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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 Indications and Usage (1) 07/2024

INDICATIONS AND USAGE Rosuvastatin tablets are an HMG Co-A reductase inhibitor (statin) indicated: (1)

- To reduce the risk of major adverse cardiovascular (CV) events (CV death, nonfatal myocardial infarction, nonfatal stroke, or an arterial revascularization procedure) in adults without established coronary heart disease who are at increased risk of CV disease based on age, high-sensitivity C-reactive protein (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 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.
Hypertriacylglyceridemia.

DOSE AND ADMINISTRATION 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 rosuvastatin tablets, and 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 mg once daily for patients aged 8 to less than 10 years of age, and 5 mg to 20 mg once daily for patients aged 10 years and older (2.2)

Pediatric Patients with HoFH: Recommended dosage is 20 mg once daily for patients aged 7 years and older (2.2)

Asian Patients: Initiate at 5 mg once daily. Consider risks and benefits of treatment if not adequately controlled at doses up to 20 mg once daily (2.4)

Patients with Severe Renal Impairment (not on hemodialysis): Initiate at 5 mg once daily; do not exceed 10 mg once daily (2.5)

See full prescribing information for rosuvastatin tablets dosage and administration modifications due

FULL PRESCRIBING INFORMATION: CONTENTS

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE Rosuvastatin tablets are indicated:

To reduce the risk of major adverse cardiovascular (CV) events (CV death, nonfatal myocardial infarction, nonfatal stroke, or an arterial revascularization procedure) in adults without established coronary heart disease who are at increased risk of CV disease based on age, high-sensitivity C-reactive protein (hsCRP) ≥2 mg/L, and at least one additional CV risk factor.

- As an adjunct to diet to:
Reduce low-density lipoprotein cholesterol (LDL-C) in adults with primary hyperlipidemia.
Reduce 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.
Hypertriacylglyceridemia.

2 DOSAGE AND ADMINISTRATION

2.1 General Dosage and Administration Information

Administer rosuvastatin tablets orally as a single dose at any time of day, with or without food. Swallow the tablets 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 to take an extra dose. Resume treatment with the next scheduled dose at the next day.

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)).

2.2 Recommended Dosage in Adult Patients

The dosage range for rosuvastatin tablets is 5 mg to 40 mg once daily.

The recommended dose of rosuvastatin tablets depends on a patient's indication for use, LDL-C, and individual risk for CV 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 (CrCl less than 30 mL/min/1.73 m²) 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 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 Tablets Dosage Modifications Due to Drug Interactions

Table with 2 columns: Concomitantly Used Drug, Rosuvastatin Tablets Dosage Modifications. Rows include Cyclosporine, Terfenadine, Enalapril, Capmatinib, Fostamatinib, Febuxostat, Gemfibrozil, Tafamidis, Antiviral Medications (Sofosbuvir/Velpatasvir/Voxilaprevir, Ledipasvir/Sofosbuvir, Simeprevir, Dasabuvir/Ombitasvir/Paritaprevir/Ritonavir, Ebasvir/Gracoprevir, Sofosbuvir/Velpatasvir, Glecaprevir/Pibrentasvir, Atazanavir/Ritonavir, Lopinavir/Ritonavir), Darolutamide, Regorafenib.

3 DOSAGE FORMS AND STRENGTHS Rosuvastatin Tablets, USP

- 5 mg of rosuvastatin: pink colored, oval shaped, biconvex, film coated tablets, debossed with SG on one side and 116 other side.
10 mg of rosuvastatin: pink colored, round, biconvex, film coated tablets, debossed with SG on one side and 117 other side.
20 mg of rosuvastatin: pink colored, round, biconvex, film coated tablets, debossed with SG on one side and 118 other side.
40 mg of rosuvastatin: pink colored, oval shaped, biconvex, film coated tablets debossed with SG on one side and 119 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 tablets (see Adverse Reactions (6.1)).

DOSE FORMS AND STRENGTHS Tablets: 5 mg, 10 mg, 20 mg, and 40 mg of rosuvastatin (3)

CONTRAINDICATIONS Acute liver failure or decompensated cirrhosis (4)

Hypersensitivity to rosuvastatin or any excipients in rosuvastatin tablets (4)

WARNINGS AND PRECAUTIONS

Myopathy and Rhabdomyolysis: Risk factors include age 65 years or greater, uncontrolled hypothyroidism, renal impairment, concomitant use with certain other drugs, and higher rosuvastatin tablets dosage. Asian patients may be at higher risk for myopathy. Discontinue rosuvastatin tablets if markedly elevated CK levels occur or myopathy is diagnosed or suspected. Temporarily discontinue rosuvastatin tablets in patients experiencing an acute or serious condition at high risk of developing renal failure secondary to rhabdomyolysis. Inform patients of the risk of myopathy and rhabdomyolysis when starting or increasing rosuvastatin tablets dosage. Instruct patients to promptly report unexplained muscle pain, tenderness, or weakness, particularly if accompanied by malaise or fever (5.1)

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

ADVERSE REACTIONS Most frequent adverse reactions (rate ≥ 2%) are headache, nausea, myalgia, asthenia, and constipation (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact ScieGen Pharmaceuticals, Inc., at 1-855-724-3436 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

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

Aluminum and Magnesium Hydroxide Combination Antacids: Administer rosuvastatin tablets at least 2 hours before the antacid (7.2)

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

USE IN SPECIFIC POPULATIONS

Pregnancy: May cause fetal harm (8.1)

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

See 17 for PATIENT COUNSELING INFORMATION and FDA approved patient labeling. Revised: 1/2025

7.3 Rosuvastatin Effects on Other Drugs

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

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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 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 hypotension; 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. In some instances these increases may be a different type of myopathy than that associated with rhabdomyolysis. 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 postmarketing 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 tablets 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 ≥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 ≥2% of Patients Treated with Rosuvastatin and > Placebo in the JUPITER-Controlled Trials

Table with 7 columns: Adverse Reactions, Placebo N=382%, Rosuvastatin 5 mg N=291%, Rosuvastatin 10 mg N=283%, Rosuvastatin 20 mg N=64%, Rosuvastatin 40 mg N=108%, Rosuvastatin 5 mg to 40 mg N=74%, Total Rosuvastatin 5 mg to 40 mg N=74%. Rows include Headache, Nausea, Myalgia, Asthenia, Constipation.

6.2 Postmarketing Experience

The following adverse reactions have been identified during postapproval 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 to establish a causal relationship to drug exposure.

Abnormal Systemic Disorders: peripheral neuropathy, rare postmarketing reports of cognitive impairment (e.g., memory loss, forgetfulness, amnesia, memory impairment, and confusion) associated with the use of statins. The reports are generally nonspecific, 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), ichthyoid drug eruption

7 DRUG INTERACTIONS

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

Rosuvastatin is a substrate of CYP2C8 and transporters (such as OATP1B1, BCRP). Rosuvastatin plasma levels can be significantly increased with concomitant administration of inhibitors of CYP2C8 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 (12.2)).

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

Table with 3 columns: Adverse Reactions, Placebo N=281%, Rosuvastatin 40 mg N=700%. Rows include Headache, Myalgia, Arthralgia.

Headache, Dizziness, Increased CPK, Abdominal pain, ALT greater than 3xULN

Table with 3 columns: Adverse Reactions, Placebo N=890%, Rosuvastatin 20 mg N=891%. Rows include Myalgia, Arthralgia, Constipation, Diabetes mellitus, Nausea.

Frequency recorded as abnormal laboratory value. In the JUPITER study, patients were treated with rosuvastatin 20 mg (n=890) or placebo (n=890) 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 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 ≥ 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

Table with 3 columns: Adverse Reactions, Placebo N=890%, Rosuvastatin 20 mg N=891%. Rows include Myalgia, Arthralgia, Constipation, Diabetes mellitus, Nausea.

Pediatric Patients with HeFH

In a 12-week controlled study in pediatric patients 10 to 17 years of age with HeFH with rosuvastatin 5 mg 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 Postmarketing Experience

The following adverse reactions have been identified during postapproval 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 to 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 postmarketing reports of cognitive impairment (e.g., memory loss, forgetfulness, amnesia, memory impairment, and confusion) associated with the use of statins. The reports are generally nonspecific, 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), ichthyoid drug eruption

7 DRUG INTERACTIONS

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

Rosuvastatin is a substrate of CYP2C8 and transporters (such as OATP1B1, BCRP). Rosuvastatin plasma levels can be significantly increased with concomitant administration of inhibitors of CYP2C8 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 (12.2)).

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

Table with 3 columns: Drug, Clinical Impact, Intervention. Rows include Cyclosporine, Terfenadine, Enalapril, Capmatinib, Fostamatinib, Febuxostat, Gemfibrozil, Tafamidis, Anti-Viral Medications (Sofosbuvir/Velpatasvir/Voxilaprevir, Ledipasvir/Sofosbuvir, Simeprevir, Dasabuvir/Ombitasvir/Paritaprevir/Ritonavir, Ebasvir/Gracoprevir, Sofosbuvir/Velpatasvir, Glecaprevir/Pibrentasvir, Atazanavir/Ritonavir, Lopinavir/Ritonavir), Darolutamide, Regorafenib, Regorafenib, Fenofibrates (e.g., fenofibrate and fenofibric acid), Niacin, Colchicine, Ticagrelor.

Clinical Impact: Concomitant use of rosuvastatin and ticagrelor has been shown to increase rosuvastatin concentrations, which may result in increased risk of myopathy.

Cases of myopathy and rhabdomyolysis have been reported in patients using both products concomitantly. Cases have occurred more frequently in patients taking 40 mg of rosuvastatin.

Intervention: In patients taking concomitant ticagrelor, especially those with additional risk factors for myopathy and rhabdomyolysis, monitor patients for signs and symptoms of myopathy, particularly during initiation of therapy and during upward dose titration of rosuvastatin.

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

Table with 2 columns: Drug, Clinical Impact. Rows include Antacids, Warfarin.

7.3 Rosuvastatin Effects on Other Drugs

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

Table 7: Rosuvastatin Effects on Other Drugs

Table with 2 columns: Drug, Clinical Impact. Rows include Warfarin, Pregnancy.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Discourage 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 retrospective and prospective 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

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density lipoproteins. The maximum LDL-C reduction of rosuvastatin is usually achieved by 4 weeks and is maintained after that.

12.3 Pharmacokinetics

Absorption: In clinical pharmacology studies in man, peak plasma concentrations of rosuvastatin were reached 3 to 5 hours following oral dosing. Both Cmax 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 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.

Elimination

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

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

Pediatric Patients

In a population pharmacokinetic analysis of two pediatric trials involving patients with HeFH 10 years to 17 years of age and 8 years 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 males and females.

Racial or Ethnic Groups

A population pharmacokinetic analysis revealed no clinically relevant differences in pharmacokinetics among White, Hispanic or Latino ethnicity 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 Cmax) in Asian subjects when compared with a White control group.

Patients with Renal Impairment

Mild to moderate renal impairment (CLcr >= 30 mL/min/1.73 m2) 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 (CLcr < 30 mL/min/1.73 m2) not receiving hemodialysis compared with healthy subjects (CLcr > 80 mL/min/1.73 m2).

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, Cmax and AUC were increased by 60% and 5%, respectively, as compared with patients with normal liver function. In patients with Child-Pugh B disease, Cmax and AUC were increased 100% and 21%, respectively, compared with patients with normal liver function.

Drug Interaction 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 polypeptide 1B1 (OATP1B1) and efflux transporter breast cancer resistance protein (BCRP). Concomitant administration of rosuvastatin tablets with medications that are inhibitors of these transporter proteins (e.g., cyclosporine, certain HIV protease inhibitors [see Dosage and Administration (2.2)] and Drug Interactions (7.1)] and fexofenadine [see Drug Interactions (7.1)] may result in increased rosuvastatin plasma concentrations.

Table 8: Effect of Coadministered Drugs on Rosuvastatin Systemic Exposure

Table with 4 columns: Coadministered drug and dosing regimen, Rosuvastatin Dose (mg), Change in AUC, Change in Cmax. Lists various drug interactions like Sofosbuvir/velpatasvir, Cyclosporine, Darolutamide, Regorafenib, etc.

Table with 4 columns: Coadministered drug and dosing regimen, Rosuvastatin Dose (mg), Change in AUC, Change in Cmax. Lists various drug interactions like Tafamidis, Eltrombopag, Darunavir, etc.

QD=Once daily, BID=Twice daily, TID=Three times daily, QID=Four times daily
Single dose unless otherwise noted.
Clinically significant (see Dosage and Administration (2) and Warnings and Precautions (5))
Mean ratio with 90% CI (with/without coadministered drug, e.g., 1 = no change, 0.7 = 30% decrease, 1.1 = 11-fold increase in exposure)

Table 9: Effect of Rosuvastatin Coadministration on Systemic Exposure to Other Drugs

Table with 4 columns: Rosuvastatin Dosage Regimen, Coadministered Drug, Name and Dose, Change in AUC, Change in Cmax. Lists Warfarin, Digoxin, Oral Contraceptive, etc.

EE = ethinyl estradiol, NG = norgestrel, QD=Once daily
Clinically significant pharmacodynamic effects (see Drug Interactions (7.3))
Mean ratio with 90% CI (with/without coadministered drug, e.g., 1 = no change, 0.7=30% decrease, 1.1=11-fold increase in exposure)

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 521T > C) is generally lower than 5% in most racial/ethnic groups. The impact of the 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 mg/kg/day, 20 mg/kg/day, 60 mg/kg/day, 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/kg/day based on AUC. Increased incidence of polyps was not seen at lower doses.

In a 107-week carcinogenicity study in mice given 10 mg/kg/day, 60 mg/kg/day, or 200 mg/kg/day by oral gavage, an increased incidence of hepatocellular adenoma/carcinoma was observed at 200 mg/kg/day at systemic exposure 20 times the human exposure at 40 mg/kg/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.

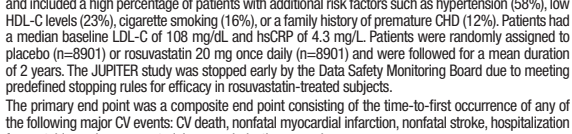
In rat fertility studies with oral gavage doses of 5 mg/kg/day, 15 mg/kg/day, 50 mg/kg/day, males were treated for 9 weeks prior to and throughout mating and females were treated 2 weeks prior to mating and throughout mating until gestation day 7. No adverse effect on fertility was observed at 50 mg/kg/day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

14 CLINICAL STUDIES

Primary Prevention of CV 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 CV disease events was assessed in 17,802 males (>50 years) and females (>60 years) who had no clinically evident CV disease. LDL-C levels <130 mg/dL and hsCRP levels >=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 (23%), cigarette smoking (19%), 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=8901) or rosuvastatin 20 mg once daily (n=8901) and were followed for a mean duration of 2 years. The JUPITER study was 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, TG, and hsCRP levels.

Figure 1. Time to First Occurrence of Major CV 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 CV 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 >=2 mg/L and no other traditional risk factors (smoking, BP >=140/90 or taking antihypertensives, low HDL-C) other than age, after adjustment for high LDL-C, there was no significant treatment benefit with rosuvastatin treatment.

Figure 2. Major CV Events by Treatment Group in JUPITER

Table with 4 columns: Endpoint, Rosuvastatin 20 mg (n=8901), Placebo (n=8901), Hazard Ratio (95% CI). Lists endpoints like Myocardial infarction, Stroke, etc.

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.

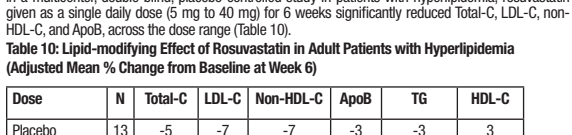
In a multicenter, double-blind, placebo-controlled study in patients with hyperlipidemia, rosuvastatin given as a single daily dose (5 mg to 40 mg) for 6 weeks significantly reduced Total-C, LDL-C, non-HDL-C, and ApoB, across the dose range (Table 10).

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

Table with 7 columns: Dose, N, Total-C, LDL-C, Non-HDL-C, ApoB, TG, HDL-C. Shows percentage changes for Placebo, Rosuvastatin 5mg, 10mg, 20mg, 40mg.

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 (see 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) in Adult Patients with Hyperlipidemia or Mixed Dyslipidemia (Sample Sizes Ranging from 156-167 Patients Per Group)

Table with 5 columns: Treatment, 10 mg, 20 mg, 40 mg, 80 mg. Shows percentage changes for Rosuvastatin, Atorvastatin, Simvastatin, and Pravastatin.

Table with 4 columns: Pravastatin, -20, -24, -30, ---. Shows percentage changes for Rosuvastatin 10mg, 20mg, 40mg, 80mg.

Corresponding standard errors are approximately 1.00.
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).
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).
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 intima-media thickness (IMT). In this double-blind, placebo-controlled clinical study 984 adult patients were randomized (of whom 576 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 increase in disease progression (defined as a negative annualized rate of change), compared to 57.7% 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 randomized (of whom 576 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).

Table 12: LDL-C Percent Change from Baseline

Table with 4 columns: Rosuvastatin (n=435) LS Mean (95% CI), Atorvastatin (n=187) LS Mean (95% CI). Shows percentage changes for Week 6, Week 12, Week 18 at 20mg and 40mg doses.

LS Means are least square means adjusted for baseline LDL-C

HeFH in Pediatric Patients

In a double-blind, randomized, multicenter, placebo-controlled, 12-week study, 176 (97 male and 79 female) pediatric patients with HeFH 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 post-menarche. 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 once 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 HeFH (Least-Squares Mean Percent Change from Baseline to Week 12)

Table with 6 columns: Dose (mg), N, LDL-C, HDL-C, Total-C, TG, ApoB. Shows percentage changes for Placebo, 5mg, 10mg, 20mg.

Median percent change
Difference from placebo not statistically significant

Rosuvastatin was also studied in a two-year open-label, uncontrolled, titration-to-goal trial that included 175 pediatric patients with HeFH who were 8 to 17 years old (79 males and 96 females). All patients had a documented genetic defect in the LDL receptor or in ApoB. Approximately 89% were White, 7% were Asian, 1% were Black or African American, and fewer than 1% were Hispanic or Latino ethnicity. Mean LDL-C at baseline was 235 mg/dL. Fifty-eight (33%) patients were prepubertal at baseline. The starting rosuvastatin dosage for all pediatric patients was 5 mg once daily. Pediatric patients aged 8 to less than 10 years (n=41 at baseline) could titrate to a maximum dosage of 10 mg once daily, and pediatric patients aged 10 to 17 years 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.

HeFH in Adult and Pediatric Patients

In an open-label, forced-titration study, HeFH patients (n=40, 8 years to 63 years) were evaluated for their response to rosuvastatin 20 mg to 40 mg titrated at a 6-week interval. In the overall population, the mean LDL-C reduction from baseline was 22%. About one-third 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.

Rosuvastatin was studied in a randomized, double-blind, placebo-controlled, multicenter, crossover study in 14 pediatric patients with HeFH. 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 or African American, and no patients were of Hispanic or Latino 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 be 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 HeFH After 6 Weeks

Table with 4 columns: Placebo (N=13), Rosuvastatin 20 mg (N=13), Percent difference. Shows percentage changes for LDL-C, Total-C, Non-HDL-C, ApoB.

% 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 (p<0.005, *p<0.002, †p<0.024)

Primary Dysbetalipoproteinemia in Adults

In a randomized, multicenter, double-blind crossover study, 32 adult patients (27 with c2/c2 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)

Table with 4 columns: 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. Shows percentage changes for Total-C, Triglycerides, Non-HDL-C, VLDL-C + IDL-C, LDL-C, HDL-C, RLP-C, Apo-E.

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

Table with 5 columns: Dose, Placebo (n=26), Rosuvastatin 5 mg (n=25), Rosuvastatin 10 mg (n=23), Rosuvastatin 20 mg (n=27), Rosuvastatin 40 mg (n=25). Shows percentage changes for Triglycerides, Non-HDL-C, Total-C, LDL-C, HDL-C.

16 HOW SUPPLIED/STORAGE AND HANDLING

Rosuvastatin tablets, USP are supplied as:

Table with 4 columns: Strength, How Supplied, NDC, Tablet Description. Lists 5mg, 10mg, 20mg, 40mg strengths and their packaging and descriptions.

17.875" L