ^a for 22 days	Oral contraceptive QD ^a , 2 months - norethindrone 1mg -ethinyl estradiol 35µg	1.28 1.19	1.23 1.30
10 mg SD ^c	Tipranavir 500 mg BID ^b /ritonavir 200 mg BID ^b , 7 days	1.08	0.96
10 mg QD ^a for 4 days	Fosamprenavir 1,400 mg BID ^b , 14 days	0.73	0.82
10 mg QD ^a for 4 days	Fosamprenavir 700 mg BID ^b /ritonavir 100 mg BID ^b , 14 days	0.99	0.94

#See Section 7 for clinical significance.

^aOnce daily

^bTwice daily

^cSingle dosage

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 muscle in high-dose females: in one, there was a rhabdomyosarcoma and, in another, there was a fibrosarcoma. This dose represents a plasma AUC (0 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 significant increase in liver adenomas in high- dose males and liver carcinomas in high-dose females. These findings occurred at plasma AUC (0 to 24) values of approximately 6 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 mouse 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, spermatid head concentration, and increased abnormal sperm. Atorvastatin caused no adverse effects on semen parameters, or reproductive organ histopathology in dogs given doses of 10, 40, or 120 mg/kg for 2 years.

14 CLINICAL STUDIES

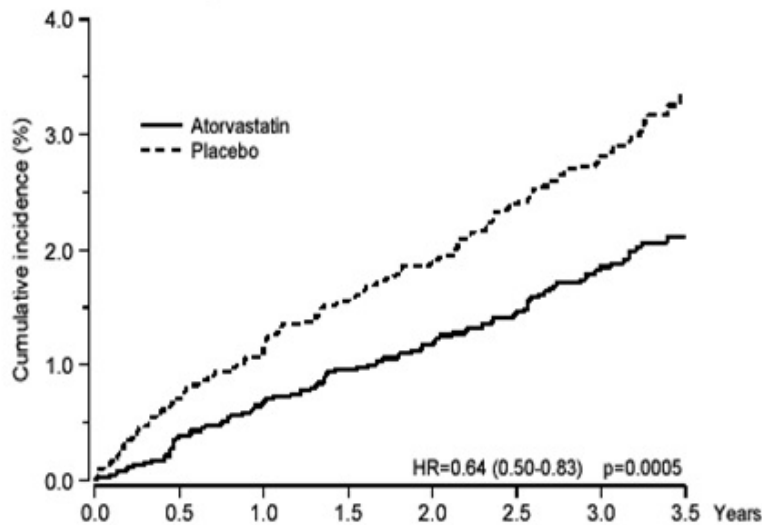
Prevention of Cardiovascular Disease

In the Anglo-Scandinavian Cardiac Outcomes Trial (ASCOT), the effect of atorvastatin calcium on fatal and non-fatal coronary heart disease was assessed in 10,305 patients with hypertension, 40 to 80 years of age (mean of 63 years; 19% female; 95% White, 3% Black or African American, 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 (33%), diabetes (24%), history of CHD in a first-degree relative (26%), TC: HDL >6 (14%), peripheral vascular disease (5%), left ventricular hypertrophy (14%), prior cerebrovascular event (10%), specific ECG abnormality (14%), proteinuria/albuminuria (62%). 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=5,168) or placebo (n=5,137), using a covariate 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 (46 events in the placebo group vs. 40 events in the atorvastatin calcium group) or non-fatal MI (108 events in the placebo group vs. 60 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-LLA)



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 causes ($p=0.51$) 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 2,838 subjects (94% White, 2% Black or African American, 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 (80%), retinopathy (30%), or microalbuminuria (9%) or macroalbuminuria (3%). 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 (1,429) or placebo (1,411) 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 CHD 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 HbA_{1c} 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.

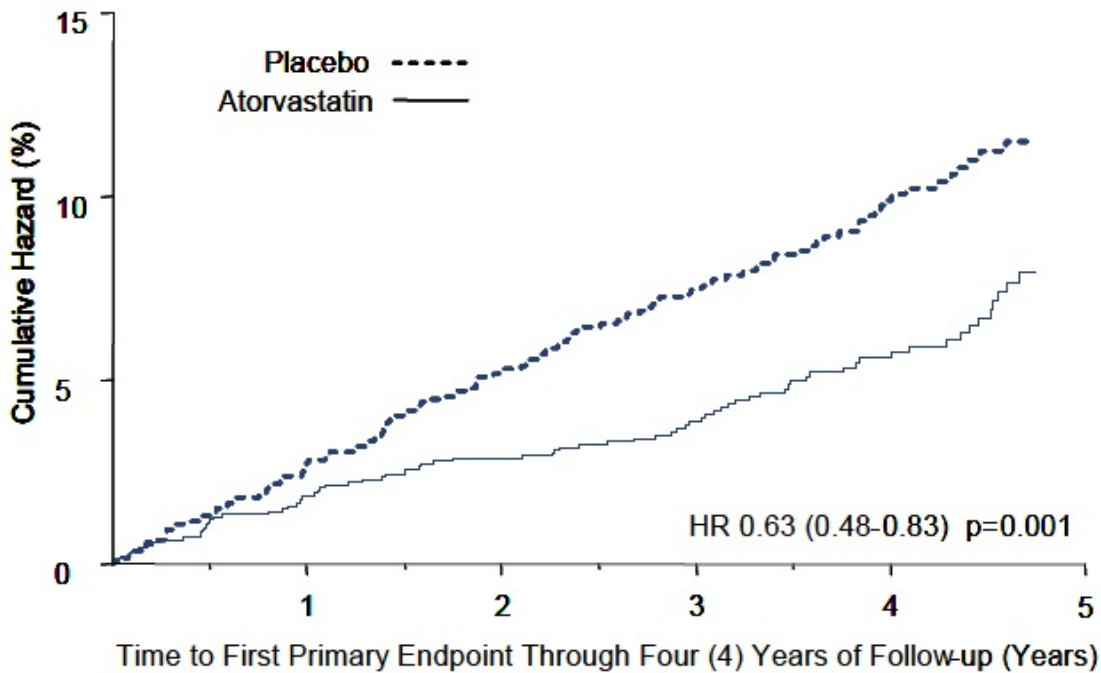
Atorvastatin calcium significantly reduced the rate of major cardiovascular events (primary endpoint events) (83 events in the atorvastatin calcium group vs. 127 events in the placebo group) with a relative risk reduction of 37%, HR 0.63, 95% CI (0.48, 0.83) ($p=0.001$) (see Figure 2). An effect of atorvastatin 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, 95.1% CI (0.39, 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 (MCVE): death due to CHD, non-fatal myocardial infarction, resuscitated 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, 98, and 47 mg/dL during treatment with 80 mg of atorvastatin calcium and 99, 177, 152, 129, and 48 mg/dL during treatment with 10 mg of atorvastatin calcium.

Treatment with atorvastatin calcium 80 mg/day significantly reduced the rate of MCVE (434 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)

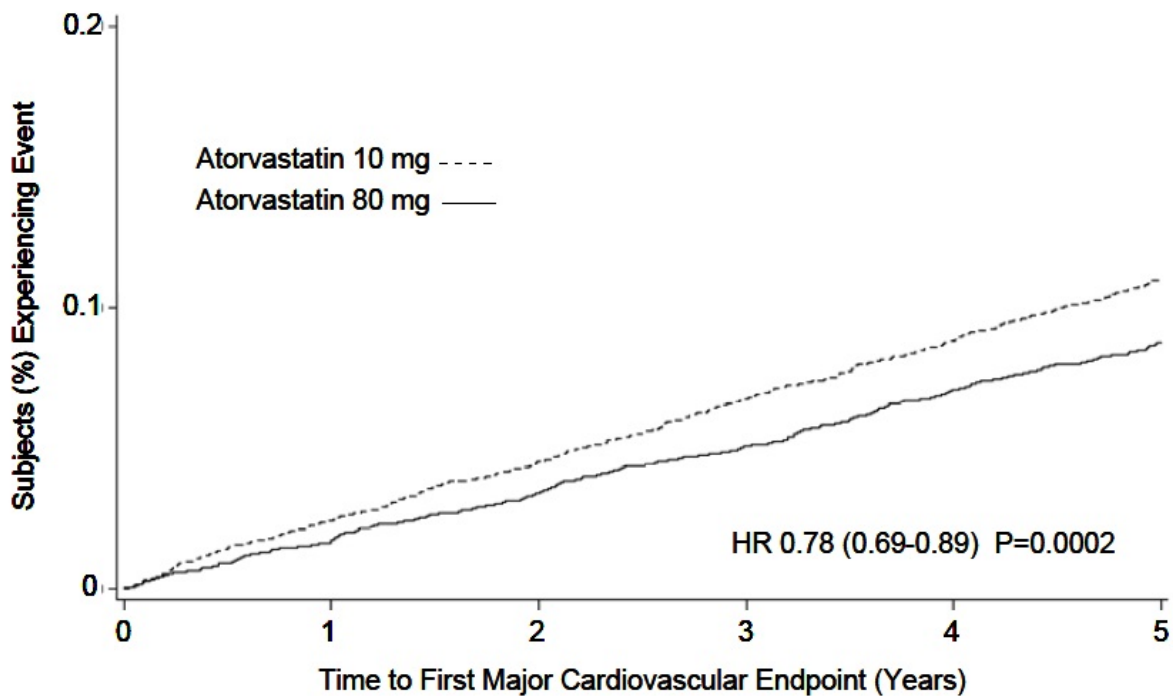


Table 7: Overview of Efficacy Results in TNT

Endpoint	Atorvastatin 10 mg (N=5,006)		Atorvastatin 80 mg (N=4,995)		HR ^a (95%CI)
	n	(%)	n	(%)	
PRIMARY ENDPOINT					
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	308	(6.2)	243	(4.9)	0.78 (0.66, 0.93)
Resuscitated 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)	275	(5.5)	0.97 (0.83, 1.15)
First CABG or other coronary revascularization procedure ^b	904	(18.1)	667	(13.4)	0.72 (0.65, 0.80)
First documented angina endpoint ^b	615	(12.3)	545	(10.9)	0.88 (0.79, 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)

*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

^a Atorvastatin 80 mg: atorvastatin 10 mg

^b Component of other secondary endpoints

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 resuscitated cardiac arrest (Table 7). Of the predefined secondary endpoints, treatment with 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 8% 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.

Primary Hyperlipidemia 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.)

Table 8: Dose Response in Patients with Primary Hyperlipidemia (Adjusted Mean % Change From Baseline)^a

Dose	N	TC	LDL-C	Apo B	TG	HDL-C
Placebo	21	4	4	3	10	-3
10	22	-29	-39	-32	-19	6
20	20	-33	-43	-35	-26	9
40	21	-37	-50	-42	-29	6
80	23	-45	-60	-50	-37	5

^aResults are pooled from 2 dose-response trials.

In three multicenter, double-blind trials in patients with hyperlipidemia, atorvastatin calcium was compared to other statins. After randomization, patients were treated for 16 weeks with either atorvastatin calcium 10 mg per day or a fixed dose of the comparative agent (Table 9).

Table 9: Mean Percentage Change From Baseline at Endpoint (Double-Blind, Randomized, Active-Controlled Trials)

Treatment (Daily Dosage)	N	Total-C	LDL-C	Apo B	TG	HDL-C
<i>Trial 1</i>						
Atorvastatin calcium 10 mg	707	-27 ^a	-36 ^a	-28 ^a	-17 ^a	+7
Lovastatin 20 mg	191	-19	-27	-20	-6	+7
95% CI for Diff ₁		-9.2, -6.5	-10.7, -7.1	-10.0, -6.5	-15.2, -7.1	-1.7, 2.0
<i>Trial 2</i>						
Atorvastatin calcium 10 mg	222	-25 ^b	-35 ^b	-27 ^b	-17 ^b	+6
Pravastatin 20 mg	77	-17	-23	-17	-9	+8
95% CI for Diff ₁		-10.8, -6.1	-14.5, -8.2	-13.4, -7.4	-14.1, -0.7	-4.9, 1.6
<i>Trial 3</i>						
Atorvastatin calcium 10 mg	132	-29 ^c	-37 ^c	-34 ^c	-23 ^c	+7
Simvastatin 10 mg	45	-24	-30	-30	-15	+7
95% CI for Diff ₁		-8.7, -2.7	-10.1, -2.6	-8.0, -1.1	-15.1, -0.7	-4.3, 3.9

¹A negative value for the 95% CI for the difference between treatments favors atorvastatin calcium for all except HDL-C, for which a positive value favors atorvastatin calcium. If the range does not include 0, this indicates a statistically significant difference.

^aSignificantly different from lovastatin, ANCOVA, $p \leq 0.05$

^bSignificantly different from pravastatin, ANCOVA, $p \leq 0.05$

^cSignificantly different from simvastatin, ANCOVA, $p \leq 0.05$

Table 9 does not contain data comparing the effects of atorvastatin calcium 10 mg and higher dosages of lovastatin, pravastatin, and simvastatin. The drugs compared in the trials summarized in the table are not necessarily exchangeable.

Hypertriglyceridemia in Adults

The response to atorvastatin calcium in 64 patients with isolated hypertriglyceridemia treated across several clinical trials is shown in the table below (Table 10). For the atorvastatin calcium-treated patients, median (min, max) baseline TG level was 565 (267 to 1,502).

Table 10: Combined Patients with Isolated Elevated TG: Median (min, max) Percentage Change From Baseline

	Placebo (N=12)	Atorvastatin calcium 10 mg (N=37)	Atorvastatin calcium 20 mg (N=13)	Atorvastatin calcium 80 mg (N=14)
TG	-12.4 (-36.6, 82.7)	-41.0 (-76.2, 49.4)	-38.7 (-62.7, 29.5)	-51.8 (-82.8, 41.3)
Total-C	-2.3 (-15.5, 24.4)	-28.2 (-44.9, 6.8)	-34.9 (-49.6, 15.2)	-44.4 (-63.5, 3.8)
LDL-C	3.6 (-31.3, 31.6)	-26.5 (-57.7, 9.8)	-30.4 (-53.9, 0.3)	-40.5 (-60.6, 13.8)
HDL-C	3.8 (-18.6, 13.4)	13.8 (-9.7, 61.5)	11.0 (-3.2, 25.2)	7.5 (-10.8, 37.2)
non-HDL-C	-2.8 (-17.6, 30.0)	-33.0 (-52.1, 13.3)	-42.7 (-53.7, 17.4)	-51.5 (-72.9, 4.3)

Dysbetalipoproteinemia in Adults

The results of an open-label crossover trial of 16 patients (genotypes: 14 apo E2/E2 and 2 apo E3/E2) with dysbetalipoproteinemia are shown in the table below (Table 11).

Table 11: Open-Label Crossover Trial of 16 Patients with Dysbetalipoproteinemia

		Median % Change (min, max)	
	Median (min, max) at Baseline (mg/dL)	Atorvastatin calcium 10 mg	Atorvastatin calcium 80 mg
Total-C	442 (225, 1,320)	-37 (-85, 17)	-58 (-90, -31)
TG	678 (273, 5,990)	-39 (-92, -8)	-53 (-95, -30)
IDL-C + VLDL-C	215 (111, 613)	-32 (-76, 9)	-63 (-90, -8)
non-HDL-C	411 (218, 1,272)	-43 (-87, -19)	-64 (-92, -36)

HoFH in Adults and Pediatric Patients

In a trial without a concurrent control group, 29 patients (mean age of 22 years, median age of 24 years, 31% <18 years) with HoFH received maximum daily doses of 20 to 80 mg of atorvastatin calcium. The mean LDL-C reduction in this trial was 18%. Twenty-five patients with a reduction in LDL-C had a mean response of 20% (range of 7% to 53%,

median of 24%); the remaining 4 patients had 7% to 24% increases in LDL-C. Five of the 29 patients had absent LDL-receptor function. Of these, 2 patients also had a portacaval shunt and had no significant reduction in LDL-C. The remaining 3 receptor-negative patients had a mean LDL-C reduction of 22%.

HeFH in Pediatric Patients

In a double-blind, placebo-controlled trial followed by an open-label phase, 187 males and post-menarchal females 10 years to 17 years of age (mean age 14.1 years; 31% female; 92% White, 1.6% Black or African American, 1.6% Asian, 4.8% other) with heterozygous familial hypercholesterolemia (HeFH) or severe hypercholesterolemia, were randomized to atorvastatin calcium (n=140) or placebo (n=47) for 26 weeks and then all received atorvastatin calcium for 26 weeks. Inclusion in the trial required 1) a baseline LDL-C level ≥ 190 mg/dL or 2) a baseline LDL-C level ≥ 160 mg/dL and positive family history of FH or documented premature cardiovascular disease in a first or second-degree relative. The mean baseline LDL-C value was 219 mg/dL (range: 139 to 385 mg/dL) in the atorvastatin calcium group compared to 230 mg/dL (range: 160 to 325 mg/dL) in the placebo group. The dosage of atorvastatin calcium (once daily) was 10 mg for the first 4 weeks and uptitrated to 20 mg if the LDL-C level was > 130 mg/dL. The number of atorvastatin calcium-treated patients who required uptitration to 20 mg after Week 4 during the double-blind phase was 78 (56%).

Atorvastatin calcium significantly decreased plasma levels of total-C, LDL-C, TG, and apolipoprotein B during the 26-week double-blind phase (see Table 12).

Table 12: Lipid-altering Effects of atorvastatin calcium in Adolescent Males and Females with Heterozygous Familial Hypercholesterolemia or Severe Hypercholesterolemia (Mean Percentage Change From Baseline at Endpoint in Intention-to-Treat Population)

DOSAGE	N	Total-C	LDL-C	HDL-C	TG	Apolipoprotein B
Placebo	47	-1.5	-0.4	-1.9	1.0	0.7
atorvastatin calcium	140	-31.4	-39.6	2.8	-12.0	-34.0

The mean achieved LDL-C value was 130.7 mg/dL (range: 70.0 to 242.0 mg/dL) in the atorvastatin calcium group compared to 228.5 mg/dL (range: 152.0 to 385.0 mg/dL) in the placebo group during the 26-week double-blind phase.

Atorvastatin was also studied in a three year open-label, uncontrolled trial that included 163 patients with HeFH who were 10 years to 15 years old (82 males and 81 females). All patients had a clinical diagnosis of HeFH confirmed by genetic analysis (if not already confirmed by family history). Approximately 98% were White, and less than 1% were Black, African American or Asian. Mean LDL-C at baseline was 232 mg/dL. The starting atorvastatin dosage was 10 mg once daily and doses were adjusted to achieve a target of < 130 mg/dL LDL-C. The reductions in LDL-C from baseline were generally consistent across age groups within the trial as well as with previous clinical trials in both adult and pediatric placebo-controlled trials.

16 HOW SUPPLIED/STORAGE AND HANDLING

Atorvastatin Calcium Tablets, USP are supplied as follows:

10 mg: White elliptical shaped, film coated tablets, debossed with '10' on one side and 'ATS' on other side.

Bottle of 20 NDC 76420-943-20 (repackaged from NDC 67877-511-XX)

Bottle of 30 NDC 76420-943-30 (repackaged from NDC 67877-511-XX)

Bottle of 60 NDC 76420-943-60 (repackaged from NDC 67877-511-XX)

Bottle of 90 NDC 76420-943-90 (relabeled from NDC 67877-511-90)

Bottle of 120 NDC 76420-943-12 (repackaged from NDC 67877-511-XX)

Bottle of 500 NDC 76420-943-05 (relabeled from NDC 67877-511-05)

Bottle of 1000 NDC 76420-943-00 (relabeled from NDC 67877-511-10)

Bottle of 5000 NDC 76420-943-55 (relabeled from NDC 67877-511-55)

Carton of 100 (10 x 10 unit-dose) tablets NDC 76420-943-38 (relabeled from NDC 67877-511-38)

20 mg: White elliptical shaped, film coated tablets, debossed with '20' on one side and 'ATS' on other side.

Bottle of 20 NDC 76420-945-20 (repackaged from NDC 67877-512-XX)

Bottle of 30 NDC 76420-945-30 (repackaged from NDC 67877-512-XX)

Bottle of 60 NDC 76420-945-60 (repackaged from NDC 67877-512-XX)

Bottle of 90 NDC 76420-945-90 (relabeled/repackaged from NDC 67877-512-90)

Bottle of 120 NDC 76420-945-12 (repackaged from NDC 67877-512-XX)

Bottle of 500 NDC 76420-945-05 (relabeled from NDC 67877-512-05)

Bottle of 1000 NDC 76420-945-00 (relabeled from NDC 67877-512-10)

Bottle of 4000 NDC 76420-945-44 (relabeled from NDC 67877-512-44)

Carton of 100 (10 x 10 unit-dose) tablets NDC 76420-945-38 (relabeled from NDC 67877-512-38)

40 mg: White elliptical shaped, film coated tablets, debossed with '40' on one side and 'ATS' on other side.

Bottle of 20 NDC 76420-946-20 (repackaged from NDC 67877-513-XX)

Bottle of 30 NDC 76420-946-30 (repackaged from NDC 67877-513-XX)

Bottle of 60 NDC 76420-946-60 (repackaged from NDC 67877-513-XX)

Bottle of 90 NDC 76420-946-90 (relabeled from NDC 67877-513-90)

Bottle of 120 NDC 76420-946-12 (repackaged from NDC 67877-513-XX)

Bottle of 500 NDC 76420-946-05 (relabeled from NDC 67877-513-05)

Bottle of 1000 NDC 76420-946-00 (relabeled from NDC 67877-513-10)

Bottle of 2000 NDC 76420-946-23 (relabeled from NDC 67877-513-23)

Carton of 100 (10 x 10 unit-dose) tablets NDC 76420-946-38 (relabeled from NDC 67877-513-38)

80 mg: White elliptical shaped, film coated tablets, debossed with '80' on one side and 'ATS' on other side.

Bottle of 20 NDC 76420-948-20 (repackaged from NDC 67877-514-XX)

Bottle of 30 NDC 76420-948-30 (repackaged from NDC 67877-514-XX)

Bottle of 60 NDC 76420-948-60 (repackaged from NDC 67877-514-XX)

Bottle of 90 NDC 76420-948-90 (relabeled from NDC 67877-514-90)

Bottle of 120 NDC 76420-948-12 (repackaged from NDC 67877-514-XX)

Bottle of 500 NDC 76420-948-05 (relabeled from NDC 67877-514-05)

Bottle of 1000 NDC 76420-948-00 (relabeled from NDC 67877-514-10)

Carton of 100 (10 x 10 unit-dose) tablets NDC 76420-948-38 (relabeled from NDC 67877-514-38)

Storage

Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature].

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information).

Myopathy and Rhabdomyolysis

Advise patients that atorvastatin calcium may cause myopathy and rhabdomyolysis. Inform patients that the risk is also increased when taking certain types of medication or consuming large quantities of grapefruit juice and they should discuss all medication, both prescription and over the counter, with their healthcare provider. Instruct patients to promptly report any unexplained muscle pain, tenderness or weakness particularly if accompanied by malaise or fever [see *Warnings and Precautions* (5.1), *Drug Interactions* (7.1)].

Hepatic Dysfunction

Inform patients that atorvastatin calcium may cause liver enzyme elevations and possibly liver failure. Advise patients to promptly report fatigue, anorexia, right upper abdominal discomfort, dark urine or jaundice [see *Warnings and Precautions* (5.3)].

Increases in HbA1c and Fasting Serum Glucose Levels

Inform patients that increases in HbA1c and fasting serum glucose levels may occur with atorvastatin calcium. Encourage patients to optimize lifestyle measures, including regular exercise, maintaining a healthy body weight, and making healthy food choices [see *Warnings and Precautions* (5.4)].

Pregnancy

Advise pregnant patients and patients who can become pregnant of the potential risk to a fetus. Advise patients to inform their healthcare provider of a known or suspected pregnancy to discuss if atorvastatin calcium should be discontinued [see *Use in Specific Populations* (8.1)].

Lactation

Advise patients that breastfeeding is not recommended during treatment with atorvastatin calcium [see *Use in Specific Populations* (8.2)].

Missed Doses

If a dose is missed, advise patients not to take the missed dose and resume with the next scheduled dose.

For Patient Information, please visit:

<http://www.ascendlaboratories.com/pti/atorvastatintab.pdf>

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PATIENT INFORMATION

Atorvastatin Calcium Tablets, USP for oral use

(a TOR va sta tin)

What is atorvastatin calcium tablets?

Atorvastatin calcium tablets is a prescription medicine that contains a cholesterol lowering medicine (statin) called atorvastatin.

Atorvastatin calcium tablets is used:

- to reduce the risk of:
 - heart attack, stroke, certain types of heart surgery and chest pain in adults who do not have heart disease but have other multiple risk factors for heart disease.
 - heart attack and stroke in adults with type 2 diabetes mellitus who do not have heart disease but have other multiple risk factors.
 - heart attack that does not cause death, stroke, certain types of heart surgery, hospitalization for congestive heart failure, and chest pain in adults with heart disease.
- along with diet to reduce low density lipoprotein cholesterol (LDL-C) or bad cholesterol:
 - in adults with primary hyperlipidemia.
 - in adults and children aged 10 years and older with heterozygous familial hypercholesterolemia (HeFH). This is an inherited condition that causes high levels of bad cholesterol.
- along with other cholesterol lowering treatments or alone if such treatments are unavailable in adults and children aged 10 years and older with homozygous familial hypercholesterolemia (HoFH). This is an inherited condition that causes high levels of bad cholesterol.
- along with diet for the treatment of adults with:
 - primary dysbetalipoproteinemia (an inherited condition that causes high levels of cholesterol and fat).
 - hypertriglyceridemia.

It is not known if atorvastatin calcium tablets is safe and effective in children younger than 10 years of age with HeFH or HoFH or in children with other types of hyperlipidemias (other than HeFH or HoFH).

Do not take atorvastatin calcium tablets if you:

- have liver problems (acute liver failure or decompensated cirrhosis)
- are allergic to atorvastatin or any of the ingredients in atorvastatin calcium tablets. Stop using atorvastatin calcium tablets and get medical help right away if you have symptoms of a serious allergic reaction including:
 - swelling of your face, lips, tongue or throat
 - problems breathing or swallowing
 - fainting or feeling dizzy
 - very rapid heartbeat

- severe skin rash or itching
- flu-like symptoms including fever, sore throat, cough, tiredness, and joint pain

See the end of this leaflet for a complete list of ingredients in atorvastatin calcium tablets.

Before you take atorvastatin calcium tablets, tell your healthcare provider about all of your medical conditions, including if you:

- have unexplained muscle aches or weakness
- drink more than 2 glasses of alcohol daily
- have diabetes
- have thyroid problems
- have kidney problems
- had a stroke
- are pregnant or plan to become pregnant. Atorvastatin calcium tablets may harm your unborn baby. If you become pregnant, stop taking atorvastatin calcium tablets and call your healthcare provider right away.
- are breastfeeding or plan to breastfeed. You and your healthcare provider should decide if you will take atorvastatin calcium tablets or breastfeed. You should not do both. Talk to your healthcare provider about the best way to feed your baby if you take atorvastatin calcium tablets.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Atorvastatin calcium tablets and certain other medicines can increase the risk of muscle problems or other side effects. Especially tell your healthcare provider if you take medicines for:

- your immune system (cyclosporine)
- cholesterol (gemfibrozil)
- infections (erythromycin, clarithromycin, itraconazole, ketoconazole, posaconazole, and voriconazole)
- birth control pills
- heart failure (digoxin)
- gout (colchicine)
- niacin
- fibrates
- treating HIV, AIDS, or hepatitis C (anti-virals)

◦ tipranavir plus ritonavir	◦ glecaprevir plus pibrentasvir
◦ ledipasvir plus sofosbuvir	◦ simeprevir
◦ saquinavir plus ritonavir	◦ darunavir plus ritonavir
◦ fosamprenavir	◦ fosamprenavir plus ritonavir
◦ elbasvir plus grazoprevir	◦ letermovir
◦ nelfinavir	

Ask your healthcare provider or pharmacist for a list of medicines if you are not sure. Know all the medicines you take. Keep a list of them to show your healthcare provider and pharmacist when you get a new medicine.

How should I take atorvastatin calcium tablets?

- Take atorvastatin calcium tablets exactly as your healthcare provider tells you to take it.
- Do not change your dose or stop atorvastatin calcium tablets without talking to your healthcare provider.
- Your healthcare provider may do blood tests to check your cholesterol levels during your treatment with atorvastatin calcium tablets. Your dose of atorvastatin calcium tablets may be changed based on these blood test results.
- Take atorvastatin calcium tablets each day at any time of day. Atorvastatin calcium tablets can be taken with or without food.
- Your healthcare provider may start you on a cholesterol lowering diet before giving you atorvastatin calcium tablets. Stay on this low-fat diet when you take atorvastatin calcium tablets.
- If you miss a dose of atorvastatin calcium tablets, wait and take the next dose at your regular time. Do not take 2 doses of atorvastatin calcium tablets at the same time.
- If you take too much atorvastatin calcium tablets or overdose, call your healthcare provider or Poison Control Center at 1-800-222-1222 or go to the nearest emergency room right away.

What should I avoid while taking atorvastatin calcium tablets?

- Avoid drinking more than 1.2 liters of grapefruit juice each day.

What are the possible side effects of atorvastatin calcium tablets?

Atorvastatin calcium tablets may cause serious side effects including:

- **Muscle pain, tenderness and weakness (myopathy).** Muscle problems, including muscle breakdown, can be serious in some people and, rarely, cause kidney damage that can lead to death.

Tell your healthcare provider right away if you have:

- unexplained muscle pain, tenderness, or weakness, especially if you also have a fever or feel more tired than usual while you take atorvastatin calcium tablets.
- muscle problems that do not go away after your healthcare provider has told you to stop taking atorvastatin calcium tablets. Your healthcare provider may do further tests to diagnose the cause of your muscle problems.

Your chances of getting muscle problems are higher if you:

- are taking certain other medicines while you take atorvastatin calcium tablets
- drink large amounts of grapefruit juice
- are 65 years of age or older
- have thyroid problems (hypothyroidism) that are not controlled
- have kidney problems
- are taking higher doses of atorvastatin calcium tablets
- **Liver problems.** Your healthcare provider should do blood tests to check your liver before you start taking atorvastatin calcium tablets and if you have symptoms of liver problems while you take atorvastatin calcium tablets. Call your healthcare provider right away if you have the following symptoms of liver problems:
 - feel tired or weak
 - nausea or vomiting
 - loss of appetite
 - upper belly pain
 - dark amber colored urine
 - yellowing of your skin or the whites of your eyes

- **Increase in blood sugar level.**Your blood sugar level may increase while you are taking atorvastatin calcium tablets. Exercise regularly and make healthy food choices to maintain healthy body weight.

The most common side effects of atorvastatin calcium tablets include:

• nasal congestion, sore throat, runny nose	• muscle and joint pain
• diarrhea	• pain in extremity
• urinary tract infection	• upset stomach
• nausea	• musculoskeletal pain
• muscle spasms	• trouble sleeping
• throat pain	

Talk to your healthcare provider or pharmacist if you have side effects that bother you or that will not go away.

These are not all the side effects of atorvastatin calcium tablets. Call your healthcare provider for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How do I store atorvastatin calcium tablets, USP?

- Store atorvastatin calcium tablets at room temperature between 68°F to 77°F (20°C to 25°C).
- Do not keep medicine that is out of date or that you no longer need.
- **Keep atorvastatin calcium tablets, USP and all medicines out of the reach of children.**

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 healthcare provider. You can ask your pharmacist or healthcare provider for information about atorvastatin calcium tablets that is written for health professionals.

What are the ingredients in atorvastatin calcium tablets, USP?

Active Ingredient:Atorvastatin calcium USP

Inactive Ingredients: Calcium carbonate, croscarmellose sodium, hydroxypropyl cellulose, lactose monohydrate, magnesium stearate, microcrystalline cellulose, polysorbate 80. The coating material contains hypromellose, polyethylene glycol, talc, titanium dioxide.

For Patient Information, please visit:

<http://www.ascendlaboratories.com/pti/atorvastatintab.pdf>

Relabeled and Repackaged by:

Enovachem PHARMACEUTICALS

Torrance, CA 90501

PACKAGE LABEL/PRINCIPAL DISPLAY PANEL-10 mg

Atorvastatin Calcium Tablets, USP 10 mg
NDC: 76420-043-90
S/N:
Qty: 90

Atorvastatin Calcium Tablets, USP 10 mg
NDC: 76420-043-90
S/N:
Qty: 90

Atorvastatin Calcium Tablets, USP 10 mg
NDC: 76420-043-90
S/N:
Qty: 90

Atorvastatin Calcium Tablets, USP 10 mg
NDC: 76420-043-05
S/N:
Qty: 500

Atorvastatin Calcium Tablets, USP 10 mg
NDC: 76420-043-05
S/N:
Qty: 500

Atorvastatin Calcium Tablets, USP 10 mg
NDC: 76420-043-05
S/N:
Qty: 500

Atorvastatin Calcium Tablets, USP 10 mg
NDC: 76420-043-00
S/N:
Qty: 1000

Atorvastatin Calcium Tablets, USP 10 mg
NDC: 76420-043-00
S/N:
Qty: 1000

Atorvastatin Calcium Tablets, USP 10 mg
NDC: 76420-043-00
S/N:
Qty: 1000

Alorvastatin Calcium Tablets, USP 10 mg
NDC: 76420-043-55
S/N:
Qty: 5000

Alorvastatin Calcium Tablets, USP 10 mg
NDC: 76420-043-55
S/N:
Qty: 5000


Alorvastatin Calcium Tablets, USP 10 mg
NDC: 76420-043-55
S/N:
Qty: 5000

Atorvastatin Calcium Tablets, USP 10 mg
NDC: 76420-043-38
S/N:
Qty: 100

Atorvastatin Calcium Tablets, USP 10 mg
NDC: 76420-043-38
S/N:
Qty: 100

Atorvastatin Calcium Tablets, USP 10 mg
NDC: 76420-043-38
S/N:
Qty: 100

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL-20 mg


Enovachem
 PHARMACEUTICALS
 375 Van Ness Ave., Suite 1402-1406
 Emeryville, CA 94601
 (916) 432-1400

Alvostatin Calcium Tablets, USP 20 mg
 NDC: 76420-945-38
 Qty: 100
 Distributed By: Asend Laboratories, LLC
 Source NDC: 67877-512-38
 Description: white oval shape/imf coated tablets/20 tablets
 Lot #: 000000 Exp: _____
 Batch #: 0000000
 Drug Status: RX

CAUTION: DO NOT TAKE ALVOSTATIN DISPERSEWITOUT PRESCRIPTION. USE INCREASE INTRACRANIAL PRESSURE AND RISK OF CHILDREN. STORE AT 25-30°C (68-77°F); USP CONTROLLED ROOM TEMPERATURE.

(1) 0 0376420 94538 3
 (1)
 (1) 0000000000
 (1) 0000000000

Atorvastatin Calcium Tablets, USP 20 mg
NDC: 76420-945-38
S/N:
Qty: 100

Atorvastatin Calcium Tablets, USP 20 mg
NDC: 76420-945-38
S/N:
Qty: 100

Atorvastatin Calcium Tablets, USP 20 mg
NDC: 76420-945-38
S/N:
Qty: 100

Packaged By: **Enovachem**
PHARMACEUTICALS
 379 Van Ness Ave.
 Suite 1403-1405
 Toronto, CA M5S1C1

Atorvastatin Calcium Tablets, USP 20 mg

NDC: 76420-945-90
 Qty: 90
 Distributed By: Ascend Laboratories, LLC
 Source NDC: 87877-512-90
 Description: white to off-white speckled coated tablets debossed 20 AT
 Lot #: 000000000
 Exp:
 Batch #: 000000000
 Drug Status: RP

QR CODE

(1) 0376420 94500 1
 10 (000000000)
 21

**CALLUTION: FLEGAL LAW PROHIBITS DISPENSING WITHOUT PRESCRIPTION. SEE PACKAGE INSERTION
 KEEP OUT OF REACH OF CHILDREN. STORE AT 20-25C (68-77°F) USE UNCONTROLLED ROOM TEMPERATURE.**

Atorvastatin Calcium Tablets, USP 20 mg
NDC: 76420-945-90
S/N:
Qty: 60

Atorvastatin Calcium Tablets, USP 20 mg
NDC: 76420-945-90
S/N:
Qty: 60

Atorvastatin Calcium Tablets, USP 20 mg
NDC: 76420-945-90
S/N:
Qty: 60

PACKAGE LABEL/PRINCIPAL DISPLAY PANEL-40 mg

Relabeled By:
Enovachem
PHARMACEUTICALS
379 Van Ness Ave.
Suite 1403-1406
Torrance, CA 90501
NDC: 76420-946-90
Qty: 90
Distributed By: Asend Laboratories, LLC
Source NDC: 67877-513-00
Description: white oval shaped/film coated tablets/debossed 40,ATS
Lot #: 00000000 Exp: (17) 00000000
Batch #: 00000000
Drug Status: RX
CAUTION: FEDERAL LAW PROHIBITS DISPENSING WITHOUT PRESCRIPTION. SEE PACKAGE INSERT.
KEEP OUT OF REACH OF CHILDREN. STORE AT 20-25C (68-77F) [SEE USP CONTROLLED ROOM TEMP.]



(01) 0 0376420 94690 8
(17) 00000000
(21)

Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-90
S/N:
Qty: 90
Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-90
S/N:
Qty: 90
Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-90
S/N:
Qty: 90

Packaged By:
Enovachem
PHARMACEUTICALS
379 Van Ness Ave.
Suite 1403-1406
Torrance, CA 90501
NDC: 76420-946-20
Qty: 20
Distributed By: Asend Laboratories, LLC
Source NDC: 67877-513-XX
Description: white oval shaped/film coated tablets/debossed 40,ATS
Lot #: 00000000 Exp: (17) 00000000
Batch #: 00000000
Drug Status: RX
CAUTION: FEDERAL LAW PROHIBITS DISPENSING WITHOUT PRESCRIPTION. SEE PACKAGE INSERT.
KEEP OUT OF REACH OF CHILDREN. STORE AT 20-25C (68-77F) [SEE USP CONTROLLED ROOM TEMP.]



(01) 0 0376420 94620 5
(17) 00000000
(21)

Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-20
S/N:
Qty: 20
Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-20
S/N:
Qty: 20
Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-20
S/N:
Qty: 20

Relabeled By:
Enovachem
PHARMACEUTICALS
379 Van Ness Ave.
Suite 1403-1406
Torrance, CA 90501
NDC: 76420-946-05
Qty: 500
Distributed By: Asend Laboratories, LLC
Source NDC: 67877-513-00
Description: white oval shaped/film coated tablets/debossed 40,ATS
Lot #: 00000000 Exp: (17) 00000000
Batch #: 00000000
Drug Status: RX
CAUTION: FEDERAL LAW PROHIBITS DISPENSING WITHOUT PRESCRIPTION. SEE PACKAGE INSERT.
KEEP OUT OF REACH OF CHILDREN. STORE AT 20-25C (68-77F) [SEE USP CONTROLLED ROOM TEMP.]



(01) 0 0376420 94605 2
(17) 00000000
(21)

Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-05
S/N:
Qty: 500
Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-05
S/N:
Qty: 500
Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-05
S/N:
Qty: 500

Packaged By:
Enovachem
PHARMACEUTICALS
379 Van Ness Ave.
Suite 1403-1406
Torrance, CA 90501
NDC: 76420-946-30
Qty: 30
Distributed By: Asend Laboratories, LLC
Source NDC: 67877-513-XX
Description: white oval shaped/film coated tablets/debossed 40,ATS
Lot #: 00000000 Exp: (17) 00000000
Batch #: 00000000
Drug Status: RX
CAUTION: FEDERAL LAW PROHIBITS DISPENSING WITHOUT PRESCRIPTION. SEE PACKAGE INSERT.
KEEP OUT OF REACH OF CHILDREN. STORE AT 20-25C (68-77F) [SEE USP CONTROLLED ROOM TEMP.]



(01) 0 0376420 94630 4
(17) 00000000
(21)

Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-30
S/N:
Qty: 30
Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-30
S/N:
Qty: 30
Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-30
S/N:
Qty: 30

Relabeled By:
Enovachem
PHARMACEUTICALS
379 Van Ness Ave.
Suite 1403-1406
Torrance, CA 90501
NDC: 76420-946-00
Qty: 1000
Distributed By: Asend Laboratories, LLC
Source NDC: 67877-513-10
Description: white oval shaped/film coated tablets/debossed 40,ATS
Lot #: 00000000 Exp: (17) 00000000
Batch #: 00000000
Drug Status: RX
CAUTION: FEDERAL LAW PROHIBITS DISPENSING WITHOUT PRESCRIPTION. SEE PACKAGE INSERT.
KEEP OUT OF REACH OF CHILDREN. STORE AT 20-25C (68-77F) [SEE USP CONTROLLED ROOM TEMP.]



(01) 0 0376420 94600 7
(17) 00000000
(21)

Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-00
S/N:
Qty: 1000
Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-00
S/N:
Qty: 1000
Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-00
S/N:
Qty: 1000

Packaged By:
Enovachem
PHARMACEUTICALS
379 Van Ness Ave.
Suite 1403-1406
Torrance, CA 90501
NDC: 76420-946-60
Qty: 60
Distributed By: Asend Laboratories, LLC
Source NDC: 67877-513-XX
Description: white oval shaped/film coated tablets/debossed 40,ATS
Lot #: 00000000 Exp: (17) 00000000
Batch #: 00000000
Drug Status: RX
CAUTION: FEDERAL LAW PROHIBITS DISPENSING WITHOUT PRESCRIPTION. SEE PACKAGE INSERT.
KEEP OUT OF REACH OF CHILDREN. STORE AT 20-25C (68-77F) [SEE USP CONTROLLED ROOM TEMP.]



(01) 0 0376420 94660 1
(17) 00000000
(21)

Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-60
S/N:
Qty: 60
Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-60
S/N:
Qty: 60
Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-60
S/N:
Qty: 60

Relabeled By:
Enovachem
PHARMACEUTICALS
379 Van Ness Ave.
Suite 1403-1406
Torrance, CA 90501
NDC: 76420-946-23
Qty: 2000
Distributed By: Asend Laboratories, LLC
Source NDC: 67877-513-23
Description: white oval shaped/film coated tablets/debossed 40,ATS
Lot #: 00000000 Exp: (17) 00000000
Batch #: 00000000
Drug Status: RX
CAUTION: FEDERAL LAW PROHIBITS DISPENSING WITHOUT PRESCRIPTION. SEE PACKAGE INSERT.
KEEP OUT OF REACH OF CHILDREN. STORE AT 20-25C (68-77F) [SEE USP CONTROLLED ROOM TEMP.]



(01) 0 0376420 94623 6
(17) 00000000
(21)

Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-23
S/N:
Qty: 4000
Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-23
S/N:
Qty: 4000
Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-23
S/N:
Qty: 4000

Packaged By:
Enovachem
PHARMACEUTICALS
379 Van Ness Ave.
Suite 1403-1406
Torrance, CA 90501
NDC: 76420-946-12
Qty: 120
Distributed By: Asend Laboratories, LLC
Source NDC: 67877-513-XX
Description: white oval shaped/film coated tablets/debossed 40,ATS
Lot #: 00000000 Exp: (17) 00000000
Batch #: 00000000
Drug Status: RX
CAUTION: FEDERAL LAW PROHIBITS DISPENSING WITHOUT PRESCRIPTION. SEE PACKAGE INSERT.
KEEP OUT OF REACH OF CHILDREN. STORE AT 20-25C (68-77F) [SEE USP CONTROLLED ROOM TEMP.]



(01) 0 0376420 94612 0
(17) 00000000
(21)

Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-12
S/N:
Qty: 120
Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-12
S/N:
Qty: 120
Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-12
S/N:
Qty: 120

Relabeled By:
Enovachem
PHARMACEUTICALS
379 Van Ness Ave.
Suite 1403-1406
Torrance, CA 90501
NDC: 76420-946-38
Qty: 100
Distributed By: Asend Laboratories, LLC
Source NDC: 67877-513-38
Description: white oval shaped/film coated tablets/debossed 40,ATS
Lot #: 00000000 Exp: (17) 00000000
Batch #: 00000000
Drug Status: RX
CAUTION: FEDERAL LAW PROHIBITS DISPENSING WITHOUT PRESCRIPTION. SEE PACKAGE INSERT.
KEEP OUT OF REACH OF CHILDREN. STORE AT 20-25C (68-77F) [SEE USP CONTROLLED ROOM TEMP.]



(01) 0 0376420 94638 0
(17) 00000000
(21)

Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-38
S/N:
Qty: 100
Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-38
S/N:
Qty: 100
Atorvastatin Calcium Tablets, USP 40 mg
NDC: 76420-946-38
S/N:
Qty: 100

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL-80 mg

Relabeled By:
Enovachem
PHARMACEUTICALS
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-90
Qty: 90
Distributed By: Ascend Laboratories, LLC
Source NDC: 67877-514-00
Description: white oval shaped film coated tablets/debossed 80.ATS
Lot #: 00000000 Exp: (1) 03/6/20
Batch #: 00000000
Drug Status: RX
CAUTION: FEDERAL LAW PROHIBITS DISPENSING WITHOUT PRESCRIPTION. SEE PACKAGE INSERT.
KEEP OUT OF REACH OF CHILDREN. STORE AT 20-25C (68-77F) [SEE USP CONTROLLED ROOM TEMP].



Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-90
SN: QTY: 90
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-90
SN: QTY: 90
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-90
SN: QTY: 90

Packaged By:
Enovachem
PHARMACEUTICALS
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-20
Qty: 20
Distributed By: Ascend Laboratories, LLC
Source NDC: 67877-514-XX
Description: white oval shaped film coated tablets/debossed 80.ATS
Lot #: 00000000 Exp: (1) 03/6/20
Batch #: 00000000
Drug Status: RX
CAUTION: FEDERAL LAW PROHIBITS DISPENSING WITHOUT PRESCRIPTION. SEE PACKAGE INSERT.
KEEP OUT OF REACH OF CHILDREN. STORE AT 20-25C (68-77F) [SEE USP CONTROLLED ROOM TEMP].



Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-20
SN: QTY: 20
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-20
SN: QTY: 20
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-20
SN: QTY: 20

Relabeled By:
Enovachem
PHARMACEUTICALS
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-05
Qty: 500
Distributed By: Ascend Laboratories, LLC
Source NDC: 67877-514-05
Description: white oval shaped film coated tablets/debossed 80.ATS
Lot #: 00000000 Exp: (1) 03/6/20
Batch #: 00000000
Drug Status: RX
CAUTION: FEDERAL LAW PROHIBITS DISPENSING WITHOUT PRESCRIPTION. SEE PACKAGE INSERT.
KEEP OUT OF REACH OF CHILDREN. STORE AT 20-25C (68-77F) [SEE USP CONTROLLED ROOM TEMP].



Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-05
SN: QTY: 500
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-05
SN: QTY: 500
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-05
SN: QTY: 500

Packaged By:
Enovachem
PHARMACEUTICALS
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-30
Qty: 30
Distributed By: Ascend Laboratories, LLC
Source NDC: 67877-514-XX
Description: white oval shaped film coated tablets/debossed 80.ATS
Lot #: 00000000 Exp: (1) 03/6/20
Batch #: 00000000
Drug Status: RX
CAUTION: FEDERAL LAW PROHIBITS DISPENSING WITHOUT PRESCRIPTION. SEE PACKAGE INSERT.
KEEP OUT OF REACH OF CHILDREN. STORE AT 20-25C (68-77F) [SEE USP CONTROLLED ROOM TEMP].



Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-30
SN: QTY: 30
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-30
SN: QTY: 30
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-30
SN: QTY: 30

Relabeled By:
Enovachem
PHARMACEUTICALS
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-00
Qty: 1000
Distributed By: Ascend Laboratories, LLC
Source NDC: 67877-514-10
Description: white oval shaped film coated tablets/debossed 80.ATS
Lot #: 00000000 Exp: (1) 03/6/20
Batch #: 00000000
Drug Status: RX
CAUTION: FEDERAL LAW PROHIBITS DISPENSING WITHOUT PRESCRIPTION. SEE PACKAGE INSERT.
KEEP OUT OF REACH OF CHILDREN. STORE AT 20-25C (68-77F) [SEE USP CONTROLLED ROOM TEMP].



Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-00
SN: QTY: 1000
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-00
SN: QTY: 1000
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-00
SN: QTY: 1000

Packaged By:
Enovachem
PHARMACEUTICALS
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-60
Qty: 60
Distributed By: Ascend Laboratories, LLC
Source NDC: 67877-514-XX
Description: white oval shaped film coated tablets/debossed 80.ATS
Lot #: 00000000 Exp: (1) 03/6/20
Batch #: 00000000
Drug Status: RX
CAUTION: FEDERAL LAW PROHIBITS DISPENSING WITHOUT PRESCRIPTION. SEE PACKAGE INSERT.
KEEP OUT OF REACH OF CHILDREN. STORE AT 20-25C (68-77F) [SEE USP CONTROLLED ROOM TEMP].



Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-60
SN: QTY: 60
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-60
SN: QTY: 60
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-60
SN: QTY: 60

Relabeled By:
Enovachem
PHARMACEUTICALS
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-38
Qty: 100
Distributed By: Ascend Laboratories, LLC
Source NDC: 67877-514-38
Description: white oval shaped film coated tablets/debossed 80.ATS
Lot #: 00000000 Exp: (1) 03/6/20
Batch #: 00000000
Drug Status: RX
CAUTION: FEDERAL LAW PROHIBITS DISPENSING WITHOUT PRESCRIPTION. SEE PACKAGE INSERT.
KEEP OUT OF REACH OF CHILDREN. STORE AT 20-25C (68-77F) [SEE USP CONTROLLED ROOM TEMP].



Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-38
SN: QTY: 100
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-38
SN: QTY: 100
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-38
SN: QTY: 100

Packaged By:
Enovachem
PHARMACEUTICALS
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-12
Qty: 120
Distributed By: Ascend Laboratories, LLC
Source NDC: 67877-514-XX
Description: white oval shaped film coated tablets/debossed 80.ATS
Lot #: 00000000 Exp: (1) 03/6/20
Batch #: 00000000
Drug Status: RX
CAUTION: FEDERAL LAW PROHIBITS DISPENSING WITHOUT PRESCRIPTION. SEE PACKAGE INSERT.
KEEP OUT OF REACH OF CHILDREN. STORE AT 20-25C (68-77F) [SEE USP CONTROLLED ROOM TEMP].



Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-12
SN: QTY: 120
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-12
SN: QTY: 120
Atorvastatin Calcium Tablets, USP 80 mg
NDC: 76420-948-12
SN: QTY: 120

ATORVASTATIN CALCIUM

atorvastatin calcium tablet, film coated

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:76420-945(NDC:67877-512)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ATORVASTATIN CALCIUM TRIHYDRATE (UNII: 48A5M73Z4Q) (ATORVASTATIN - UNII:A0JWA85V8F)	ATORVASTATIN	20 mg

Inactive Ingredients

Ingredient Name	Strength
MICROCRYSTALLINE CELLULOSE 101 (UNII: 7T9FYH5QMK)	
CALCIUM CARBONATE (UNII: H0G9379FGK)	
LACTOSE MONOHYDRATE (UNII: EWQ57Q8ISX)	
CROSCARMELLOSE SODIUM (UNII: M28OL1HH48)	
HYDROXYPROPYL CELLULOSE (110000 WAMW) (UNII: 5Y0974F5PW)	
POLYSORBATE 80 (UNII: 6OZP39ZG8H)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
HYPROMELLOSE 2910 (6 MPA.S) (UNII: 0WZ8WG20P6)	
POLYETHYLENE GLYCOL 6000 (UNII: 30IQX730WE)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
TALC (UNII: 7SEV7J4R1U)	

Product Characteristics				
Color		white	Score	no score
Shape		OVAL (elliptical)	Size	12mm
Flavor			Imprint Code	20;ATS
Contains				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:76420-945-20	20 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
2	NDC:76420-945-30	30 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
3	NDC:76420-945-60	60 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
4	NDC:76420-945-90	90 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
5	NDC:76420-945-12	120 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
6	NDC:76420-945-05	500 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
7	NDC:76420-945-00	1000 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
8	NDC:76420-945-44	4000 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
9	NDC:76420-945-38	10 in 1 CARTON	04/08/2025	
9		10 in 1 BLISTER PACK; Type 0: Not a Combination Product		
Marketing Information				
Marketing Category		Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA		ANDA209288	12/23/2018	

ATORVASTATIN CALCIUM				
atorvastatin calcium tablet, film coated				
Product Information				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:76420-943(NDC:67877-511)	
Route of Administration	ORAL			
Active Ingredient/Active Moiety				
Ingredient Name			Basis of Strength	Strength
ATORVASTATIN CALCIUM TRIHYDRATE (UNII: 48A5M73Z4Q) (ATORVASTATIN - UNII:A0JWA85V8F)			ATORVASTATIN	10 mg
Inactive Ingredients				
Ingredient Name				Strength

MICROCRYSTALLINE CELLULOSE 101 (UNII: 7T9FYH5QMK)	
CALCIUM CARBONATE (UNII: H0G9379FGK)	
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
CROSCARMELLOSE SODIUM (UNII: M28OL1HH48)	
HYDROXYPROPYL CELLULOSE (110000 WAMW) (UNII: 5Y0974F5PW)	
POLYSORBATE 80 (UNII: 6OZP39ZG8H)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
HYPROMELLOSE 2910 (6 MPA.S) (UNII: 0WZ8WG20P6)	
POLYETHYLENE GLYCOL 6000 (UNII: 30IQX730WE)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
TALC (UNII: 7SEV7J4R1U)	

Product Characteristics

Color	white	Score	no score
Shape	OVAL (elliptical)	Size	10mm
Flavor		Imprint Code	10;ATS
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:76420-943-20	20 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
2	NDC:76420-943-30	30 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
3	NDC:76420-943-60	60 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
4	NDC:76420-943-90	90 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
5	NDC:76420-943-12	120 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
6	NDC:76420-943-05	500 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
7	NDC:76420-943-00	1000 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
8	NDC:76420-943-55	5000 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
9	NDC:76420-943-38	10 in 1 CARTON	04/08/2025	
9		10 in 1 BLISTER PACK; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA209288	12/23/2018	

ATORVASTATIN CALCIUM

atorvastatin calcium tablet, film coated

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:76420-946(NDC:67877-513)
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Route of Administration		ORAL		
Active Ingredient/Active Moiety				
Ingredient Name		Basis of Strength	Strength	
ATORVASTATIN CALCIUM TRIHYDRATE (UNII: 48A5M73Z 4Q) (ATORVASTATIN - UNII:A0JWA85V8F)		ATORVASTATIN	40 mg	
Inactive Ingredients				
Ingredient Name			Strength	
MICROCRYSTALLINE CELLULOSE 101 (UNII: 7T9FYH5QMK)				
CALCIUM CARBONATE (UNII: H0G9379FGK)				
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)				
CROSCARMELLOSE SODIUM (UNII: M28OL1HH48)				
HYDROXYPROPYL CELLULOSE (110000 WAMW) (UNII: 5Y0974F5PW)				
POLYSORBATE 80 (UNII: 6OZP39ZG8H)				
MAGNESIUM STEARATE (UNII: 70097M6I30)				
HYPROMELLOSE 2910 (6 MPA.S) (UNII: 0WZ8WG20P6)				
POLYETHYLENE GLYCOL 6000 (UNII: 30IQX730WE)				
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)				
TALC (UNII: 7SEV7J4R1U)				
Product Characteristics				
Color	white	Score	no score	
Shape	OVAL (elliptical)	Size	15mm	
Flavor		Imprint Code	40;ATS	
Contains				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:76420-946-20	20 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
2	NDC:76420-946-30	30 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
3	NDC:76420-946-60	60 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
4	NDC:76420-946-90	90 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
5	NDC:76420-946-12	120 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
6	NDC:76420-946-05	500 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
7	NDC:76420-946-00	1000 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
8	NDC:76420-946-23	2000 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
9	NDC:76420-946-38	10 in 1 CARTON	04/08/2025	
9		10 in 1 BLISTER PACK; Type 0: Not a Combination Product		
Marketing Information				

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA209288	12/23/2018	

ATORVASTATIN CALCIUM

atorvastatin calcium tablet, film coated

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:76420-948(NDC:67877-514)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ATORVASTATIN CALCIUM TRIHYDRATE (UNII: 48A5M73Z4Q) (ATORVASTATIN - UNII:A0JWA85V8F)	ATORVASTATIN	80 mg

Inactive Ingredients

Ingredient Name	Strength
MICROCRYSTALLINE CELLULOSE 101 (UNII: 7T9FYH5QMK)	
CALCIUM CARBONATE (UNII: H0G9379FGK)	
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
CROSCARMELLOSE SODIUM (UNII: M28OL1HH48)	
HYDROXYPROPYL CELLULOSE (110000 WAMW) (UNII: 5Y0974F5PW)	
POLYSORBATE 80 (UNII: 6OZP39ZG8H)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
HYPROMELLOSE 2910 (6 MPA.S) (UNII: 0WZ8WG20P6)	
POLYETHYLENE GLYCOL 6000 (UNII: 30IQX730WE)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
TALC (UNII: 7SEV7J4R1U)	

Product Characteristics

Color	white	Score	no score
Shape	OVAL (elliptical)	Size	19mm
Flavor		Imprint Code	80;ATS
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:76420-948-20	20 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
2	NDC:76420-948-30	30 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
3	NDC:76420-948-60	60 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
4	NDC:76420-948-90	90 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
5	NDC:76420-948-12	120 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	

6	NDC:76420-948-05	500 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
7	NDC:76420-948-00	1000 in 1 BOTTLE; Type 0: Not a Combination Product	04/08/2025	
8	NDC:76420-948-38	10 in 1 CARTON	04/08/2025	
8		10 in 1 BLISTER PACK; Type 0: Not a Combination Product		
Marketing Information				
Marketing Category		Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA		ANDA209288	12/23/2018	

Labeler - Asclemed USA, Inc. (059888437)

Establishment			
Name	Address	ID/FEI	Business Operations
ASCLEMED USA INC. DBA ENOVACHEM		059888437	relabel(76420-943, 76420-945, 76420-946, 76420-948) , repack(76420-943, 76420-945, 76420-946, 76420-948)

Revised: 5/2025

Asclemed USA, Inc.