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#### **HIGHLIGHTS OF PRESCRIBING INFORMATION**

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

# ROSUVASTATIN tablets, for oral use Initial U.S. Approval: 2003

RECENT MAJOR CHANGES	
Dosage and Administration Modifications Due to Drug Interactions (2.6) Contraindications, Pregnancy and Lactation (4) Warnings and Precautions (5.2) Warnings and Precautions, Concomitant Coumarin Anticoagulants (5.4) INDICATIONS AND USAGE	07/2023 Removed 01/2023 01/2023 Removed 01/2023
<ul> <li>Rosuvastatin tablets are an HMG Co-A reductase inhibitor (statin) indicated:</li> <li>To reduce the risk of stroke, myocardial infarction, and arterial revasculat without established coronary heart disease who are at increased risk of c based on age, hsCRP ≥ 2 mg/L, and at least one additional CV risk factor</li> <li>As an adjunct to diet to reduce LDL-C in adults with primary hyperlipidem</li> <li>As an adjunct to diet to reduce LDL-C in adults and pediatric patients age heterozygous familial hypercholesterolemia (HeFH).</li> <li>As an adjunct to other LDL-C-lowering therapies, or alone if such treatment LDL-C in adults and pediatric patients aged 7 years and older with homoz hypercholesterolemia (HoFH).</li> <li>As an adjunct to diet for the treatment of adults with:</li> </ul>	: (1) rization procedures in adults cardiovascular (CV) disease r. hia. C) and slow the progression of ed 8 years and older with ents are unavailable, to reduce
<ul><li>Primary dysbetalipoproteinemia.</li><li>Hypertriglyceridemia.</li></ul>	
Take orally with or without food, at any time of day. (2.1) Assess LDL-C when clinically appropriate, as early as 4 weeks after initiating adjust dosage if necessary. (2.1) Adults: Recommended dosage range is 5 mg to 40 mg once daily. (2.1) Pediatric Patients with HeFH: Recommended dosage range is 5 mg to 10 m 8 to less than 10 years of age, and 5 mg to 20 mg once daily for patients ag Pediatric Patients with HoFH: Recommended dosage is 20 mg once daily for older. (2.2) Asian Patients: Initiate at 5 mg once daily. Consider risks and benefits of tre controlled at doses up to 20 mg once daily. (2.4) Patients with Severe Renal Impairment (not on hemodialysis): Initiate at 5 r 10 mg once daily. (2.5, 5.1, 8.6) See full prescribing information for rosuvastatin dosage and administration interactions. (2.6)	rosuvastatin tablets, and g once daily for patients aged ged 10 years and older. (2.2) r patients aged 7 years and eatment if not adequately mg once daily; do not exceed modifications due to drug
Tablets: 5 mg, 10 mg, 20 mg, and 40 mg of rosuvastatin. (3)	
<ul> <li>CONTRAINDICATIONS</li> <li>Acute liver failure or decompensated cirrhosis. (4)</li> <li>Hypersensitivity to rosuvastatin or any excipients in rosuvastatin tablets. (4)</li> <li>WARNINGS AND PRECAUTIONS</li> <li>Myopathy and Rhabdomyolysis: Risk factors include age 65 years or great hypothyroidism, renal impairment, concomitant use with certain other dr dosage. Asian patients may be at higher risk for myopathy. Discontinue a elevated CK levels occur or myopathy is diagnosed or suspected. Tempo in patients experiencing an acute or serious condition at high risk of dever</li> </ul>	) ater, uncontrolled ugs, and higher rosuvastatin rosuvastatin if markedly prarily discontinue rosuvastatin

increasing rosuvastatin dosage. Instruct patients to promptly report unexplained muscle pain, tenderness, or weakness, particularly if accompanied by malaise or fever. (5.1, 7.1, 8.5, 8.6, 8.8)

- *Immune-Mediated Necrotizing Myopathy (IMNM):* Rare reports of IMNM, an autoimmune myopathy, have been reported with statin use. Discontinue rosuvastatin 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 rosuvastatin. (4, 5.3, 8.7)

Most frequent adverse reactions (rate  $\geq$  2%) are headache, nausea, myalgia, asthenia, and constipation. (6.1)

#### To report SUSPECTED ADVERSE REACTIONS, contact Amneal Pharmaceuticals at 1-877-835-5472 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

See full prescribing information for details regarding concomitant use of rosuvastatin with other drugs that increase the risk of myopathy and rhabdomyolysis. (2.6, 7.1)

Aluminum and Magnesium Hydroxide Combination Antacids: Administer rosuvastatin tablets at least 2 hours after the antacid. (2.6, 7.2)

*Wafarin*: Obtain INR prior to starting rosuvastatin. Monitor INR frequently until stable upon initiation, dose titration or discontinuation. (7.3)

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• Pregnancy: May cause fetal harm. (8.1)

• Lactation: Breastfeeding not recommended during treatment with rosuvastatin. (8.2)

#### See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling. Revised: 8/2023

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# FULL PRESCRIBING INFORMATION

# **1 INDICATIONS AND USAGE**

Rosuvastatin tablets are indicated:

- To reduce the risk of stroke, myocardial infarction, and arterial revascularization procedures in adults without established coronary heart disease who are at increased risk of cardiovascular (CV) disease based on age, hsCRP ≥ 2 mg/L, and at least one additional CV risk factor.
- As an adjunct to diet to:
  - Reduce LDL-C in adults with primary hyperlipidemia.
  - Reduce low-density lipoprotein cholesterol (LDL-C) and slow the progression of atherosclerosis in adults.
  - Reduce LDL-C in adults and pediatric patients aged 8 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 7 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 General Dosage and Administration Information

Administer rosuvastatin tablets orally as a singledose at any time of day, with or without food. The tablet should be swallowed whole.

- Assess LDL-C when clinically appropriate, as early as 4 weeks after initiating rosuvastatin tablets, and adjust the dosage if necessary.
- If a dose is missed, advise patients not take an extra dose. Resume treatment with the next dose.

### 2.2 Recommended Dosage in Adult Patients

- The dosage range for rosuvastatin tablets are 5 mg to 40 mg orally once daily.
- The recommended dose of rosuvastatin tablets depend on a patient's indication for usage, LDL-C, and individual risk for cardiovascular events.

### 2.3 Recommended Dosage in Pediatric Patients

Dosage in Pediatric Patients 8 Years of Age and Older with HeFH

The recommended dosage range is 5 mg to 10 mg orally once daily in patients aged 8 years to less than 10 years and 5 mg to 20 mg orally once daily in patients aged 10 years and older.

#### Dosage in Pediatric Patients 7 Years of Age and Older with HoFH

The recommended dosage is 20 mg orally once daily.

## 2.4 Dosing in Asian Patients

Initiate rosuvastatin tablets at 5 mg once daily due to increased rosuvastatin plasma concentrations. Consider the risks and benefits of rosuvastatin tablets when treating Asian patients not adequately controlled at doses up to 20 mg once daily [see Warnings and Precautions (5.1), Use in Specific Populations (8.8) and Clinical Pharmacology (12.3)].

#### 2.5 Recommended Dosage in Patients with Renal Impairment

In patients with severe renal impairment ( $CL_{cr}$  less than 30 mL/min/1.73 m<sup>2</sup>) not on hemodialysis, the recommended starting dosage is 5 mg once daily and should not exceed 10 mg once daily [see Warnings and Precautions (5.1) and Use in Specific Populations (8.6)].

There are no dosage adjustment recommendations for patients with mild and moderate renal impairment.

#### 2.6 Dosage and Administration Modifications Due to Drug Interactions

Rosuvastatin Dosage Modifications Due to Drug Interactions

Table 1 displays dosage modifications for rosuvastatin tablets due to drug interactions *[see Warnings and Precautions (5.1)* and *Drug Interactions (7.1)]*.

#### Table 1: Rosuvastatin Dosage Modifications Due to Drug Interactions

Concomitantly Used Drug	Rosuvastatin Dosage Modifications
Cyclosporine	Do not exceed 5 mg once daily.
Teriflunomide	Do not exceed 10 mg once daily.
Enasidenib	Do not exceed 10 mg once daily.
Capmatinib	Do not exceed 10 mg once daily.
Fostamatinib	Do not exceed 20 mg once daily.
Febuxostat	Do not exceed 20 mg once daily.
	Avoid concomitant use. If used

	concomitantly, initiate at 5 mg once daily and do not exceed 10 mg once daily.
Tafamidis	Avoid concomitant use. If used concomitantly, initiate at 5 mg once daily and do not exceed 20 mg once daily.
Antiviral Medications	
<ul> <li>Sofbuvir/velpatasvir/voxilaprevir</li> <li>Ledipasvir/sofosbuvir</li> </ul>	Concomitant use not recommended.
<ul> <li>Simeprevir</li> <li>Dasabuvir/ombitasvir/paritaprevir/ritonavir</li> <li>Elbasvir/Grazoprevir</li> <li>Sofosbuvir/Velpatasvir</li> <li>Glecaprevir/Pibrentasvir</li> <li>Atazanavir/Ritonavir</li> <li>Lopinavir/Ritonavir</li> </ul>	Initiate at 5 mg once daily. Do not exceed 10 mg once daily.
Darolutamide	Do not exceed 5 mg once daily.
Regorafenib	Do not exceed 10 mg once daily.

Rosuvastatin Tablets Administration Modifications Due to Drug Interactions

When taking rosuvastatin tablets with an aluminum and magnesium hydroxide combination antacid, administer rosuvastatin tablets at least 2 hours before the antacid [see Drug Interactions (7.2)].

#### **3 DOSAGE FORMS AND STRENGTHS**

Rosuvastatin Tablets USP, **5 mg** are supplied as yellow colored, round, biconvex, coated tablets, debossed "AA" and "92" on one side and plain on the other side.

Rosuvastatin Tablets USP, **10 mg** are supplied as pink colored, round, biconvex, coated tablets, debossed "AA" and "93" on one side and plain on the other side.

Rosuvastatin Tablets USP, **20 mg** are supplied as pink colored, round, biconvex, coated tablets, debossed "AA" and "94" on one side and plain on the other side.

Rosuvastatin Tablets USP, **40 mg** are supplied as pink colored, oval, biconvex, coated tablets, debossed "AA 95" on one side and plain on the other side.

## **4 CONTRAINDICATIONS**

Rosuvastatin tablets are contraindicated in the following conditions:

- Acute liver failure or decompensated cirrhosis [see Warnings and Precautions (5.3)].
- Hypersensitivity to rosuvastatin or any excipients in rosuvastatin tablets. Hypersensitivity reactions including rash, pruritus, urticaria, and angioedema have been reported with rosuvastatin [see Adverse Reactions (6.1)].

#### **5 WARNINGS AND PRECAUTIONS**

#### 5.1 Myopathy and Rhabdomyolysis

Rosuvastatin 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 with statins, including rosuvastatin.

#### **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 rosuvastatin dosage. Asian patients on rosuvastatin may be at higher risk for myopathy [see Drug Interactions (7.1) and Use in Specific Populations (8.8)]. The myopathy risk is greater in patients taking rosuvastatin 40 mg daily compared with lower rosuvastatin dosages.

## Steps to Prevent or Reduce the Risk of Myopathy and Rhabdomyolysis

The concomitant use of rosuvastatin with cyclosporine or gemfibrozil is not recommended. Rosuvastatin tablets dosage modifications are recommended for patients taking certain antiviral medications, darolutamide, and regorafenib [see Dosage and Administration (2.6)]. Niacin, fibrates, and colchicine may also increase the risk of myopathy and rhabdomyolysis [see Drug Interactions (7.1)].

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

# 5.3 Hepatic Dysfunction

Increases in serum transaminases have been reported with use of rosuvastatin [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. In a pooled analysis of placebo-controlled trials, increases in serum transaminases to more than three times the ULN occurred in 1.1% of patients taking rosuvastatin versus 0.5% of patients treated with placebo. Marked persistent increases of hepatic transaminases have also occurred with rosuvastatin. There have been rare post-marketing reports of fatal and non-fatal hepatic failure in patients taking statins, including rosuvastatin.

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 rosuvastatin initiation and when clinically indicated thereafter. Rosuvastatin 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 rosuvastatin.

## 5.4 Proteinuria and Hematuria

In the rosuvastatin clinical trial program, dipstick-positive proteinuria and microscopic hematuria were observed among rosuvastatin treated patients. These findings were more frequent in patients taking rosuvastatin 40 mg, when compared to lower doses of rosuvastatin or comparator statins, though it was generally transient and was not associated with worsening renal function. Although the clinical significance of this finding is unknown, consider a dose reduction for patients on rosuvastatin therapy with unexplained persistent proteinuria and/or hematuria during routine urinalysis testing.

## 5.5 Increases in HbA1c and Fasting Serum Glucose Levels

Increases in HbA1c and fasting serum glucose levels have been reported with statins, including rosuvastatin. Based on clinical trial data with rosuvastatin, in some instances these increases may exceed the threshold for the diagnosis of diabetes mellitus [see Adverse Reactions (6.1)].

Optimize lifestyle measures, including regular exercise, maintaining a healthy body weight, and making healthy food choices.

# **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)]

Proteinuria and Hematuria [see Warnings and Precautions (5.4)]

Increases in HbA1c and Fasting Serum Glucose Levels [see Warnings and Precautions (5.5)]

# 6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, 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 clinical practice.

Adverse reactions reported in  $\geq 2\%$  of patients in placebo-controlled clinical studies and at a rate greater than placebo are shown in Table 2. These studies had a treatment duration of up to 12 weeks.

# Table 2: Adverse Reactions Reported in $\ge 2\%$ of Patients Treated with Rosuvastatin and > Placebo in Placebo-Controlled Trials

r	Total
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Adverse	Placebo N=382 %	5 mg N=291	10 mg N=283	20 mg N=64	40 mg N=106 %	Rosuvastatin 5 mg to 40 mg N=744 %
Headache	5.0	5.5	4.9	3.1	8.5	5.5
Nausea	3.1	3.8	3.5	6.3	0	3.4
Myalgia	1.3	3.1	2.1	6.3	1.9	2.8
Asthenia	2.6	2.4	3.2	4.7	0.9	2.7
Constipation	2.4	2.1	2.1	4.7	2.8	2.4

Other adverse reactions reported in clinical studies were abdominal pain, dizziness, hypersensitivity (including rash, pruritus, urticaria, and angioedema) and pancreatitis. The following laboratory abnormalities have also been reported: dipstick-positive proteinuria and microscopic hematuria; elevated creatine phosphokinase, transaminases, glucose, glutamyl transpeptidase, alkaline phosphatase, and bilirubin; and thyroid function abnormalities.

In the METEOR study, patients were treated with rosuvastatin 40 mg (n=700) or placebo (n=281) with a mean treatment duration of 1.7 years. Adverse reactions reported in  $\geq$  2% of patients and at a rate greater than placebo are shown in Table 3.

Adverse Reactions	Placebo N=281	Rosuvastatin 40 mg N=700
	%	%
Myalgia	12.1	12.7
Arthralgia	7.1	10.1
Headache	5.3	6.4
Dizziness	2.8	4.0
Increased CPK	0.7	2.6
Abdominal pain	1.8	2.4
$ALT > 3x ULN^1$	0.7	2.2
<sup>1</sup> Frequency recorded a	s abnormal laboratory	y value.

# Table 3: Adverse Reactions Reported in $\ge 2\%$ of Patients Treated with Rosuvastatin and > Placebo in the METEOR Trial

In the JUPITER study, patients were treated with rosuvastatin 20 mg (n=8,901) or placebo (n=8,901) for a mean duration of 2 years. In JUPITER, there was a significantly higher frequency of diabetes mellitus reported in patients taking rosuvastatin (2.8%) versus patients taking placebo (2.3%). Mean HbA1c was significantly increased by 0.1% in rosuvastatin-treated patients compared to placebo-treated patients. The number of patients with a HbA1c > 6.5% at the end of the trial was significantly higher in rosuvastatin-treated versus placebo-treated patients [see Clinical Studies (14)].

Adverse reactions reported in  $\geq 2\%$  of patients and at a rate greater than placebo are shown in Table 4.

# Table 4: Adverse Reactions Reported in ≥ 2% of Patients Treated with Rosuvastatin and > Placebo in the JUPITER Trial

Adverse Reactions	N=8,901	N=8,901	
	%	%	
Myalgia	6.6	7.6	
Arthralgia	3.2	3.8	
Constipation	3.0	3.3	
Diabetes mellitus	2.3	2.8	
Nausea	2.3	2.4	

#### Pediatric Patients with HeFH

In a 12-week controlled study in pediatric patients 10 to 17 years of age with HeFH with rosuvastatin 5 to 20 mg daily [see Use in Specific Populations (8.4) and Clinical Studies (14)], elevations in serum CK greater than 10 x ULN were observed more frequently in rosuvastatin-treated patients compared with patients receiving placebo. Four of 130 (3%) patients treated with rosuvastatin (2 treated with 10 mg and 2 treated with 20 mg) had increased CK greater than 10 x ULN, compared to 0 of 46 patients on placebo.

## 6.2 Post-marketing Experience

The following adverse reactions have been identified during post-approval use of rosuvastatin.

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.

Blood Disorders: thrombocytopenia

Hepatobiliary Disorders: hepatitis, jaundice, fatal and non-fatal hepatic failure

*Musculoskeletal Disorders:* arthralgia, rare reports of immune-mediated necrotizing myopathy associated with statin use

*Nervous System Disorders:* peripheral neuropathy, rare post-marketing reports of cognitive impairment (e.g., memory loss, forgetfulness, amnesia, memory impairment, and confusion) associated with the use of all statins. The reports are 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, sleep disorders (including insomnia and nightmares)

Reproductive System and Breast Disorders: gynecomastia

Respiratory Disorders: interstitial lung disease

*Skin and Subcutaneous Tissue Disorders:* drug reaction with eosinophilia and systemic symptoms (DRESS), lichenoid drug eruption

## **7 DRUG INTERACTIONS**

# 7.1 Drug Interactions that Increase the Risk of Myopathy and Rhabdomyolysis with Rosuvastatin

Rosuvastatin is a substrate of CYP2C9 and transporters (such as OATP1B1, BCRP).

Rosuvastatin plasma levels can be significantly increased with concomitant administration of inhibitors of CYP2C9 and transporters. Table 5 includes a list of drugs that increase the risk of myopathy and rhabdomyolysis when used concomitantly with rosuvastatin and instructions for preventing or managing them [see Warnings and Precautions (5.1) and Clinical Pharmacology (12.3)].

# Table 5: Drug Interactions that Increase the Risk of Myopathy and Rhabdomyolysis with Rosuvastatin

Cyclosporine		
Clinical Impact:	Cyclosporine increased rosuvastatin exposure 7-fold. The risk of myopathy and rhabdomyolysis is increased with concomitant use of cyclosporine or gemfibrozil with rosuvastatin.	
Intervention:	lf used concomitantly, do not exceed a dose of rosuvastatin 5 mg once daily.	
Teriflunomide		
Clinical Impact:	Teriflunomide increased rosuvastatin exposure more than 2.5-fold. The risk of myopathy and rhabdomyolysis is increased with concomitant use.	
Intervention:	In patients taking teriflunomide, do not exceed a dose of rosuvastatin 10 mg once daily.	
Enasidenib		
Clinical Impact:	Enasidenib increased rosuvastatin exposure more than 2.4-fold. The risk of myopathy and rhabdomyolysis is increased with concomitant use.	
Intervention:	In patients taking enasidenib, do not exceed a dose of rosuvastatin 10 mg once daily.	
Capmatinib		
Clinical Impact:	Capmatinib increased rosuvastatin exposure more than 2.1-fold. The risk of myopathy and rhabdomyolysis is increased with concomitant use.	
Intervention:	In patients taking capmatinib, do not exceed a dose of rosuvastatin 10 mg once daily.	
Fostamatinib		
Clinical Impact:	Fostamatinib increased rosuvastatin exposure more than 2.0-fold. The risk of myopathy and rhabdomyolysis is increased with concomitant use.	
Intervention:	In patients taking fostamatinib, do not exceed a dose of rosuvastatin 20 mg once daily.	
Febuxostat		
Clinical Impact:	Febuxostat increased rosuvastatin exposure more than 1.9-fold. The risk of myopathy and rhabdomyolysis is increased with concomitant use.	
Intervention:	In patients taking febuxostat, do not exceed a dose of rosuvastatin 20 mg once daily.	
Gemfibrozil		
Clinical Impact:	Gemfibrozil significantly increased rosuvastatin exposure and gemfibrozil may cause myopathy when given alone. The risk of myopathy and rhabdomyolysis is increased with concomitant use of gemfibrozil with rosuvastatin.	
	Avoid concomitant use of gemfibrozil with rosuvastatin. If	

Intervention:	used concomitantly, initiate rosuvastatin at daily and do not exceed a dose of rosuvast once daily.			
Tafamidis				
Clinical Impact:	Tafamidis significantly increased rosuvastat and tafamidis may cause myopathy when g risk of myopathy and rhabdomyolysis is inc concomitant use of tafamidis with rosuvast	iven alone. The reased with atin.		
Intervention:	used concomitantly, initiate rosuvastatin at daily and do not exceed a dose of rosuvast once daily. Monitor for signs of myopathy a rhabdomyolysis if used concomitantly with	Avoid concomitant use of tafamidis with rosuvastatin. If used concomitantly, initiate rosuvastatin at 5 mg once daily and do not exceed a dose of rosuvastatin 20 mg once daily. Monitor for signs of myopathy and rhabdomyolysis if used concomitantly with rosuvastatin.		
Anti-Viral Medications				
Clinical Impact:	Rosuvastatin plasma levels were significant with concomitant administration of many ar which increases the risk of myopathy and rhabdomyolysis.			
	<ul> <li>Sofosbuvir/velpatasvir/voxilaprevir</li> <li>Ledipasvir/sofosbuvir</li> </ul>	Avoid concomitant use with rosuvastatin.		
Intervention:	<ul> <li>Simeprevir</li> <li>Dasabuvir/ombitasvir/paritaprevir/ritonav</li> <li>Elbasvir/grazoprevir</li> <li>Sofosbuvir/velpatasvir</li> <li>Glecaprevir/pibrentasvir</li> <li>Atazanavir/ritonavir</li> <li>Lopinavir/ritonavir</li> </ul>	Initiate with rosuvastatin 5 mg once daily, and do not exceed a dose of rosuvastatin 10 mg once daily.		
Darolutamide		ually.		
Clinical Impact:	Darolutamide increased rosuvastatin expos 5-fold. The risk of myopathy and rhabdomy increased with concomitant use.			
Intervention:		In patients taking darolutamide, do not exceed a dose of		
Regorafenib				
Clinical Impact:	Regorafenib increased rosuvastatin exposure and may increase the risk of myopathy.			
Intervention:	In patients taking regorafenib, do not exceed a dose of rosuvastatin 10 mg once daily.			
Fenofibrates (e.g., fe	nofibrate and fenofibric acid)			
Clinical Impact:	Fibrates may cause myopathy when given alone. The risk of myopathy and rhabdomyolysis is increased with concomitant use of fibrates with rosuvastatin.			
Intervention:	Consider if the benefit of using fibrates concomitantly with rosuvastatin 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.			

Niacin		
Clinical Impact:	Cases of myopathy and rhabdomyolysis have occurred with concomitant use of lipid-modifying doses ( $\geq 1$ g/day) of niacin with rosuvastatin.	
Intervention:	Consider if the benefit of using lipid-modifying doses (≥ 1 g/day) of niacin concomitantly with rosuvastatin 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		
Clinical Impact:	Cases of myopathy and rhabdomyolysis have been reported with concomitant use of colchicine with rosuvastatin.	
Intervention:	Consider if the benefit of using colchicine concomitantly with rosuvastatin 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.	

## 7.2 Drug Interactions that Decrease the Efficacy of Rosuvastatin

Table 6 presents drug interactions that may decrease the efficacy of rosuvastatin and instructions for preventing or managing them.

## Table 6: Drug Interactions that Decrease the Efficacy of Rosuvastatin

Antacids	
Clinical Impact:	Concomitant aluminum and magnesium hydroxide combination antacid administration decreased the mean exposure of rosuvastatin 50% [see Clinical Pharmacology (12.3)].
Intervention:	In patients taking antacid, administer rosuvastatin at least 2 hours after the antacid.

### 7.3 Rosuvastatin Effects on Other Drugs

Table 7 presents rosuvastatin tablets effect on other drugs and instructions for preventing or managing them.

#### Table 7: Rosuvastatin Effects on Other Drugs

Warfarin	
	Rosuvastatin significantly increased the
Clinical Impact:	INR in patients receiving
	warfarin [see Clinical
	Pharmacology (12.3)].
	In patients
	taking
	warfarin,
	obtain an INR
	before starting
	rosuvastatin
	and frequently
	enough after
	initiation, dose
Intervention:	titration or
intervention:	discontinuation to ensure that
	no significant
	alteration in
	INR occurs.
	Once the INR
	is stable,
	monitor INR at
	regularly
	recommended
	intervals.

#### **8 USE IN SPECIFIC POPULATIONS**

#### 8.1 Pregnancy

#### <u>Risk Summary</u>

Discontinue rosuvastatin when pregnancy is recognized. Alternatively, consider the ongoing therapeutic needs of the individual patient.

Rosuvastatin decreases synthesis of cholesterol and possibly other biologically active substances derived from cholesterol; therefore, rosuvastatin 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 rosuvastatin 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 rosuvastatin during the period of organogenesis at doses that resulted in systemic exposures equivalent to human exposures at the maximum recommended human dose (MRHD) of 40 mg/day, based on AUC and body surface area (mg/m<sup>2</sup>), respectively (*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.

#### <u>Data</u>

#### 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

In female rats given 5, 15 and 50 mg/kg/day before mating and continuing through to gestation day 7 resulted in decreased fetal body weight (female pups) and delayed ossification at 50 mg/kg/day (10 times the human exposure at the MRHD dose of 40 mg/day based on AUC).

In pregnant rats given 2, 10 and 50 mg/kg/day of rosuvastatin from gestation day 7 through lactation day 21 (weaning), decreased pup survival occurred at 50 mg/kg/day (dose equivalent to 12 times the MRHD of 40 mg/day based body surface area).

In pregnant rabbits given 0.3, 1, and 3 mg/kg/day of rosuvastatin from gestation day 6 to day 18, decreased fetal viability and maternal mortality was observed at 3 mg/kg/day (dose equivalent to the MRHD of 40 mg/day based on body surface area).

Rosuvastatin crosses the placenta in rats and rabbits and is found in fetal tissue and amniotic fluid at 3% and 20%, respectively, of the maternal plasma concentration following a single 25 mg/kg oral gavage dose on gestation day 16 in rats. In rabbits, fetal tissue distribution was 25% of maternal plasma concentration after a single oral gavage dose of 1 mg/kg on gestation day 18.

## 8.2 Lactation

## <u>Risk Summary</u>

Limited data from case reports in published literature indicate that rosuvastatin is present in human milk. There is no available information on the effects of the drug on the breastfed infant or the effects of the drug on milk production. Statins, including rosuvastatin, 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 rosuvastatin [see Use in Specific Populations (8.1) and Clinical Pharmacology (12.1)].

# 8.4 Pediatric Use

The safety and effectiveness of rosuvastatin as an adjunct to diet to reduce LDL-C have been established in pediatric patients 8 years of age and older with HeFH. Use of rosuvastatin for this indication is based on one 12-week controlled trial with a 40-week open-label extension period in 176 pediatric patients 10 years of age and older with HeFH and one 2-year open-label, uncontrolled trial in 175 pediatric patients 8 years of age and older with HeFH [see Clinical Studies (14)]. In the 1-year trial with a 12-week controlled phase, there was no detectable effect of rosuvastatin on growth, weight, BMI (body mass index), or sexual maturation in patients aged 10 to 17 years.

The safety and effectiveness of rosuvastatin as an adjunct to other LDL-C-lowering therapies to reduce LDL-C have been established pediatric patients 7 years of age and older with HoFH. Use of rosuvastatin for this indication is based on a randomized, placebo-controlled, cross-over study in 14 pediatric patients 7 years of age and older with HoFH [see Clinical Studies (14)].

The safety and effectiveness of rosuvastatin have not been established in pediatric patients younger than 8 years of age with HeFH, younger than 7 years of age with HoFH, or in pediatric patients with other types of hyperlipidemia (other than HeFH or HoFH).

# 8.5 Geriatric Use

Of the total number of rosuvastatin-treated patients in clinical studies, 3,159 (31%) were 65 years and older, and 698 (6.8%) were 75 years and older. No overall differences in safety or effectiveness were observed between these subjects and younger subjects.

Advanced age ( $\geq$  65 years) is a risk factor for rosuvastatin-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 rosuvastatin for the increased risk of myopathy [see Warnings and Precautions (5.1)].

### 8.6 Renal Impairment

Rosuvastatin exposure is not influenced by mild to moderate renal impairment ( $CL_{cr} \ge$  30 mL/min/1.73 m<sup>2</sup>). Exposure to rosuvastatin is increased to a clinically significant extent in patients with severe renal impairment ( $CL_{cr} < 30$  mL/min/1.73 m<sup>2</sup>) who are not receiving hemodialysis [see Clinical Pharmacology (12.3)].

Renal impairment is a risk factor for myopathy and rhabdomyolysis. Monitor all patients with renal impairment for development of myopathy. In patients with severe renal impairment not on hemodialysis, the recommended starting dosage is 5 mg daily and should not exceed 10 mg daily [see Dosage and Administration (2.5) and Warnings and Precautions (5.1)].

## 8.7 Hepatic Impairment

Rosuvastatin is contraindicated in patients with acute liver failure or decompensated cirrhosis. Chronic alcohol liver disease is known to increase rosuvastatin exposure. Patients who consume substantial quantities of alcohol and/or have a history of liver disease may be at increased risk for hepatic injury [see Contraindications (4), Warning and Precautions (5.3) and Clinical Pharmacology (12.3)].

## 8.8 Asian Patients

Pharmacokinetic studies have demonstrated an approximate 2-fold increase in median exposure to rosuvastatin in Asian subjects when compared with White controls. Adjust the rosuvastatin dosage in Asian patients [see Dosage and Administration (2.4) and Clinical Pharmacology (12.3)].

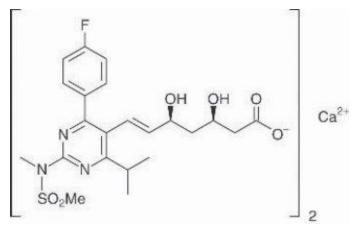
# **10 OVERDOSAGE**

No specific antidotes for rosuvastatin are known. Hemodialysis does not significantly enhance clearance of rosuvastatin. Contact Poison Control (1-800-222-1222) for latest recommendations.

## **11 DESCRIPTION**

Rosuvastatin calcium is a 3-hydroxy-3-methylglutaryl coenzyme A (HMG CoA)-reductase inhibitor.

The chemical name for rosuvastatin calcium is bis[(E)-7-[4-(4-fluorophenyl)-6-isopropyl-2-[methyl(methylsulfonyl)amino] pyrimidin-5-yl](3R,5S)-3,5-dihydroxyhept-6-enoic acid] calcium salt with the following structural formula:



The empirical formula for rosuvastatin calcium is  $(C_{22}H_{27}FN_3O_6S)_2Ca$  and the molecular weight is 1001.14.

Rosuvastatin calcium, USP is a white amorphous powder that is sparingly soluble in water and methanol, and slightly soluble in ethanol. Rosuvastatin calcium, USP is a hydrophilic compound with a partition coefficient (octanol/water) of 0.13 at pH of 7.0.

Rosuvastatin tablets, USP for oral administration contain either 5 mg, 10 mg, 20 mg, or 40 mg of rosuvastatin and the following inactive ingredients: Each tablet contains: FD&C Blue No. 2, FD&C Red No. 40, hypromellose, lactose monohydrate, light magnesium oxide, magnesium stearate, microcrystalline cellulose, titanium dioxide and triacetin.

In addition, the 5 mg tablet contains FD&C Yellow No. 5 (tartrazine).

In addition, the 10 mg, 20 mg and 40 mg tablets contain: FD&C Yellow No. 6.

Meets USP Dissolution Test 4.

## **12 CLINICAL PHARMACOLOGY**

## 12.1 Mechanism of Action

Rosuvastatin is an inhibitor of HMG-CoA reductase, the rate-limiting enzyme that converts 3-hydroxy-3-methylglutaryl coenzyme A to mevalonate, a precursor of cholesterol.

#### 12.2 Pharmacodynamics

Inhibition of HMG-CoA reductase by rosuvastatin accelerates the expression of LDLreceptors, followed by the uptake of LDL-C from blood to the liver, leading to a decrease in plasma LDL-C and total cholesterol. Sustained inhibition of cholesterol synthesis in the liver also decreases levels of very-low-density lipoproteins. The maximum LDL-C reduction of rosuvastatin is usually achieved by 4 weeks and is maintained after that.

## 12.3 Pharmacokinetics

#### <u>Absorption</u>

In clinical pharmacology studies in man, peak plasma concentrations of rosuvastatin were reached 3 to 5 hours following oral dosing. Both  $C_{max}$  and AUC increased in approximate proportion to rosuvastatin dose. The absolute bioavailability of rosuvastatin is approximately 20%. The AUC of rosuvastatin does not differ following evening or morning drug administration.

#### Effect of food

Administration of rosuvastatin tablet with food did not affect the AUC of rosuvastatin.

#### **Distribution**

Mean volume of distribution at steady-state of rosuvastatin is approximately 134 liters. Rosuvastatin is 88% bound to plasma proteins, mostly albumin. This binding is reversible and independent of plasma concentrations.

#### <u>Elimination</u>

#### Metabolism

Rosuvastatin is not extensively metabolized; approximately 10% of a radiolabeled dose is recovered as metabolite. The major metabolite is N-desmethyl rosuvastatin, which is

formed principally by cytochrome P450 \ 2C9, and *in vitro* studies have demonstrated that N-desmethyl rosuvastatin has approximately one-sixth to one-half the HMG-CoA reductase inhibitory activity of the parent compound. Overall, greater than 90% of active plasma HMG-CoA reductase inhibitory activity is accounted for by the parent compound.

#### Excretion

Following oral administration, rosuvastatin and its metabolites are primarily excreted in the feces (90%). After an intravenous dose, approximately 28% of total body clearance was via the renal route, and 72% by the hepatic route. The elimination half-life of rosuvastatin is approximately 19 hours.

#### Specific Populations

#### Geriatric Patients

There were no differences in plasma concentrations of rosuvastatin between the nonelderly and elderly populations (age  $\geq$  65 years).

#### Pediatric Patients

In a population pharmacokinetic analysis of two pediatric trials involving patients with heterozygous familial hypercholesterolemia 10 to 17 years of age and 8 to 17 years of age, respectively, rosuvastatin exposure appeared comparable to or lower than rosuvastatin exposure in adult patients.

#### Male and Female Patients

There were no differences in plasma concentrations of rosuvastatin between men and women.

#### Racial or Ethnic Groups

A population pharmacokinetic analysis revealed no clinically relevant differences in pharmacokinetics among Caucasian, Hispanic, and Black or Afro-Caribbean groups. However, pharmacokinetic studies, including one conducted in the US, have demonstrated an approximate 2-fold elevation in median exposure (AUC and C<sub>max</sub>) in Asian subjects when compared with a Caucasian control group.

#### Patients with Renal Impairment

Mild to moderate renal impairment ( $CL_{cr} \ge 30 \text{ mL/min}/1.73 \text{ m}^2$ ) had no influence on plasma concentrations of rosuvastatin. However, plasma concentrations of rosuvastatin increased to a clinically significant extent (about 3-fold) in patients with severe renal impairment ( $CL_{cr} < 30 \text{ mL/min}/1.73 \text{ m}^2$ ) not receiving hemodialysis compared with healthy subjects ( $CL_{cr} > 80 \text{ mL/min}/1.73 \text{ m}^2$ ).

Steady-state plasma concentrations of rosuvastatin in patients on chronic hemodialysis were approximately 50% greater compared with healthy volunteer subjects with normal renal function.

#### Patients with Hepatic Impairment

In patients with chronic alcohol liver disease, plasma concentrations of rosuvastatin were modestly increased.

In patients with Child-Pugh A disease,  $C_{max}$  and AUC were increased by 60% and 5%, respectively, as compared with patients with normal liver function. In patients with Child-Pugh B disease,  $C_{max}$  and AUC were increased 100% and 21%, respectively, compared with patients with normal liver function.

#### Drug Interactions Studies

Rosuvastatin clearance is not dependent on metabolism by cytochrome P450 3A4 to a clinically significant extent.

Rosuvastatin is a substrate for certain transporter proteins including the hepatic uptake transporter organic anion-transporting polyprotein 1B1 (OATP1B1) and efflux transporter breast cancer resistance protein (BCRP). Concomitant administration of rosuvastatin with medications that are inhibitors of these transporter proteins (e.g., cyclosporine, certain HIV protease inhibitors) may result in increased rosuvastatin plasma concentrations [see Dosage and Administration (2.6) and Drug Interactions (7.1)].

#### Table 8: Effect of Co-administered Drugs on Rosuvastatin Systemic Exposure

Co-administered drug and dosing regimen	Rosuvastatin		
		ra) with/w Co admini drug	Ratio itio vithout o- stered ) No = 1.0
	Dose (mg) <sup>1</sup>		Change in C <sub>max</sub>
Sofosbuvir/velpatasvir/voxilaprevir (400 mg-100 mg-100 mg) + Voxilaprevir (100 mg) once daily for 15 days	10 mg, single-dose	7.39 <sup>2</sup> (6.68 to	18.88 <sup>2</sup> (16.23 to 21.96) <sup>3</sup>
Cyclosporine – stable dose required (75 mg to 200 mg BID)	10 mg, QD for 10 days		11 <sup>2</sup>
Darolutamide 600 mg BID, 5 days	5 mg, single-dose	5.2 <sup>2</sup>	~5 <sup>2</sup>
Regorafenib 160 mg QD, 14 days	5 mg, single-dose	3.8 <sup>2</sup>	4.6 <sup>2</sup>
Atazanavir/ritonavir combination 300 mg/100 mg QD for 8 days	10 mg	3.1 <sup>2</sup>	7 <sup>2</sup>
Simeprevir 150 mg QD, 7 days	10 mg, single-dose		3.2 <sup>2</sup> (2.6 to 3.9) <sup>3</sup>
Velpatasvir 100 mg once daily	10 mg, single-dose	(2.46 to	2.61 <sup>2</sup> (2.32 to 2.92) <sup>3</sup>
Ombitasvir 25 mg/paritaprevir 150 mg/ ritonavir 100 mg + dasabuvir 400 mg BID	5 mg, single-dose		9.96) <sup>3</sup>
Teriflunomide	Not available		2.65 <sup>2</sup>
Enasidenib 100 mg QD, 28 days	10 mg, single dose		3.66
Elbasvir 50 mg/grazoprevir 200 mg once daily	10 mg, single-dose	(1.89 to 2.69) <sup>3</sup>	5.49 <sup>2</sup> (4.29 to 7.04) <sup>3</sup>
Glecaprevir 400 mg/pibrentasvir 120 mg once daily	5 mg, once daily	2.15 <sup>2</sup> (1.88 to	5.62 <sup>2</sup>

		<b>2</b> 1 2	r 2
Lopinavir/ritonavir combination 400			$5^2$
mg/100 mg BID for 17 days	20 mg, QD for 7 days	$(1.7 \text{ to})^3$	(3.4  to)
			6.4) <sup>3</sup>
Convertinity 400 mar RID			3.04 <sup>2</sup>
Capmatinib 400 mg BID	10 mg, single-dose	(1.56  to)	•
			3.92) <sup>3</sup>
			1.88 <sup>2</sup>
Fostamatinib 100 mg BID	20 mg, single-dose	(1.77 to	
			2.09) <sup>3</sup>
Falsen at the 120 may OD fam 4 days		1.9 <sup>2</sup>	2.1 <sup>2</sup>
Febuxostat 120 mg QD for 4 days	10 mg, single-dose	(1.5  to)	(1.8  to)
		2.5) <sup>3</sup> 1.9 <sup>2</sup>	2.6) <sup>3</sup> 2.2 <sup>2</sup>
Constituto = il COO man DID for 7 devia	0.0		
Gemfibrozil 600 mg BID for 7 days	80 mg	(1.6  to)	(1.8  to)
			2.7) <sup>3</sup>
Tafamidis 61 mg BID on Days 1 &	10		1.86 <sup>2</sup>
2, followed by QD on Days 3 to 9	10 mg	•	(1.59  to)
			2.16) <sup>3</sup>
Etrombonog 75 mg OD 5 dovr	10 mg	1.6	Z (1.0.+o
Eltrombopag 75 mg QD, 5 days	10 mg	(1.4  to)	(1.8  to)
		1.7) <sup>3</sup>	2.3) <sup>3</sup>
Darunavir 600 mg/ritonavir 100 mg			2.4
BID, 7 days	10 mg, QD for 7 days	(1.0  to)	(1.6  to)
			3.6) <sup>3</sup>
Tipranavir/ritonavir combination 500	10	1.4	2.2
mg/200 mg BID for 11 days	10 mg	•	(1.8  to)
Dranadarana 400 mg BID	10 mg	1.6) <sup>3</sup> 1.4	2.7) <sup>3</sup>
Dronedarone 400 mg BID	10 mg		1.4
			1.4 (1.2 to
	10 mg or	•	(1.2 to 1.5) <sup>3</sup>
ltraconazole 200 mg QD, 5 days	10 mg or		1.2
	80 mg	1.3 (1.1 to	1.2 (0.9 to
		$(1.1 to 1.4)^3$	(0.9 to 1.4) <sup>3</sup>
		1.4)*	1.2
Ezetimibe 10 mg QD, 14 days	10 mg, QD for 14 days		1.2 (0.8 to
LZECITIBE TO THE QD, 14 days	10 mg, QD 101 14 days		(0.8 to 1.6) <sup>3</sup>
Fosamprenavir/ritonavir 700		1.0)*	1.0)*
mg/100 mg BID for 7 days	10 mg	1.1	1.5
			1.2
Fenofibrate 67 mg TID for 7 days	10 mg		1.2 (1.1 to
		$\leftrightarrow$	(1.1 to 1.3) <sup>3</sup>
Pifampicin 450 mg OD 7 dave	20 mg	<u> </u>	1.J)-
Rifampicin 450 mg QD, 7 days	20 mg	↔ 0.5 <sup>2</sup>	0.5 <sup>2</sup>
Aluminum & magnesium budrovide			
Aluminum & magnesium hydroxide combination antacid	40 mg		(0.4 to 0.6) <sup>3</sup>
	5	-	0.8
Administered simultaneously	5		0.8 (0.7 to
Administered 2 hours apart		(0.7 to 0.9) <sup>3</sup>	(0.7 to 1.0) <sup>3</sup>
			1.0)9
Ketoconazole 200 mg BID for 7		-	1.0 (0.7 to
days	80 mg	•	
		1.2)~	1.3) <sup>3</sup>

Fluconazole 200 mg QD for 11 days	80 mg	1.1 (1.0 to 1.3) <sup>3</sup>	1.1 (0.9 to 1.4) <sup>3</sup>		
Erythromycin 500 mg QID for 7 days	80 mg	0.8 (0.7 to 0.9) <sup>3</sup>	0.7 (0.5 to 0.9) <sup>3</sup>		
QD = Once daily, BID = Twice daily, TID = Three times daily, QID = Four times daily <sup>1</sup> Single dose unless otherwise noted. <sup>2</sup> Clinically significant [see Dosage and Administration (2) and Warnings and Precautions (5)]					
P Mean ratio with 90% CI (with/with) 30% decrease, 11=11 - fold increas	out co-administered drug, e.g., 1= r se in exposure)	no chang	e, 0.7 =		

# Table 9: Effect of Rosuvastatin Co-administration on Systemic Exposure to Other Drugs

Rosuvastatin Dosage Regimen	Co-administered Drug		
			thout
	Name and Dose	in AUC	in C <sub>max</sub>
40 mg QD for 10 days	Warfarin <sup>1</sup> 25 mg single-dose	R- Warfarin 1.0 (1.0 to 1.1) <sup>2</sup> S- Warfarin 1.1 (1.0 to 1.1) <sup>2</sup>	R- Warfarin 1.0 (0.9 to 1.0) <sup>2</sup> S- Warfarin 1.0 (0.9 to 1.1) <sup>2</sup>
40 mg QD for 12 days	Digoxin 0.5 mg single-dose	-	1.0 (0.9 to 1.2) <sup>2</sup>
<b>U</b>	Oral Contraceptive (ethinyl estradiol 0.035 mg & norgestrel 0.180, 0.215 and 0.250 mg) QD for 21 Days	(1.2 to 1.3) <sup>2</sup> NG 1.3 (1.3 to	EE 1.3 (1.2 to 1.3) <sup>2</sup> NG 1.2 (1.1 to 1.3) <sup>2</sup>
<sup>1</sup> Clinically sign <sup>2</sup> Mean ratio wi	tradiol, NG = norgestrel, QD = Once daily ificant pharmacodynamic effects <i>[see Drug Interactions</i> th 90% CI (with/without co-administered drug, e.g., 1= ease, 11=11-fold increase in exposure)		e,

#### 12.5 Pharmacogenomics

Disposition of rosuvastatin, involves OATP1B1 and other transporter proteins. Higher plasma concentrations of rosuvastatin have been reported in very small groups of patients (n=3 to 5) who have two reduced function alleles of the gene that encodes OATP1B1 (*SLCO1B1* 521T > C). The frequency of this genotype (i.e. *SLCO1B1* 521 C/C) is generally lower than 5% in most racial/ethnic groups. The impact of this polymorphism on efficacy and/or safety of rosuvastatin has not been clearly established.

## **13 NONCLINICAL TOXICOLOGY**

## 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

In a 104-week carcinogenicity study in rats at dose levels of 2, 20, 60, or 80 mg/kg/day by oral gavage, the incidence of uterine stromal polyps was significantly increased in females at 80 mg/kg/day at systemic exposure 20 times the human exposure at 40 mg/day based on AUC. Increased incidence of polyps was not seen at lower doses.

In a 107-week carcinogenicity study in mice given 10, 60, or 200 mg/kg/day by oral gavage, an increased incidence of hepatocellular adenoma/carcinoma was observed at 200 mg/kg/day at systemic exposures 20 times the human exposure at 40 mg/day based on AUC. An increased incidence of hepatocellular tumors was not seen at lower doses.

Rosuvastatin was not mutagenic or clastogenic with or without metabolic activation in the Ames test with *Salmonella typhimurium* and *Escherichia coli*, the mouse lymphoma assay, and the chromosomal aberration assay in Chinese hamster lung cells. Rosuvastatin was negative in the *in vivo* mouse micronucleus test.

In rat fertility studies with oral gavage doses of 5, 15, 50 mg/kg/day, males were treated for 9 weeks prior to and throughout mating and females were treated 2 weeks prior to mating and throughout mating until gestation day 7. No adverse effect on fertility was observed at 50 mg/kg/day (systemic exposures up to 10 times the human exposure at 40 mg/day based on AUC). In testicles of dogs treated with rosuvastatin at 30 mg/kg/day for one month, spermatidic giant cells were seen. Spermatidic giant cells were observed in monkeys after 6-month treatment at 30 mg/kg/day in addition to vacuolation of seminiferous tubular epithelium. Exposures in the dog were 20 times and in the monkey 10 times the human exposure at 40 mg/day based on body surface area. Similar findings have been seen with other drugs in this class.

## **14 CLINICAL STUDIES**

#### Primary Prevention of Cardiovascular Disease

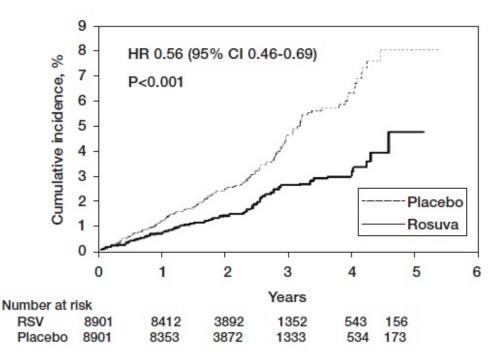
In the Justification for the Use of Statins in Primary Prevention: An Intervention Trial Evaluating Rosuvastatin (JUPITER) study, the effect of rosuvastatin on the occurrence of major cardiovascular (CV) disease events was assessed in 17,802 men ( $\geq$  50 years) and women ( $\geq$  60 years) who had no clinically evident cardiovascular disease, LDL-C levels < 130 mg/dL and hsCRP levels  $\geq$  2 mg/L. The study population had an estimated baseline coronary heart disease risk of 11.6% over 10 years based on the Framingham risk criteria and included a high percentage of patients with additional risk factors such as hypertension (58%), low HDL-C levels (23%), cigarette smoking (16%), or a family history of premature CHD (12%). Patients had a median baseline LDL-C of 108 mg/dL and hsCRP of 4.3 mg/L. Patients were randomly assigned to placebo (n=8,901) or

rosuvastatin 20 mg once daily (n=8,901) and were followed for a mean duration of 2 years. The JUPITER study was stopped early by the Data Safety Monitoring Board due to meeting predefined stopping rules for efficacy in rosuvastatin -treated subjects.

The primary end point was a composite end point consisting of the time-to-first occurrence of any of the following major CV events: CV death, nonfatal myocardial infarction, nonfatal stroke, hospitalization for unstable angina or an arterial revascularization procedure.

Rosuvastatin significantly reduced the risk of major CV events (252 events in the placebo group vs. 142 events in the rosuvastatin group) with a statistically significant (p < 0.001) relative risk reduction of 44% and absolute risk reduction of 1.2% (see Figure 1). The risk reduction for the primary end point was consistent across the following predefined subgroups: age, sex, race, smoking status, family history of premature CHD, body mass index, LDL-C, HDL-C, and hsCRP levels.

Figure 1. Time to First Occurrence of Major Cardiovascular Events in JUPITER



The individual components of the primary end point are presented in Figure 3. rosuvastatin significantly reduced the risk of nonfatal myocardial infarction, nonfatal stroke, and arterial revascularization procedures. There were no significant treatment differences between the rosuvastatin and placebo groups for death due to cardiovascular causes or hospitalizations for unstable angina.

Rosuvastatin significantly reduced the risk of myocardial infarction (6 fatal events and 62 nonfatal events in placebo-treated subjects vs. 9 fatal events and 22 nonfatal events in rosuvastatin -treated subjects) and the risk of stroke (6 fatal events and 58 nonfatal events in placebo-treated subjects vs. 3 fatal events and 30 nonfatal events in rosuvastatin-treated subjects).

In a post-hoc subgroup analysis of JUPITER subjects (rosuvastatin=725, placebo=680) with a hsCRP  $\geq$  2 mg/L and no other traditional risk factors (smoking, BP  $\geq$  140/90 or taking antihypertensives, low HDL-C) other than age, after adjustment for high HDL-C, there was no significant treatment benefit with rosuvastatin treatment.

# Figure 2. Major CV Events by Treatment Group in JUPITER

	Number	of events				
End point	Rosuva 20 mg (n=8901) n(rate*)	Placebo 20 mg (n=8901) n(rate*)	HR (95% CI)	P value	Hazard Ratio	(95%)
Primary end point (MCE)	142 (7.6)	252 (13.6)	0.56 (0.46, 0.69)	< 0.001	-	
Cardiovascular death++	35 (1.9)	44 (2.4)	0.80 (0.51, 1.24)	0.315		
Nonfatal Stroke	30 (1.6)	58 (3.1)	0.52 (0.33, 0.80)	0.003		
Nonfatal MI	22 (1.2)	62 (3.3)	0.35 (0.22, 058)	< 0.001		
Hospitalized unstable Angina	16 (0.9)	27 (1.5)	0.59 (0.32, 1.10)	0.093		ł
Arterial resascularization	71 (3.8)	131 (7.1)	0.54 (0.41, 0.72)	<0.001		

\*event rate/1,000-patient years

\*\*Cardiovascular death included fatal MI, fatal stroke, sudden death, and other adjudicated causes of CV death.

At one year, rosuvastatin increased HDL-C and reduced LDL-C, hsCRP, total cholesterol and serum triglyceride levels (p < 0.001 for all versus placebo).

Primary Hyperlipidemia in Adults

Rosuvastatin reduces Total-C, LDL-C, ApoB, non-HDL-C, and TG, and increases HDL-C, in adult patients with hyperlipidemia and mixed dyslipidemia.

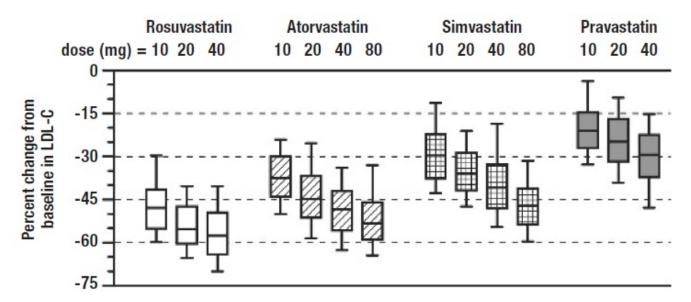
In a multicenter, double-blind, placebo-controlled study in patients with hyperlipidemia, rosuvastatin given as a single daily dose (5 to 40 mg) for 6 weeks significantly reduced Total-C, LDL-C, non-HDL-C, and ApoB, across the dose range (Table 10).

#### Table 10: Lipid-modifying Effect of Rosuvastatin in Adult Patients with Hyperlipidemia (Adjusted Mean % Change from Baseline at Week 6)

Dose	Ν	Total-C		Non- HDL-C	АроВ	TG	HDL-C
Placebo	13	-5	-7	-7	-3	-3	3
Rosuvastatin 5 mg		-33	-45	-44	-38	-35	13
Rosuvastatin 10 mg	- /	-36	-52	-48	-42	-10	14
Rosuvastatin 20 mg		-40	-55	-51	-46	-23	8
Rosuvastatin 40 mg	18	-46	-63	-60	-54	-28	10

Rosuvastatin was compared with the statins (atorvastatin, simvastatin, and pravastatin) in a multicenter, open-label, dose-ranging study of 2,240 patients with hyperlipidemia or mixed dyslipidemia. After randomization, patients were treated for 6 weeks with a single daily dose of either rosuvastatin, atorvastatin, simvastatin, or pravastatin (Figure 3 and Table 11).

#### Figure 3. Percent LDL-C Change by Dose of Rosuvastatin, Atorvastatin, Simvastatin, and Pravastatin at Week 6 in Adult Patients with Hyperlipidemia or Mixed Dyslipidemia



Box plots are a representation of the 25th, 50th, and 75th percentile values, with whiskers representing the 10th and 90th percentile values. Mean baseline LDL-C: 189 mg/dL  $\,$ 

#### Table 11: Percent Change in LDL-C by Dose of Rosuvastatin, Atorvastatin, Simvastatin, and Pravastatin From Baseline to Week 6 (LS Mean<sup>1</sup>) in Adult Patients with Hyperlipidemia or Mixed Dyslipidemia (Sample Sizes Ranging from 156 to 167 Patients Per Group)

	Treatment Daily Dose			
Treatment	10 mg	20 4 mgn		
Rosuvastatin	-46 <sup>2</sup>	 52 <sup>3</sup> 5	5 <sup>4<sup>-</sup></sup>	
Atorvastatin	-37	-43-4	48-	·51
Simvastatin	-28	-35 -3	39-	46
Pravastatin	-20	-24 -:	30-	

<sup>1</sup> Corresponding standard errors are approximately 1.00.

<sup>2</sup>Rosuvastatin 10 mg reduced LDL-C significantly more than atorvastatin 10 mg; pravastatin 10 mg, 20 mg, and 40 mg; simvastatin 10 mg, 20 mg, and 40 mg. (p < 0.002)

<sup>3</sup> Rosuvastatin 20 mg reduced LDL-C significantly more than atorvastatin 20 mg and 40 mg; pravastatin 20 mg and 40 mg; simvastatin 20 mg, 40 mg, and 80 mg. (p < 0.002) <sup>4</sup> Rosuvastatin 40 mg reduced LDL-C significantly more than atorvastatin 40 mg; pravastatin 40 mg; simvastatin 40 mg, and 80 mg. (p < 0.002)

#### Slowing of the Progression of Atherosclerosis

In the *Measuring Effects on Intima Media Thickness: an Evaluation Of Rosuvastatin 40 mg (METEOR)* study, the effect of therapy with rosuvastatin on carotid atherosclerosis was assessed by B-mode ultrasonography in patients with elevated LDL-C, at low risk (Framingham risk < 10% over ten years) for symptomatic coronary artery disease and with subclinical atherosclerosis as evidenced by carotid intimal-medial thickness (cIMT). In this double-blind, placebo-controlled clinical study 984 adult patients were randomized (of whom 876 were analyzed) in a 5:2 ratio to rosuvastatin 40 mg or placebo once daily. Ultrasonograms of the carotid walls were used to determine the annualized rate of change per patient from baseline to two years in mean maximum cIMT of 12 measured segments. The estimated difference in the rate of change in the maximum cIMT analyzed over all 12 carotid artery sites between patients treated with rosuvastatin and placebo-treated patients was -0.0145 mm/year (95% CI -0.0196, - 0.0093; p < 0.0001).

The annualized rate of change from baseline for the placebo group was +0.0131 mm/year (p < 0.0001). The annualized rate of change from baseline for the group treated with rosuvastatin was -0.0014 mm/year (p=0.32).

At an individual patient level in the group treated with rosuvastatin, 52.1% of patients demonstrated an absence of disease progression (defined as a negative annualized rate of change), compared to 37.7% of patients in the placebo group.

#### HeFH in Adults

In a study of adult patients with HeFH (baseline mean LDL of 291 mg/dL), patients were randomized to rosuvastatin 20 mg or atorvastatin 20 mg. The dose was increased at 6-week intervals. Significant LDL-C reductions from baseline were seen at each dose in both treatment groups (Table 12).

			Atorvastatin (n=187) LS Mean <sup>1</sup> (95% CI)				
Week 6	20 mg	-47% (-49%, -46%)	-38% (-40%, -36%)				
Week 12	40 mg	-55% (-57%, -54%)	-47% (-49%, -45%)				
Week 18	80 mg	NA	-52% (-54%, -50%)				
<sup>1</sup> LS Means are least :	square means adjusted	$^{1}$ LS Means are least square means adjusted for baseline LDL-C					

#### Table 12: LDL-C Percent Change from Baseline

#### HeFH in Pediatric Patients

In a double-blind, randomized, multicenter, placebo-controlled, 12-week study, 176 (97 male and 79 female) children and adolescents with heterozygous familial hypercholesterolemia were randomized to rosuvastatin 5 mg, 10 mg or 20 mg or placebo daily. Patients ranged in age from 10 to 17 years (median age of 14 years) with approximately 30% of the patients 10 to 13 years and approximately 17%, 18%, 40%, and 25% at Tanner stages II, III, IV, and V, respectively. Females were at least 1 year postmenarche. Mean LDL-C at baseline was 233 mg/dL (range of 129 to 399). The 12-week double-blind phase was followed by a 40 week open label dose-titration phase, where all patients (n=173) received 5 mg, 10 mg or 20 mg rosuvastatin daily.

Rosuvastatin significantly reduced LDL-C (primary end point), total cholesterol and ApoB levels at each dose compared to placebo. Results are shown in Table 13 below.

#### Table 13: Lipid-Modifying Effects of Rosuvastatin in Pediatric Patients 10 to 17 years of Age with Heterozygous Familial Hypercholesterolemia (Least-Squares Mean Percent Change from Baseline To Week 12)

Placebo 46 5 42	-	1%	+7%	0%	70/	00/
5 42	~		1 / /0	U 70	-7%	-2%
	2 -	38%	+4% <sup>2</sup>	-30%	-13% <sup>2</sup>	-32%
10 44	4 -	45%	+11% <sup>2</sup>	-34%	-15% <sup>2</sup>	-38%
20 44	4 -	50%	+9% <sup>2</sup>	-39%	16% <sup>2</sup>	-41%

Rosuvastatin was also studied in a two-year open-label, uncontrolled, titration-to-goal trial that included 175 children and adolescents with heterozygous familial hypercholesterolemia who were 8 to 17 years old (79 boys and 96 girls). All patients had a documented genetic defect in the LDL receptor or in ApoB. Approximately 89% were White, 7% were Asian, 1% were Black, and fewer than 1% were Hispanic. Mean LDL-C at baseline was 236 mg/dL. Fifty-eight (33%) patients were prepubertal at baseline. The starting rosuvastatin dosage for all children and adolescents was 5 mg once daily. Children 8 to less than 10 years of age (n=41 at baseline) could titrate to a maximum dosage of 10 mg once daily, and children and adolescents 10 to 17 years of age could titrate to a maximum dosage of 20 mg once daily.

The reductions in LDL-C from baseline were generally consistent across age groups within the trial as well as with previous experience in both adult and pediatric controlled trials.

#### HoFH in Adult and Pediatric Patients

In an open-label, forced-titration study, HoFH patients (n=40, 8 to 63 years) were evaluated for their response to rosuvastatin 20 to 40 mg titrated at a 6-week interval. In the overall population, the mean LDL-C reduction from baseline was 22%. About onethird of the patients benefited from increasing their dose from 20 mg to 40 mg with further LDL-C lowering of greater than 6%. In the 27 patients with at least a 15% reduction in LDL-C, the mean LDL-C reduction was 30% (median 28% reduction). Among 13 patients with an LDL-C reduction of < 15%, 3 had no change or an increase in LDL-C. Reductions in LDL-C of 15% or greater were observed in 3 of 5 patients with known receptor negative status.

#### HoFH in Pediatric Patients

Rosuvastatin was studied in a randomized, double-blind, placebo-controlled, multicenter, cross-over study in 14 pediatric patients with HoFH. The study included a 4-week dietary lead-in phase during which patients received rosuvastatin 10 mg daily, a cross-over phase that included two 6-week treatment periods with either rosuvastatin 20 mg or placebo in random order, followed by a 12-week open-label phase during which all patients received rosuvastatin 20 mg. Patients ranged in age from 7 to 15 years of age (median 11 years), 50% were male, 71% were White, 21% were Asian, 7% were Black, and no patients were of Hispanic ethnicity. Fifty percent were on apheresis therapy and 57% were taking ezetimibe. Patients who entered the study on apheresis therapy or ezetimibe continued the treatment throughout the entire study. Mean LDL-C at baseline was 416 mg/dL (range 152 mg/dL to 716 mg/dL). A total of 13 patients completed both treatment periods of the randomized cross-over phase; one patient withdrew consent due to inability to have blood drawn during the cross-over phase.

Rosuvastatin 20 mg significantly reduced LDL-C, total cholesterol, ApoB, and non-HDL-C compared to placebo (Table 14).

# Table 14: Lipid-modifying Effects of Rosuvastatin in Pediatric Patients 7 to 15 years of Age with Homozygous Familial Hypercholesterolemia After 6 Weeks

	Placebo (N=13)	Rosuvastatin 20 mg (N=13)	Percent difference (95% CI)
LDL-C (mg/dL)	481	396	-22.3% (-33.5, -9.1) <sup>1</sup>
Total-C	500	110	

(mg/dL)	ECC	<del>44</del> 0	-ZU.1/0 (-ZJ.1, -J.1)-		
Non-HDL-C (mg/dL)	505	412	-22.9% (-33.7, -10.3) <sup>2</sup>		
ApoB (mg/dL)	268	235	-17.1% (-29.2, -2.9) <sup>3</sup>		
% Difference estimates are based on transformations of the estimated mean difference in log LDL measurements between rosuvastatin and placebo using a mixed model adjusted for study period $^{1}p=0.005$ , $^{2}p=0.003$ , $^{3}p=0.024$					

#### Primary Dysbetalipoproteinemia in Adults

In a randomized, multicenter, double-blind crossover study, 32 adult patients (27 with  $\epsilon 2/\epsilon^2$  and 4 with apo E mutation [Arg145Cys] with primary dysbetalipoproteinemia entered a 6-week dietary lead-in period on the NCEP Therapeutic Lifestyle Change (TLC) diet. Following dietary lead-in, patients were randomized to a sequence of treatments for 6 weeks each: rosuvastatin 10 mg followed by rosuvastatin 20 mg or rosuvastatin 20 mg followed by rosuvastatin 10 mg. Rosuvastatin reduced non-HDL-C (primary end point) and circulating remnant lipoprotein levels. Results are shown in the table below.

#### Table 15: Lipid-modifying Effects of Rosuvastatin 10 mg and 20 mg in Adult Patients with Primary Dysbetalipoproteinemia (Type III hyperlipoproteinemia) After Six Weeks by Median Percent Change (95% CI) from Baseline (N=32)

	Median at Baseline (mg/dL)	Median percent change from baseline (95% CI) Rosuvastatin 10 mg	Median percent change from baseline (95% CI) Rosuvastatin 20 mg
Total-C	342.5	-43.3 (-46.9, -37.5)	-47.6 (-51.6,-42.8)
Triglycerides	503.5	-40.1 (-44.9, -33.6)	-43.0 (-52.5, -33.1)
Non-HDL-C	294.5	-48.2 (-56.7, -45.6)	-56.4 (-61.4, -48.5)
VLDL-C + IDL-C	209.5	-46.8 (-53.7, -39.4)	-56.2 (-67.7, -43.7)
LDL-C	112.5	-54.4 (-59.1, -47.3)	-57.3 (-59.4, -52.1)
HDL-C	35.5	10.2 (1.9, 12.3)	11.2 (8.3, 20.5)
RLP-C	82.0	-56.4 (-67.1, -49.0)	-64.9 (-74.0, -56.6)
Аро-Е	16.0	-42.9 (-46.3, -33.3)	-42.5 (-47.1, -35.6)

#### Hypertriglyceridemia in Adults

In a double-blind, placebo-controlled study in adult patients with baseline TG levels from 273 mg/dL to 817 mg/dL, rosuvastatin given as a single daily dose (5 mg to 40 mg) over 6 weeks significantly reduced serum TG levels (Table 16).

#### Table 16: Lipid-Modifying Effect of Rosuvastatin in Adult Patients with Primary Hypertriglyceridemia After Six Weeks by Median (Min, Max) Percent

#### Change from Baseline to Week 6

Dose	Placebo (n=26)	5 mg	10 mg	20 mg	Rosuvastatin 40 mg (n=25)
Triglycerides	1 (-40, 72)	-21 (-58, 38)	-37 (-65, 5)	-37 (-72, 11)	-43 (-80, -7)
Non-HDL-C	2 (-13, 19)	-29 (-43, -8)	-49 (-59, -20)	-43 (-74, 12)	-51 (-62, -6)
Total-C	1 (-13, 17)	-24 (-40, -4)	-40 (-51, -14)	-34 (-61, -11)	-40 (-51, -4)
LDL-C	5 (-30, 52)	-28 (-71, 2)	-45 (-59, 7)	-31 (-66, 34)	-43 (-61, -3)
HDL-C	-3 (-25, 18)	3 (-38, 33)	8 (-8, 24)	22 (-5, 50)	17 (-14, 63)

#### **16 HOW SUPPLIED/STORAGE AND HANDLING**

Rosuvastatin Tablets USP, **5 mg** are supplied as yellow colored, round, biconvex, coated tablets, debossed "AA" and "92" on one side and plain on the other side.

They are available as follows:

Bottles of 90: NDC 69238-1146-9

Rosuvastatin Tablets USP, **10 mg** are supplied as pink colored, round, biconvex, coated tablets, debossed "AA" and "93" on one side and plain on the other side.

They are available as follows:

Bottles of 90: NDC 69238-1147-9

Rosuvastatin Tablets USP, **20 mg** are supplied as pink colored, round, biconvex, coated tablets, debossed "AA" and "94" on one side and plain on the other side.

They are available as follows:

Bottles of 90: NDC 69238-1148-9

Rosuvastatin Tablets USP, **40 mg** are supplied as pink colored, oval, biconvex, coated tablets, debossed "AA 95" on one side and plain on the other side.

They are available as follows:

Bottles of 30: NDC 69238-1149-3

Bottles of 90: NDC 69238-1149-9

#### Storage

Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Protect from moisture.

#### **17 PATIENT COUNSELING INFORMATION**

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

#### Myopathy and Rhabdomyolysis

Advise patients that rosuvastatin may cause myopathy and rhabdomyolysis. Inform patients that the risk is also increased when taking certain types of medication 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), and Drug Interactions (7.1)].

#### Hepatic Dysfunction

Inform patients that rosuvastatin 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 rosuvastatin. Encourage patients to optimize lifestyle measures, including regular exercise, maintaining a healthy body weight, and making healthy food choices [see Warnings and Precautions (5.5)].

#### 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 rosuvastatin should be discontinued [see Use in Specific Populations (8.1)].

#### Lactation

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

#### Concomitant Use of Antacids

When taking rosuvastatin tablets with an aluminum and magnesium hydroxide combination antacid, the antacid should be taken at least 2 hours after rosuvastatin tablets administration [see Drug Interactions (7.2)].

#### Missed Doses

If a dose is missed, advise patients not take an extra dose. Just resume the usual schedule [see General Dosage and Administration Information (2.1)].

Manufactured by:

#### Amneal Pharmaceuticals Pvt. Ltd.

#### **Oral Solid Dosage Unit**

Ahmedabad 382213, INDIA

Distributed by:

#### **Amneal Pharmaceuticals LLC**

Bridgewater, NJ 08807

Rev. 08-2023-05

Dispense with Patient Information available at:

documents.amneal.com/mg/ppi-rosuvastatin-tablets.pdf

#### **PATIENT INFORMATION**

Dispense with Patient Information available at:

documents.amneal.com/mg/ppi-rosuvastatin-tablets.pdf

## Rosuvastatin (roe soo" va stat' in) Tablets, USP

Read this Patient Information carefully before you start taking rosuvastatin tablets and each time you get a refill. If you have any questions about rosuvastatin tablets, ask your doctor. Only your doctor can determine if rosuvastatin tablets are right for you.

### What are rosuvastatin tablets?

Rosuvastatin tablets are a prescription medicine that contains a cholesterol-lowering medicine called rosuvastatin calcium.

- Rosuvastatin tablets are used to:
  - reduce the risk of stroke, heart attack, and the need for procedures to improve blood flow to the heart called arterial revascularization in adults who do not have known heart disease but do have certain additional risk factors.
- Rosuvastatin tablets are used along with diet to:
- lower the level of low-density lipoprotein (LDL) cholesterol or "bad" cholesterol in adults with primary hyperlipidemia.
- slow the buildup of fatty deposits (plaque) in the walls of blood vessels.
- treat adults and children 8 years of age and older with high blood cholesterol due to heterozygous familial hypercholesterolemia (an inherited condition that causes high levels of LDL).
- along with other cholesterol lowering treatments or alone if such treatments are unavailable in adults and children 7 years of age and older with homozygous familial hypercholesterolemia (an inherited condition that causes high levels of LDL).
- treat adults with a type of high cholesterol called primary dysbetalipoproteinemia (type III hyperlipoproteinemia).
- lower the level of fat in your blood (triglycerides) in adults with hypertriglyceridemia.

The safety and effectiveness of rosuvastatin tablets have not been established in children younger than 8 years of age with heterozygous familial hypercholesterolemia or children younger than 7 years of age with homozygous familial hypercholesterolemia or in children with other types of hyperlipidemias (other than HeFH or HoFH).

#### Who should not take rosuvastatin tablets? Do not take rosuvastatin tablets if you:

- have liver problems.
- are allergic to rosuvastatin calcium or any of the ingredients in rosuvastatin tablets. See the end of this leaflet for a complete list of ingredients in rosuvastatin tablets. Symptoms of allergic reactions include rash, itching, hives, and swelling.

#### What should I tell my doctor before and while taking rosuvastatin tablets? Tell your doctor if you:

- have unexplained muscle aches or weakness.
- have or have had kidney problems.
- have or have had liver problems.
- drink more than 2 glasses of alcohol daily.
- have thyroid problems.
- are 65 years of age or older.
- are of Asian descent.
- are pregnant or think you may be pregnant, or are planning to become pregnant. If you become pregnant while taking rosuvastatin tablets, call your healthcare provider

right away to discuss your rosuvastatin tablets treatment.

• are breastfeeding. Rosuvastatin can pass into your breast milk. Breastfeeding is not recommended while taking rosuvastatin tablets.

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

Taking rosuvastatin tablets with certain other medicines may affect each other causing side effects. Rosuvastatin tablets may affect the way other medicines work, and other medicines may affect how rosuvastatin tablets work.

Especially tell your doctor if you take:

- cyclosporine (a medicine for your immune system)
- gemfibrozil (a fibric acid medicine for lowering cholesterol)
- fostamatinib (a medicine used to treat low platelet counts)
- febuxostat (a medicine used to treat and prevent high blood levels of uric acid)
- teriflunomide (a medicine used to treat relapsing remitting multiple sclerosis)
- capmatinib (a medicine for the treatment of non-small cell lung cancer)
- tafamidis (used to treat cardiomyopathy [enlarged and thickened heart muscle])
- darolutamide (a medicine for the treatment of prostate cancer)
- regorafenib (a medicine used to treat cancer of the colon and rectum)
- enasidenib (a medicine used to treat acute myeloid leukemia)
- anti-viral medicines including certain HIV or hepatitis C virus drugs such as:
  - lopinavir, ritonavir, fosamprenavir, tipranavir, atazanavir, simeprevir
  - combination of
    - sofosbuvir/velpatasvir/voxilaprevir
    - dasabuvir/ombitasvir/paritaprevir/ritonavir
    - elbasvir/grazoprevir
    - sofosbuvir/velpatasvir
    - glecaprevir/pibrentasvir and
  - all other combinations with ledipasvir including ledipasvir/sofosbuvir
- certain anti-fungal medicines (such as itraconazole, ketoconazole and fluconazole)
- coumarin anticoagulants (medicines that prevent blood clots, such as warfarin)
- niacin or nicotinic acid
- fibric acid derivatives (such as fenofibrate)
- colchicine (a medicine used to treat gout)

Ask your doctor or pharmacist for a list of these medicines if you are not sure. Know the medicines you take.

Keep a list of them to show your doctor and pharmacist when you get new medicine.

#### How should I take rosuvastatin tablets?

- Take rosuvastatin tablets exactly as your doctor tells you to take it.
- Take rosuvastatin tablets, by mouth, 1 time each day. Swallow the tablet whole.
- Rosuvastatin tablets can be taken at any time of day, with or without food.
- **Do not** change your dose or stop rosuvastatin tablets without talking to your doctor, even if you are feeling well.
- Your doctor may do blood tests to check your cholesterol levels before and during your treatment with rosuvastatin tablets. Your doctor may change your dose of rosuvastatin tablets if needed.
- Your doctor may start you on a cholesterol lowering diet before giving you rosuvastatin tablets. Stay on this diet when you take rosuvastatin tablets.
- Wait at least 2 hours after taking rosuvastatin tablets to take an antacid that contains a combination of aluminum and magnesium hydroxide.

- If you miss a dose of rosuvastatin tablets, take your next dose at your normal scheduled time. **Do not take** an extra dose of rosuvastatin tablets.
- If you take too much rosuvastatin tablets or overdose, call your doctor or go to the nearest hospital emergency room right away.

## What are the possible side effects of rosuvastatin tablets? Rosuvastatin 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 doctor right away if:
- you have unexplained muscle pain, tenderness, or weakness, especially if you have a fever or feel more tired than usual, while you take rosuvastatin tablets.
- you have muscle problems that do not go away even after your doctor has told you to stop taking rosuvastatin tablets. Your doctor 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 rosuvastatin tablets
- are 65 years of age or older
- have thyroid problems (hypothyroidism) that are not controlled
- have kidney problems
- are taking higher doses of rosuvastatin tablets
- Liver problems. Your doctor may do blood tests to check your liver before you start taking rosuvastatin tablets and if you have symptoms of liver problems while you take rosuvastatin tablets. Call your doctor right away if you have any of the following symptoms of liver problems:
  - feel unusually tired or weak
  - loss of appetite
  - upper belly pain
  - dark urine
  - yellowing of your skin or the whites of your eyes
- **Protein and blood in the urine.** Rosuvastatin tablets may cause you to have protein and blood in your urine. If you develop protein or blood in your urine, your doctor may decrease your dose of rosuvastatin tablets.
- Increase in blood sugar (glucose) levels. Rosuvastatin tablets may cause an increase in your blood sugar levels.

The most common side effects may include headache, muscle aches and pains, abdominal pain, weakness, and nausea.

Tell your doctor if you have any side effect that bothers you or that does not go away. For more information, ask your doctor or pharmacist.

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

## How should I store rosuvastatin tablets?

- Store rosuvastatin tablets at room temperature, between 68° to 77°F (20° to 25°C) and in a dry place.
- Safely throw away medicine that is out of date or no longer needed.

# Keep rosuvastatin tablets and all medicines out of the reach of children.

**General Information about the safe and effective use of rosuvastatin tablets** Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use rosuvastatin tablets for a condition for which it was not prescribed. Do not give rosuvastatin tablets to other people, even if they have the same medical condition you have. It may harm them.

You can ask your pharmacist or doctor for information about rosuvastatin tablets that is written for health professionals.

#### What are the Ingredients in rosuvastatin tablets?

Active Ingredient: rosuvastatin calcium, USP

**Inactive Ingredients:** FD&C Blue No.2, FD&C Red No. 40, hypromellose, lactose monohydrate, light magnesium oxide, magnesium stearate, microcrystalline cellulose, titanium dioxide and triacetin.

In addition, the 5 mg tablet contains FD&C Yellow No. 5 (tartrazine).

In addition, the 10 mg, 20 mg and 40 mg tablets contain: FD&C Yellow No. 6.

All trademarks listed are the property of their respective owners.

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

# Amneal Pharmaceuticals Pvt. Ltd.

Oral Solid Dosage Unit Ahmedabad 382213, INDIA

Distributed by:

Amneal Pharmaceuticals LLC

Bridgewater, NJ 08807 Rev. 08-2023-02

#### PRINCIPAL DISPLAY PANEL

NDC 69238-1146-9

Rosuvastatin Tablets USP, 5 mg

90 Tablets

**Rx only** 

#### **Amneal Pharmaceuticals LLC**



NDC 69238-1147-9

Rosuvastatin Tablets USP, 10 mg

90 Tablets

**Rx only** 

Amneal Pharmaceuticals LLC



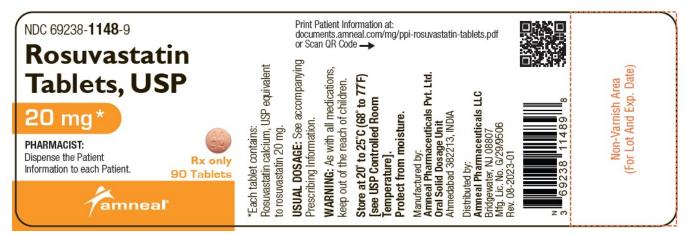
## NDC 69238-1148-9

## Rosuvastatin Tablets USP, 20 mg

90 Tablets

**Rx only** 

#### **Amneal Pharmaceuticals LLC**



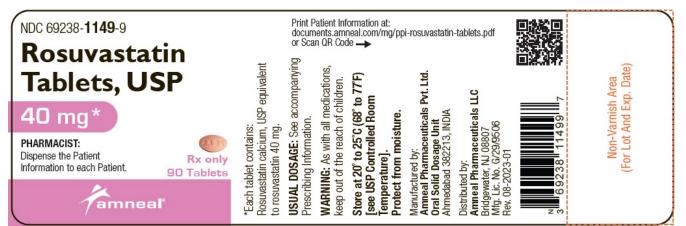
#### NDC 69238-1149-9

#### Rosuvastatin Tablets USP, 40 mg

90 Tablets

**Rx only** 

#### Amneal Pharmaceuticals LLC



# ROSUVASTATIN

rosuvastatin tablet, film coated

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:69238-1146
Route of Administration	ORAL		

Active Ingredient/Active Moiety		
Ingredient Name	Basis of Strength	Strength
<b>ROSUVASTATIN CALCIUM</b> (UNII: 83MVU38M7Q) (ROSUVASTATIN - UNII:413KH5ZJ73)	ROSUVASTATIN	5 mg

Inactive Ingredients	
Ingredient Name	Strength
FD&C BLUE NO. 2 (UNII: L06K8R7DQK)	
FD&C RED NO. 40 (UNII: WZB9127XOA)	
FD&C YELLOW NO. 5 (UNII: 1753WB2F1M)	
HYPROMELLOSES (UNII: 3NXW29V3WO)	
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
MAGNESIUM OXIDE (UNII: 3A3U0GI71G)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
TRIACETIN (UNII: XHX3C3X673)	

#### **Product Characteristics**

Color	yellow	Score	no score
Shape	ROUND	Size	7mm
Flavor		Imprint Code	AA92
Contains			

<b>1</b> NDC:69238- 1146-990 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product10/22/2018	

Flarketing II			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA208850	10/22/2018	

ROSUVASTATIN

ros	suvastatin tab	let, film coa	ated					
Ρ	roduct Info	rmation						
Pı	roduct Type		HUMAN PRESC	RIPTION DRUG	ltem Code	(Source)	NDC:	69238-1147
	oute of Admin	istration	ORAL			(,		
N	oute of Admin		ONAL					
A	ctive Ingred	ient/Acti	ve Moietv					
	<b>--</b>		Ingredient Nam	e			is of ngth	Strengt
	<b>DSUVASTATIN C</b> III:413KH5ZJ73)	ALCIUM (UI	NII: 83MVU38M7Q) (F	OSUVASTATIN -		ROSUVAST	-	10 mg
In	active Ingre	odionts						
• • •	active myre		Ingredient	Name			9	Strength
FC	&C BLUE NO. 2	2 (UNII: L06K	-					
FC	0&C RED NO. 40	) (UNII: WZB	9127XOA)					
FC	&C YELLOW N	<b>0.6</b> (UNII: H	177VEI93A8)					
ΗY	PROMELLOSES	(UNII: 3NXW	V29V3WO)					
LA	CTOSE MONOH	IYDRATE (U	NII: EWQ57Q8I5X)					
м	AGNESIUM OXI	DE (UNII: 3A3	3U0GI71G)					
M	AGNESIUM STE	ARATE (UNII:	: 70097M6I30)					
CE	LLULOSE, MIC	ROCRYSTAL	LINE (UNII: OP1R32	D61U)				
тг		<b>E</b> (UNII: 15FI	IX9V2JP)					
TR	RIACETIN (UNII: )	KHX3C3X673	)					
Pı	roduct Char	acteristi	cs					
Сс	olor		pink	Score			no score	
Sł	nape		ROUND	Size			7mm	
Fla	avor			Imprint Code			AA93	
Co	ontains							
_								
Pa	ackaging							
#	ltem Code		Package Desc	ription		ing Start ate	Marl	keting End Date
1	NDC:69238- 1147-9	90 in 1 BOT Combinatio	TLE, PLASTIC; Type n Product	0: Not a	10/22/2018	3		
Μ	larketing	Inform	ation					
	Marketing Category	Appl	ication Number Citation			ng Start ate	Mar	keting End Date
AN	IDA	ANDA20	8850		10/22/2018			

# ROSUVASTATIN

rosuvastatin tablet, film coated

Product Type		HUMAN PRESC		ltem Code	(Source)		238-1148
Route of Admir	listration	ORAL		item coue	(Source)	NDC.05	250 1140
coute of Admir	istration	OKAL					
Active Ingred	lient/Act	ive Moiety					
		Ingredient Nam	e		Basis Stren		Streng
ROSUVASTATIN ( JNII:413KH5ZJ73)	C <b>ALCIUM</b> (U	NII: 83MVU38M7Q) (F	OSUVASTATIN -		ROSUVASTAT	TIN	20 mg
nactive Ingr	edients						
		Ingredient	Name			Str	rength
D&C BLUE NO.							
FD&C RED NO. 4							
FD&C YELLOW N							
LACTOSE MONOI							
	,	•					
MAGNESIUM SIE	ARAIE (UNI	1. 7009710050)					
		LLINE (UNII: OP1R32	D61U)				
CELLULOSE, MIC	ROCRYSTA	LLINE (UNII: OP1R32	D61U)				
CELLULOSE, MIC TITANIUM DIOXIE	ROCRYSTA DE (UNII: 15F	LLINE (UNII: OP1R32 FIX9V2JP)	D61U)				
CELLULOSE, MIC TITANIUM DIOXIE	ROCRYSTA DE (UNII: 15F	LLINE (UNII: OP1R32 FIX9V2JP)	D61U)				
CELLULOSE, MIC TITANIUM DIOXII TRIACETIN (UNII:	ROCRYSTA DE (UNII: 15F XHX3C3X673	LLINE (UNII: OP1R32 FIX9V2JP) 3)	D61U)				
CELLULOSE, MIC TITANIUM DIOXII TRIACETIN (UNII: Product Chai	ROCRYSTA DE (UNII: 15F XHX3C3X673	LLINE (UNII: OP1R32 FIX9V2JP) 3)	D61U) Score		nc	) score	
CELLULOSE, MIC TITANIUM DIOXIE TRIACETIN (UNII: Product Char Color	ROCRYSTA DE (UNII: 15F XHX3C3X673	LLINE (UNII: OP1R32 FIX9V2JP) 3)				o score nm	
CELLULOSE, MIC TITANIUM DIOXIE TRIACETIN (UNII: <b>Product Cha</b> r Color Shape	ROCRYSTA DE (UNII: 15F XHX3C3X673	LLINE (UNII: OP1R32 FIX9V2JP) B) CS pink	Score		9n		
CELLULOSE, MIC TITANIUM DIOXII TRIACETIN (UNII: Product Char Color Shape Flavor	ROCRYSTA DE (UNII: 15F XHX3C3X673	LLINE (UNII: OP1R32 FIX9V2JP) B) CS pink	Score Size		9n	nm	
CELLULOSE, MIC TITANIUM DIOXII TRIACETIN (UNII: Product Char Color Shape Flavor	ROCRYSTA DE (UNII: 15F XHX3C3X673	LLINE (UNII: OP1R32 FIX9V2JP) B) CS pink	Score Size		9n	nm	
CELLULOSE, MIC TITANIUM DIOXII TRIACETIN (UNII: Product Char Color Shape Flavor Contains	ROCRYSTA DE (UNII: 15F XHX3C3X673	LLINE (UNII: OP1R32 FIX9V2JP) B) CS pink	Score Size		9n	nm	
CELLULOSE, MIC TITANIUM DIOXIE TRIACETIN (UNII: Product Char Color Shape Flavor Contains Packaging	ROCRYSTA DE (UNII: 15F XHX3C3X673	LLINE (UNII: OP1R32 FIX9V2JP) B) CS pink	Score Size Imprint Code		9n	nm A94 Marke	ting End ate
CELLULOSE, MIC TITANIUM DIOXID TRIACETIN (UNII: Product Chan Color Shape Flavor Contains Packaging # Item Code	ROCRYSTA DE (UNII: 15F XHX3C3X673	LLINE (UNII: OP1R32 SIX9V2JP) S) CS pink ROUND Package Desc TTLE, PLASTIC; Type	Score Size Imprint Code		ing Start ate	nm A94 Marke	_
CELLULOSE, MIC TITANIUM DIOXID TRIACETIN (UNII: Product Char Color Shape Flavor Contains Packaging # Item Code 1 NDC:69238- 1148-9	ROCRYSTA DE (UNII: 15F XHX3C3X673 racteristi acteristi 90 in 1 BO Combinatio	LLINE (UNII: OP1R32 FIX9V2JP) 3) iCS pink ROUND Package Desc TTLE, PLASTIC; Type on Product	Score Size Imprint Code	D	ing Start ate	nm A94 Marke	-
CELLULOSE, MIC TITANIUM DIOXID TRIACETIN (UNII: Product Char Color Shape Flavor Contains Packaging # Item Code 1 NDC:69238- 1148-9	ROCRYSTA DE (UNII: 15F XHX3C3X673 racteristi acteristi 90 in 1 BO Combinatio	LLINE (UNII: OP1R32 FIX9V2JP) 3) iCS pink ROUND Package Desc TTLE, PLASTIC; Type on Product	Score Size Imprint Code	D	ing Start ate	nm A94 Marke	-
TITANIUM DIOXIE TRIACETIN (UNII: Product Char Color Shape Flavor Contains Packaging # Item Code	POCRYSTA DE (UNII: 15F XHX3C3X673 Cacteristi Pacteristi 90 in 1 BO Combination	LLINE (UNII: OP1R32 FIX9V2JP) 3) iCS pink ROUND Package Desc TTLE, PLASTIC; Type on Product	Score Size Imprint Code ription 0: Not a	10/22/2018	ing Start ate	nm A94 Marke D	ting End ate ting End

# ROSUVASTATIN

rosuvastatin tablet, film coated

#### **Product Information**

Strength         Strength         Construct of the strength           Inactive Ingredients         ROSUVASTATIN CALCIUM (UNII: 83MVU38M7Q) (ROSUVASTATIN -         ROSUVASTATIN         40 mg           Inactive Ingredients         Ingredient Name         Strength           FD&C BLUE NO. 2 (UNII: LO6K8R7DQK)         Strength         Strength           FD&C BLUE NO. 2 (UNII: LO6K8R7DQK)         Strength         Strength           FD&C BLUE NO. 40 (UNII: WZ B9127XOA)         FD&C Strength         Strength           FD&C SULVASTATIN CALCIUM (UNII: S009708IS)         Strength         Strength           Across MONOHYDRATE (UNII: 30XW29V3WO)         Strength         Strength           Across MONOHYDRATE (UNII: 7009706I30)         Strength         Strength           CelluloSE, MICROCRYSTALINE (UNII: 009706I30)         Strength         Strength           CelluloSE, MICROCRYSTALINE (UNII: 009708I30)         Strength         Strength           CelluloSE, MICROCRYSTALINE (UNII: 009708I30)         Strength         Strength           Product Characteristics         Ingredient Strength         Strength           Flavor         pink         Score         no score           Shape         OVAL         Size         12mm           Flavor         Imprint Code         Aags         Strength <t< th=""><th>Product Type</th><th></th><th>HUMAN PRES</th><th>SCRIPTION DRUG</th><th>Item Code</th><th>(Source)</th><th>NDC:6</th><th>9238-1149</th></t<>	Product Type		HUMAN PRES	SCRIPTION DRUG	Item Code	(Source)	NDC:6	9238-1149	
Basis of Strength       Streng Strength         NOSUVASTATIN CALCIUM (UNII: 83M/U38M7Q) (ROSUVASTATIN -       ROSUVASTATIN 40 mg         nactive Ingredients         Ingredient Name       Strength         Strength         Strength         OSUVASTATIN CALCIUM (UNII: 83M/U38M7Q) (ROSUVASTATIN -         Note that the strength         Ingredient Name       Strength         Strength <td c<="" td=""><td>Route of Admir</td><td>nistration</td><td>ORAL</td><td></td><td></td><td></td><td></td><td></td></td>	<td>Route of Admir</td> <td>nistration</td> <td>ORAL</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Route of Admir	nistration	ORAL					
Ingredient Name       Basis of Strength       Strength         ROSUVASTATIN CALCIUM (UNII: 83M/U38M7Q) (ROSUVASTATIN -       ROSUVASTATIN 40 mg         Inactive Ingredients       Ingredient Name       Strength         Inactive Ingredients       Ingredient Name       Strength         Po&C REIN 0. 40 (UNII: B3M/U38M7Q)       Strength       Strength         Po&C REIN 0. 40 (UNII: WZ 93127X0A)       Strength       Strength         Po&C REIN 0. 40 (UNII: WZ 93708)       Strength       Strength         ACTOSE MON-04 (UNII: B3XW293W0)       Strength       Strength         ACTOSE MON-040 (UNII: B3XW293W0)       Strength       Strength         AGDIESIUM STEARATE (UNII: Streng2061J0)       Tittanum DioXIE (UNII: Streng2061J0)       Strength         TITTAINUM DIOXIE (UNII: Streng202F)       Inprint Code       A95         Strength       Strength       Strength         Product Charsteristics       Imprint Code       A95         Contains       30 in 1 BOTTLE, PLASTIC; Type 0: Not a       10/22/2018       Marketing Enc         Papelication Product									
Ingredient Name       Strength       Strength         ROSUVASTATIN CALCIUM (UNII: 83M/U38M7Q) (ROSUVASTATIN -       ROSUVASTATIN       40 mg         Inactive Ingredients       Ingredient Name       Strength         Inactive Ingredients       Ingredient Name       Strength         PACK BLUE NO. 2 (UNII: LOGK8R7DQK)       Ingredient Name       Strength         FD&C BLUE NO. 40 (UNII: KZE9127X0A)       Ingredient Name       Strength         FD&C YELLOW NO. 6 (UNII: H77VE193A8)       Ingredient Name       Ingredient Name         FD&C YELLOW NO. 6 (UNII: M17VE193A8)       Ingredient Name       Ingredient Name         FD&C YELLOW NO. 6 (UNII: M17VE193A8)       Ingredient Name       Ingredient Name         FD&C YELLOW NO. 6 (UNII: M17VE193A8)       Ingredient Name       Ingredient Name         MagNesium StreArate (UNII: SAU029Y3WO)       Ingredient Name       Ingredient Name         Ingredient Name       Strength       Ingredient Name         Cellulose, MICROCRYSTALLINE (UNII: OP1R32D61U)       Ingredient Name       Ingredient Name         Strength       Strength       Strength       Ingredient Name         Flavor       OVAL       Size       12mm       Ingredient Name         Flavor       Over Size       Strength Nate       Ingredient Name         Indes	Active Ingred	lient/Active	Moiety						
ROSUVASTATIN CALCIUM (UNII: 83MVU38M7Q) (ROSUVASTATIN -       ROSUVASTATIN 40 mg         Inarctive Ingredients         Ingredient Name       Strength         FDAC RELINO. 2 (UNII: LOGKBR7DQK)       Strength         FDAC RELINO. 40 (UNII: WZ 59127X0A)       Strength         Strength       Strength         MAGNESIUM OXIDE (UNII: 303UGG17LG)       Strength         MIRACTIN UNII: SAUG97M6130)       Strength       Strength         Strength       Strength       Strength <td colspa<="" td=""><td></td><td>Ing</td><td>redient Na</td><td>ime</td><td></td><td></td><td></td><td>Strengt</td></td>	<td></td> <td>Ing</td> <td>redient Na</td> <td>ime</td> <td></td> <td></td> <td></td> <td>Strengt</td>		Ing	redient Na	ime				Strengt
Inactive Ingredients Ingredient Name Ingredie		CALCIUM (UNII:	83MVU38M7Q	) (ROSUVASTATIN -			-	40 mg	
Ingredient Name       Strength         FD&C FULUE NO. 2 (UNII: LO6KBR7DQK)         CRED NO. 40 (UNII: WZE9127X0A)         SD&C YELLOW NO. 6 (UNII: H77VEI93A8)         THE COLSPAN INTERVISE OF									
Ingredient Name       Strength         PB4C BLUE NO. 2 (UNII: L06KBR7DQK)       Strength         PB4C RED NO. 40 (UNII: WZE9127X0A)       Strength         *D84C YELLOW NO. 6 (UNII: H77VEI93A8)       HYPROMELLOSES (UNII: SXXU29/30K0)         CACTOSE MONOHYDRATE (UNII: GXXU29/30K0)       Strength         CACTOSE MONOHYDRATE (UNII: GXXU29/30K0)       Strength         CACTOSE MONOHYDRATE (UNII: GXXU29/30K0)       Strength         CACTOSE MONOHYDRATE (UNII: G097M6I30)       Strength         CELLULOSE, MICROCRYSTALLINE (UNII: 0097M6I30)       Strength         CELLULOSE, MICROCRYSTALLINE (UNII: G097M6I30)       Strength         CELULUSE, MICROCRYSTALLINE (UNII: SAU30/30/17)       mo score         TRACETIN (UNII: XHX3C3X673)       No score         Stage       0/AL       Size         Color       pink       Score       no score         Shape       OVAL       Size       12mm         Store       Imprint Code       AA95         Combination Product       Imprint Code       Marketing Start         149-9       30 in 1 BOTTLE, PLASTIC; Type 0: Not a       10/22/2018         NDC:69238-       90 in 1 BOTTLE, PLASTIC; Type 0: Not a       10/22/2018         NDC:69238-       90 in 1 BOTTLE, PLASTIC; Type 0: Not a       10/22/2018 <tr< td=""><td>nactive Ingr</td><td>edients</td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>	nactive Ingr	edients							
Pack RED NO. 40 (UNII: WZB9127XOA)       Image: Constant of the second of	g.		Ingredie	ent Name			St	rength	
Pack YELLOW NO. 6 (UNII: H77VEI93A8)       Image: State	D&C BLUE NO.	2 (UNII: L06K8R	-						
HYPROMELLOSES (UNII: 3NXW29V3WO)       ACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)       Adgenesium stearate (UNII: 2009706130)         Adgenesium stearate (UNII: 7009706130)       Contains       Contains       Contains         Color       pink       Score       no score         Shape       OVAL       Size       12mm         Contains       OVAL       Size       12mm         Product Characteristics       Imprint Code       AA95         Contains       OVAL       Size       12mm         Packaging       Imprint Code       AA95         Product Characteristics       Size       10/22/2018         Inso       Officience       Date       Date         Packaging       NDC:69238-       30 in 1 BOTTLE, PLASTIC; Type 0: Not a       10/22/2018       10/22/2018         NDC:69238-       90 in 1 BOTTLE, PLASTIC; Type 0: Not a       10/22/2018       10/22/2018       10/22/2018         NDC:69238-       90 in 1 BOTTLE, PLASTIC; Type 0: Not a       10/22/2018       10/22/2018       10/22/2018         NDC:69238-       90 in 1 BOTTLE, PLASTIC; Type 0: Not a       10/22/2018       10/22/2018       10/22/2018         NDC:69238-       90 in 1 BOTTLE, PLASTIC; Type 0: Not a       10/22/2018       10/22/2018       10/22/2018	D&C RED NO. 4	<b>0</b> (UNII: WZ B912	27XOA)						
ACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X) MAGNESIUM OXIDE (UNII: 3A3U0GI7IG) MAGNESIUM STEARATE (UNII: 70097M6I30) ELLULOSE, MICROCRYSTALLINE (UNII: 0P1R32D61U) TITANIUM DIOXIDE (UNII: 15FiX9V2JP) TRIACETIN (UNII: XHX3C3X673) Product Characteristics Color pink Score no score Shape OVAL Size 12mm Flavor OVAL Size 12mm Flavor AA95 Contains Information Product 10/22/2018 Marketing Start Marketing Em Date 10/22/2018 Marketing LINFORMATIC: Type 0: Not a 10/22/2018 Marketing Start Marketing Em Marketing LINFORMATIC: Type 0: Not a 10/22/2018 Marketing Start Marketing Em Marketing Start Marketing Em Marketing Start Marketing Em Marketing Empirit Combination Product 10/22/2018 Marketing Start Marketing Empirit Combination Product 10/22/2018 Marketing Start Marketing Empirit Combination Product 10/22/2018 Marketing Start Marketing Empirit Combination Product 10/22/2018 Marketing Empirit Combination Product 10/22/2018 Marketing Start Marketing Empirit Combination Product 10/22/2018 Marketing Start Marketing Empirit Combination Product 10/22/2018 Marketing Start Marketing Empirit Combination Product 10/22/2018 Marketing Empirit Combination Product 10/22/2018 Marketing Start Marketing Empirit Combination Product 10/22/2018 Marketing Empirit Combination Product 10/22/2018 Marketing Start Marketing Empirit Combination Product 10/22/2018 Marketing Empirit Combination Product 10/22/2018 Marketing Start Marketing Empirit Combination Product 10/22/2018 Marketing Start Product 10/22/	D&C YELLOW N	<b>O. 6</b> (UNII: H77)	VEI93A8)						
MagNeSium Oxide (UNII: 3A3U0GI71G)       Image: Stearate (UNII: 70097M6I30)       Image: Stearate (UNII: 70097M6I30)         CelLuLose, MICROCRYSTALLINE (UNII: OP1R32D61U)       Image: Stearate (UNII: SFIX9V2JP)       Image: Stearate (UNII: SFIX9V2JP)         Ital and the stearate (UNII: SFIX9V2JP)       Image: Stearate (UNII: SFIX9V2JP)       Image: Stearate (UNII: SFIX9V2JP)         Ital and the stearate (UNII: SFIX9V2JP)       Image: Stearate (UNII: SFIX9V2JP)       Image: Stearate (UNII: SFIX9V2JP)         Ital and the stearate (UNII: SFIX9V2JP)       Image: Stearate (UNII: SFIX9V2JP)       Image: Stearate (UNII: SFIX9V2JP)         Ital and the stearate (UNII: SFIX9V2JP)       Image: Stearate (UNII: SFIX9V2JP)       Image: Stearate (UNII: SFIX9V2JP)         Ital and the stearate (UNII: SFIX9V2JP)       Image: Stearate (UNII: SFIX9V2JP)       Image: Stearate (UNII: SFIX)         Ital and the stearate (UNII: SFIX)       Image: Stearate (UNII: SFIX)       Image: Stearate (UNII: SFIX)         Ital and the stearate (UNII: SFIX)       Image: Stearate (UNII: SFIX)       Image: Stearate (UNII: SFIX)         Ital and the stearate (UNII: SFIX)       Image: Stearate (UNII: SFIX)       Image: Stearate (UNII: SFIX)         Ital and the stearate (UNII: SFIX)       Image: Stearate (UNII: SFIX)       Image: Stearate (UNII: SFIX)         Ital and the stearate (UNII: SFIX)       Image: Stearate (UNII: SFIX)       Image: Stearate (UNII: SFIX)         Ital and the stearate (UNI	IYPROMELLOSES	<b>5</b> (UNII: 3NXW29	V3WO)						
Magnesium stearatte (UNII: 70097/M6/30)       Image: Comparison of the state of t	ACTOSE MONOI	HYDRATE (UNII:	EWQ57Q8I5X	)					
CelluloSe, MICROCRYSTALLINE (UNII: OP1R32D61U) TITANIUM DIOXIDE (UNII: 15FIX9V2JP) TRIACETIN (UNII: XHX3C3X673)   Product Characteristics  Color pink Score no score  Color pink Size 12mm  Product Characteristics  Color 0VAL Size Aa95  Contains 0VAL AA95  Packaging	AGNESIUM OXI	DE (UNII: 3A3U0	GI71G)						
Item Code       Package Description       Marketing Start Combination Product       Marketing Combination Product       Marketing Combination Product       Marketing Combination Product       Marketing Category       Application Number or Monograph Citation       Marketing Start Date       Marketing Encode Citation       Ma	AGNESIUM STE	ARATE (UNII: 70	0097M6I30)						
Product Characteristics       no score         Color       pink       Score       no score         Shape       OVAL       Size       12mm         avor       AA95         Contains       Imprint Code       Marketing Start Date       Marketing Combination Product       Marketing Start Date       Marketing Start Date       Marketing Start Date       Marketing Start Date	CELLULOSE, MIC	ROCRYSTALLI	NE (UNII: OP1F	R32D61U)					
Product Characteristics       pink       Score       no score         Shape       OVAL       Size       12mm         Shape       OVAL       Imprint Code       AA95         Contains       Imprint Code       AA95         Packaging       Package Description       Marketing Start Date       Marketing End Date         NDC:69238- 1149-3       30 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product       10/22/2018       Marketing End Date         NDC:69238- 1149-9       90 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product       10/22/2018       10/22/2018		DE (UNII: 15FIX9)	V2JP)						
pink       Score       no score         Sh→pe       OVAL       Size       12mm         Flavor       Imprint Code       AA95         Contains       AM95         Package Description       Marketing Start Date       Marketing End Date         NDC:69238- 1149-3       30 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product       10/22/2018       Marketing Start Date       Marketing End Date         NDC:69238- 1149-9       90 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product       10/22/2018       Marketing End Date         Marketing Category       Application Number or Monograph Citation       Marketing Start Date       Marketing Start Date       Marketing End Date	TRIACETIN (UNII: )	XHX3C3X673)							
pink       Score       no score         Sh→pe       OVAL       Size       12mm         Flavor       Imprint Code       AA95         Contains       AM95         Package Description       Marketing Start Date       Marketing End Date         NDC:69238- 1149-3       30 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product       10/22/2018       Marketing Start Date       Marketing End Date         NDC:69238- 1149-9       90 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product       10/22/2018       Marketing End Date         Marketing Category       Application Number or Monograph Citation       Marketing Start Date       Marketing Start Date       Marketing End Date									
pink       Score       no score         Sh→pe       OVAL       Size       12mm         Flavor       Imprint Code       AA95         Contains       AM95         Package Description       Marketing Start Date       Marketing End Date         NDC:69238- 1149-3       30 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product       10/22/2018       Marketing Start Date       Marketing End Date         NDC:69238- 1149-9       90 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product       10/22/2018       Marketing End Date         Marketing Category       Application Number or Monograph Citation       Marketing Start Date       Marketing Start Date       Marketing End Date									
Shape       OVAL       Size       12mm         Flavor       Imprint Code       AA95         Contains       Imprint Code       Marketing Start         #       Item Code       Package Description       Marketing Start       Marketing End Date         1       NDC:69238- 1149-3       30 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product       10/22/2018       10/22/2018         2       NDC:69238- 1149-9       90 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product       10/22/2018       10/22/2018	Product Char	racteristics							
Flavor       Imprint Code       AA95         AA95         Contains         Imprint Code         Marketing Start Date         Imprint Code       Marketing End Date         Imprint Code       Imprint Code         Imprint Code       Marketing End Date         Imprint Code       Imprint Code         Imprint Code       Imprint Code         Imprint Code       Marketing End Date         Imprint Code       Imprint Code	Color	pi	nk	Score		no	score		
Interview of the second secon	Shape	0	VAL	Size		12r	mm		
#       Item Code       Package Description       Marketing Start Date       Marketing End Date         1       NDC:69238- 1149-3       30 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product       10/22/2018       10/22/2018         2       NDC:69238- 1149-9       90 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product       10/22/2018         Marketing Information       Front Control       Marketing Start Date       Marketing End Date	Flavor			Imprint Code		AAS	95		
#       Item Code       Package Description       Marketing Start Date       Marketing End Date         1       NDC:69238- 1149-3       30 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product       10/22/2018       10/22/2018         2       NDC:69238- 1149-9       90 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product       10/22/2018       10/22/2018         Marketing Information       Marketing Category       Application Number or Monograph Citation       Marketing Start Date       Marketing Start Date									
#       Item Code       Package Description       Marketing Start Date       Marketing End Date         1       NDC:69238- 1149-3       30 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product       10/22/2018       10/22/2018         2       NDC:69238- 1149-9       90 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product       10/22/2018       10/22/2018         Marketing Information       Marketing Category       Application Number or Monograph Citation       Marketing Start Date       Marketing Start Date	Contains								
#       Item Code       Package Description       Marketing Start Date       Marketing End Date         1       NDC:69238- 1149-3       30 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product       10/22/2018       10/22/2018         2       NDC:69238- 1149-9       90 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product       10/22/2018       10/22/2018         Marketing Information       Marketing Category       Application Number or Monograph Citation       Marketing Start Date       Marketing Start Date	Contains								
1       NDC:69238- 1149-3       30 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product       10/22/2018         2       NDC:69238- 1149-9       90 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product       10/22/2018         Marketing Information         Marketing Category       Application Number or Monograph Citation       Marketing Start Date       Marketing Enc Date									
2       NDC:69238- 1149-9       90 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product       10/22/2018         Marketing Information         Marketing Category       Application Number or Monograph Citation       Marketing Start Date       Marketing Enc Date	Packaging	P	ackage De	scription		-			
Marketing CategoryApplication Number or Monograph CitationMarketing Start DateMarketing Enc Date	Packaging # Item Code 1 NDC:69238-	30 in 1 BOTTL	E, PLASTIC; Ty	•	Da	ite			
Marketing CategoryApplication Number or Monograph CitationMarketing Start DateMarketing End Date	Packaging           #         Item Code           1         NDC:69238- 1149-3           2         NDC:69238-	30 in 1 BOTTL Combination P 90 in 1 BOTTL	E, PLASTIC; Ty roduct E, PLASTIC; Ty	vpe 0: Not a	Da 10/22/2018	ite			
Category Citation Date Date	Packaging           #         Item Code           1         NDC:69238- 1149-3           2         NDC:69238-	30 in 1 BOTTL Combination P 90 in 1 BOTTL	E, PLASTIC; Ty roduct E, PLASTIC; Ty	vpe 0: Not a	Da 10/22/2018	ite			
	Packaging         #       Item Code         1       NDC:69238- 1149-3         2       NDC:69238- 1149-9	30 in 1 BOTTLI Combination P 90 in 1 BOTTLI Combination P	E, PLASTIC; Ty roduct E, PLASTIC; Ty roduct	vpe 0: Not a	Da 10/22/2018	ite			
	Packaging         #       Item Code         1       NDC:69238- 1149-3         2       NDC:69238- 1149-9         Marketing	30 in 1 BOTTL Combination P 90 in 1 BOTTL Combination P	E, PLASTIC; Ty roduct E, PLASTIC; Ty roduct	rpe 0: Not a rpe 0: Not a er or Monograph	Da           10/22/2018           10/22/2018           Marketin	nte ng Start	ſ	Date Date	

Labeler - Amneal Pharmaceuticals NY LLC (123797875)

## Establishment Name Address ID/FEI Business Operations

Revised: 8/2023

Amneal Pharmaceuticals NY LLC