

ATORVASTATIN CALCIUM - atorvastatin calcium tablet, film coated

Laurus Labs Limited

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 tablets are 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 tablets, 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 tablets 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 tablets (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 dosage. Discontinue atorvastatin if markedly elevated CK levels occur or myopathy is diagnosed or suspected. Temporarily discontinue atorvastatin 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 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 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 (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 Laurus Generics Inc. at 1-833-3-LAURUS (1-833-352-8787) 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 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

(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 (8.2).

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

Revised: 4/2024

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Atorvastatin calcium tablets are 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 to off-white, oval shaped, biconvex, film coated tablets debossed with “LA37” on one side and plain on the other side.

20 mg of atorvastatin: white to off-white, oval shaped, biconvex, film coated tablets debossed with “LA38” on one side and plain on the other side.

40 mg of atorvastatin: white to off-white, oval shaped, biconvex, film coated tablets debossed with “LA39” on one side and plain on the other side.

80 mg of atorvastatin: white to off-white, oval shaped, biconvex, film coated tablets debossed with “LA8” on one side and plain on the 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 tablets. 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 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.

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 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 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 is not recommended. Atorvastatin 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 [see *Drug Interactions (7.1)*].

Discontinue atorvastatin if markedly elevated CK levels occur or if myopathy is either diagnosed or suspected. Muscle symptoms and CK elevations may resolve if atorvastatin is discontinued. Temporarily discontinue atorvastatin 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 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 if IMNM is suspected.

5.3 Hepatic Dysfunction

Increases in serum transaminases have been reported with use of atorvastatin [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 in clinical trials. There have been rare postmarketing reports of fatal and non-fatal hepatic failure in patients taking statins, including atorvastatin.

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 initiation and when clinically indicated thereafter. Atorvastatin 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.

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. 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 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 80 mg, a higher incidence of hemorrhagic stroke was seen in the atorvastatin 80 mg group compared to placebo (55, 2.3% atorvastatin 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 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 group [see Adverse Reactions (6.1)]. Consider the risk/benefit of use of atorvastatin 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 placebo-controlled clinical trial database of 16,066 patients (8,755 atorvastatin 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 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 (n=8,755), from seventeen placebo-controlled trials.

Table 1: Adverse Reactions Occurring in $\geq 2\%$ in Patients Atorvastatin-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 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.

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 10 mg daily (n=5,006) or atorvastatin 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 80 mg and in 0.2% of individuals with atorvastatin 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 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 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 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 vs. 4% placebo).

Adverse Reactions from Clinical Studies of Atorvastatin 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 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. 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

Atorvastatin is a substrate of CYP3A4 and transporters (e.g., OATP1B1/1B3, P-gp, or BCRP). Atorvastatin 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 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

Cyclosporine or Gemfibrozil	
<i>Clinical Impact:</i>	Atorvastatin plasma levels were significantly increased with concomitant administration of atorvastatin and cyclosporine, an inhibitor of CYP3A4 and OATP1B1 [see Clinical Pharmacology (12.3)]. Gemfibrozil may cause myopathy when given alone. The risk of myopathy and rhabdomyolysis is increased with concomitant use of cyclosporine or gemfibrozil with atorvastatin.
<i>Intervention:</i>	Concomitant use of cyclosporine or gemfibrozil with atorvastatin is not recommended.
Anti-Viral Medications	
<i>Clinical Impact:</i>	Atorvastatin plasma levels were significantly increased with concomitant administration of atorvastatin 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 Clinical Pharmacology (12.3)]. Cases of myopathy and rhabdomyolysis have been reported with concomitant use of ledipasvir plus sofosbuvir with atorvastatin.
<i>Intervention:</i>	<ul style="list-style-type: none"> • Concomitant use of tipranavir plus ritonavir or glecaprevir plus pibrentasvir with atorvastatin 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 20 mg. • In patients taking nelfinavir, do not exceed atorvastatin 40 mg [see Dosage and Administration (2.5)]. • Consider the risk/benefit of concomitant use of ledipasvir plus sofosbuvir with atorvastatin. • 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 with select azole antifungals or macrolide antibiotics, due to inhibition of CYP3A4 and/or transporters [see Clinical Pharmacology (12.3)].
<i>Intervention:</i>	In patients taking clarithromycin or itraconazole, do not exceed atorvastatin 20 mg [see Dosage and Administration (2.5)]. Consider the risk/benefit of concomitant use of other azole antifungals or macrolide antibiotics with atorvastatin. 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.
<i>Intervention:</i>	Consider if the benefit of using lipid modifying dosages of niacin concomitantly with atorvastatin 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.
<i>Intervention:</i>	Consider if the benefit of using fibrates concomitantly with atorvastatin 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.
<i>Intervention:</i>	Consider the risk/benefit of concomitant use of colchicine with atorvastatin. 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.

7.2 Drug Interactions that may Decrease Exposure to Atorvastatin

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

Table 3: Drug Interactions that may Decrease Exposure to Atorvastatin

Rifampin	
<i>Clinical Impact:</i>	Concomitant administration of atorvastatin 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 after administration of rifampin has been associated with a significant reduction in atorvastatin plasma concentrations.
<i>Intervention:</i>	Administer atorvastatin and rifampin simultaneously.

7.3 Atorvastatin Effects on Other Drugs

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

Table 4: Atorvastatin Effects on Other Drugs

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

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Discontinue atorvastatin when pregnancy is recognized. Alternatively, consider the ongoing therapeutic needs of the individual patient. Atorvastatin decreases synthesis of cholesterol and possibly other biologically active substances derived from cholesterol; therefore, atorvastatin 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 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/m²). In rats administered atorvastatin during gestation and lactation, decreased postnatal growth and development delay were observed at doses \geq 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 100 mg/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/m²). 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, 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 [*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 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 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 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 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 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-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-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 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, therefore there is no dosage adjustment in patients with renal impairment [see *Warnings and Precautions (5.1)* and *Clinical Pharmacology (12.3)*].

8.7 Hepatic Impairment

In patients with chronic alcoholic liver disease, plasma concentrations of atorvastatin 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 is contraindicated in patients with acute liver failure or decompensated cirrhosis [see *Contraindications (4)*].

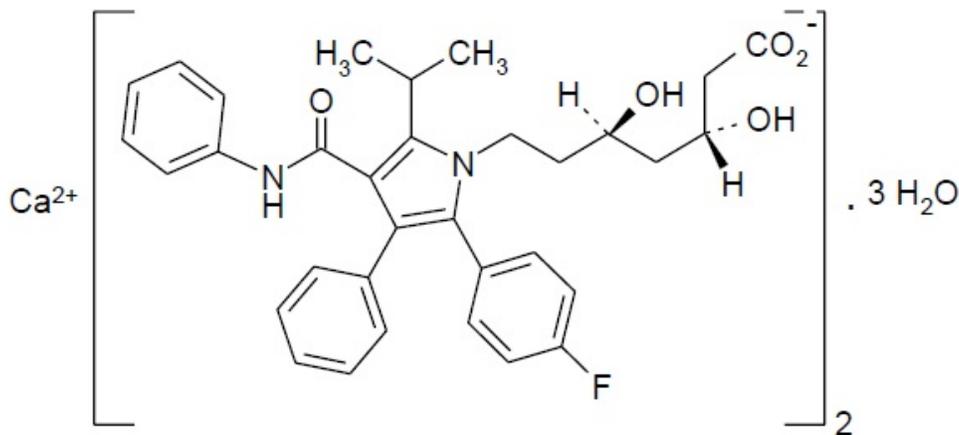
10 OVERDOSAGE

No specific antidotes for atorvastatin 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 clearance.

11 DESCRIPTION

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

Atorvastatin calcium is calcium($\beta R, \delta R$)-2-(*p*-fluorophenyl)- β, δ -dihydroxy-5-isopropyl-3-phenyl-4-(phenylcarbamoyl)pyrrole-1-heptanoate (1:2). The molecular formula of atorvastatin calcium is $C_{66}H_{68}CaF_2N_4O_{10} \cdot 3H_2O$ and its molecular weight is 1,209.41. 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 insoluble to very slightly soluble in distilled water, in pH 7.4 phosphate buffer, and in acetonitrile; very slightly soluble to soluble in alcohol (99.9%); and soluble to freely soluble in methanol.

Atorvastatin calcium tablets, USP for oral use contain atorvastatin 10 mg, 20 mg, 40 mg, or 80 mg (equivalent to 10.36 mg, 20.72 mg, 41.44 mg, or 82.88 mg atorvastatin calcium anhydrous) and the following inactive ingredients: calcium carbonate, croscarmellose sodium, hydroxypropyl cellulose, lactose monohydrate, magnesium stearate, microcrystalline cellulose, Opadry White YS-1-7040 (hypromellose, polyethylene glycol, talc, titanium dioxide) and polysorbate 80.

Meets USP Dissolution Test 3.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Atorvastatin 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 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 also reduces LDL production and the number of LDL particles.

12.2 Pharmacodynamics

Atorvastatin, 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 is rapidly absorbed after oral administration; maximum plasma concentrations occur within 1 to 2 hours. Extent of absorption increases in proportion to atorvastatin 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 is given with or without food. Plasma atorvastatin 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 is approximately 381 liters. Atorvastatin 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 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. Approximately 70% of circulating inhibitory activity for HMG-CoA reductase is attributed to active metabolites. *In vitro* studies suggest the importance of atorvastatin metabolism by cytochrome P450 3A4, consistent with increased plasma concentrations of atorvastatin 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 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 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 is recovered in urine following oral administration.

Specific Populations

Geriatric

Plasma concentrations of atorvastatin 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 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 between males and females.

Renal Impairment

Renal disease has no influence on the plasma concentrations or LDL-C reduction of atorvastatin [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 since the drug is extensively bound to plasma proteins.

Hepatic Impairment

In patients with chronic alcoholic liver disease, plasma concentrations of atorvastatin 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 200 mg BID ^b , 7 days	10 mg SD ^c	9.36	8.58
#Glecaprevir 400 mg QD ^a /pibrentasvir 120 mg QD ^a , 7 days	10 mg 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 400 mg 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 QD ^{a,*}	40 mg SD ^c	1.37	1.16
Diltiazem 240 mg QD ^a , 28 days	40 mg SD ^c	1.51	1.00
Erythromycin 500 mg QID ^e , 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 600 mg BID ^b , 7 days	40 mg SD ^c	1.35	1.00
#Fenofibrate 160 mg QD ^a , 7 days	40 mg 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.

- a Once daily
- b Twice daily
- c Single dosage
- d Three times daily
- e Four times daily
- f Every 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 Cmax
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 1 mg - ethinyl estradiol 35 mcg	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.

- a Once daily
- b Twice daily
- c Single dosage

Atorvastatin 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

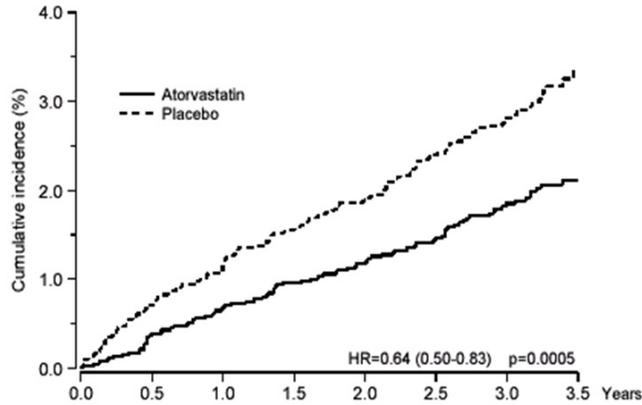
Prevention of Cardiovascular Disease

In the Anglo-Scandinavian Cardiac Outcomes Trial (ASCOT), the effect of atorvastatin 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 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 on lipid levels was similar to that seen in previous clinical trials.

Atorvastatin significantly reduced the rate of coronary events [either fatal coronary heart disease (46 events in the placebo group vs. 40 events in the atorvastatin group) or non-fatal MI (108 events in the placebo group vs. 60 events in the atorvastatin group)] with a relative risk reduction of 36% [(based on incidences of 1.9% for atorvastatin 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 was seen regardless of baseline LDL levels.

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



Atorvastatin also significantly decreased the relative risk for revascularization procedures by 42% (incidences of 1.4% for atorvastatin 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 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 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 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 HbA1c 7.7%; median LDL-C 120 mg/dL; median TC 207 mg/dL; median TG 151 mg/dL; median HDL-C 52 mg/dL.

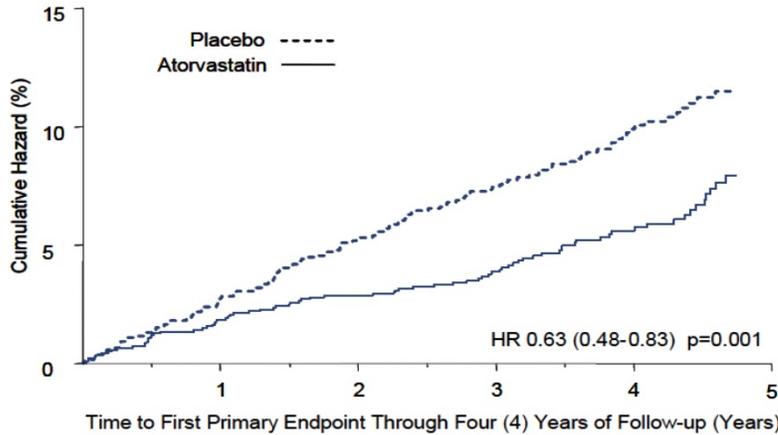
The effect of atorvastatin 10 mg/day on lipid levels was similar to that seen in previous clinical trials.

Atorvastatin significantly reduced the rate of major cardiovascular events (primary endpoint events) (83 events in the atorvastatin 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 was seen regardless of age, sex, or baseline lipid levels.

Atorvastatin significantly reduced the risk of stroke by 48% (21 events in the atorvastatin 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 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 group vs. 82 deaths in the placebo group (HR 0.73, $p=0.059$).

Figure 2: Effect of Atorvastatin 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 80 mg/day vs. atorvastatin 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 10 mg/day. Subjects were randomly assigned to either 10 mg/day or 80 mg/day of atorvastatin 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 and 99, 177, 152, 129, and 48 mg/dL during treatment with 10 mg of atorvastatin.

Treatment with atorvastatin 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 80 mg/day vs. 10 mg/day on Time to Occurrence of Major Cardiovascular Events (TNT)

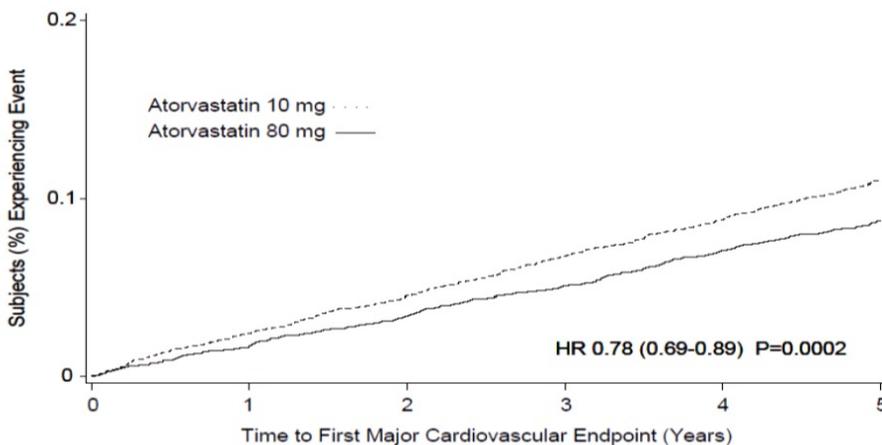


Table 7: Overview of Efficacy Results in TNT

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 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 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 80 mg group than in the atorvastatin 10 mg treatment group. The proportions of subjects who experienced noncardiovascular death were numerically larger in the atorvastatin 80 mg group than in the atorvastatin 10 mg treatment group.

Primary Hyperlipidemia in Adults

Atorvastatin 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 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

^a Results are pooled from 2 dose-response trials.

In three multicenter, double-blind trials in patients with hyperlipidemia, atorvastatin was compared to other statins. After randomization, patients were treated for 16 weeks with either atorvastatin 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 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 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 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

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

^a Significantly different from lovastatin, ANCOVA, $p \leq 0.05$

^b Significantly different from pravastatin, ANCOVA, $p \leq 0.05$

^c Significantly different from simvastatin, ANCOVA, $p \leq 0.05$

Table 9 does not contain data comparing the effects of atorvastatin 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 in 64 patients with isolated hypertriglyceridemia treated across several clinical trials is shown in the table below (Table 10). For the atorvastatin-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 10 mg (N=37)	Atorvastatin 20 mg (N=13)	Atorvastatin 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 (min, max) at Baseline (mg/dL)	Median % Change (min, max)	
		Atorvastatin 10 mg	Atorvastatin 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. 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 (n=140) or placebo (n=47) for 26 weeks and then all received atorvastatin for 26 weeks. Inclusion in the trial required 1) a baseline LDL-C level \geq 190 mg/dL or 2) a baseline LDL-C level \geq 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 group compared to 230 mg/dL (range: 160 to 325 mg/dL) in the placebo group. The dosage of atorvastatin (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-treated patients who required uptitration to 20 mg after Week 4 during the double-blind phase was 78 (56%).

Atorvastatin 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 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	140	-31.4	-39.6	2.8	-12.0	-34.0

The mean achieved LDL-C value was 130.7 mg/dL (range: 70 to 242 mg/dL) in the atorvastatin group compared to 228.5 mg/dL (range: 152 to 385 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 of atorvastatin: white to off-white, oval shaped, biconvex, film coated tablets debossed with "LA37" on one side and plain on the other side.

Bottles of 30	NDC 42385-940-30
Bottles of 90	NDC 42385-940-90
Bottles of 100	NDC 42385-940-01
Bottles of 500	NDC 42385-940-05
Bottles of 1,000	NDC 42385-940-11
Carton with 100 (10 x 10) Unit-Dose Tablets	NDC 42385-940-68

20 mg of atorvastatin: white to off-white, oval shaped, biconvex, film coated tablets debossed with "LA38" on one side and plain on the other side.

Bottles of 30	NDC 42385-941-30
Bottles of 90	NDC 42385-941-90
Bottles of 100	NDC 42385-941-01
Bottles of 500	NDC 42385-941-05
Bottles of 1,000	NDC 42385-941-11
Carton with 100 (10 x 10) Unit-Dose Tablets	NDC 42385-941-68

40 mg of atorvastatin: white to off-white, oval shaped, biconvex, film coated tablets debossed with "LA39" on one side and plain on the other side.

Bottles of 30	NDC 42385-942-30
Bottles of 90	NDC 42385-942-90
Bottles of 100	NDC 42385-942-01
Bottles of 500	NDC 42385-942-05
Bottles of 1,000	NDC 42385-942-11
Carton with 100 (10 x 10) Unit-Dose Tablets	NDC 42385-942-68

80 mg of atorvastatin: white to off-white, oval shaped, biconvex, film coated tablets debossed with "LA8" on one side and plain on the other side.

Bottles of 30	NDC 42385-943-30
Bottles of 90	NDC 42385-943-90
Bottles of 100	NDC 42385-943-01
Bottles of 500	NDC 42385-943-05
Bottles of 1,000	NDC 42385-943-11
Carton with 64 (8 x 8) Unit-Dose Tablets	NDC 42385-943-64
Carton with 100 (10 x 10) Unit-Dose Tablets	NDC 42385-943-68

Storage

Store at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°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 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 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. 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 should be discontinued [see *Use in Specific Populations (8.1)*].

Lactation

Advise patients that breastfeeding is not recommended during treatment with atorvastatin [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.

The brands listed are trademarks of their respective owners and are not trademarks of Laurus Labs Limited.

Dispense with Patient Information available at:

<https://www.laurusgenerics.us/patient-info/ator-tabs.pdf>

Manufactured for:

Laurus Generics Inc.

400 Connell Drive, Suite 5200

Berkeley Heights, NJ 07922

Manufactured by:

Laurus Labs Limited

Anakapalli-531011

India

PATIENT INFORMATION

<p style="text-align: center;">Patient Information Atorvastatin Calcium (a tor'' va stat' in kal' see um) Tablets, USP, for oral use</p>
<p>What are atorvastatin calcium tablets?</p> <p>Atorvastatin calcium tablets are a prescription medicine that contains a cholesterol lowering medicine (statin) called atorvastatin. Atorvastatin calcium tablets are used:</p> <ul style="list-style-type: none">• to reduce the risk of:<ul style="list-style-type: none">◦ 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 are 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)
 - o tipranavir plus ritonavir
 - o ledipasvir plus sofosbuvir
 - o saquinavir plus ritonavir
 - o fosamprenavir
 - o elbasvir plus grazoprevir
 - o nelfinavir
 - o glecaprevir plus pibrentasvir
 - o simeprevir
 - o darunavir plus ritonavir
 - o fosamprenavir plus ritonavir
 - o letemovir

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 many 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
- diarrhea
- muscle and joint pain
- 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?

- 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 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?

Active Ingredient: atorvastatin calcium USP

Inactive Ingredients: calcium carbonate, croscarmellose sodium, hydroxypropyl cellulose, lactose monohydrate, magnesium stearate, microcrystalline cellulose, Opadry White YS-1-7040 (hypromellose, polyethylene glycol, talc, titanium dioxide) and polysorbate 80.

For more information, call Laurus Generics Inc. at 1-833-3-LAURUS (1-833-352-8787).

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

Dispense with Patient Information available at:
<https://www.laurusgenerics.us/patient-info/ator-tabs.pdf>

Manufactured for:

Laurus Generics Inc.

400 Connell Drive, Suite 5200
Berkeley Heights, NJ 07922

Manufactured by:

Laurus Labs Limited

Anakapalli-531011
India

Revised: 4/2024

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL - 10 mg - Container Label (30's count)

NDC 42385-940-30

Atorvastatin Calcium Tablets, USP 10 mg*

30 Tablets Rx Only

Laurus Labs

*Each tablet contains atorvastatin 10 mg (equivalent to 10.36 mg atorvastatin calcium anhydrous USP).

Usual Dosage: See package insert for full prescribing information.

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

Dispense in tight containers (USP).

M. L. No.: 16/VSP/AP/2015/F&B/CC

NDC 42385-940-30

**Atorvastatin
Calcium
Tablets, USP**

10 mg*

30 Tablets

Rx Only



Manufactured for:
Laurus Generics Inc.
400 Connell Drive
Suite 5200
Berkeley Heights, NJ 07922

Manufactured by:
Laurus Labs Limited
Anakapalli-531011
India 2002621



PACKAGE LABEL.PRINCIPAL DISPLAY PANEL -10 mg - Blister Carton - 100 (10 x 10) Unit-Dose Tablets

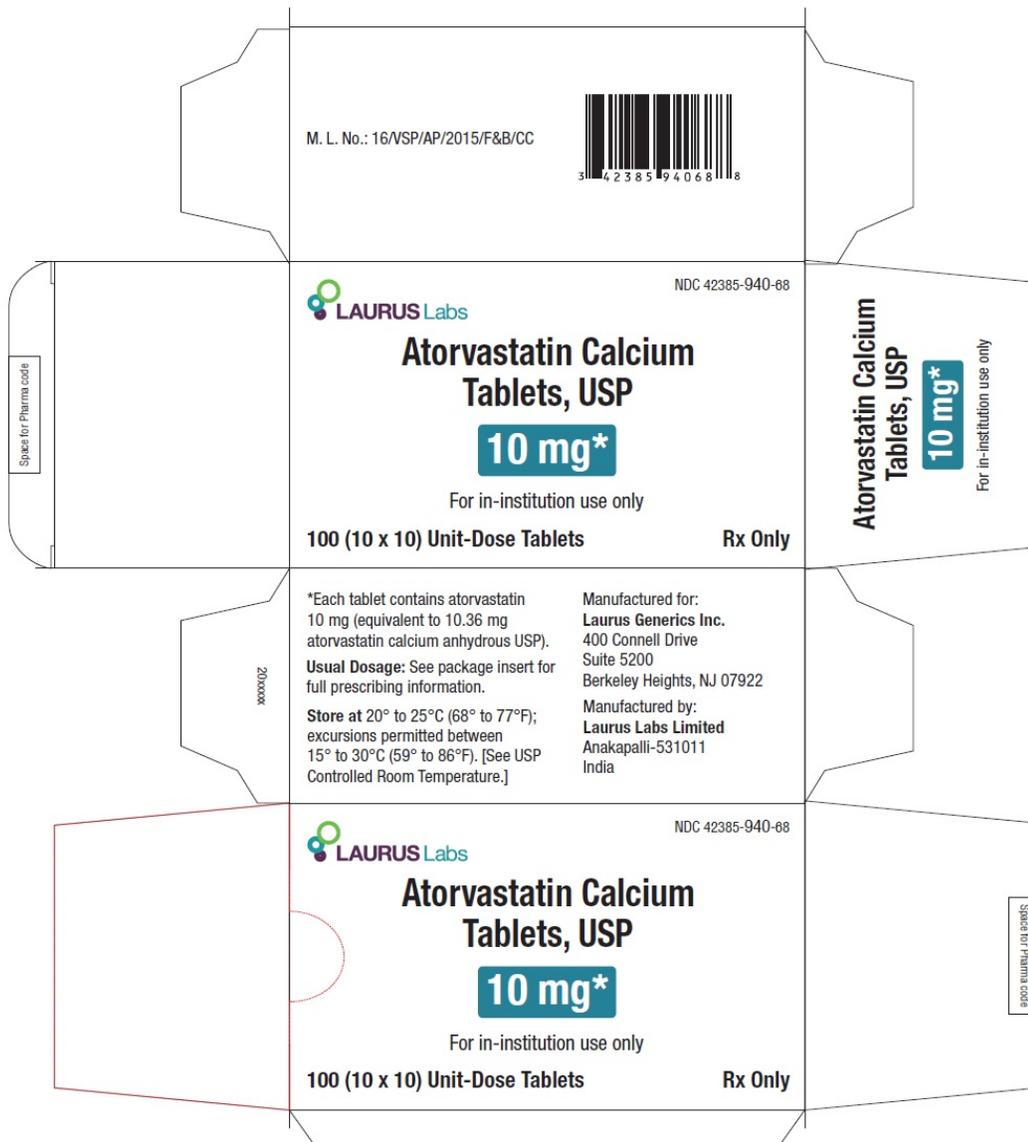
NDC 42385-940-68

Laurus Labs

Atorvastatin Calcium Tablets, USP 10 mg*

For in-institution use only

100 (10 x 10) Unit-Dose Tablets Rx Only



PACKAGE LABEL.PRINCIPAL DISPLAY PANEL - 10 mg - Blister (1 x 10's count)

Rx Only NDC 42385-940-10

Atorvastatin Calcium Tablet, USP 10 mg

Mfd.by: Laurus Labs Limited

M.L.No.:16/VSP/AP/2015/F&B/CC

Rx Only NDC 42385-940-10

**Atorvastatin Calcium
Tablet, USP**

10 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



Rx Only NDC 42385-940-10

**Atorvastatin Calcium
Tablet, USP**

10 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



Rx Only NDC 42385-940-10

**Atorvastatin Calcium
Tablet, USP**

10 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



Rx Only NDC 42385-940-10

**Atorvastatin Calcium
Tablet, USP**

10 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



Rx Only NDC 42385-940-10

**Atorvastatin Calcium
Tablet, USP**

10 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



Rx Only NDC 42385-940-10

**Atorvastatin Calcium
Tablet, USP**

10 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



Rx Only NDC 42385-940-10

**Atorvastatin Calcium
Tablet, USP**

10 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



Rx Only NDC 42385-940-10

**Atorvastatin Calcium
Tablet, USP**

10 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



Rx Only NDC 42385-940-10

**Atorvastatin Calcium
Tablet, USP**

10 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



Rx Only NDC 42385-940-10

**Atorvastatin Calcium
Tablet, USP**

10 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



20xxxxx

count)

NDC 42385-941-30

Atorvastatin Calcium Tablets, USP 20 mg*

30 Tablets Rx Only

Laurus Labs

<p>*Each tablet contains atorvastatin 20 mg (equivalent to 20.72 mg atorvastatin calcium anhydrous USP).</p> <p>Usual Dosage: See package insert for full prescribing information.</p> <p>Store at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F). [See USP Controlled Room Temperature.]</p> <p>Dispense in tight containers (USP).</p> <p>M. L. No.: 16/VSP/AP/2015/F&B/CC</p>	<p>NDC 42385-941-30</p> <p>Atorvastatin Calcium Tablets, USP</p> <p>20 mg*</p> <p>30 Tablets Rx Only</p> <p></p>	<p>Manufactured for: Laurus Generics Inc. 400 Connell Drive Suite 5200 Berkeley Heights, NJ 07922</p> <p>Manufactured by: Laurus Labs Limited Anakapalli-531011 India</p> <p>2002622</p>	 <p>3 42385 941301 2</p>
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PACKAGE LABEL.PRINCIPAL DISPLAY PANEL - 20 mg - Blister Carton - 100 (10 x 10) Unit-Dose Tablets

NDC 42385-941-68

Laurus Labs

Atorvastatin Calcium Tablets, USP 20 mg*

For in-institution use only

100 (10 x 10) Unit-Dose Tablets Rx Only



PACKAGE LABEL.PRINCIPAL DISPLAY PANEL - 20 mg - Blister (1 x 10's count)

Rx Only NDC 42385-941-10

Atorvastatin Calcium Tablet, USP 20 mg

Mfd.by: Laurus Labs Limited

M.L.No.:16/VSP/AP/2015/F&B/CC



20xxxxx

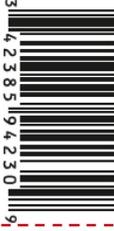
PACKAGE LABEL.PRINCIPAL DISPLAY PANEL - 40 mg - Container Label (30's count)

NDC 42385-942-30

Atorvastatin Calcium Tablets, USP 40 mg*

30 Tablets Rx Only

Laurus Labs

<p>*Each tablet contains atorvastatin 40 mg (equivalent to 41.44 mg atorvastatin calcium anhydrous USP).</p> <p>Usual Dosage: See package insert for full prescribing information.</p> <p>Store at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F). [See USP Controlled Room Temperature.]</p> <p>Dispense in tight containers (USP).</p> <p>M. L. No.: 16/VSP/AP/2015/F&B/CC</p>	<p>NDC 42385-942-30</p> <p>Atorvastatin Calcium Tablets, USP</p> <p>40 mg*</p> <p>30 Tablets Rx Only</p> <p> LAURUS Labs</p>	<p>Manufactured for: Laurus Generics Inc. 400 Connell Drive Suite 5200 Berkeley Heights, NJ 07922</p> <p>Manufactured by: Laurus Labs Limited Anakapalli-531011 India</p> <p>2002623</p> 
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PACKAGE LABEL.PRINCIPAL DISPLAY PANEL - 40 mg - Blister Carton - 100 (10 x 10) Unit-Dose Tablets

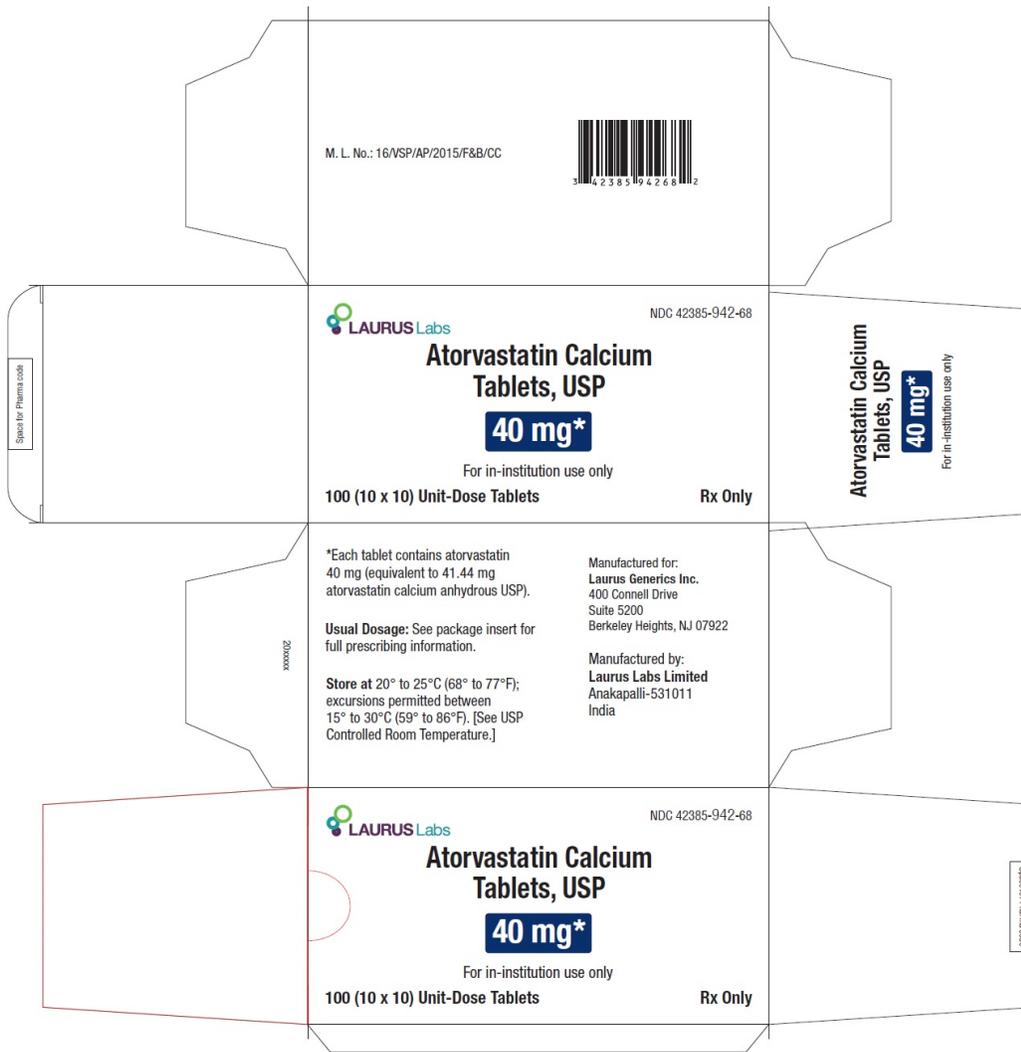
NDC 42385-942-68

Laurus Labs

Atorvastatin Calcium Tablets, USP 40 mg*

For in-institution use only

100 (10 x 10) Unit-Dose Tablets Rx Only



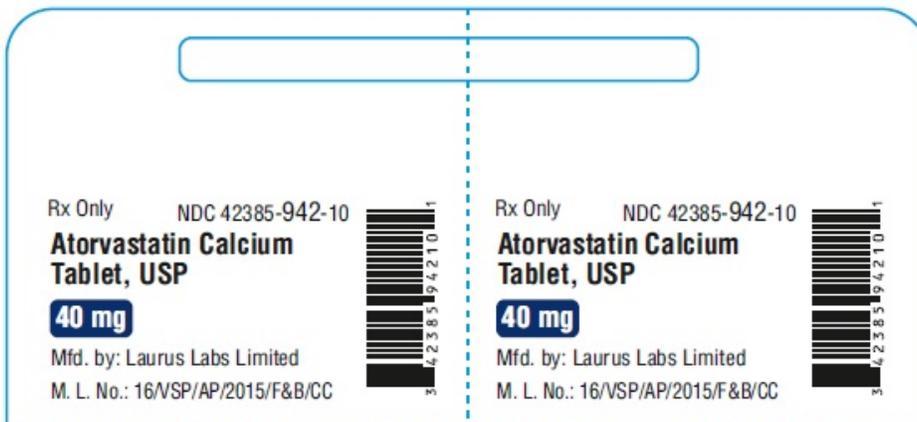
PACKAGE LABEL.PRINCIPAL DISPLAY PANEL - 40 mg - Blister (1 x 10's count)

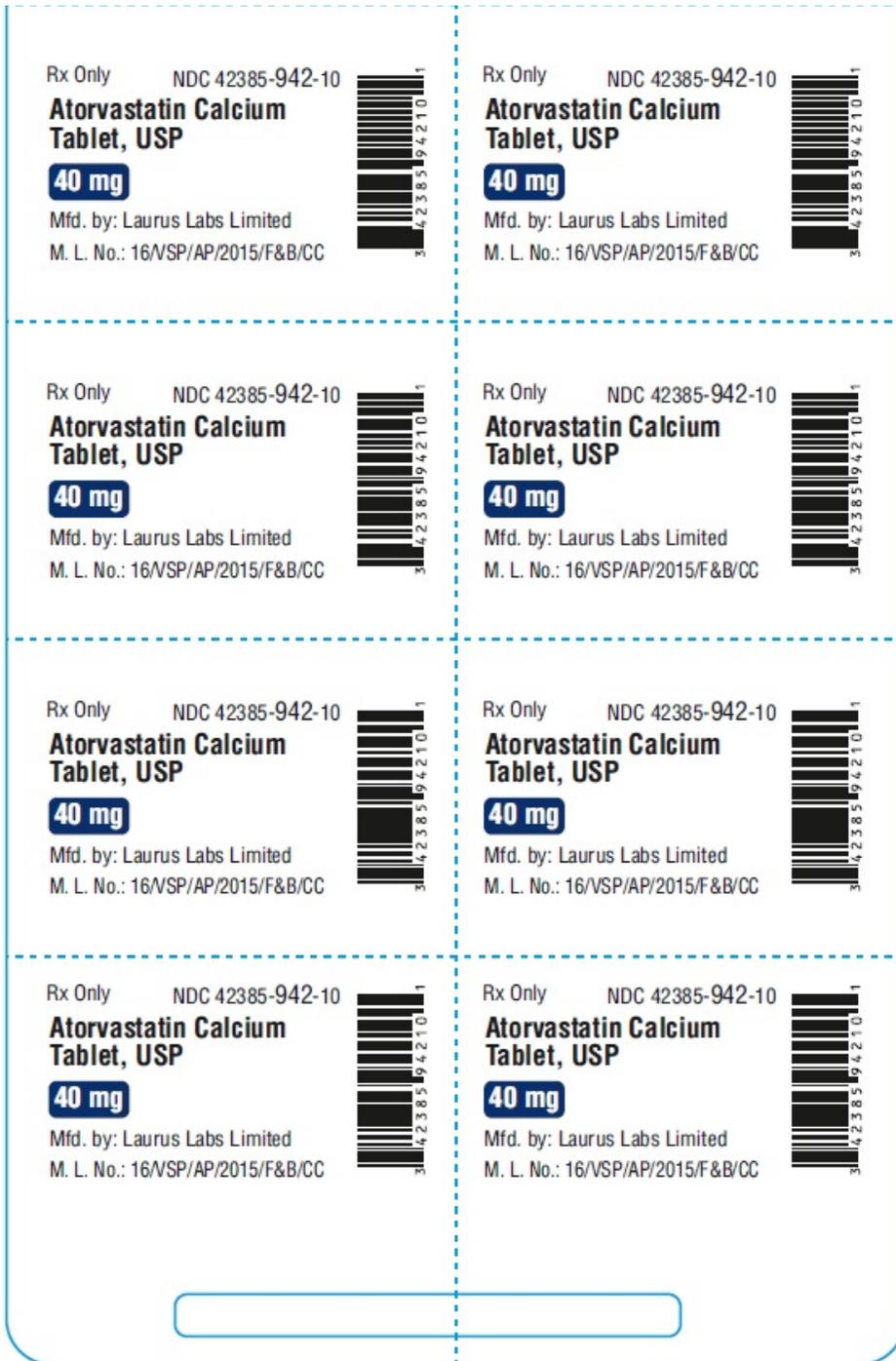
Rx Only NDC 42385-942-10

Atorvastatin Calcium Tablet, USP 40 mg

Mfd.by: Laurus Labs Limited

M.L.No.:16/VSP/AP/2015/F&B/CC





20xxxxx

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL - 80 mg - Container Label (30's count)

NDC 42385-943-30

Atorvastatin Calcium Tablets, USP 80 mg*

30 Tablets Rx Only

Laurus Labs

*Each tablet contains atorvastatin
80 mg (equivalent to 82.88 mg
atorvastatin calcium anhydrous USP).

Usual Dosage: See package insert
for full prescribing information.

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

Dispense in tight containers (USP).

M. L. No.: 16/VSP/AP/2015/F&B/CC

NDC 42385-943-30

**Atorvastatin
Calcium
Tablets, USP**

80 mg*

30 Tablets

Rx Only



Manufactured for:
Laurus Generics Inc.
400 Connell Drive
Suite 5200
Berkeley Heights, NJ 07922

Manufactured by:
Laurus Labs Limited
Anakapalli-531011
India

2002624



PACKAGE LABEL.PRINCIPAL DISPLAY PANEL - 80 mg - Blister Carton - 64 (8 x 8) Unit-Dose Tablets

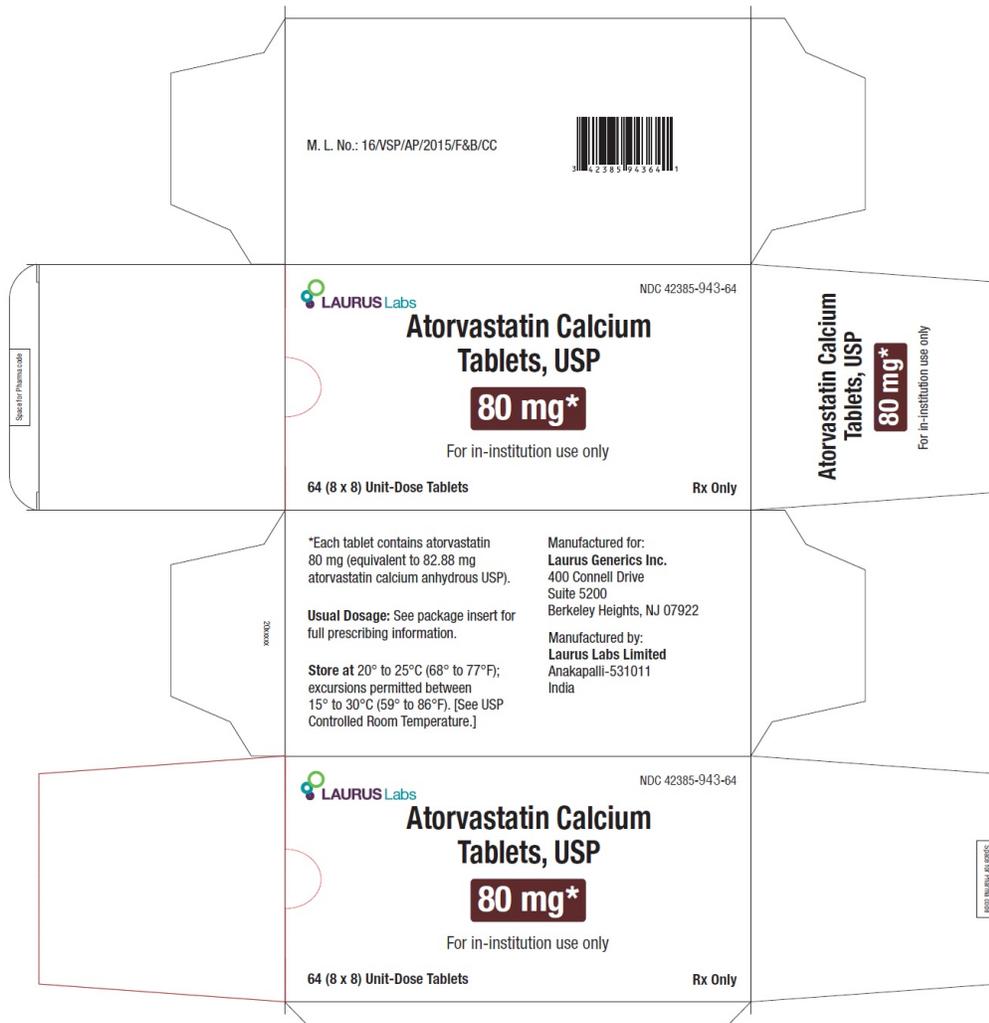
NDC 42385-943-64

Laurus Labs

Atorvastatin Calcium Tablets, USP 80 mg*

For in-institution use only

64 (8 x 8) Unit-Dose Tablets Rx Only



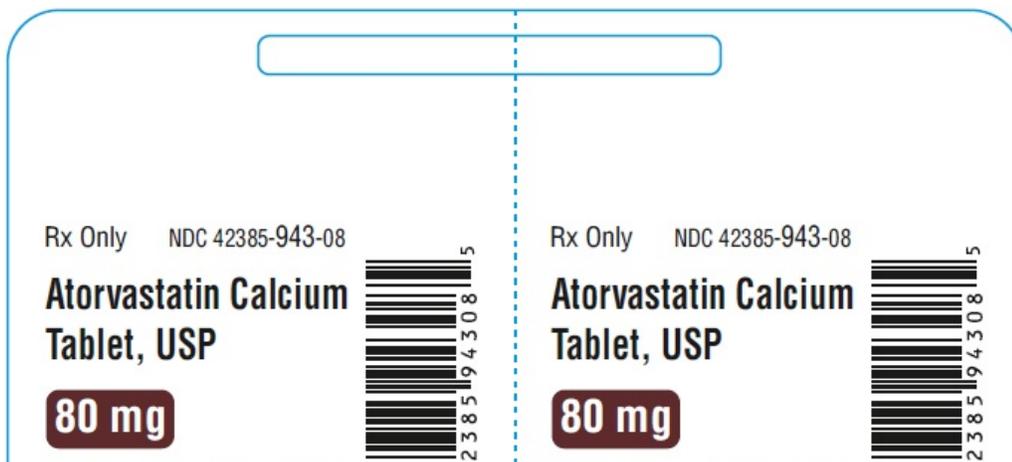
PACKAGE LABEL.PRINCIPAL DISPLAY PANEL - 80 mg - Blister (1 x 8's count)

Rx Only NDC 42385-943-08

Atorvastatin Calcium Tablet, USP 80 mg

Mfd.by: Laurus Labs Limited

M.L.No.:16/VSP/AP/2015/F&B/CC



Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



Rx Only NDC 42385-943-08

**Atorvastatin Calcium
Tablet, USP**

80 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



Rx Only NDC 42385-943-08

**Atorvastatin Calcium
Tablet, USP**

80 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



Rx Only NDC 42385-943-08

**Atorvastatin Calcium
Tablet, USP**

80 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



Rx Only NDC 42385-943-08

**Atorvastatin Calcium
Tablet, USP**

80 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



Rx Only NDC 42385-943-08

**Atorvastatin Calcium
Tablet, USP**

80 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



Rx Only NDC 42385-943-08

**Atorvastatin Calcium
Tablet, USP**

80 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



20xxxxx

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL - 80 mg - Blister Carton - 100 (10 x 10) Unit-Dose Tablets

NDC 42385-943-68

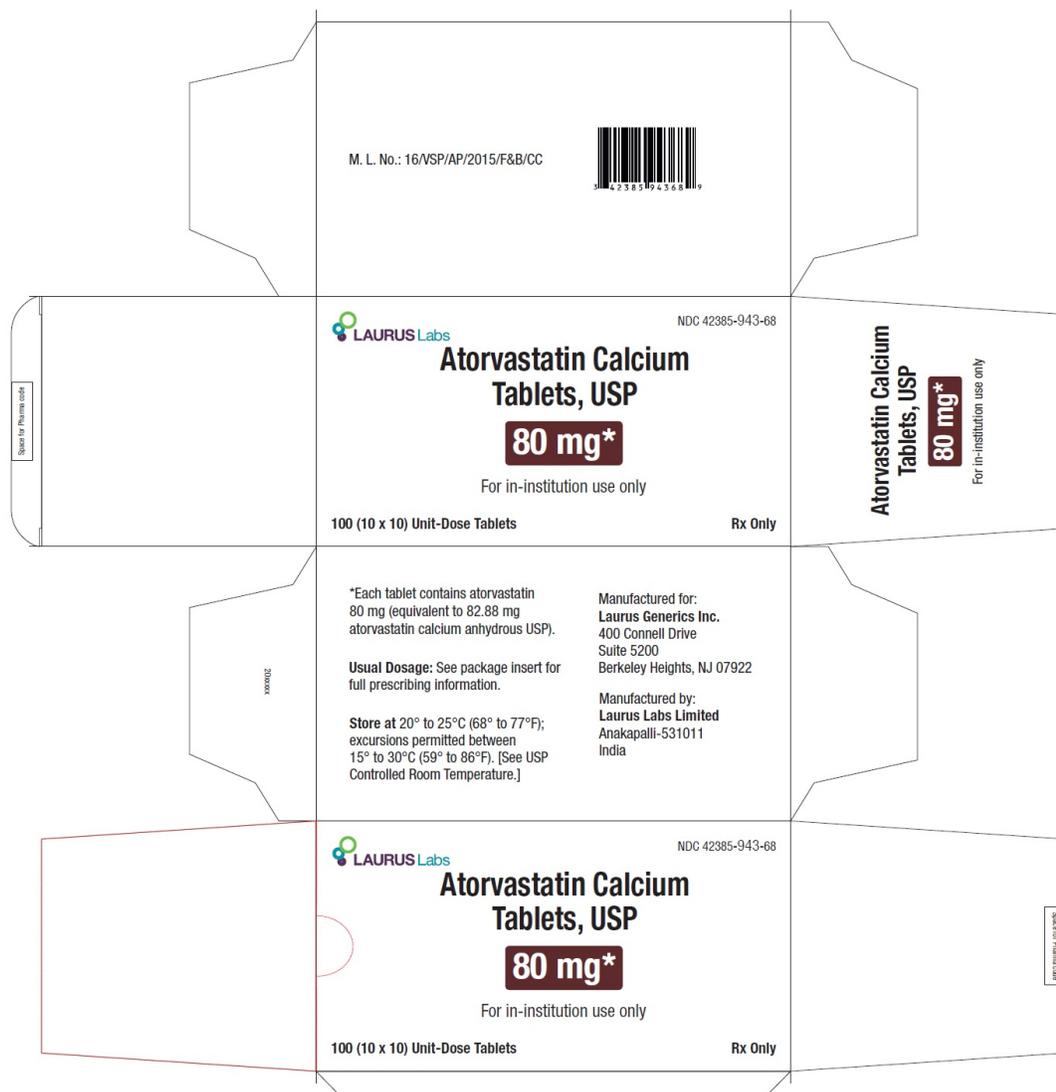
Laurus Labs

Atorvastatin Calcium Tablets, USP 80 mg*

For in-institution use only

100 (10 x 10) Unit-Dose Tablets

Rx Only



PACKAGE LABEL.PRINCIPAL DISPLAY PANEL - 80 mg - Blister (1 x 10's count)

Rx Only

NDC 42385-943-10

Atorvastatin Calcium Tablet, USP 80 mg

Mfd.by: Laurus Labs Limited

M.L.No.:16/VSP/AP/2015/F&B/CC



Rx Only NDC 42385-943-10
**Atorvastatin Calcium
Tablet, USP**
80 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



Rx Only NDC 42385-943-10
**Atorvastatin Calcium
Tablet, USP**
80 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



Rx Only NDC 42385-943-10
**Atorvastatin Calcium
Tablet, USP**
80 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



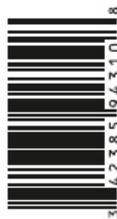
Rx Only NDC 42385-943-10
**Atorvastatin Calcium
Tablet, USP**
80 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



Rx Only NDC 42385-943-10
**Atorvastatin Calcium
Tablet, USP**
80 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



Rx Only NDC 42385-943-10
**Atorvastatin Calcium
Tablet, USP**
80 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



Rx Only NDC 42385-943-10
**Atorvastatin Calcium
Tablet, USP**
80 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



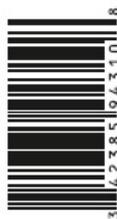
Rx Only NDC 42385-943-10
**Atorvastatin Calcium
Tablet, USP**
80 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



Rx Only NDC 42385-943-10
**Atorvastatin Calcium
Tablet, USP**
80 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



Rx Only NDC 42385-943-10
**Atorvastatin Calcium
Tablet, USP**
80 mg

Mfd. by: Laurus Labs Limited
M. L. No.: 16/VSP/AP/2015/F&B/CC



ATORVASTATIN CALCIUM

atorvastatin calcium tablet, film coated

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:42385-940
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ATORVASTATIN CALCIUM TRIHYDRATE (UNII: 48A5M73Z4Q) (ATORVASTATIN - UNII:A0JVA85V8F)	ATORVASTATIN	10 mg

Inactive Ingredients

Ingredient Name	Strength
CALCIUM CARBONATE (UNII: H0G9379FGK)	
CROSCARMELLOSE SODIUM (UNII: M28OL1HH48)	
HYDROXYPROPYL CELLULOSE (90000 WAMW) (UNII: UKE75GEA7F)	
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
HYPROMELLOSE 2910 (6 MPA.S) (UNII: 0WZ8WG20P6)	
POLYETHYLENE GLYCOL 8000 (UNII: Q662QK8M3B)	
TALC (UNII: 7SEV7J4R1U)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
POLYSORBATE 80 (UNII: 6OZP39ZG8H)	

Product Characteristics

Color	WHITE (White to off-white)	Score	no score
Shape	OVAL (Oval, Biconvex)	Size	10mm
Flavor		Imprint Code	LA37
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:42385-940-30	30 in 1 BOTTLE; Type 0: Not a Combination Product	01/23/2024	
2	NDC:42385-940-90	90 in 1 BOTTLE; Type 0: Not a Combination Product	01/23/2024	
3	NDC:42385-940-01	100 in 1 BOTTLE; Type 0: Not a Combination Product	01/23/2024	
4	NDC:42385-940-05	500 in 1 BOTTLE; Type 0: Not a Combination Product	01/23/2024	
5	NDC:42385-940-11	1000 in 1 BOTTLE; Type 0: Not a Combination Product	01/23/2024	
6	NDC:42385-940-68	10 in 1 CARTON	01/23/2024	
6	NDC:42385-940-10	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
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ANDA	ANDA214513	01/23/2024	
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ATORVASTATIN CALCIUM

atorvastatin calcium tablet, film coated

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:42385-941
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
CALCIUM CARBONATE (UNII: H0G9379FGK)	
CROSCARMELLOSE SODIUM (UNII: M28OL1HH48)	
HYDROXYPROPYL CELLULOSE (90000 WAMW) (UNII: UKE75GEA7F)	
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
HYPROMELLOSE 2910 (6 MPA.S) (UNII: 0WZ8WG20P6)	
POLYETHYLENE GLYCOL 8000 (UNII: Q662QK8M3B)	
TALC (UNII: 7SEV7J4R1U)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
POLYSORBATE 80 (UNII: 6OZP39ZG8H)	

Product Characteristics

Color	WHITE (White to off-white)	Score	no score
Shape	OVAL (Oval, Biconvex)	Size	12mm
Flavor		Imprint Code	LA38
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:42385-941-30	30 in 1 BOTTLE; Type 0: Not a Combination Product	01/23/2024	
2	NDC:42385-941-90	90 in 1 BOTTLE; Type 0: Not a Combination Product	01/23/2024	
3	NDC:42385-941-01	100 in 1 BOTTLE; Type 0: Not a Combination Product	01/23/2024	
4	NDC:42385-941-05	500 in 1 BOTTLE; Type 0: Not a Combination Product	01/23/2024	
5	NDC:42385-941-11	1000 in 1 BOTTLE; Type 0: Not a Combination Product	01/23/2024	
6	NDC:42385-941-68	10 in 1 CARTON	01/23/2024	
6	NDC:42385-941-10	10 in 1 BLISTER PACK; Type 0: Not a Combination Product		

Marketing Information

Marketing	Application Number or Monograph	Marketing Start	Marketing End
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Category	Citation	Date	Date
ANDA	ANDA214513	01/23/2024	

ATORVASTATIN CALCIUM

atorvastatin calcium tablet, film coated

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:42385-942
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ATORVASTATIN CALCIUM TRIHYDRATE (UNII: 48A5M73Z4Q) (ATORVASTATIN - UNII:A0JWA85V8F)	ATORVASTATIN	40 mg

Inactive Ingredients

Ingredient Name	Strength
CALCIUM CARBONATE (UNII: H0G9379FGK)	
CROSCARMELOSE SODIUM (UNII: M28OL1HH48)	
HYDROXYPROPYL CELLULOSE (90000 WAMW) (UNII: UKE75GEA7F)	
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
HYPROMELLOSE 2910 (6 MPA.S) (UNII: 0WZ8WG20P6)	
POLYETHYLENE GLYCOL 8000 (UNII: Q662QK8M3B)	
TALC (UNII: 7SEV7J4R1U)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
POLYSORBATE 80 (UNII: 6OZP39ZG8H)	

Product Characteristics

Color	WHITE (White to off-white)	Score	no score
Shape	OVAL (Oval, Biconvex)	Size	16mm
Flavor		Imprint Code	LA39
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:42385-942-30	30 in 1 BOTTLE; Type 0: Not a Combination Product	01/23/2024	
2	NDC:42385-942-90	90 in 1 BOTTLE; Type 0: Not a Combination Product	01/23/2024	
3	NDC:42385-942-01	100 in 1 BOTTLE; Type 0: Not a Combination Product	01/23/2024	
4	NDC:42385-942-05	500 in 1 BOTTLE; Type 0: Not a Combination Product	01/23/2024	
5	NDC:42385-942-11	1000 in 1 BOTTLE; Type 0: Not a Combination Product	01/23/2024	
6	NDC:42385-942-68	10 in 1 CARTON	01/23/2024	
6	NDC:42385-942-10	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	ANDA214513	01/23/2024	

ATORVASTATIN CALCIUM

atorvastatin calcium tablet, film coated

Product Information				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:42385-943	
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	
CALCIUM CARBONATE (UNII: H0G9379FGK)				
CROSCARMELLOSE SODIUM (UNII: M280L1HH48)				
HYDROXYPROPYL CELLULOSE (90000 WAMW) (UNII: UKE75GEA7F)				
LACTOSE MONOHYDRATE (UNII: EWQ57Q815X)				
MAGNESIUM STEARATE (UNII: 70097M6I30)				
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)				
HYPROMELLOSE 2910 (6 MPA.S) (UNII: 0WZ8WG20P6)				
POLYETHYLENE GLYCOL 8000 (UNII: Q662QK8M3B)				
TALC (UNII: 7SEV7J4R1U)				
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)				
POLYSORBATE 80 (UNII: 6OZP39ZG8H)				
Product Characteristics				
Color	WHITE (White to off-white)	Score	no score	
Shape	OVAL (Oval, Biconvex)	Size	19mm	
Flavor		Imprint Code	LA8	
Contains				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:42385-943-30	30 in 1 BOTTLE; Type 0: Not a Combination Product	01/23/2024	
2	NDC:42385-943-90	90 in 1 BOTTLE; Type 0: Not a Combination Product	01/23/2024	
3	NDC:42385-943-01	100 in 1 BOTTLE; Type 0: Not a Combination Product	01/23/2024	
4	NDC:42385-943-05	500 in 1 BOTTLE; Type 0: Not a Combination Product	01/23/2024	
5	NDC:42385-943-11	1000 in 1 BOTTLE; Type 0: Not a Combination Product	01/23/2024	
6	NDC:42385-943-64	08 in 1 CARTON	01/23/2024	
6	NDC:42385-943-08	8 in 1 BLISTER PACK; Type 0: Not a Combination Product		
7	NDC:42385-943-68	10 in 1 CARTON	01/23/2024	
7	NDC:42385-	10 in 1 BLISTER PACK; Type 0: Not a Combination		

943-10	Product		
Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA214513	01/23/2024	

Labeler - Laurus Labs Limited (915075687)

Establishment			
Name	Address	ID/FEI	Business Operations
Laurus Labs Limited (VSP2)		650885309	ANALYSIS(42385-940, 42385-941, 42385-942, 42385-943) , MANUFACTURE(42385-940, 42385-941, 42385-942, 42385-943)

Revised: 4/2024

Laurus Labs Limited