Bryant Ranch Prepack

HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to use SIMVASTATIN TABLETS safely and effectively. See full prescribing information for SIMVASTATIN TABLETS.

SIMVASTATIN tablets, for oral use

Initial U.S. Approval:1991

.....RECENT MAIOR CHANGES

Dosage and Administration (2.1)

3/2023

INDICATIONS AND USAGE Simvastatin tablets are an HMG-CoA reductase inhibitor indicated: (1)

- To reduce the risk of total mortality by reducing risk of coronary heart disease death, non-fatal myocardial infarction and stroke, and the need for coronary and non-coronary revascularization procedures in adults with established coronary heart disease, cerebrovascular disease, peripheral vascular disease, and/or diabetes, who are at high risk of coronary heart disease events.
- As an adjunct to diet to reduce low-density lipoprotein cholesterol (LDL-C):
- o In adults with primary hyperlipidemia. o In adults and pediatric patients aged 10 years and older with heterozygous familial hypercholesterolemia (HeFH).
- As an adjunct to other LDL-C-lowering therapies to reduce LDL-C in adults with homozygous familial hypercholesterolemia (HoFH).
- As an adjunct to diet for the treatment of adults with:
- o Primary dysbetalipoproteinemia o Hypertriglyceridemia.

DOSAGE AND ADMINISTRATION

- Important Dosage and Administration Information: (2.1)
 - Take sinvastatin tablet orally once daily in the vening. Maximum recommended dosage is sinvastatin tablet 40 mg once daily. An 80 mg daily dosage of
- simvastatin tablet is restricted to patients who have been taking simvastatin 80 mg daily obsage of simvastatin tablet is restricted to patients who have been taking simvastatin 80 mg daily chronically (e.g., for 12 months or more) without evidence of muscle toxicity. For patients that require a high-intensity statin or are unable to achieve their LDL-C goal receiving simvastatin tablet 40 mg daily, prescribe alternative LDL-C lowering treatment. Assess LDL-C when clinically appropriate, as early as 4 weeks after initiating, and adjust the dosage if according to the simulation of the simulatio if necessary.
- Adults:Recommended dosage is 20 mg to 40 mg once daily. (2.2)
 Pediatric Patients Aged 10 Years and Older with HeFH: Recommended dosage is 10 mg to 40 mg once daily. (2.3)
- Patients with Severe Renal Impairment: Recommended starting dosage is simvastatin 5 mg once daily. (2.4, 8.6)
- See full prescribing information for simvastatin dosage modifications due to drug interactions. (2.5)

- Contraindications
 Concomitant use of strong CYP3A4 inhibitors (select azole anti-fungals, macrolide antibiotics, anti-viral medications, and nefazodone) (4, 7.1)
- Concomitant use of cyclosporine, danazol or gemfibrozil (4, 7.1)
- Acute liver failure or decompensated cirrhosis (4, 5.3)
 Hypersensitivity to simvastatin or any excipient in simvastatin tablets (4, 6.2)

- 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 simvastatin nypotnyroloism, renal impairment, concomitant use with certain other drugs, and nigher simvastatin tablets dosage. Chinese patients may be at higher risk for myopathy. Discontinue simvastatin tablets if markedly elevated CK levels occur or myopathy is diagnosed or suspected. Temporarily discontinue simvastatin 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 simvastatin tablets dosage. Instruct patients to promptly report unexplained muscle pain, tenderness, or weakness, particularly if accompanied by malaise or fever. (1 7 1 9 5 8 6 8 9) 5.1. 7.1. 8.5. 8.6. 8.8)
- Immune-Mediated Necrotizing Myopathy (IMNM):Rare reports of IMNM, an autoimmune myopathy, have been reported. Discontinue simvastatin 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 enzyme before initiating therapy and as clinically indicated thereafter. If serious hepatic injury with clinical symptoms and/or hyperbilirubinemia or jaundice occurs, promptly discontinue simvastatin tablets. (4, 5.3, 8.7)

ADVERSE REACTIONS

Most common adverse reactions (incidence ≥5%) are: upper respiratory infection, headache, abdominal pain, constipation, and nausea. (6.1) To report SUSPECTED ADVERSE REACTIONS, contact Accord Healthcare Inc. at 1-866-941-7875 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch DRUG INTERACTIONS

- See full prescribing information for details regarding concomitant use of simvastatin tablets with other drugs or grapefruit juice that increase the risk of myopathy and rhabdomyolysis. (2.5, 7.1)
- Coumarin Anticoagulants:Obtain INR before simvastatin tablets initiation and monitor INR during simvastatin dosage initiation or adjustment. (7.2)
- Digoxin:During simvastatin initiation, monitor digoxin levels. (7.2)
- USE IN SPECIFIC POPULATIONS
- Pregnancy:May cause fetal harm. (8.1)
 Lactation:Breastfeeding not recommended during treatment with simvastatin tablets. (8.2)

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling. Revised: 8/2024

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FULL PRESCRIBING INFORMATION

1. INDICATIONS AND USAGE

Simvastatin tablet is indicated:

 To reduce the risk of total mortality by reducing risk of coronary heart disease death, non-fatal myocardial infarction and stroke, and the need for coronary and non-coronary revascularization procedures in adults with established coronary heart disease, cerebrovascular disease, peripheral vascular disease, and/or diabetes, who are at high risk of coronary heart disease events.

- As an adjunct to diet to reduce low-density lipoprotein cholesterol (LDL-C): o In adults with primary hyperlipidemia.
- o In adults and pediatric patients aged 10 years and older with heterozygous familial hypercholesterolemia (HeFH).

• As an adjunct to other LDL-C-lowering therapies to reduce LDL-C in adults with homozygous familial hypercholesterolemia (HoFH).

- As an adjunct to diet for the treatment of adults with:
 - o Primary dysbetalipoproteinemia.

o Hypertriglyceridemia.

2. DOSAGE AND ADMINISTRATION

2.1 Important Dosage and Administration Information

- Take simvastatin tablet orally once daily in the evening.
- The maximum recommended dosage is simvastatin tablet 40 mg once daily [see Dosage and Administration (2.2, 2.3)]. An 80 mg daily dosage of simvastatin tablet is restricted to patients who have been taking simvastatin 80 mg daily chronically (e.g., for 12 months or more) without evidence of muscle toxicity [see Warnings and Precautions (5.1)].
- If as dose is missed, take the missed dose as soon as possible. Do not double the next dose.
- For patients that require a high-intensity statin or are unable to achieve their LDL-C goal receiving simvastatin tablet 40 mg daily, prescribe alternative LDL-C-lowering treatment.
- Assess LDL-C when clinically appropriate, as early as 4 weeks after initiating simvastatin tablets, and adjust the dosage if necessary.

2.2 Recommended Dosage in Adult Patients

The recommended dosage range of simvastatin tablet is 20 mg to 40 mg once daily.

2.3 Recommended Dosage in Pediatric Patients 10 Years of Age and Older with $\ensuremath{\mathsf{HeFH}}$

The recommended dosage range of simvastatin tablet is 10 mg to 40 mg daily.

2.4 Recommended Dosage in Patients with Renal Impairment

For patients with severe renal impairment [creatinine clearance (CL _{cr}) 15 to 29 mL/min], the recommended starting dosage of simvastatin is 5 mg once daily [see Warnings and Precautions (5.1) and Use in Specific Populations (8.6)]. Use another simvastatin product to initiate dosing in such patients.

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

2.5 Dosage Modifications Due to Drug Interactions

Concomitant use of simvastatin tablets with the following drugs requires dosage modification of simvastatin tablets [see Warnings and Precautions (5.1) and Drug

Interactions (7.1)].

Patients taking Lomitapide

Reduce the dosage of simvastatin tablets by 50%. Do not exceed simvastatin tablets 20 mg once daily (or 40 mg once daily for patients who have previously taken an 80 mg daily dosage of simvastatin tablets chronically while taking lomitapide) [see Dosage and Administration (2.1)].

Patients taking Verapamil, Diltiazem, or Dronedarone

Do not exceed simvastatin tablets 10 mg once daily.

Patients taking Amiodarone, Amlodipine, or Ranolazine

Do not exceed simvastatin tablets 20 mg once daily.

3. DOSAGE FORMS AND STRENGTHS

- Simvastatin tablets USP 5 mg are brick red colored, round shaped, biconvex, film coated tablet debossed "SI" on one side and plain on other side.
- Simvastatin tablets USP 10 mg are brick red colored, oval shaped, biconvex, filmcoated tablets, debossed "S 4" on one side and plain on the other side.
- Simvastatin tablets USP 20 mg are brick red colored, oval shaped, biconvex, filmcoated tablets, debossed "S 5" on one side and plain on the other side.
- Simvastatin tablets USP 40 mg are brick red colored, oval shaped, biconvex, filmcoated tablets, debossed "S 6" on one side and plain on the other side.
- Simvastatin tablets USP 80 mg are brick red colored, capsule shaped, biconvex, filmcoated tablets, debossed with "SMV" on one side and "80" on the other side.

4. CONTRAINDICATIONS

Simvastatin tablets are contraindicated in the following conditions:

- Concomitant use of strong CYP3A4 inhibitors (select azole anti-fungals, macrolide antibiotics, anti-viral medications, and nefazodone) [see Drug Interactions (7.1)].
- Concomitant use of cyclosporine, danazol or gemfibrozil [see Drug Interactions
- (7.1)].
- Acute liver failure or decompensated cirrhosis [see Warnings and Precautions (5.3)].
- Hypersensitivity to simvastatin or any excipients in simvastatin tablets. Hypersensitivity reactions, including anaphylaxis, angioedema and Stevens-Johnson syndrome, have been reported [see Adverse Reactions (6.2)].

5. WARNINGS AND PRECAUTIONS

5.1 Myopathy and Rhabdomyolysis

Simvastatin may cause myopathy and rhabdomyolysis. Acute kidney injury secondary to myoglobinuria and rare fatalities have occurred as a result of rhabdomyolysis in patients treated with statins, including simvastatin.

In clinical studies of 24,747 simvastatin treated patients with a median follow-up of 4 years, the incidence of myopathy, defined as unexplained muscle weakness, pain, or tenderness accompanied by creatinine kinase (CK) increases greater than ten times the upper limit of normal (10xULN), were approximately 0.03%, 0.08%, and 0.61% in patients treated with simvastatin 20 mg, 40 mg, and 80 mg daily, respectively. In another clinical study of 12,064 simvastatin treated patients (with a history of myocardial infarction) with a mean follow-up of 6.7 years, the incidences of myopathy in patients taking simvastatin 20 mg and 80 mg daily were approximately 0.02% and 0.9%, respectively. The incidences of rhabdomyolysis (defined as myopathy with a CK >40xULN) in patients taking simvastatin 20 mg and 80 mg daily were approximately 0.02% and 0.9%, and 0.4%, respectively [see Adverse Reactions (6.1)].

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 sinvastatin tablets dosage; Chinese patients on sinvastatin may be at higher risk for myopathy [see Contraindications (4), Drug Interactions (7.1), and Use in Specific Populations (8.8)]. The risk of myopathy is increased by elevated plasma levels of sinvastatin and sinvastatin acid. The risk is also greater in patients taking an 80 mg daily dosage of sinvastatin tablets compared with patients taking lower sinvastatin dosages and compared with patients using other statins with similar or greater LDL-C-lowering efficacy [see Adverse Reactions (6.1)].

Steps to Prevent or Reduce the Risk of Myopathy and Rhabdomyolysis

The concomitant use of strong CYP3A4 inhibitors with simvastatin is contraindicated. If short-term treatment with strong CYP3A4 inhibitors is required, temporarily suspend simvastatin during the duration of strong CYP3A4 inhibitor treatment. The concomitant use of simvastatin with gemfibrozil, cyclosporine, or danazol is also contraindicated [see Contraindications (4) and Drug Interactions (7.1)].

Sinvastatin dosage modifications are recommended for patients taking lomitapide, verapamil, diltiazem, dronedarone, amiodarone, amlodipine or ranolazine [see Dosage and Administration (2.5)]. Sinvastatin use should be temporarily suspended in patients taking daptomycin. Lipid modifying doses (\geq 1 gram/day) of niacin, fibrates, colchicine, and grapefruit juice may also increase the risk of myopathy and rhabdomyolysis [see Drug Interactions (7.1)].

Use the 80 mg daily dosage of simvastatin tablets only in patients who have been taking simvastatin 80 mg daily chronically without evidence of muscle toxicty [see Dosage and Administration (2.1)]. If patients treated with an 80 mg daily dosage of simvastatin tablets are prescribed an interacting drug that increases the risk for myopathy and rhabdomyolysis, switch to an alternate statin [see Drug Interactions (7.1)].

Discontinue simvastatin if markedly elevated CK levels occur or if myopathy is either diagnosed or suspected. Muscle symptoms and CK increases may resolve if simvastatin tablet is discontinued. Temporarily discontinue simvastatin tablets in patients experiencing an acute or serious condition at high risk of developing renal failure secondary to rhabdomyolysis, e.g., sepsis; shock; severe hypovolemia; major surgery;

trauma; severe metabolic, endocrine, or electrolyte disorders; or uncontrolled epilepsy.

Inform patients of the risk of myopathy and rhabdomyolysis when starting or increasing the simvastatin dosage and advise patients receiving an 80 mg daily dosage of simvastatin tablets of the increased risk of myopathy and rhabdomyolysis. Instruct patients to promptly report any unexplained muscle pain, tenderness or weakness, particularly if accompanied by malaise or fever.

5.2 Immune-Mediated Necrotizing Myopathy

There have been rare reports of immune-mediated necrotizing myopathy (IMNM), an autoimmune myopathy, associated with statin use, including reports of recurrence when the same or a different statin was administered. IMNM is characterized by proximal muscle weakness and elevated serum creatine kinase that persist despite discontinuation of statin treatment; positive anti-HMG CoA reductase antibody; muscle biopsy showing necrotizing myopathy without significant inflammation; and improvement with immunosuppressive agents. Additional neuromuscular and serologic testing may be necessary. Treatment with immunosuppressive agents may be required. Discontinue simvastatin if IMNM is suspected.

5.3 Hepatic Dysfunction

Increases in serum transaminases have been reported with use of simvastatin [see Adverse Reactions (6.1]]. In most cases, these changes appeared soon after initiation, were transient, were not accompanied by symptoms, and resolved or improved on continued therapy or after a brief interruption in therapy.

Persistent increases to more than 3xULN in serum transaminases have occurred in approximately 1% of patients receiving simvastatin in clinical studies. Marked persistent increases of hepatic transaminases have also occurred with simvastatin. There have been rare postmarketing reports of fatal and non-fatal hepatic failure in patients taking statins, including simvastatin.

Patients who consume substantial quantities of alcohol and/or have a history of liver disease may be at increased risk for hepatic injury.

Consider liver enzyme testing before simvastatin initiation and when clinically indicated thereafter. Simvastatin 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 simvastatin.

5.4 Increases in HbA1c and Fasting Serum Glucose Levels

Increases in HbA1c and fasting serum glucose levels have been reported with statins, including simvastatin. 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)]
- Increases in HbA1c and Fasting Serum Glucose Levels [see Warnings and Precautions (5.4)]

6.1 Clinical Trials Experience

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

In clinical studies, 2,423 adult patients were exposed to simvastatin tablets with a median duration of follow-up of approximately 18 months. The most commonly reported adverse reactions (incidence $\geq 5\%$) in these simvastatin clinical studies were: upper respiratory infections (9%), headache (7%), abdominal pain (7%), constipation (7%), and nausea (5%). Overall, 1.4% of patients discontinued simvastatin tablets due to adverse reactions. The most common adverse reactions that led to discontinuation were: gastrointestinal disorders (0.5%), myalgia (0.1%), and arthralgia (0.1%).

In a Cardiovascular Outcomes Study (the Scandinavian Simvastatin Survival Study [Study 4S]), adult patients (age range 35 to 71 years, 19% women, 100% Caucasians) were treated with 20 to 40 mg per day of simvastatin or placebo over a median of 5.4 years [see Clinical Studies (14)]; adverse reactions reported in \geq 2% of patients and at a rate greater than placebo are shown in Table 1.

Table 1: Adverse Reactions Reported ≥2% of Patients Treated with Simvastatin Tablets and Greater than Placebo in Study 4S

	% Placebo (N = 2,223)	% Simvastatin Tablets (N = 2,221)
Bronchitis	6.3	6.6
Abdominal pain	5.8	5.9
Atrial fibrillation	5.1	5.7
Gastritis	3.9	4.9
Eczema	3.0	4.5
Vertigo	4.2	4.5
Diabetes mellitus	3.6	4.2
Insomnia	3.8	4.0
Myalgia	3.2	3.7
Urinary tract infection	3.1	3.2
Edema/swelling	2.3	2.7
Headache	2.1	2.5
Sinusitis	1.8	2.3
Constipation	1.6	2.2

Myopathy/Rhabdomyolysis

In clinical studies with a median follow-up of at least 4 years, in which 24,747 patients received simvastatin tablets, the incidence of myopathy (defined as unexplained muscle weakness, pain, or tenderness accompanied by CK increases greater than 10xULN) was approximately 0.03%, 0.08%, and 0.61% for the simvastatin tablets 20 mg, 40 mg, and 80 mg daily groups, respectively.

In a clinical outcomes study in which 12,064 adult patients with a history of myocardial infarction were treated with simvastatin (mean follow-up 6.7 years), the incidence of myopathy (defined as unexplained muscle weakness or pain with a serum CK >10x [1200 U/L] ULN) in patients taking simvastatin 20 mg and 80 mg daily was approximately 0.02% and 0.9%, respectively. The incidence of rhabdomyolysis (defined as myopathy with a CK >40xULN) in patients on simvastatin 20 mg and 80 mg daily was approximately 0% and 0.4%, respectively. The incidence of myopathy and rhabdomyolysis were highest during the first year and then decreased during the subsequent years of treatment.

In another clinical outcomes study in which 10,269 adult patients were treated with simvastatin 40 mg per day (mean follow-up of 5 years), the incidence of myopathy/rhabdomyolysis was <0.1% in patients treated with simvastatin.

Elevations in Liver Enzyme Tests

Moderate (less than 3xULN) elevations of serum transaminases have been reported with use of simvastatin.

Persistent increases to more than 3xULN in serum transaminases have occurred in approximately 1% of patients receiving simvastatin in clinical studies. Marked persistent increases of hepatic transaminases have occurred with simvastatin. Elevated alkaline phosphatase and y-glutamyl transpeptidase have also been reported.

In Study 4S, with a median follow-up of 5.4 years, 1,986 adult patients were treated with simvastatin tablets 20 mg once daily, of whom 37% titrated to 40 mg once daily. The percentage of patients with one or more occurrences of transaminase elevations to >3xULN was 0.7% in patients taking simvastatin tablets compared with 0.6% in patients taking placebo. Elevated transaminases leading to discontinuation of study treatment occurred in 0.4% of patients taking simvastatin tablets and 0.2% of patients taking placebo. The majority of elevated transaminases leading to treatment discontinuation occurred within in the first year.

Adverse Reactions in Pediatric Patients with Heterozygous Familial Hypercholesterolemia

In a 48-week clinical study in pediatric patients 10 years of age and older (43% female, 97.7% Caucasians, 1.7% Hispanics, 0.6% Multiracial) with HeFH (n=175), treated with placebo or simvastatin tablets (10 to 40 mg daily), the most common adverse reactions were upper respiratory infection, headache, abdominal pain, and nausea [see Use in Specific Populations (8.4) and Clinical Studies (14)].

6.2 Postmarketing Experience

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

Body as whole: fever, chills, malaise, asthenia

Blood and Lymphatic System Disorders:anemia, thrombocytopenia, leukopenia, hemolytic anemia, positive ANA, ESR increase, eosinophilia

Gastrointestinal Disorders:pancreatitis, vomiting

Hepatic and Pancreatic Disorders: hepatitis/jaundice, fatal and non-fatal hepatic failure

Immune System Disorders: hypersensitivity syndrome including: anaphylaxis, angioedema, lupus erythematous-like syndrome, dermatomyositis, vasculitis

Musculoskeletal and Connective Tissue Disorders:muscle cramps, immune-mediated necrotizing myopathy, polymyalgia rheumatica, arthritis

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

Skin and Subcutaneous Tissue Disorders:pruritus, alopecia, a variety of skin changes (e.g., nodules, discoloration, dryness of skin/mucous membranes, changes to hair/nails), purpura, lichen planus, urticaria, photosensitivity, flushing, toxic epidermal necrolysis, erythema multiforme, including Stevens- Johnson syndrome

Respiratory and Thoracic:interstitial lung disease, dyspnea

Reproductive System Disorders: erectile dysfunction

7. DRUG INTERACTIONS

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

Simvastatin tablet is a substrate of CYP3A4 and of the transport protein OATP1B1. Simvastatin tablets exposure can be significantly increased with concomitant administration of inhibitors of CYP3A4 and OATP1B1. Table 2 includes a list of drugs that increase the risk of myopathy and rhabdomyolysis when used concomitantly with simvastatin tablets and instructions for preventing or managing them [see Warnings and Precautions (5.1) and Clinical Pharmacology (12.3).]

Table 2: Drug Interactions that Increase the Risk of Myopathy and Rhabdomyolysis with Simvastatin Tablets

Strong CYP3A4 inhibitors	5
Clinical Impact:	Simulactatin is a substrate of CVR2AA. Concomitant use of strong CVR2AA inhibitors with simulastatin increases simulastatin exposure and
Clinical Impact:	increases the risk of myopathy and rhabdomyolysis, particularly with higher simvastatin dosages.
Internetien.	Concomitant use of strong CYP3A4 inhibitors with simvastatin is contraindicated [see Contraindications (4)]. If treatment with a CYP3A4
Intervention:	inhibitor is unavoidable, suspend simvastatin during the course of strong CYP3A4 inhibitor treatment.
	Select azole anti-fungals (e.g., itraconazole, ketoconazole, posaconazole, and voriconazole), select macrolide antibiotics (e.g., erythromycin and
Examples:	clarithromycin), select HIV protease inhibitors (e.g., nelfinavir, ritonavir, and darunavir/ritonavir), select HCV protease inhibitors (e.g., boceprevir
	and telaprevir), cobicistat-containing products, and nefazodone.
Cyclosporine, Danazol, o	
Clinical Impact:	The risk of myopathy and rhabdomyolysis is increased with concomitant use of cyclosporine, danazol, or gemfibrozil with simvastatin.
Ciincai impact	Gemfibrozil may cause myopathy when given alone.
Intervention:	Concomitant use of cyclosporine, danazol, or gemfibrozil with simvastatin is contraindicated [see Contraindications (4)].
Amiodarone, Dronedaror	ne, Ranolazine, or Calcium Channel Blockers
Clinical Impact:	The risk of myopathy and rhabdomyolysis is increased by concomitant use of amiodarone, dronedarone, ranolazine, or calcium channel
Clinical Impact	blockers with simvastatin.
Intervention:	For patients taking verapamil, diltiazem, or dronedarone, do not exceed simvastatin 10 mg daily .For patients taking amiodarone, amlodipine, or
intervention.	ranolazine, do not exceed simvastatin 20 mg daily [see Dosage and Administration (2.5)].
Lomitapide	
Clinical Impact:	Simvastatin exposure is approximately doubled with concomitant use of lomitapide and the risk of myopathy and rhabdomyolysis is increased .
Intervention:	Reduce the dose of simvastatin by 50% if initiating lomitapide. Do not exceed simvastatin 20 mg daily (or simvastatin 40 mg daily for patients
intervention.	who have previously taken an 80 mg daily dosage of simvastatin chronically) while taking lomitapide [see Dosage and Administration (2.1, 2.5)].
Daptomycin	
Clinical Impact:	Cases of rhabdomyolysis have been reported with simvastatin administered with daptomycin. Both simvastatin and daptomycin can cause
,	myopathy and rhabdomyolysis when given alone and the risk of myopathy and rhabdomyolysis may be increased by coadministration.
Intervention:	If treatment with daptomycin is required, consider temporarily suspending simvastatin during the course of daptomycin treatment.
Niacin	
	Cases of myopathy and rhabdomyolysis have been observed with concomitant use of lipid modifying dosages of niacin-containing products (>1
Clinical Impact:	gram/day niacin) with simvastatin. The risk of myopathy is greater in Chinese patients. In a clinical study (median follow-up 3.9 years) of patients
Carnear Impact.	at high risk of CVD and with well-controlled LDL-C levels on simvastatin 40 mg/day with or without ezetimibe 10 mg/day, there was no
	incremental benefit on cardiovascular outcomes with the addition of lipid-modifying doses of niacin.
	Concomitant use of simvastatin with lipid-modifying dosages of niacin is not recommended in Chinese patients [see Use in Specific Populations (
Intervention:	[8.8)]. For non-Chinese patients, consider if the benefit of using lipid-modifying doses of niacin concomitantly with simvastatin outweighs the
	increased risk of myopathy and rhabdomyolysis. If concomitant use is decided, monitor patients for signs and symptoms of myopathy,
	particularly during initiation of therapy and during upward dose titration of either drug.
Fibrates (other than Gen	
Clinical Impact:	Fibrates may cause myopathy when given alone. The risk of myopathy and rhabdomyolysis is increased with concomitant use of fibrates with
Ciinicai mipacti	simvastatin.
	Consider if the benefit of using fibrates concomitantly with simvastatin outweighs the increased risk of myopathy and rhabdomyolysis. If
	concomitant use is decided, monitor patients for signs and symptoms of myopathy, particularly during initiation of therapy and during upward
	dose titration of either drug.
Colchicine	
Clinical Impact:	Cases of myopathy and rhabdomyolysis have been reported with concomitant use of colchicine with simvastatin.
	Consider if the benefit of using colchicine concomitantly with simvastatin outweighs the increased risk of myopathy and rhabdomyolysis. If
	concomitant use is decided, monitor patients for signs and symptoms of myopathy, particularly during initiation of therapy and during upward
	dose titration of either drug.
Grapefruit Juice	
Clinical Impact	Grapefruit juice can raise the plasma levels of simvastatin and may increase the risk of myopathy and rhabdomyolysis.
	Avoid grapefruit juice when taking simvastatin.

7.2 Simvastatin Tablets Effects on Other Drugs

Table 3 presents simvastatin tablet's effect on other drugs and instructions for preventing or managing them.

Table 3: Simvastatin Tablet's Effects on Other Drugs

Coumarin Anticoagulants	
Simvastatin may potentiate the effect of coumarin anticoagula	ints and increase
the INR. The concomitant use of simvastatin (20 to 40 mg	a) and coumarin
Clinicalanticoagulants increased the INR from a baseline of 1.7 t	o 1.8 in healthy
Impact: subjects and from 2.6 to 3.4 in patients with hyperlipid	emia. There are
postmarketing reports of clinically evident bleeding and/or i	increased INR in
patients taking concomitant statins and warfarin.	
In patients taking coumarin anticoagulants, obtain an INR	before starting
Intervention: discontinuities to account of frequently enough after initiation, do	se titration, or
discontinuation to ensure that no significant alteration in INR of	occurs. Once the
INR is stable, monitor INR at regularly recommended intervals.	
Digoxin	
Clinical Concomitant use of digoxin with simvastatin may result in	elevated plasma
Impact: digoxin concentrations [see Clinical Pharmacology (12.3)] .	
Intervention: Monitor digoxin levels in patients taking digoxin when simvasta	atin is initiated.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

<u>Risk Summary</u>

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

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

Available data from case series and prospective and retrospective observational cohort studies over decades of use with statins in pregnant women have not identified a drugassociated risk of major congenital malformations. Published data from prospective and retrospective observational cohort studies with simvastatin tablets 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 simvastatin during the period of organogenesis at doses that resulted in 2.5 and 2 times, respectively, the human exposure at the maximum recommended human dosage of 80 mg/day, based on body surface area (mg/m 2) (see Data).

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively.

<u>Data</u>

Human Data

A Medicaid cohort linkage study of 1152 statin-exposed pregnant women compared to 886,996 controls did not find a significant teratogenic effect from maternal use of statins in the first trimester of pregnancy, after adjusting for potential confounders – including maternal age, diabetes mellitus, hypertension, obesity, and alcohol and tobacco use – using propensity score-based methods. The relative risk of congenital malformations between the group with statin use and the group with no statin use in the first trimester was 1.07 (95% confidence interval 0.85 to 1.37) after controlling for confounders, particularly pre-existing diabetes mellitus. There were also no statistically significant increases in any of the organ-specific malformations assessed after accounting for confounders. In the majority of pregnancies, statin treatment was initiated prior to pregnancy and was discontinued at some point in the first trimester when pregnancy was identified. Study limitations include reliance on physician coding to define the presence of a malformation, lack of control for certain confounders such as body mass index, use of prescription dispensing as verification for the use of a statin, and lack of information on non-live births.

Animal Data

Simvastatin was given to pregnant rats at doses of 6.25, 12.5 and 25 mg/kg/day (0.6 times, 1.3 times, and 2.5 times, respectively, the maximum recommended dosage of 80 mg/day when normalized to body surface area) from gestation days 6 to 17 and to pregnant rabbits from gestation days 6 to 18 at doses of 2.5, 5, and 10 mg/kg/day (0.5 times, 1 times, and 2 times, respectively, the maximum recommended dosage of 80 mg/day when normalized to body surface area). For both species, there was no evidence of maternal toxicity or embryolethality. In rats, mean fetal body weights in the 25 mg/kg/day group were decreased 5.4%. Similar fetal body weight effects were not observed in rabbits.

Simvastatin doses of 6.25, 12.5 and 25 mg/kg/day (0.6 times, 1.3 times, and 2.5 times, respectively, the maximum recommended dosage of 80 mg/day when normalized to body surface area) were given to pregnant rats from gestation day 15 to lactation day 21. Slight decreases in maternal body weight gain and pup postnatal day 0 weight were observed in the 25 mg/kg/day dose group. Mean body weight gain of pups during lactation was slightly decreased at doses \geq 12.5 mg/kg/day. Post weaning weight, behavior, reproductive performance and fertility of the offspring were not affected at any dose tested.

Placental transfer of simvastatin was not evaluated in rats or rabbits. However, it has been shown that other drugs in this class cross the placenta.

8.2 Lactation

Risk Summary

There is no information about the presence of simvastatin in human or animal milk, the effects of the drug on the breastfed infant or the effects of the drug on milk production. However, it has been shown that another drug in this class passes into human milk. Statins, including simvastatin tablets, decrease cholesterol synthesis and possibly the synthesis of other biologically active substances derived from cholesterol and may cause harm to the breastfed infant.

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

8.4 Pediatric Use

The safety and effectiveness of simvastatin tablets as an adjunct to diet to reduce LDL-C have been established in pediatric patients 10 years of age and older with HeFH. Use of simvastatin tablets for this indication is based on a double-blind, placebo-controlled clinical study in 175 pediatric patients (99 boys and 76 girls at least 1 year post-menarche) 10 years of age and older with HeFH. In this limited controlled study, there was no significant effect on growth or sexual maturation in the boys or girls, or on menstrual cycle length in girls.

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

8.5 Geriatric Use

Of the total number of simvastatin tablets-treated patients in clinical studies 1,021 (23%) patients, 5,366 (52%) patients, and 363 (15%) patients were \geq 65 years old,

respectively. In Study HPS, 615 (6%) patients were \geq 75 years old [see Clinical Studies (14)]. In a clinical study of patients treated with simvastatin tablets 80 mg daily, patients \geq 65 years of age had an increased risk of myopathy, including rhabdomyolysis, compared to patients <65 years of age.

A pharmacokinetic study with simvastatin tablets use showed the mean plasma level of total inhibitors to be approximately 45% higher in geriatric patients between 70 to 78 years of age compared with patients between 18 to 30 years of age [*see Clinical Pharmacology (12.3)*].

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

8.6 Renal Impairment

Renal impairment is a risk factor for myopathy and rhabdomyolysis. Monitor all patients with renal impairment for development of myopathy. In patients with severe renal impairment (CLcr 15 to 29 mL/min), the recommended starting dosage is simvastatin 5 mg once daily [see Dosage and Administration (2.4), Warnings and Precautions (5.1)].

8.7 Hepatic Impairment

Simvastatin tablet is contraindicated in patients with acute liver failure or decompensated cirrhosis [see Contraindications (4), Warnings and Precautions (5.3)].

8.8 Chinese Patients

In a clinical study in which patients at high risk of CVD were treated with simvastatin 40 mg/day (median follow-up 3.9 years), the incidence of myopathy was approximately 0.05% for non-Chinese patients (n=7367) compared with 0.24% for Chinese patients (n=5468). In this study, the incidence of myopathy for Chinese patients on simvastatin 40 mg/day or ezetimibe/simvastatin 10/40 mg/day coadministered with extended-release niacin 2 g/day was 1.24%.

Chinese patients may be at higher risk for myopathy, monitor these patients appropriately. Coadministration of simvastatin with lipid-modifying doses of niacin-containing products (≥ 1 g/day niacin) is not recommended in Chinese patients [see Warnings and Precautions (5.1), Drug Interactions (7.1)].

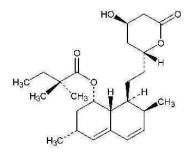
10. OVERDOSAGE

No specific antidotes for simvastatin tablets are known. Contact Poison Control (1-800-222-1222) for latest recommendations.

11 DESCRIPTION

Simvastatin is a prodrug of 3-hydoroxy-3-methylglutaryl coenzyme A (HMG-CoA) reductase inhibitor that is derived synthetically from a fermentation product of *Aspergillus terreus*.

Simvastatin is butanoic acid, 2,2-dimethyl-,1,2,3,7,8,8a-hexahydro-3,7-dimethyl-8-[2-(tetrahydro-4-hydroxy-6-oxo-2H-pyran-2-yl)-ethyl]-1-naphthalenyl ester, [1S-[1 α ,3 α ,7 β ,8 β (2S *,4S *),-8 β]]. The empirical formula of simvastatin is C $_{25}$ H $_{38}$ O $_{5}$ and its molecular weight is 418.57. Its structural formula is:



Simvastatin is a white to off-white, nonhygroscopic, crystalline powder that is practically insoluble in water, and freely soluble in chloroform, methanol and ethanol.

Simvastatin tablets USP for oral administration contain either 5 mg, 10 mg, 20 mg, 40 mg or 80 mg of simvastatin and the following inactive ingredients: microcrystalline cellulose, hydroxypropyl cellulose, hypromellose E5, croscarmellose sodium, ferric oxide red, lactose monohydrate, magnesium stearate, maize starch, tak, titanium dioxide, butylated hydroxyanisole, ascorbic acid, citric acid monohydrate, and triethyl citrate.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Simvastatin is a prodrug and is hydrolyzed to its active β -hydroxyacid form, simvastatin acid, after administration. Simvastatin acid and its metabolites are inhibitors of HMG-CoA reductase, the rate-limiting enzyme that converts HMG-CoA to mevalonate, a precursor of cholesterol.

12.2 Pharmacodynamics

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

12.3 Pharmacokinetics

Simvastatin is a lactone that is readily hydrolyzed *in vivo*to the corresponding β-hydroxyacid. Pharmacokinetics (PK) of simvastatin and its metabolites was originally characterized using inhibition of HMG-CoA reductase activity following base hydrolysis of plasma samples, as specific bioanalytical methods were not available. Inhibition of the enzyme activity (equivalent to the level of total inhibitors) represented the combination of activities in plasma following administration of simvastatin from both active (simvastatin acid and its metabolites) and latent forms (simvastatin and its metabolites) after conversion to the active forms in the presence of base.

Absorption

Following an oral dose of 14 C-labeled simvastatin, plasma concentrations of total radioactivity (simvastatin plus 14 C-metabolites) peaked at 4 hours and declined rapidly to about 10% of peak by 12 hours postdose. Since simvastatin undergoes extensive first-pass extraction in the liver, the availability of simvastatin to the general circulation is low (<5%). PK, assessed as area under the concentrations of total inhibitors – time curve, was apparently linear with doses up to 120 mg.

Effect of Food

The plasma profile of total inhibitors concentration was not affected when simvastatin was administered with low fat meal.

Distribution

Both simvastatin and its β -hydroxyacid metabolite are highly bound (approximately 95%) to human plasma proteins.

<u>Elimination</u>

Metabolism

Simvastatin is metabolized by CYP3A4. The major active metabolites of simvastatin present in human plasma are simvastatin acid and its 6'-hydroxy, 6'-hydroxymethyl, and 6'-exomethylene derivatives. Peak plasma concentrations of both active and total inhibitors were attained within 1.3 to 2.4 hours postdose.

Excretion

Following an oral dose of $^{14}\mathrm{C}\textsc{-labeled}$ simvastatin, 13% of the dose was excreted in urine and 60% in feces.

Specific Populations

Geriatric Patients

In a study including 16 geriatric patients between 70 and 78 years of age who received simvastatin tablet 40 mg/day, the mean plasma level of total inhibitors was increased approximately 45% compared with 18 patients between 18 to 30 years of age [see Use in Specific Populations (8.5)].

Drug Interaction Studies

Simvastatin acid is a substrate of the transport protein OATP1B1. Concomitant administration of inhibitors of the transport protein OATP1B1 and/or CYP3A4 may lead to increased exposure of simvastatin acid. Cyclosporine has been shown to increase the AUC of statins; although the mechanism is not fully understood, the increase in AUC for simvastatin acid is presumably due, in part, to inhibition of CYP3A4 and/or OATP1B1 [see Drug Interactions (7)].

Table 4 displays the effect of coadministered drugs or grapefruit juice on simvastatin systemic exposure [see Drug Interactions (7)].

Table 4: Effect of Coadministered Drugs or Grapefruit Juice on Simvastatin Systemic Exposure

Coadministered Drug or Grapefruit	Dosing of Coadministered Drug or Grapefruit	Drug or Simvastatin No El			ed drug)
Juice	Juice			AUC	C max
Telithromycin †	200 mg QD for 4	80 mg	simvastatin acid	12	15
	days		+	8.9	5.3
	-		simvastatin		
Nelfinavir †	1250 mg BID for	20 mg QD for	simvastatin acid		
	14 days	28 days	+		
	-	-	simvastatin	6	6.2
Itraconazole †	200 mg QD for 4	80 mg	simvastatin acid		13.1

	days		‡ simvastatin		13.1
Posaconazole	100 mg (oral suspension) QD for 13 days	40 mg	simvastatin acid simvastatin	7.3 10.3	9.2 9.4
	200 mg (oral suspension) QD for 13 days	40 mg	simvastatin acid simvastatin	8.5 10.6	9.5 11.4
Gemfibrozil	600 mg BID for	40 mg	simvastatin acid	2.85	2.18
Correction of the state of	3 days		simvastatin	1.35	0.91
Grapefruit Juice §(high dose)	200 mL of double-strength TID [¶]	60 mg single dose	simvastatin acid simvastatin	7 16	
Grapefruit Juice	8 oz (about 237	20 mg single	simvastatin acid	1.3	
§(low dose)	mL) of single- strength #	dose	simvastatin	1.0	
Verapamil SR	240 mg QD	80 mg on Dav	simvastatin acid	<u>1.9</u> 2.3	2.4
	Days 1 to 7 then 240 mg BID on Days 8 to 10	10	simvastatin	2.5	2.1
Diltiazem	120 mg BID for	80 mg on Dav	simvastatin acid	2.69	2.69
Dilette	10 days	10	simvastatin	3.10	2.88
Diltiazem	120 mg BID for 14 days	20 mg on Day 14	simvastatin	4.6	3.6
Dronedarone	400 mg BID for	40 mg QD for	simvastatin acid	1.96	2.14
	14 days	14 days	simvastatin	3.90	3.75
Amiodarone	400 mg QD for 3			1.75	1.72
	days	3	simvastatin	1.76	1.79
Amlodipine	10 mg QD x 10		simvastatin acid	1.58	1.56
D 1 1 CD	days	10	simvastatin	1.77	1.47
Ranolazine SR	1000 mg BID for 7 days	80 mg on Day 1 and Days 6 to 9	simvastatin acid simvastatin	2.26 1.86	2.28 1.75
Lomitapide	60 mg QD for 7 days	40 mg single dose	simvastatin acid simvastatin	1.7 2	1.6 2
Lomitapide	10 mg QD for 7 days	20 mg single dose	simvastatin acid simvastatin	1.4 1.6	1.4 1.7
Fenofibrate	160 mg QD X 14 days		simvastatin acid simvastatin	0.64 0.89	0.89 0.83
Niacin extended-		20 mg single	simvastatin acid	1.6	1.84
release		dose	simvastatin	1.4	1.08
Propranolol	80 mg single dose	80 mg single dose	total inhibitor	0.79	↓ from 33.6 to 21.1 ng·eq/mL
			active inhibitor	0.79	↓ from 7.0 to 4.7 ng·eq/mL

* Results based on a chemical assay except results with propranolol as indicated.

 $\dagger\,$ Results could be representative of the following CYP3A4 inhibitors: ketoconazole, erythromycin, clarithromycin, HIV protease inhibitors, and nefazodone.

‡ Simvastatin acid refers to the β-hydroxyacid of simvastatin.

§ The effect of amounts of grapefruit juice between those used in these two studies on simvastatin pharmacokinetics has not been studied.

[¶] Double-strength: one can of frozen concentrate diluted with one can of water. Grapefruit juice was administered TID for 2 days, and 200 mL together with single dose simvastatin and 30 and 90 minutes following single dose simvastatin on Day 3.

Single-strength: one can of frozen concentrate diluted with 3 cans of water. Grapefruit juice was administered with breakfast for 3 days, and simvastatin was administered in the evening on Day 3.

Simvastatin tablet's Effect on the Pharmacokinetics of Other Drugs

In a study of 12 healthy volunteers, simvastatin at the 80-mg dose had no effect on the metabolism of the probe cytochrome P450 isoform 3A4 (CYP3A4) substrates midazolam and erythromycin. Simvastatin is not an inhibitor of CYP3A4 and is not expected to affect the plasma levels of other drugs metabolized by CYP3A4.

Coadministration of simvastatin (40 mg QD for 10 days) resulted in an increase in the maximum mean levels of cardioactive digoxin (given as a single 0.4 mg dose on day 10) by approximately 0.3 ng/mL [see Drug Interactions (7.2)].

13. NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

In a 72-week carcinogenicity study, mice were administered daily doses of simvastatin of 25, 100, and 400 mg/kg body weight, which resulted in mean plasma drug levels approximately 1, 4, and 8 times higher than the mean human plasma drug level, respectively (as total inhibitory activity based on AUC) after an 80-mg oral dose. Liver carcinomas were significantly increased in high-dose females and mid- and high-dose males with a maximum incidence of 90% in males. The incidence of adenomas of the liver was significantly increased in mid- and high-dose females. Drug treatment also significantly increased in lung adenomas in mid- and high-dose males and females. Adenomas of the Harderian gland (a gland of the eye of rodents) were significantly higher in high-dose mice than in controls. No evidence of a tumorigenic effect was observed at 25 mg/kg/day.

In a separate 92-week carcinogenicity study in mice at doses up to 25 mg/kg/day, no evidence of a tumorigenic effect was observed (mean plasma drug levels were 1 times higher than humans given 80 mg simvastatin as measured by AUC).

In a two-year study in rats at 25 mg/kg/day, there was a statistically significant increase in the incidence of thyroid follicular adenomas in female rats exposed to approximately 11 times higher levels of simvastatin than in humans given 80 mg simvastatin (as measured by AUC).

A second two-year rat carcinogenicity study with doses of 50 and 100 mg/kg/day produced hepatocellular adenomas and carcinomas (in female rats at both doses and in males at 100 mg/kg/day). Thyroid follicular cell adenomas were increased in males at females at both doses; thyroid follicular cell carcinomas were increased in females at 100 mg/kg/day. The increased incidence of thyroid neoplasms appears to be consistent with findings from other statins. These treatment levels represented plasma drug levels (AUC) of approximately 7 and 15 times (males) and 22 and 25 times (females) the mean human plasma drug exposure after an 80 milligram daily dose.

No evidence of mutagenicity was observed in a microbial mutagenicity (Ames) test with or without rat or mouse liver metabolic activation. In addition, no evidence of damage to genetic material was noted in an *in vitro*alkaline elution assay using rat hepatocytes, a V-79 mammalian cell forward mutation study, an *in vitro*chromosome aberration study in CHO cells, or an *in vivo*chromosomal aberration assay in mouse bone marrow.

There was decreased fertility in male rats treated with simvastatin for 34 weeks at 25 mg/kg body weight (4 times the maximum human exposure level, based on AUC, in patients receiving 80 mg/day); however, this effect was not observed during a subsequent fertility study in which simvastatin was administered at this same dose level to male rats for 11 weeks (the entire cycle of spermatogenesis including epididymal maturation). No microscopic changes were observed in the testes of rats from either study. At 180 mg/kg/day, (which produces exposure levels 22 times higher than those in humans taking 80 mg/day based on surface area, mg/m²), seminiferous tubule degeneration (necrosis and loss of spermatogenic epithelium) was observed. In dogs, there was drug-related testicular atrophy, decreased spermatogenesis, spermatocytic degeneration and giant cell formation at 10 mg/kg/day, (approximately 2 times the human exposure, based on AUC, at 80 mg/day). The clinical significance of these findings is unclear.

14 CLINICAL STUDIES

Adults at High Risk of Coronary Heart Disease Events

In a randomized, double-blind, placebo-controlled, multi-centered study [the Scandinavian Simvastatin tablets Survival Study (Study 4S)], the effect of therapy with simvastatin tablets on total mortality was assessed in 4,444 adult patients with CHD (history of angina and/or a previous myocardial infarction) and baseline total cholesterol (total-C) between 212 and 309 mg/dL who were on a lipid-lowering diet. In Study 4S, patients were treated with standard care, including lipid-lowering diet, and randomized to either simvastatin tablets 20 to 40 mg/day (n=2,221) or placebo (n=2,223) for a median duration of 5.4 years.

- Simvastatin tablets significantly reduced the risk of mortality by 30% (p=0.0003, 182 deaths in the simvastatin tablets group vs 256 deaths in the placebo group). The risk of CHD mortality was significantly reduced by 42% (p=0.00001, 111 deaths in the simvastatin tablets group vs 189 deaths in the placebo group). There was no statistically significant difference between groups in non-cardiovascular mortality.
- Simvastatin tablets significantly reduced the risk for the secondary composite endpoint (time to first occurrence of CHD death, definite or probable hospital verified non-fatal MI, silent MI verified by ECG, or resuscitated cardiac arrest) by 34% (p<0.00001, 431 vs 622 patients with one or more events). Simvastatin tablets reduced the risk of major coronary events to a similar extent across the range of baseline total and LDL cholesterol levels. The risk of having a hospital-verified nonfatal MI was reduced by 37%.
- Simvastatin tablets significantly reduced the risk for undergoing myocardial revascularization procedures (coronary artery bypass grafting or percutaneous transluminal coronary angioplasty) by 37% (p<0.00001, 252 vs 383 patients).
- Simvastatin tablets significantly reduced the risk of fatal plus non-fatal cerebrovascular events (combined stroke and transient ischemic attacks) by 28% (p=0.033, 75 vs 102 patients).
- Over the course of the study, treatment with simvastatin tablets led to mean reductions in total-C, LDL-C and triglycerides (TG) of 25%, 35%, and 10%, respectively, and a mean increase in high-density lipoprotein cholesterol (HDL-C) of 8%. In contrast, treatment with placebo led to increases in total-C, LDL-C and TG of 1%, 1%, and 7%, respectively.
- Because there were only 53 female deaths (approximately 18% of the study population was female), the effect of simvastatin tablets on mortality in women could not be adequately assessed. However, simvastatin tablets significantly reduced the risk of having major coronary events in women by 34% (60 vs 91 women with one or more event).
- Simvastatin tablets resulted in similar decreases in relative risk for total mortality, CHD mortality, and major coronary events in geriatric patients (≥65 years) compared with younger adults.

The Heart Protection Study (Study HPS) was a randomized, placebo-controlled, doubleblind, multi-centered study with a mean duration of 5 years conducted in 10,269 patients on simvastatin tablets 40 mg and 10,267 on placebo. Patients had a mean age of 64 years (range 40 to 80 years old), 97% were white, and were at high risk of developing a major coronary event because of existing CHD (65%), diabetes (Type 2, 26%; Type 1, 3%), history of stroke or other cerebrovascular disease (16%), peripheral vascular disease (33%), or they were males \geq 65 years with hypertension in (6%). At baseline:

- 3,421 patients (17%) had LDL-C levels below 100 mg/dL, including 953 (5%) below 80 mg/dL; and
- 10,047 patients (49%) had levels greater than 130 mg/dL.

method which considered the distribution of 10 important baseline characteristics of patients already enrolled.

The Study HPS results showed that simvastatin tablets 40 mg/day significantly reduced: total and CHD mortality; and non-fatal MI, stroke, and revascularization procedures (coronary and non-coronary) (see Table 5).

Table 5: CHD Mortality and Cardiovascular Events in Adult Patients with High Risk of Developing a Major Coronary Event in Study HPS

Endpoint	Simvastatin	Placebo(N=10,267)	Risk	p-Value
	Tablets(N=10,269)) n (%)*	Reduction	
	n (%)*		(%) (95% CI)	
Primary				
Mortality	1,328 (12.9%)	1,507 (14.7%)	13% (6 to	p=0.0003
CHD mortality	587 (5.7%)	707 (6.9%)	19%)	p=0.0005
			18% (8 to	
			26%)	
Secondary				
Non-fatal MI	357 (3.5%)	574 (5.6%)	38% (30 to	p<0.0001
Stroke	444 (4.3%)	585 (5.7%)	46%)	p<0.0001
			25% (15 to	
			34%)	
Tertiary				
Coronary	513 (5%)	725 (7.1%)	30% (22 to	p<0.0001
revascularization			38%)	
Peripheral and other	450 (4.4%)	532 (5.2%)		p=0.006
non-coronary			16% (5 to	
revascularization			26%)	

* n = number of patients with indicated event

Two composite endpoints were defined to have enough events to assess relative risk reductions across a range of baseline characteristics:

- Major coronary events (MCE) was comprised of CHD mortality and non-fatal MI. Analyzed by time-to-first event; 898 patients (8.7%) treated with simvastatin tablets had events and 1,212 patients (11.8%) treated with placebo had events.
- Major vascular events (MVE) was comprised of MCE, stroke, and revascularization procedures including coronary, peripheral and other non-coronary procedures. Analyzed by time-to-first event; 2,033 patients (19.8%) treated with simvastatin tablets had events and 2,585 patients (25.2%) on placebo had events.

Simvastatin tablets use led to significant relative risk reductions for both composite endpoints (27% for MCE and 24% for MVE, p<0.0001) and for all components of the composite endpoints. The risk reductions produced by simvastatin tablets in both MCE and MVE were evident and consistent regardless of cardiovascular disease related medical history at study entry (i.e., CHD alone; or peripheral vascular disease, cerebrovascular disease, diabetes or treated hypertension, with or without CHD), gender, age, baseline levels of LDL-C, baseline concomitant cardiovascular medications (i.e., aspirin, beta blockers, or calcium channel blockers), smoking status, or obesity. Patients with diabetes showed risk reductions for MCE and MVE due to simvastatin tablets treatment regardless of baseline HbA1c levels or obesity.

Primary Hyperlipidemia in Adults

The effects of simvastatin tablets on total-C and LDL-C were assessed in controlled clinical studies in adult patients with heterozygous familial and non-familial forms of hyperlipidemia and in mixed hyperlipidemia. Simvastatin tablets significantly decreased total-C, LDL-C, and TG, and increased HDL-C (see Table 6). Maximal to near maximal response was generally achieved within 4 to 6 weeks and maintained during chronic therapy.

Table 6: Mean Changes in Lipid Levels in Adult Patients with Primary Hyperlipidemia and Combined (mixed) Hyperlipidemia (Mean Percent Change from Baseline After 6 to 24 Weeks)

TREATMENT	N	TOTAL-C	LDL-C	HDL-C	TG*
Lower Dosage Comparative Stud					10
Simvastatin tablets 5 mg once at	109	-19%	-26%	+10%	-12%
	109	-19%	-20%	+10%	-12%
night					
	110	-23%	-30%	+12%	-15%
Simvastatin tablets 10 mg once at					
night					
Scandinavian Simvastatin Surviva	Study ‡(Mean % Cha	nge at W	eek 6)	
Placebo	2223	-1%	-1%	0%	-2%
		- / -	-/-		
Simvastatin tablets 20 mg once at	2221	-28%	-38%	+8%	-19%
night	2221	2070	5070	1070	1370
	5/84	0/ Chamme			
Upper Dosage Comparative Stud	iy s(mean	% Change	Averaged	a at wee	ks 18 and
24)					
Simvastatin tablets 40 mg once at	433	-31%	-41%	+9%	-18%
night					
5	664	-36%	-47%	+8%	-24%
Simvastatin tablets 80 mg once at					
night [¶]					
	(b a a a a b ()	Ch			
Combined Hyperlipidemia Study #				1	
Placebo	125	1%	2%	+3%	-4%
Simvastatin tablets 40 mg once at	123	-25%	-29%	+13%	-28%
is the second second		=370	/ 0	0//0	

night	124	-31%	-36%	+16%	-33%
Simvastatin tablets 80 mg once at night					

* median percent change

 \dagger mean baseline LDL-C = 244 mg/dL and median baseline TG = 168 mg/dL

 \ddagger mean baseline LDL-C = 188 mg/dL and median baseline TG = 128 mg/dL

 $^{\text{S}}$ mean baseline LDL-C = 226 mg/dL and median baseline TG = 156 mg/dL

 1 21% and 36% median reduction in TG in patients with TG ≤200 mg/dL and TG >200 mg/dL, respectively. Patients with TG >350 mg/dL were excluded

[#]mean baseline LDL-C = 156 mg/dL and median baseline TG = 391 mg/dL.

Hypertriglyceridemia in Adults

The results of a subgroup analysis in 74 adult patients with hypertriglyceridemia from a 130-patient, double-blind, placebo-controlled, 3-period crossover study are similar to those presented in Table 6 for the Combined Hyperlipidemia Study. Simvastatin tablets decreased TC, LDL-C, and TG in these patients.

Dysbetalipoproteinemia in Adults

The results of a subgroup analysis in 7 adult patients with dysbetalipoproteinemia (apo E2/2) (very-low-density lipoprotein cholesterol [VLDL-C]/TG>0.25) from a 130-patient, double-blind, placebo-controlled, 3-period crossover study are presented in Table 7. Simvastatin tablets decreased total-C, LDL-C + intermediate-density lipoprotein (IDL), VLDL-C + IDL, and TG compared to placebo.

Table 7: Lipid Effects in Adult Patients with Dysbetalipoproteinemia Over Six Weeks [Median Percent Change (min, max) from Baseline]*

TREATMENT	Ν	Total-C	LDL-C + IDL	HDL-C	ΤG	VLDL-C + IDL	Non- HDL-C
Placebo	7	-8% (-24, +34)	-8% (-27, +23)	-2% (-21, +16)	+4% (-22, +90)	-4% (-28, +78)	-8% (-26, -39)
Simvastatin tablets 40 mg/day	7	-50% (-66, -39)	-50% (-60, -31)	+7% (-8, +23)	-41% (-74, - 16)	-58% (-90, -37)	-57% (-72, -44)
Simvastatin tablets 80 mg/day	7	-52% (-55, -41)	-51% (-57, -28)	+7% (-5, +29)	-38% (-58, +2)	-60% (-72, -39)	-59% (-61, -46)

* The median baseline values (mg/dL) were: total-C = 324, LDL-C = 121, HDL-C = 31, TG = 411, VLDL-C = 170, and non-HDL-C = 291.

Homozygous Familial Hypercholesterolemia

In a controlled clinical study, 12 patients 15 to 39 years of age with homozygous familial hypercholesterolemia (HoFH) received simvastatin tablets 40 mg/day in a single dose, or 80 mg/day in 3 divided doses. In 12 patients the mean LDL-C changes at 9 weeks for the 40- and 80-mg doses were -13.7% (range -22.5% to -4.9%) and -24.6% (range - 37.3% to -11.9%), respectively.

Pediatric Patients 10 Years of Age and Older with HeFH

In a double-blind, placebo-controlled study, 175 pediatric patients (99 boys and 76 postmenarchal girls) 10 years of age and older (mean age 14 years old) with heterozygous familial hypercholesterolemia (HeFH) were randomized to simvastatin tablets (n=106) or placebo (n=67) for 24 weeks (base study). To be included in the study, patients were required to have a baseline LDL-C level between 160 and 400 mg/dL and at least one parent with an LDL-C level >189 mg/dL. The dosage of simvastatin tablets (once daily in the evening) was 10 mg for the first 8 weeks, 20 mg for the second 8 weeks, and 40 mg thereafter. In a 24-week extension, 144 patients elected to continue therapy with simvastatin tablets 40 mg or placebo.

Simvastatin tablets significantly decreased plasma levels of total-C, LDL-C, and apolipoprotein B (ApoB) (see Table 8) in the HeFH study. Results from the extension at 48 weeks were comparable to the results at Week 24.

The safety and effectiveness of dosages above 40 mg daily have not been studied in pediatric patients with HeFH. The long-term efficacy of simvastatin tablets therapy in pediatric patients to reduce morbidity and mortality in adulthood has not been established.

Table 8: Lipid Effects in Pediatric Patients 10 Years of Age and Older with Heterozygous Familial Hypercholesterolemia (Mean Percent Change from Baseline)

Dosage	Duration	Ν		Total-C	LDL-C	HDL-C	TG*	АроВ		
			% Change	+1.6%	+1.1%	+3.6%	-3.2%	-0.5%		
	24		from Baseline	(-2.2,	(-3.4,	(-0.7,	(-11.8,	(-4.7,		
Placebo		67	(95% CI)	5.3)	5.5)	8.0)	5.4)	3.6)		
	Weeks	weeks	Weeks		Mean baseline,	279	212	47	90	186
		mg/dL (SD)	(52)	(49)	(12)	(51)	(38)			
			% Change	-26.5%	-36.8%	+8.3%	-7.9%	-32.4%		

Simvastatin tablets	24 Weeks	106	from Baseline (95% CI)	(-29.6, - 23.3)	(-40.5, - 33.0)	(4.6, 11.9)	(-15.8, 0.0)	(-35.9, - 29.0)
Lablets	vv eeks	Mean baseline,	270	204	48	78	180	
			mg/dL (SD)	(44)	(42)	(9)	(46)	(34)

* median percent change

16. HOW SUPPLIED/STORAGE AND HANDLING

Simvastatin tablets USP 20 mg are brick red coloured oval shaped, biconvex, film-coated tablets, debossed "S 5" on one side and plain on other side.

- NDC: 63629-3393-1: 30 Tablets in a BOTTLE • NDC: 63629-3393-2: 60 Tablets in a BOTTLE
- NDC: 63629-3393-3: 100 Tablets in a BOTTLE
- NDC: 63629-3393-4: 90 Tablets in a BOTTLE
- NDC: 63629-3393-5: 120 Tablets in a BOTTLE
- NDC: 63629-3393-6: 180 Tablets in a BOTTLE
- NDC: 63629-3393-7: 3 Tablets in a BOTTLE
- NDC: 63629-3393-8: 10 Tablets in a BOTTLE

Storage

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

"Dispense in tight containers as defined in the USP"

Repackaged/Relabeled by: Bryant Ranch Prepack, Inc. Burbank, CA 91504

17 PATIENT COUNSELING INFORMATION

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

Myopathy and Rhabdomyolysis

Advise patients that simvastatin tablets may cause myopathy and rhabdomyolysis. Inform patients taking an 80 mg daily dose of simvastatin tablets that they are at an increased risk. Inform patients that the risk is also increased when taking certain types of medication or consuming grapefruit juice and they should discuss all medication, both prescription and over the counter, with their healthcare provider. Instruct patients to inform other healthcare providers prescribing a new medication or increasing the dose of an existing medication that they are taking simvastatin tablets. Instruct patients to promptly report any unexplained muscle pain, tenderness or weakness particularly if accompanied by malaise or fever [see Contraindications (4), Warnings and Precautions (5.1), and Drug Interactions (7.1)].

<u>Hepatic Dysfunction</u> Inform patients that simvastatin tablets may cause liver enzyme elevations and possibly liver failure. Advise patients to promptly report fatigue, anorexia, right upper abdominal discomfort, dark urine or jaundice [see Warnings and Precautions (5.3)].

Increases in HbA1c and Fasting Serum Glucose Levels

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

Pregnancy

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

Lactation

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

Missed Dose

Instruct patients to take simvastatin tablets only as prescribed. If a dose is missed, it should be taken as soon as possible. Advise patients not to double their next dose.

Manufactured For:

Accord Healthcare, Inc. 8041 Arco Corporate Drive, Suite 200, Raleigh, NC 27617, USA

Manufactured By: Intas Pharmaceuticals Limited,

Ahmedabad -380 054, India.

10 2959 6 6023694

Issued February 2024

PATIENT INFORMATION

Simvastatin (sim" va stat' in) tablets, for oral use

Read this Patient Information before you start taking simvastatin tablets and each time you get a refill. There may be new information. This information does not take the place of talking with your healthcare provider about your medical condition or your treatment. What are simvastatin tablets?

Simvastatin tablets are a prescription medicine that contains the cholesterol lowering medicine, simvastatin.

Simvastatin tablets are used to lower:

- the risk of death by lowering the risk of heart disease death.
- the risk of heart attacks and strokes.
- the need for certain types of heart and blood vessel procedures to improve blood flow called arterial revascularization in people with known heart, cerebrovascular disease (conditions that affect blood flow and the blood vessels in the brain), peripheral vascular disease (a blood circulation disorder that causes the blood vessels outside of your heart and brain to narrow, block, or spasm), and diabetes, who are at high risk for heart disease problems.

Simvastatin tablets are used along with diet to:

- lower the level of low-density lipoprotein (LDL) cholesterol or "bad" cholesterol in adults with hyperlipidemia (high levels of fat in the blood), and in adults and children 10 years of age and older with heterozygous familial hypercholesterolemia (an inherited condition that causes high levels of LDL).
- treat adults with a type of high cholesterol called primary dysbetalipoproteinemia.
- lower the level of triglycerides (type of fat in the blood) in adults.

Simvastatin tablets are used along with other cholesterol lowering treatments to lower the level of low-density lipoprotein (LDL) in adults with a type of high cholesterol called homozygous familial hypercholesterolemia (an inherited condition that causes high levels of LDL).

The safety and effectiveness of simvastatin tablets have not been established in children younger than 10 years of age with heterozygous familial hypercholesterolemia (HeFH) or other types of hyperlipidemia (high levels of fat in the blood).

Do not take simvastatin tablets if you:

- take certain medicines called CYP3A4 inhibitors such as:
 - certain antifungal medicines (such as itraconazole, ketoconazole, posaconazole, voriconazole).
 - certain antibiotics (including erythromycin, clarithromycin).
 - HIV protease inhibitors (such as indinavir, nelfinavir, ritonavir, and darunavir/ritonavir) and cobicistat containing products such as (elvitegravir/cobicistat/emtricitabine/tenofovir disoproxil fumarate).
 - certain hepatitis C virus protease inhibitors (such as boceprevir or telaprevir).
 the antidepressant nefazodone.
- take medicines called cyclosporine, danazol, or gemfibrozil.
- have liver problems.
- are allergic to simvastatin or any of the ingredients in simvastatin tablets. See the end
 of this Patient Information leaflet for a complete list of ingredients in simvastatin
 tablets.

Ask your healthcare provider or pharmacist if you are not sure if your medicine is listed above.

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

- · have unexplained muscle aches or weakness.
- have or have had myasthenia gravis (a disease causing general muscle weakness including in some cases muscles used for breathing), ocular myasthenia (a disease causing eye muscle weakness).
- have kidney problems.
- have liver problems or drink more than 2 glasses of alcohol daily.
- have thyroid problems.
- are 65 years of age or older.
- are of Chinese descent.
- are pregnant or plan to become pregnant. If you become pregnant while taking simvastatin tablets, call your healthcare provider right away to discuss stopping simvastatin tablets.
- are breastfeeding or plan to breastfeed. It is not known if simvastatin passes into your breast milk. Do not breastfeed while taking simvastatin tablets.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Talk to your healthcare provider before you start taking any new medicines.

Tell your healthcare provider who prescribes simvastatin tablets if another healthcare provider increases the dose of another medicine you are taking.

Simvastatin tablets may affect the way other medicines work, and other medicines may affect how simvastatin tablets works. Especially tell your healthcare provider if you take: • digoxin (a drug used to treat irregular heartbeat).

coumarin anticoagulants (drugs that prevent blood clots, such as warfarin).

Taking simvastatin tablets with certain substances can also increase the risk of muscle problems. Especially tell your healthcare provider if you take:

- amiodarone or dronedarone (medicines used to treat an irregular heartbeat).
 verapamil, diltiazem, amlodipine, or ranolazine (medicines used to treat high blood
- veraparili, diluazeri, amodipine, or ranolazine (medicines used to treat righ blood pressure, chest pain associated with heart disease, or other heart conditions).
- lomitapide (a medicine used to treat a serious and rare genetic cholesterol condition).
 daptomycin (a drug used to treat complicated skin and bloodstream infections).
- large doses of niacin or nicotinic acid, especially if you are of Chinese descent.
- fibric acid derivatives (such as fenofibrate).
- colchicine (a medicine used to treat gout).
- grapefruit juice.

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

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

How should I take simvastatin tablets?

- Take simvastatin tablets exactly as your healthcare provider tells you to take it.
- **Do not**change your dose or stop taking simvastatin tablets without talking to your healthcare provider.

- Take simvastatin tablets 1 time each day in the evening.
- If you miss a dose, take it as soon as you remember. If you do not remember until it is time for your next dose, skip the missed dose and go back to your regular schedule. Do not take 2 doses of simvastatin tablets at the same time. Talk with your healthcare provider if you have questions about a missed dose.
- While taking simvastatin tablets, continue to follow your cholesterol-lowering diet and to exercise as your healthcare provider told you to.
- Your healthcare provider may do blood tests to check your cholesterol while you take simvastatin tablets. Your healthcare provider may change your dose of simvastatin tablets if needed.
- In case of overdose, get medical help or contact a live Poison Center expert right away at 1-800-222-1222. Advice is also available online at poisonhelp.org

What are the possible side effects of simvastatin tablets?

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

Tell your healthcare provider right away if:

- you have unexplained muscle pain, tenderness, or weakness, especially if you have a fever or feel more tired than usual, while you take simvastatin tablets.
- you have muscle problems that do not go away even after your healthcare provider has advised you to stop taking simvastatin tablets. Your healthcare provider may do further tests to diagnose the cause of your muscle problems.
- Your chances of getting muscle problems are higher if you:
- are taking certain other medicines while you take simvastatin tablets.
- $\circ~$ are 65 years of age or older.
- are female.
- $\circ\;$ have thyroid problems (hypothyroidism) that are not controlled.
- have kidney problems.
- are taking higher doses of simvastatin tablets.
- are Chinese.
- Liver problems. Your healthcare provider should do blood tests to check your liver before you start taking simvastatin tablets and if you have any symptoms of liver problems while you take simvastatin tablets. Call your healthcare provider right away if you have the following symptoms of liver problems:
 - feeling tired or weak.
 - loss of appetite
 - right-sided upper belly pain
 - dark urine
 - yellowing of your skin or the whites of your eyes
- Increase in blood sugar (glucose) levels). Simvastatin tablets may cause an increase in your blood sugar levels.

The most common side effects of simvastatin tablets include:

- upper respiratory infection
- headache
- stomach (abdominal) pain
- constipation
- nausea

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

These are not all the possible side effects of simvastatin tablets.

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 simvastatin tablets?

- Store simvastatin tablets between 68°F to 77°F (20°C to 25°C).
- Bottles of 30's and 90's count of 5 mg comes in a child-resistant package.
- Bottles of 30's, 60's, 90's and 1,000's count of 10 mg, 20 mg, 40 mg and 80 mg comes in a child-resistant package.

Keep simvastatin tablets and all medicines out of the reach of children. General information about safe and effective use of simvastatin tablets. Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use simvastatin tablets for a condition for which it was not prescribed. Do not give simvastatin tablets to other people, even if they have the same symptoms that you have. It may harm them.

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

For more information, go to www.accordhealthcare.us or call Accord Healthcare Inc. at 1-866-941-7875.

What are the ingredients in simvastatin tablets?

Active ingredient:simvastatin.

Inactive ingredients:ascorbic acid, butylated hydroxyanisole, croscarmellose sodium, citric acid monohydrate, ferric oxide red, hydroxypropyl cellulose, hypromellose E5, lactose monohydrate, microcrystalline cellulose, magnesium stearate, maize starch, talc, titanium dioxide and triethyl citrate.

Manufactured For:

Accord Healthcare, Inc., 8041 Arco Corporate Drive, Suite 200, Raleigh, NC 27617, USA.

Manufactured By:

Intas Pharmaceuticals Limited, Ahmedabad -380 054, India.

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This Patient Information has been approved by the U.S. Food and Drug Administration. Revised: 2/2024

Simvastatin 20 mg Tablets



Р	roduct Infor	mation						
Product Type			HUMAN PRESCRIPTION Item				29-3393(NDC:16729-	
	oute of Admin	istration	ORAL	(Sour	rce)			
R	oute of Admin	istration	ONAL					
A	tive Ingred	ient/Active	Moiety					
			dient Name		Ba	sis of Str	ength	Strengt
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In	active Ingre	dients						
			Ingredient Nam	e				Strength
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			L10000 WAMW) (UNII: 5) (UNII: R75537T0T4)	Y0974F5P	VV)			
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Labeler - Bryant Ranch Prepack (171714327)

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Registrant - Bryant Ranch Prepack (171714327)

Establishment									
Name	Address	ID/FEI	Business Operations						
Bryant Ranch Prepack		171714327	REPACK(63629-3393), RELABEL(63629-3393)						

Revised: 8/2024

Bryant Ranch Prepack