

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

ROSUVASTATIN CALCIUM tablets, for oral use

Initial U.S. Approval: 2003

INDICATIONS AND USAGE

- Rosuvastatin Calcium is an HMG Co-A reductase inhibitor indicated for:
 - adult patients with hypertriglyceridemia as an adjunct to diet (1.3)
 - adult patients with primary dysbetalipoproteinemia (Type III hyperlipoproteinemia) as an adjunct to diet (1.4)
 - adult patients with homozygous familial hypercholesterolemia (HoFH) to reduce LDL-C, total-C, and ApoB (1.5)
- Limitations of Use (1.5):** Rosuvastatin calcium tablets has not been studied in Fredrickson Type I and V dyslipidemias.

DOSE AND ADMINISTRATION

- Rosuvastatin Calcium tablets can be taken with or without food, at any time of day. (2.1)
- Dose range: 5 to 40 mg once daily. Use 40 mg dose only for patients not reaching LDL-C goal with 20 mg. (2.1)
- Adult HoFH: Starting dose 20 mg/day (2.1)

DOSE FORMS AND STRENGTHS

Tablets: 5 mg, 10 mg, 20 mg, and 40 mg (3)

CONTRAINDICATIONS

- Known hypersensitivity to product components (4)
- Active liver disease, which may include unexplained persistent elevations in hepatic transaminase levels (4)
- Pregnancy (4, 8.1, 8.3)
- Lactation (4, 8.2)

WARNINGS AND PRECAUTIONS

- Skeletal muscle effects (e.g., myopathy and rhabdomyolysis):** Risks increase with use of 40 mg dose, advanced age (>65), hypothyroidism, renal impairment, and combination use with cyclosporine, atazanavir/ritonavir, lopinavir/ritonavir, or simvastatin. Cases of myopathy and rhabdomyolysis with acute renal failure secondary to myoglobinuria have been reported. Advise patients to promptly report to their physician unexplained and/or persistent muscle pain, tenderness, or weakness and discontinue rosuvastatin calcium if signs or symptoms appear. (5.1, 7.5, 7.6)

FULL PRESCRIBING INFORMATION: CONTENTS*

1 INDICATIONS AND USAGE

- Hypertriglyceridemia
- Primary Dysbetalipoproteinemia (Type III Hyperlipoproteinemia)
- Adult patients with Homozygous Familial Hypercholesterolemia (Type III Hyperlipoproteinemia)
- Limitations of Use

2 DOSAGE AND ADMINISTRATION

- General Dosing Information
- Dosing in Asian Patients
- Use with Concomitant Therapy
- Dosing in Patients with Severe Renal Impairment

3 DOSAGE FORMS AND STRENGTHS

4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS

- Skeletal Muscle Effects
- Liver Enzyme Abnormalities
- Concomitant Coumarin Anticoagulants
- Proteinuria and Hematuria
- Endocrine Effects
- Risk of Allergic Reactions due to Tartrazine

6 ADVERSE REACTIONS

- Clinical Studies Experience
- Postmarketing Experience

7 DRUG INTERACTIONS

- Cyclosporine
- Gemfibrozil
- Protease Inhibitors
- Coumarin Anticoagulants
- Niacin
- Fenofibrate
- Colchicine

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Pediatric use information for patients 7 to 17 years of age is approved for AstraZeneca's CRESTOR (rosuvastatin calcium) tablets. However, due to AstraZeneca's marketing exclusivity rights, this drug product is not labeled with that pediatric information.

1.3 Hypertriglyceridemia

Rosuvastatin calcium tablets are indicated as adjunctive therapy to diet for the treatment of adult patients with hypertriglyceridemia.

1.4 Primary Dysbetalipoproteinemia (Type III Hyperlipoproteinemia)

Rosuvastatin calcium tablets are indicated as an adjunct to diet for the treatment of adult patients with primary dysbetalipoproteinemia (Type III Hyperlipoproteinemia).

1.5 Adult patients with Homozygous Familial Hypercholesterolemia

Rosuvastatin calcium tablets are indicated as adjunctive therapy to other lipid-lowering treatments (e.g., LDL apheresis) or alone if such treatments are unavailable to reduce LDL-C, total-C, and ApoB in adult patients with homozygous familial hypercholesterolemia.

1.7 Limitations of Use

Rosuvastatin calcium tablets have not been studied in Fredrickson Type I and V dyslipidemias.

2. DOSAGE AND ADMINISTRATION

2.1 General Dosing Information

The dose range for rosuvastatin calcium tablets in adults is 5 to 40 mg orally once daily. The usual starting dose is 10 to 20 mg once daily. In patients with hypertriglyceridemia, the usual starting dose is 20 mg once daily. The maximum rosuvastatin calcium tablets dose of 40 mg should be used only for those patients who have not achieved their LDL-C goal utilizing the 20 mg dose [see *Warnings and Precautions* (5.1)].

Rosuvastatin calcium tablets can be administered as a single dose at any time of day, with or without food. The tablet should be swallowed whole.

When initiating rosuvastatin calcium tablets therapy or switching from another HMG-CoA reductase inhibitor therapy, the appropriate rosuvastatin calcium tablets starting dose should first be utilized, and only then titrated according to the patient's response and individualized goal of therapy.

After initiation or upon titration of rosuvastatin calcium tablets, lipid levels should be analyzed within 2 to 4 weeks and the dosage adjusted accordingly.

Pediatric use information for patients 7 to 17 years of age is approved for AstraZeneca's CRESTOR (rosuvastatin calcium) tablets. However, due to AstraZeneca's marketing exclusivity rights, this drug product is not labeled with that pediatric information.

2.3 Dosing in Asian Patients

In Asian patients, consider initiation of rosuvastatin calcium tablets therapy with 5 mg once daily due to increased rosuvastatin plasma concentrations. The increased systemic exposure should be taken into consideration when treating Asian patients not adequately controlled at doses up to 20 mg/day. [see *Use in Specific Populations* (8.6) and *Clinical Pharmacology* (12.3)].

2.4 Use with Concomitant Therapy

Patients taking cyclosporine
The dose of rosuvastatin calcium tablets should not exceed 5 mg once daily [see *Warnings and Precautions* (5.1), *Drug Interactions* (7.1), and *Clinical Pharmacology* (12.3)].

2.5 Dosing in Patients with Severe Renal Impairment

Avoid concomitant use of rosuvastatin calcium tablets with gemfibrozil. If concomitant use cannot be avoided, initiate rosuvastatin calcium tablets at 5 mg once daily. The dose of rosuvastatin calcium tablets should not exceed 10 mg once daily [see *Warnings and Precautions* (5.1), *Drug Interactions* (7.2), and *Clinical Pharmacology* (12.3)].

2.6 Dosing in Patients with Severe Renal Impairment

In patients with severe renal impairment (CrCl < 30 mL/min/1.73 m²) not on hemodialysis, dosing of rosuvastatin calcium tablets should be started at 5 mg once daily and not exceed 10 mg once daily [see *Use in Specific Populations* (8.6) and *Clinical Pharmacology* (12.3)].

3 DOSAGE FORMS AND STRENGTHS

- 5 mg: Yellow, round shaped, biconvex, film coated tablets debossed with "R5" on one side and plain on other side.
- 10 mg: Pink, round shaped, biconvex, film coated tablets debossed with "R10" on one side and plain on other side.
- 20 mg: Pink, round shaped, biconvex, film coated tablets debossed with "R20" on one side and plain on other side.
- 40 mg: Pink, oval shaped, biconvex, film coated tablets debossed with "R" on one side and "40" on other side.

4 CONTRAINDICATIONS

- Rosuvastatin calcium is contraindicated in the following conditions:
 - Patients with a known hypersensitivity to any component of this product. Hypersensitivity reactions including rash, pruritus, urticaria, and angioedema have been reported with rosuvastatin calcium [see *Warnings and Precautions* (5.1)].
 - Patients with active liver disease, which may include unexplained persistent elevations of hepatic transaminase levels [see *Warnings and Precautions* (5.2)].
 - Pregnancy [see *Use in Specific Populations* (8.1, 8.3)].
 - Lactation. Limited data indicate that rosuvastatin calcium is present in human milk. Because statins have the potential for serious adverse reactions in nursing infants, women who require rosuvastatin calcium treatment should not breastfeed their infants [see *Use in Specific Populations* (8.2)].

5 WARNINGS AND PRECAUTIONS

5.1 Skeletal Muscle Effects

Cases of myopathy and rhabdomyolysis with acute renal failure secondary to myoglobinuria have been reported with HMG-CoA reductase inhibitors, including rosuvastatin calcium tablets. These risks can occur at any dose level, but are increased at the highest dose (40 mg).

5.2 Liver Enzyme Abnormalities

Concomitant use of rosuvastatin calcium tablets with cyclosporine, atazanavir/ritonavir, lopinavir/ritonavir, or simvastatin may increase the risk of liver enzyme abnormalities [see *Warnings and Precautions* (5.1)].

5.3 Concomitant Coumarin Anticoagulants

Concomitant use of rosuvastatin calcium tablets with coumarin-type anticoagulants is contraindicated because of the potential for increased risk of bleeding [see *Warnings and Precautions* (5.3)].

5.4 Proteinuria and Hematuria

Rosuvastatin calcium tablets may increase the risk of proteinuria and microscopic hematuria [see *Warnings and Precautions* (5.4)].

5.5 Endocrine Effects

Rosuvastatin calcium tablets may increase the risk of hypothyroidism, hyperparathyroidism, and other endocrine effects [see *Warnings and Precautions* (5.5)].

5.6 Allergic Reactions

Rosuvastatin calcium tablets contain tartrazine, which may cause allergic reactions in patients with a known hypersensitivity to tartrazine [see *Warnings and Precautions* (5.6)].

5.7 Rhabdomyolysis

Rhabdomyolysis is a rare but potentially fatal complication of treatment with HMG-CoA reductase inhibitors. Cases of rhabdomyolysis with acute renal failure secondary to myoglobinuria have been reported with HMG-CoA reductase inhibitors, including rosuvastatin calcium tablets. These risks can occur at any dose level, but are increased at the highest dose (40 mg).

5.8 Myopathy

Myopathy is a rare but potentially serious complication of treatment with HMG-CoA reductase inhibitors. Cases of myopathy with acute renal failure secondary to myoglobinuria have been reported with HMG-CoA reductase inhibitors, including rosuvastatin calcium tablets. These risks can occur at any dose level, but are increased at the highest dose (40 mg).

5.9 Myalgia

Myalgia is a common side effect of treatment with HMG-CoA reductase inhibitors. Myalgia has been reported with rosuvastatin calcium tablets. Myalgia is more common with higher doses and may be associated with laboratory evidence of muscle injury.

5.10 Nausea

Nausea is a common side effect of treatment with HMG-CoA reductase inhibitors. Nausea has been reported with rosuvastatin calcium tablets. Nausea is more common with higher doses and may be associated with laboratory evidence of muscle injury.

5.11 Rash

Rash is a common side effect of treatment with HMG-CoA reductase inhibitors. Rash has been reported with rosuvastatin calcium tablets. Rash is more common with higher doses and may be associated with laboratory evidence of muscle injury.

5.12 Urticaria

Urticaria is a common side effect of treatment with HMG-CoA reductase inhibitors. Urticaria has been reported with rosuvastatin calcium tablets. Urticaria is more common with higher doses and may be associated with laboratory evidence of muscle injury.

5.13 Angioedema

Angioedema is a common side effect of treatment with HMG-CoA reductase inhibitors. Angioedema has been reported with rosuvastatin calcium tablets. Angioedema is more common with higher doses and may be associated with laboratory evidence of muscle injury.

5.14 Hypertension

Hypertension is a common side effect of treatment with HMG-CoA reductase inhibitors. Hypertension has been reported with rosuvastatin calcium tablets. Hypertension is more common with higher doses and may be associated with laboratory evidence of muscle injury.

5.15 Headache

Headache is a common side effect of treatment with HMG-CoA reductase inhibitors. Headache has been reported with rosuvastatin calcium tablets. Headache is more common with higher doses and may be associated with laboratory evidence of muscle injury.

5.16 Dizziness

Dizziness is a common side effect of treatment with HMG-CoA reductase inhibitors. Dizziness has been reported with rosuvastatin calcium tablets. Dizziness is more common with higher doses and may be associated with laboratory evidence of muscle injury.

5.17 Constipation

Constipation is a common side effect of treatment with HMG-CoA reductase inhibitors. Constipation has been reported with rosuvastatin calcium tablets. Constipation is more common with higher doses and may be associated with laboratory evidence of muscle injury.

5.18 Diarrhea

Diarrhea is a common side effect of treatment with HMG-CoA reductase inhibitors. Diarrhea has been reported with rosuvastatin calcium tablets. Diarrhea is more common with higher doses and may be associated with laboratory evidence of muscle injury.

5.19 Abdominal Pain

Abdominal pain is a common side effect of treatment with HMG-CoA reductase inhibitors. Abdominal pain has been reported with rosuvastatin calcium tablets. Abdominal pain is more common with higher doses and may be associated with laboratory evidence of muscle injury.

5.20 Nausea

Nausea is a common side effect of treatment with HMG-CoA reductase inhibitors. Nausea has been reported with rosuvastatin calcium tablets. Nausea is more common with higher doses and may be associated with laboratory evidence of muscle injury.

5.21 Fatigue

Fatigue is a common side effect of treatment with HMG-CoA reductase inhibitors. Fatigue has been reported with rosuvastatin calcium tablets. Fatigue is more common with higher doses and may be associated with laboratory evidence of muscle injury.

5.22 Back Pain

Back pain is a common side effect of treatment with HMG-CoA reductase inhibitors. Back pain has been reported with rosuvastatin calcium tablets. Back pain is more common with higher doses and may be associated with laboratory evidence of muscle injury.

5.23 Joint Pain

Joint pain is a common side effect of treatment with HMG-CoA reductase inhibitors. Joint pain has been reported with rosuvastatin calcium tablets. Joint pain is more common with higher doses and may be associated with laboratory evidence of muscle injury.

5.24 Muscle Pain

Muscle pain is a common side effect of treatment with HMG-CoA reductase inhibitors. Muscle pain has been reported with rosuvastatin calcium tablets. Muscle pain is more common with higher doses and may be associated with laboratory evidence of muscle injury.

5.25 Weakness

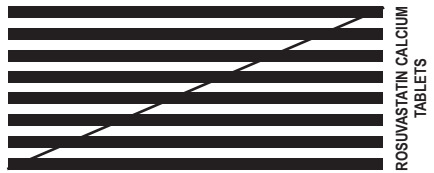
Weakness is a common side effect of treatment with HMG-CoA reductase inhibitors. Weakness has been reported with rosuvastatin calcium tablets. Weakness is more common with higher doses and may be associated with laboratory evidence of muscle injury.

5.26 Insomnia

Insomnia is a common side effect of treatment with HMG-CoA reductase inhibitors. Insomnia has been reported with rosuvastatin calcium tablets. Insomnia is more common with higher doses and may be associated with laboratory evidence of muscle injury.

5.27 Anxiety

Anxiety is a common side effect of treatment with HMG-CoA reductase inhibitors. Anxiety has been reported with rosuvastatin calcium tablets. Anxiety is more common with higher doses and may be associated with laboratory evidence of muscle injury.



• **Liver enzyme abnormalities:** Persistent elevations in hepatic transaminases can occur. Perform liver enzyme tests before initiating therapy and as clinically indicated thereafter. (5.2)

ADVERSE REACTIONS

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

To report SUSPECTED ADVERSE REACTIONS, contact Novartis Pharmaceuticals LLC at 1-855-668-2369 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Cyclosporine:** Combination increases rosuvastatin exposure. Limit rosuvastatin calcium dose to 5 mg once daily. (2.4, 5.1, 7.1, 12.3)
- Gemfibrozil:** Combination should be avoided. If used together, limit rosuvastatin calcium dose to 10 mg once daily. (2.4, 5.1, 7.2)
- Atazanavir/ritonavir, lopinavir/ritonavir, or simvastatin:** Combination increases rosuvastatin exposure. Limit rosuvastatin calcium dose to 10 mg once daily. (2.4, 5.1, 7.3, 12.3)
- Coumarin anticoagulants:** Combination prolongs INR. Achieve stable INR prior to starting rosuvastatin calcium. Monitor INR frequently until stable upon initiation or alteration of rosuvastatin calcium therapy. (5.3, 7.4)
- Concomitant lipid-lowering therapies:** Use with fibrates or lipid-modifying doses (≥1 g/day) of niacin increases the risk of adverse skeletal muscle effects. Caution should be used when prescribing with rosuvastatin calcium. (5.1, 7.5, 7.6)

USE IN SPECIFIC POPULATIONS

- Females of reproductive potential:** Advise females of reproductive potential to use effective contraception during treatment with rosuvastatin calcium (8.3)
- Severe renal impairment (not on hemodialysis):** Starting dose is 5 mg, not to exceed 10 mg. (2.5, 5.1, 8.6)
- Asian population:** Consider 5 mg starting dose. (2.3, 8.6)

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

Pediatric use information for patients 7 to 17 years of age is approved for AstraZeneca's CRESTOR (rosuvastatin calcium) tablets. However, due to AstraZeneca's marketing exclusivity rights, this drug product is not labeled with that pediatric information.

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8 USE IN SPECIFIC POPULATIONS

- Pregnancy
- Lactation
- Females and Males of Reproductive Potential
- Pediatric Use
- Geriatric Use
- Renal Impairment
- Hepatic Impairment
- Asian Patients

10 OVERDOSAGE

11 DESCRIPTION

12 CLINICAL PHARMACOLOGY

- Mechanism of Action
- Pharmacokinetics
- Pharmacodynamics

13 NONCLINICAL TOXICOLOGY

- Carcinogenesis, Mutagenesis, Impairment of Fertility
- Animal Toxicology and/or Pharmacology

14 CLINICAL STUDIES

- Hypertriglyceridemia
- Primary Dysbetalipoproteinemia (Type III Hyperlipoproteinemia)
- Homozygous Familial Hypercholesterolemia

16 HOW SUPPLIED/STORAGE AND HANDLING

17 PATIENT COUNSELING INFORMATION

*Sections or subsections omitted from the full prescribing information are not listed.

Rosuvastatin calcium should be prescribed with caution in patients with predisposing factors for myopathy (e.g., age \geq 65 years, inadequately treated hypothyroidism, renal impairment).

The risk of myopathy during treatment with rosuvastatin calcium may be increased with concurrent administration of some other lipid-lowering therapies (fibrates or niacin), gemfibrozil, cyclosporine, atazanavir/ritonavir, lopinavir/ritonavir, or simvastatin (see *Dosage and Administration* (2) and *Drug Interactions* (7)). Cases of myopathy, including rhabdomyolysis, have been reported with HMG-CoA reductase inhibitors, including rosuvastatin, coadministered with colchicine, and caution should be exercised when prescribing rosuvastatin calcium with colchicine [see *Drug Interactions* (7.7)].

Rosuvastatin calcium therapy should be discontinued if markedly elevated creatine kinase levels occur or myopathy is diagnosed or suspected. Rosuvastatin calcium therapy should also be temporarily withheld in any patient with an acute, serious condition suggestive of myopathy or predisposing to the development of renal failure secondary to rhabdomyolysis (e.g., sepsis, hypotension, dehydration, major surgery, trauma, severe metabolic, endocrine, and electrolyte disorders, or uncontrolled seizures).

There have been rare reports of immune-mediated necrotizing myopathy (IMNM), an autoimmune myopathy, associated with statin use. IMNM is characterized by proximal muscle weakness and elevated serum creatine kinase, which persist despite discontinuation of statin treatment; muscle biopsy showing necrotizing myopathy without significant inflammation; improvement with immunosuppressive agents.

All patients should be advised to promptly report to their physician unexplained muscle pain, tenderness, or weakness, particularly if accompanied by malaise or fever or if muscle signs and symptoms persist after discontinuing rosuvastatin calcium.

5.2 Liver Enzyme Abnormalities

It is recommended that liver enzyme tests be performed before the initiation of rosuvastatin calcium, and if signs or symptoms of liver injury occur.

Increases in serum transaminases (AST [SGOT] or ALT [SGPT]) have been reported with HMG-CoA reductase inhibitors, including rosuvastatin calcium. In most cases, the elevations were transient and resolved or improved on continued therapy or after a brief interruption in therapy. There were two cases of jaundice, for which a relationship to rosuvastatin calcium therapy could not be determined, which resolved after discontinuation of therapy. There were no cases of liver failure or irreversible liver disease in these trials.

In a pooled analysis of placebo-controlled trials, increases in serum transaminases to $>$ 3 times the upper limit of normal occurred in 1.1% of patients taking rosuvastatin calcium versus 0.5% of patients treated with placebo.

There have been rare postmarketing reports of fatal and non-fatal hepatic failure in patients taking statins, including rosuvastatin. If serious liver injury with clinical symptoms and/or hyperbilirubinemia or jaundice occurs during treatment with rosuvastatin calcium, promptly interrupt therapy. If an alternate etiology is not found, do not restart rosuvastatin calcium.

There have been rare reports of immune-mediated necrotizing myopathy (IMNM), an autoimmune myopathy, associated with statin use. IMNM is characterized by proximal muscle weakness and elevated serum creatine kinase, which persist despite discontinuation of statin treatment; muscle biopsy showing necrotizing myopathy without significant inflammation; improvement with immunosuppressive agents.

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In a pooled analysis of placebo-controlled trials, increases in serum transaminases to $>$ 3 times the upper limit of normal occurred in 1.1% of patients taking rosuvastatin calcium versus 0.5% of patients treated with placebo.

There have been rare postmarketing reports of fatal and non-fatal hepatic failure in patients taking statins, including rosuvastatin. If serious liver injury with clinical symptoms and/or hyperbilirubinemia or jaundice occurs during treatment with rosuvastatin calcium, promptly interrupt therapy. If an alternate etiology is not found, do not restart rosuvastatin calcium.

There have been rare reports of immune-mediated necrotizing myopathy (IMNM), an autoimmune myopathy, associated with statin use. IMNM is characterized by proximal muscle weakness and elevated serum creatine kinase, which persist despite discontinuation of statin treatment; muscle biopsy showing necrotizing myopathy without significant inflammation; improvement with immunosuppressive agents.

5.3 Concomitant Coumarin Anticoagulants

Caution should be exercised when anticoagulants are given in conjunction with rosuvastatin calcium because of its potentiation of the effect of coumarin-type anticoagulants in prolonging the prothrombin time/INR. In patients taking coumarin anticoagulants and rosuvastatin calcium concomitantly, INR should be determined before starting rosuvastatin calcium and frequently enough during early therapy to ensure that no significant alteration of INR occurs [see *Drug Interactions* (7.4)].

5.4 Proteinuria and Hematuria

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

5.5 Endocrine Effects

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

Although clinical studies have shown that rosuvastatin calcium alone does not reduce basal plasma cortisol concentration or impair adrenal reserve, caution should be exercised if rosuvastatin calcium is administered concomitantly with drugs that may decrease the levels or activity of endogenous steroid hormones such as ketoconazole, spiroglactone, and cimectidine.

5.6 Risk of Allergic Reactions due to Tartrazine

Rosuvastatin calcium tablets, 5 mg contains FD&C Yellow No. 5 (tartrazine) which may cause allergic-type reactions (including bronchial asthma) in certain susceptible persons. Although the overall incidence of FD&C Yellow No. 5 (tartrazine) sensitivity in the general population is low, it is frequently seen in patients who also have aspirin hypersensitivity.

6 ADVERSE REACTIONS

The following serious

Data

Human Data

Limited published data on rosuvastatin have not shown an increased risk of major congenital malformations or miscarriage. Rare reports of congenital anomalies have been received following intrathecal exposure to other statins. In a review of approximately 100 prospectively followed pregnancies in women exposed to simvastatin or lovastatin, the incidences of congenital anomalies, spontaneous abortions, and fetal deaths/stillbirths did not exceed what would be expected in the general population. The number of cases is adequate to exclude a 2- to 4-fold increase in congenital anomalies over the background incidence. In 89% of the prospectively followed pregnancies, drug treatment was initiated prior to pregnancy and was discontinued at some point in the first trimester when pregnancy was identified.

Animal Data

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. A higher fetal tissue distribution (25% maternal plasma concentration) was observed in rabbits after a single oral gavage dose of 1 mg/kg on gestation day 16.

Rosuvastatin administration did not indicate a teratogenic effect in rats at ≤ 25 mg/kg/day or in rabbits ≤ 3 mg/kg/day (doses equivalent to the MRHD of 40 mg/day based on AUC and body surface area, respectively). 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/kg/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/kg/day based on body surface area).

8.2 Lactation

Risk Summary

Rosuvastatin use is contraindicated during breastfeeding [see *Contraindications* (4)]. Limited data 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. Because of the potential for serious adverse reactions in a breastfed infant, advise patients that breastfeeding is not recommended during treatment with rosuvastatin calcium.

8.3 Females and Males of Reproductive Potential

Contraception

Rosuvastatin calcium may cause fetal harm when administered to a pregnant woman [see *Use in Specific Populations* (8.1)]. Advise females of reproductive potential to use effective contraception during treatment with rosuvastatin calcium.

8.4 Pediatric Use

Pediatric use information for patients 7 to 17 years of age is approved for AstraZeneca's CRESTOR (rosuvastatin calcium) tablets. However, due to AstraZeneca's marketing exclusivity rights, this drug product is not labeled with that pediatric information.

8.5 Geriatric Use

Of the 10,275 patients in clinical studies with rosuvastatin calcium, 3159 (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, and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out.

Elderly patients are at higher risk of myopathy and rosuvastatin calcium should be prescribed with caution in the elderly [see *Warnings and Precautions* (5.1) and *Clinical Pharmacology* (12.3)].

8.6 Renal Impairment

Rosuvastatin exposure is not influenced by mild to moderate renal impairment ($CL_{CR} \geq 30$ mL/min/1.73 m²). Exposure to rosuvastatin is increased to a clinically significant extent in patients with severe renal impairment ($CL_{CR} < 30$ mL/min/1.73 m²) who are not receiving hemodialysis and dose adjustment is required [see *Dosage and Administration* (2.5), *Warnings and Precautions* (5.1) and *Clinical Pharmacology* (12.3)].

8.7 Hepatic Impairment

Rosuvastatin calcium is contraindicated in patients with active liver disease, which may include unexplained persistent elevations of hepatic transaminase levels. Chronic alcohol liver disease is known to increase rosuvastatin exposure; rosuvastatin calcium should be used with caution in these patients [see *Contraindications* (4), *Warnings and Precautions* (5.2), and *Clinical Pharmacology* (12.3)].

8.8 Asian Patients

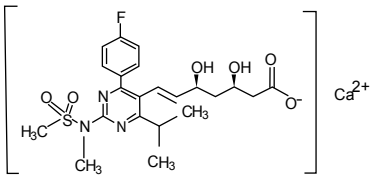
Pharmacokinetic studies have demonstrated an approximate 2-fold increase in median exposure to rosuvastatin in Asian subjects when compared with Caucasian controls. Rosuvastatin calcium dosage should be adjusted in Asian patients [see *Dosage and Administration* (2.3) and *Clinical Pharmacology* (12.3)].

10 OVERDOSAGE

There is no specific treatment in the event of overdose. In the event of overdose, the patient should be treated symptomatically and supportive measures instituted as required. Hemodialysis does not significantly enhance clearance of rosuvastatin.

11 DESCRIPTION

Rosuvastatin calcium is a synthetic lipid-lowering agent for oral administration. The chemical name for rosuvastatin calcium is bis [(E)-7-(4-(4-fluorophenyl)-6-isopropyl-2-methyl (methylsulfonyl) amino) pyrimidin-5-yl) (3R, 5S)-5-hydroxyhept-6-enoic acid] calcium salt with the following structural formula:



The molecular formula for rosuvastatin calcium is (C₂₇H₃₈FN₂O₅)₂Ca and the molecular weight is 1001.14. Rosuvastatin calcium is a white amorphous powder that is sparingly soluble in water and methanol, and slightly soluble in ethanol. Rosuvastatin calcium is a hydrophobic compound with a partition coefficient (octanol/water) of 0.13 at pH 7.4.

Rosuvastatin calcium tablets for oral administration contain 5, 10, 20, or 40 mg of rosuvastatin and the following inactive ingredients: Each tablet contains: croscopdone, FD&C red No. 40/allura red AC aluminum lake, FD&C blue No. 2/indigo carmine aluminum lake, hypromellose, lactose monohydrate, magnesium stearate, mannitol, magnesium, microcrystalline cellulose, pregelatinized starch, titanium dioxide and triacetin. Additionally, the 5 mg tablet contains FD&C yellow No. 5/tartrazine aluminum lake and the 10 mg, 20 mg and 40 mg tablets contain FD&C yellow No. 6/sunset yellow FCF aluminum lake.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Rosuvastatin is a selective and competitive inhibitor of HMG-CoA reductase, the rate-limiting enzyme that converts 3-hydroxy-3-methylglutaryl coenzyme A to mevalonate, a precursor of cholesterol. In vivo studies in animals and in vitro studies in cultured animal and human cells have shown rosuvastatin to have a high uptake into, and selectivity for, action in the liver, the target organ for cholesterol lowering. In vivo and in vitro studies, rosuvastatin produces its lipid-modifying effects in two ways. First, it increases the number of hepatic LDL receptors on the cell-surface to enhance uptake and catabolism of LDL. Second, rosuvastatin inhibits hepatic synthesis of VLDL, which reduces the total number of VLDL and LDL particles.

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 C_{max} and AUC increased in approximate proportion to rosuvastatin calcium dose. The absolute bioavailability of rosuvastatin is approximately 20%.

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

The AUC of rosuvastatin does not differ following evening or morning drug administration.

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.

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 12C9, and in vitro studies have demonstrated that N-desmethyl rosuvastatin has approximately one-half 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%). The elimination half-life (t_{1/2}) of rosuvastatin is approximately 19 hours. After an intravenous dose, approximately 28% of total body clearance was via the renal route, and 72% by the hepatic route.

Specific Populations

Race

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_{max}) in Asian subjects when compared with a Caucasian control group.

Gender

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

Pediatric use information for patients ages 8 to less than 11 years is approved for AstraZeneca's CRESTOR (rosuvastatin calcium) tablets. However, due to AstraZeneca's marketing exclusivity rights, this drug product is not labeled with that pediatric information.

Geriatric

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

Renal Impairment

Mild to moderate renal impairment ($CL_{CR} \geq 30$ 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 ($CL_{CR} < 30$ mL/min/1.73 m²) not receiving hemodialysis compared with healthy subjects ($CL_{CR} > 80$ mL/min/1.73 m²).

Hemodialysis

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

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-Drug Interactions

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 calcium with medications that are inhibitors of these transporter proteins (e.g. cyclosporine, certain HIV protease inhibitors) may result in increased rosuvastatin plasma concentrations and an increased risk of myopathy [see *Dosage and Administration* (2.4)]. It is recommended that prescribers consult the relevant product information when considering administration of such products together with rosuvastatin calcium.

Table 4. Effect of Coadministered Drugs on Rosuvastatin Systemic Exposure

Coadministered drug and dosing regimen	Rosuvastatin		
	Change in AUC	Change in C _{max}	
Cyclosporine – stable dose required (75 mg – 200 mg BID)	10 mg QD for 10 days	7.1 ¹	11 ¹
Atazanavir/ritonavir combination 300 mg/100 mg QD for 8 days	10 mg	3.1 ¹	7 ¹
Simeprevir 150 mg QD, 7 days	10 mg, single dose	2.8 ¹ (2.3 to 3.4) ¹	3.2 ¹ (2.6 to 3.9) ¹
Lopinavir/ritonavir combination 400 mg/100 mg BID for 7 days	20 mg QD for 7 days	2.1 ¹ (1.7 to 2.6) ¹	5 ¹ (3.4 to 6.4) ¹
Gemfibrozil 600 mg BID for 7 days	80 mg	1.9 ¹ (1.6 to 2.2) ¹	2.2 ¹ (1.8 to 2.7) ¹
Eltrombopag 75 mg QD, 5 days	10 mg	1.6 (1.4 to 1.7) ¹	2 (1.8 to 2.3) ¹
Darunavir 600 mg/ritonavir 100 mg BID, 7 days	10 mg QD for 7 days	1.5 (1.0 to 2.1) ¹	2.4 (1.6 to 3.6) ¹
Tipranavir/ritonavir combination 500 mg/200 mg BID for 11 days	10 mg	1.4 (1.2 to 1.6) ¹	2.2 (1.8 to 2.7) ¹
Dronedronarone 400 mg BID	10 mg	1.4	1
Itraconazole 200 mg QD, 5 days	10 mg or 80 mg	1.4 (1.2 to 1.6) ¹ 1.3 (1.1 to 1.4) ¹	1.4 (1.2 to 1.5) ¹ 1.2 (0.9 to 1.4) ¹
Ezetimibe 10 mg QD, 14 days	10 mg QD for 14 days	1.2 (0.9 to 1.6) ¹	1.2 (0.8 to 1.6) ¹
Fosamprenavir/ritonavir 700 mg/100 mg BID for 7 days	10 mg	1.1	1.5
Fenofibrate 67 mg TID for 7 days	10 mg	→	1.2 (1.1 to 1.3) ¹
Ritaparant 450 mg QD, 7 days	20 mg	→	→
Aluminum & magnesium hydroxide combination antacid Administered simultaneously Administered 2 hours apart	40 mg 40 mg	0.5 ¹ (0.4 to 0.5) ¹ 0.8 (0.7 to 0.9) ¹	0.5 ¹ (0.4 to 0.6) ¹ 0.8 (0.7 to 1.0) ¹
Ketoconazole 200 mg BID for 7 days	80 mg	1 (0.8 to 1.2) ¹	1 (0.7 to 1.3) ¹
Fluconazole 200 mg QD for 11 days	80 mg	1.1 (1.0 to 1.3) ¹	1.1 (0.9 to 1.4) ¹
Erythromycin 500 mg QID for 7 days	80 mg	0.8 (0.7 to 0.9) ¹	0.7 (0.5 to 0.9) ¹

¹Single dose unless otherwise noted.

²Clinically significant [see *Dosage and Administration* (2) and *Warnings and Precautions* (5)].

³Mean ratio with 90% CI (with/without coadministered drug, e.g., 1= no change, 0.7-1.3= decrease, 1.1-1.1 fold increase in exposure)

Table 5. Effect of Rosuvastatin Coadministration on Systemic Exposure to Other Drugs

Rosuvastatin Dosage Regimen	Coadministered Drug	Mean Ratio (ratio with/without coadministered drug) No Effect = 1.0	
		Change in AUC	Change in C _{max}
40 mg QD for 10 days	Warfarin	R- Warfarin 1.0 (1.0 to 1.1) ¹	R-Warfarin 1.0 (0.9 to 1.0) ¹
	25 mg single dose	S-Warfarin 1.1 (1.0 to 1.1) ¹	S-Warfarin 1.0 (0.9 to 1.1) ¹
	Digoxin	0.9 (0.8 to 1.0) ¹	1.0 (0.9 to 1.2) ¹
40 mg QD for 12 days	Digoxin	1.0 (0.9 to 1.2) ¹	1.0 (0.9 to 1.2) ¹
	Oral Contraceptive (ethinyl estradiol 0.035 mg & norgestrel 0.180, 0.215 and 0.250 mg) QD for 21 days	EE 1.3 (1.2 to 1.3) ¹ NG 1.3 (1.3 to 1.4) ¹	EE 1.3 (1.2 to 1.3) ¹ NG 1.2 (1.1 to 1.3) ¹

EE = ethinyl estradiol; NG = norgestrel

¹Clinically significant pharmacodynamic effects [see *Warnings and Precautions* (5.3)]

²Mean ratio with 90% CI (with/without coadministered drug, e.g., 1= no change, 0.7-1.3= decrease, 1.1-1.1 fold increase in exposure)

12.5 Pharmacogenomics

Disposition of HMG-CoA reductase inhibitors, including 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 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 adenomas/carcinomas was observed at 200 mg/kg/day at systemic exposure 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, spermatid giant cells were seen. Spermatid giant cells were observed in monkeys after 6-month treatment at 30 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/day based on body surface area. Similar findings have been seen with other drugs in this class.

13.2 Animal Toxicology and/or Pharmacology

Central Nervous System Toxicity

CNS vascular lesions, characterized by perivascular hemorrhages, edema, and mononuclear cell infiltration of perivascular spaces, have been observed in dogs treated with several members of this drug class. A chemically similar drug in this class produced dose-dependent optic nerve degeneration (Wallerson degeneration of retinogeniculate fibers) in dogs, at a dose that produced plasma drug levels about 30 times higher than the mean drug level in humans taking the highest recommended dose. Edema, hemorrhage, and partial necrosis in the interstitium of the choroid plexus was observed in a female dog sacrificed moribund at day 24 at 90 mg/kg/day by oral gavage (systemic exposures 100 times the human exposure at 40 mg/day based on AUC). Corneal opacity was seen in dogs treated for 52 weeks at 6 mg/kg/day by oral gavage (systemic exposures 20 times the human exposure at 40 mg/day based on AUC). Cataracts were seen in dogs treated for 12 weeks by oral gavage at 30 mg/kg/day (systemic exposures 60 times the human exposure at 40 mg/day based on AUC). Retinal dysplasia and retinal loss were seen in dogs treated for 4 weeks by oral gavage at 90 mg/kg/day (systemic exposures 100 times the human exposure at 40 mg/day based on AUC). Doses ≤ 30 mg/kg/day (systemic exposures ≤ 60 times the human exposure at 40 mg/day based on AUC) did not reveal retinal findings during treatment for up to one year.

Juvenile Toxicology Study

In a juvenile study, rats were dosed by oral gavage with 10 or 50 mg/kg/day from weaning for 9 weeks prior to pairing, throughout pairing and up to the day before necropsy for males or up to gestation day 7 for females. No effects on sexual development, testicular and epididymal appearance or fertility were observed at either dose level.

Pediatric information is approved for AstraZeneca's CRESTOR (rosuvastatin calcium) tablets. However, due to AstraZeneca's marketing exclusivity rights, this drug product is not labeled with that pediatric information.

14 CLINICAL STUDIES

14.3 Hypertriglyceridemia

Dose-Response Study: In a double-blind, placebo-controlled dose-response study in patients with baseline TG levels from 273 to 817 mg/dL, rosuvastatin calcium given as a single daily dose (5 to 40 mg) over 6 weeks significantly reduced serum TG levels (Table 9).

3

Wait at least 2 hours after taking rosuvastatin calcium tablets to take an antacid that contains a combination of aluminum and magnesium hydroxide.

If you miss a dose of rosuvastatin calcium tablets, take it as soon as you remember. However, do not take 2 doses of rosuvastatin calcium tablets within 12 hours of each other.

If you take too much rosuvastatin calcium tablets or overdose, call your doctor or go to the nearest hospital emergency room right away.

What are the Possible Side Effects of rosuvastatin calcium tablets?

Rosuvastatin calcium tablets may cause serious side effects, including:

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

• You have unexplained muscle pain, tenderness, or weakness, especially if you have a fever or feel more tired than usual, while you take rosuvastatin calcium tablets.

• You have muscle problems that do not go away even after your doctor has told you to stop taking rosuvastatin calcium 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 calcium 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 calcium tablets

• Liver problems. Your doctor should do blood tests to check your liver before you start taking rosuvastatin calcium tablets and if you have symptoms of liver problems while you take rosuvastatin calcium 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

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

Additional side effects that have been reported with rosuvastatin calcium tablets include memory loss and confusion.

Tell your doctor if you have any side effect that bothers you or that does not go away.

These are not all the possible side effects of rosuvastatin calcium tablets. 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 calcium tablets?

• Store rosuvastatin calcium tablets at room temperature, between 68°F to 77°F (20°C to 25°C) and in a dry place.

• Safely throw away medicine that is out of date or no longer needed.

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

What are the ingredients in rosuvastatin calcium tablets?

Active ingredient: rosuvastatin as rosuvastatin calcium

Inactive ingredients: Croscopdone, FD&C red No. 40/allura red AC aluminum lake, FD&C blue No. 2/indigo carmine aluminum lake, hypromellose, lactose monohydrate, magnesium stearate, mannitol, meglumine, microcrystalline cellulose, pregelatinized starch, titanium dioxide and triacetin. Additionally, the 5 mg tablet contains FD&C yellow No. 5/tartrazine aluminum lake and the 10 mg, 20 mg and 40 mg tablets contain FD&C yellow No. 6/sunset yellow FCF aluminum lake.

General information about the safe and effective use of rosuvastatin calcium tablets

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use rosuvastatin calcium tablets for a condition for which it was not prescribed. Do not give rosuvastatin calcium 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 calcium tablets that is written for health professionals.

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

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