

SUMMARY OF PRODUCT CHARACTERISTICS

Pravastatin Teva 20 mg

Pravastatin Teva 40 mg

1 NAME OF THE MEDICINAL PRODUCT

Pravastatin Teva 20 mg Tablets

Pravastatin Teva 40 mg Tablets

2 QUALITATIVE AND QUANTITATIVE COMPOSITION

Pravastatin Teva 20 mg- each tablet contains pravastatin sodium 20 mg.

Pravastatin Teva 40 mg- each tablet contains pravastatin sodium 40 mg.

Excipient(s) with known effect:

Lactose monohydrate

For the full list of excipients, see section 6.1

3 PHARMACEUTICAL FORM

Tablet.

Pravastatin Teva 20 mg - white to off-white, round, biconvex tablet, plain on both sides.

Pravastatin Teva 40 mg - white to off white, capsules shaped tablet, scored on one side of the tablet, debossed "P" on the other side. The tablet can be divided into equal halves.

4 CLINICAL PARTICULARS

4.1. Therapeutic indications

Pravastatin is indicated as a component of multiple risk factor intervention in those individuals at increased risk for atherosclerotic vascular disease due to hypercholesterolaemia.

Pravastatin should be used in addition to a diet restricted in saturated fat and cholesterol when the response to diet and other nonpharmacological measures alone has been inadequate.

Primary prevention of coronary events:

In hypercholesterolaemic patients without clinically evident coronary heart disease pravastatin is indicated to:

- Reduce the risk of myocardial infarction.
- Reduce the risk for revascularization.
- Reduce the risk of deaths due to cardiovascular causes with no increase in deaths from non-cardiovascular causes.

Secondary prevention of cardiovascular events:

Atherosclerosis:

In hypercholesterolaemic patients with clinically evident coronary artery disease including prior MI Pravastatin is indicated to:

- Slow the progression of coronary atherosclerosis.
- Reduce the risk of acute coronary events.

Myocardial infarction:

In patients with previous myocardial infarction and normal cholesterol levels Pravastatin is indicated to:

- Reduce the risk of recurrent myocardial infarction.
- Reduce the risk of undergoing myocardial revascularization procedures.
- Reduce the risk of stroke and transient ischemic attack (TIA).

Hypercholesterolaemia and mixed dyslipidemia:

Pravastatin is indicated as an adjunct to diet to reduce elevated Total-C, LDL-C and TG levels in patients with primary hypercholesterolaemia and mixed dyslipidemia (Fredrickson type IIa and IIb).

4.2 Posology and method of administration

Posology

Prior to initiating pravastatin, secondary causes of hypercholesterolaemia should be excluded and patients should be placed on a standard lipid-lowering diet which should be continued during treatment.

Hypercholesterolaemia

The recommended dose range is 10-40 mg once daily. The therapeutic response is seen within a week and the full effect of a given dose occurs within four weeks, therefore periodic lipid determinations should be performed and the dosage adjusted accordingly. The maximum daily dose is 40 mg.

Cardiovascular prevention

In all preventive morbidity and mortality trials, the only studied starting and maintenance dose was 40 mg daily.

Paediatric population

Pravastatin Teva is not indicated for children and adolescents below 18 years of age.

Older people

There is no dose adjustment necessary in these patients unless there are predisposing risk factors (see section 4.4).

Special populations

Patients with renal or hepatic impairment

A starting dose of 10 mg a day is recommended. The dosage should be adjusted according to the response of lipid parameters and under medical supervision.

Concomitant therapy

The lipid-lowering effects of pravastatin on total cholesterol and LDL-cholesterol are enhanced when combined with a bile acid-binding resin (e.g. colestyramine, colestipol). Pravastatin should be given either at least one hour before or at least four hours after the resin (see section 4.5).

Method of administration

Pravastatin is administered orally once daily preferably in the evening with or without food.

4.3 Contraindications

- Hypersensitivity to the active substance or to any of the excipients listed in section 6.1
- Active liver disease including unexplained persistent elevations of serum transaminase, elevation exceeding 3 x the upper limit of normal (ULN) (see section 4.4).
- Pregnancy and lactation (see section 4.6).

4.4 Special warnings and precautions for use

Hypercholesterolaemia

Pravastatin has not been evaluated in patients with homozygous familial hypercholesterolaemia. Therapy is not suitable when hypercholesterolaemia is due to elevated HDL-Cholesterol.

As for other HMG-CoA reductase inhibitors, combination of pravastatin with fibrates is not recommended. (see section 4.5)

Hepatic disorders

As with other lipid-lowering agents, moderate increases in liver transaminase levels have been observed. In the majority of cases, liver transaminase levels have returned to their baseline value without the need for treatment discontinuation. Special attention should be given to patients who develop increased transaminase levels and therapy should be discontinued if increases in alanine aminotransferase (ALT) and aspartate aminotransferase (AST) exceed three times the upper limit of normal and persist.

Caution should be exercised when pravastatin is administered to patients with a history of liver disease or heavy alcohol ingestion.

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

Muscle disorders

As with other HMG-CoA reductase inhibitors (statins), pravastatin has been associated with the onset of myalgia, myopathy and very rarely, rhabdomyolysis.

Myopathy must be considered in any patient under statin therapy presenting with unexplained muscle symptoms such as pain or tenderness, muscle weakness, or muscle cramps. In such cases creatine kinase (CK) levels should be measured (see below). Statin therapy should be temporarily interrupted when CK levels are > 5 x ULN or when there are severe clinical symptoms.

Very rarely (in about 1 case over 100 000 patient-years), rhabdomyolysis occurs, with or without secondary renal insufficiency. Rhabdomyolysis is an acute, potentially fatal condition of skeletal muscle which may develop at any time during treatment and is characterised by massive muscle destruction associated with major increase in CK (usually > 30 or 40 x ULN) leading to myoglobinuria.

The risk of myopathy with statins appears to be exposure-dependent and therefore may vary with individual drugs (due to lipophilicity and pharmacokinetic differences), including their dosage and potential for drug interactions. Although there is no muscular contraindication to the prescription of a statin, certain predisposing factors may increase the risk of muscular toxicity and therefore

justify a careful evaluation of the benefit/risk and special clinical monitoring. CK measurement is indicated before starting statin therapy in these patients (see below).

The risk and severity of muscular disorders during statin therapy is increased by the co-administration of interacting medicines. The use of fibrates alone is occasionally associated with myopathy. The combined use of a statin and fibrates should generally be avoided (see section 4.5). The co-administration of statins and nicotinic acid should be used with caution. An increase in the incidence of myopathy has also been described in patients receiving other statins in combination with inhibitors of cytochrome P450 metabolism. This may result from pharmacokinetic interactions that have not been documented for pravastatin (see section 4.5) When associated with statin therapy, muscle symptoms usually resolve following discontinuation of statin therapy. (see section 4.5).

Pravastatin Teva must not be co-administered with systemic formulations of fusidic acid or within 7 days of stopping fusidic acid treatment. In patients where the use of systemic fusidic acid is considered essential, statin treatment should be discontinued throughout the duration of fusidic acid treatment. There have been reports of rhabdomyolysis (including some fatalities) in patients receiving fusidic acid and statins in combination (see section 4.5). The patient should be advised to seek medical advice immediately if they experience any symptoms of muscle weakness, pain or tenderness. Statin therapy may be re-introduced seven days after the last dose of fusidic acid.

In exceptional circumstances, where prolonged systemic fusidic acid is needed, e.g., for the treatment of severe infections, the need for co-administration of Pravastatin Teva and fusidic acid should only be considered on a case by case basis and under close medical supervision.

There have been very rare reports of an immune-mediated necrotizing myopathy (IMNM) during or after treatment with some statins. IMNM is clinically characterized by persistent proximal muscle weakness and elevated serum creatine kinase, which persist despite discontinuation of statin treatment.

Cases of myopathy, including rhabdomyolysis, been reported with pravastatin coadministered with colchicine, and caution should be exercised when prescribing pravastatin with colchicine (see section 4.5).

Creatine kinase measurement and interpretation

Routine monitoring of creatine kinase (CK) or other muscle enzyme levels is not recommended in asymptomatic patients on statin therapy. However, measurement of CK is recommended before starting statin therapy in patients with special predisposing factors, and in patients developing muscular symptoms during statin therapy, as described below. If CK levels are significantly elevated at baseline ($> 5 \times \text{ULN}$), CK levels should be re-measured about 5 to 7 days later to confirm the results.

When measured, CK levels should be interpreted in the context of other potential factors that can cause transient muscle damage, such as strenuous exercise or muscle trauma.

Before treatment initiation: caution should be used in patients with predisposing factors such as renal impairment, hypothyroidism, previous history of muscular toxicity with a statin or fibrate, personal or familial history of hereditary muscular disorders, or alcohol abuse. In these cases, CK levels should be measured prior to initiation of therapy. CK measurement should also be considered before starting treatment in persons over 70 years of age especially in the presence of

other predisposing factors in this population. If CK levels are significantly elevated ($> 5 \times \text{ULN}$) at baseline, treatment should not be started and the results should be remeasured after 5 - 7 days. The baseline CK levels may also be useful as a reference in the event of a later increase during statin therapy.

During treatment: patients should be advised to report promptly unexplained muscle pain, tenderness, weakness or cramps. In these cases, CK levels should be measured.

If a markedly elevated ($> 5 \times \text{ULN}$) CK level is detected, statin therapy must be interrupted. Treatment discontinuation should also be considered if the muscular symptoms are severe and cause daily discomfort, even if the CK increase remains $\leq 5 \times \text{ULN}$. If symptoms resolve and CK levels return to normal, then reintroduction of statin therapy may be considered at the lowest dose and with close monitoring. If a hereditary muscular disease is suspected in such patients, restarting statin therapy is not recommended.

Myasthenia gravis, ocular myasthenia

In few cases, statins have been reported to induce de novo or aggravate pre-existing myasthenia gravis or ocular myasthenia (see section 4.8). [Product name] should be discontinued in case of aggravation of symptoms. Recurrences when the same or a different statin was (re-) administered have been reported.

Interstitial lung disease

Exceptional cases of interstitial lung disease have been reported with some statins, especially with long term therapy (see section 4.8). Presenting features can include dyspnoea, non-productive cough and deterioration in general health (fatigue, weight loss and fever). If it is suspected a patient has developed interstitial lung disease, statin therapy should be discontinued.

Diabetes Mellitus

Some evidence suggests that statins as a class raise blood glucose and in some patients, at high risk of future diabetes, may produce a level of hyperglycaemia where formal diabetes care is appropriate. This risk, however, is outweighed by the reduction in vascular risk with statins and therefore should not be a reason for stopping statin treatment. Patients at risk (fasting glucose 5.6 to 6.9 mmol/L, BMI $> 30 \text{ kg/m}^2$, raised triglycerides, hypertension) should be monitored both clinically and biochemically according to national guidelines.

Lactose: this product contains lactose. Patients with rare hereditary problems of galactose intolerance, total lactase deficiency or glucose-galactose malabsorption should not take this medicine.

Sodium: This medicine contains less than 23 mg sodium per tablet, that is to say essentially 'sodium-free'.
4.5 Interaction with other medicinal products and other forms of interaction

Fusidic acid

The risk of myopathy including rhabdomyolysis may be increased by the concomitant administration of systemic fusidic acid with statins. The mechanism of this interaction (whether it is pharmacodynamic or pharmacokinetic, or both) is yet unknown. There have been reports of rhabdomyolysis (including some fatalities) in patients receiving this combination.

If treatment with systemic fusidic acid is necessary, Pravastatin Teva treatment should be discontinued throughout the duration of the fusidic acid treatment. Also see section 4.4

Fibrates

The use of fibrates alone is occasionally associated with myopathy. An increased risk of muscle related adverse events, including rhabdomyolysis, have been reported when fibrates are co-administered with other statins. These adverse events with pravastatin cannot be excluded; therefore the combined use of pravastatin and fibrates (e.g. gemfibrozil, fenofibrate) should generally be avoided (see section 4.4). If this combination is considered necessary, careful clinical and CK monitoring of patients on such regimen is required.

Colestyramine/Colestipol

Concomitant administration resulted in approximately 40 to 50% decrease in the bioavailability of pravastatin. There was no clinically significant decrease in bioavailability or therapeutic effect when pravastatin was administered one hour before or four hours after colestyramine or one hour before colestipol (see section 4.2).

Ciclosporin

Concomitant administration of pravastatin and ciclosporin leads to an approximately 4-fold increase in pravastatin systemic exposure. In some patients, however, the increase in pravastatin exposure may be larger. Clinical and biochemical monitoring of patients receiving this combination is recommended (see section 4.2).

Warfarin and other anticoagulants

Bioavailability parameters at steady state for pravastatin were not altered following administration with warfarin. Chronic dosing of the two products did not produce any changes in the anticoagulant action of warfarin. See also *Vitamin K antagonists*.

Colchicine

Precaution for use: Due to the increased risk of myopathy/rhabdomyolysis, clinical and biological monitoring is advised, especially when starting association between pravastatin and colchicine.

Nicotinic acid

The risk of muscle toxicity is increased when statins are administered concomitantly with nicotinic acid. In one study, Chinese patients taking nicotinic acid plus laropirant concomitantly with simvastatin were reported to have a higher incidence of myopathy and rhabdomyolysis compared to Caucasians.

Rifampicin

In an interaction study where pravastatin was given together with rifampicin, a nearly 3-fold increase in pravastatin AUC and C_{max} was observed. Therefore, caution should be exercised when combining pravastatin to rifampicin if both are given at the same time. No interaction would be expected if their dosing is made apart at least two hours.

Lenalidomide

There is an increased risk of rhabdomyolysis when statins are combined to lenalidomide. A reinforced clinical and biological monitoring is warranted notably during the first weeks of treatment.

Products metabolised by cytochrome P450

Pravastatin is not metabolised to a clinically significant extent by the cytochrome P450 system. This is why products that are metabolised by, or inhibitors of, the cytochrome P450 system can be added to a stable regimen of pravastatin without causing significant changes in the plasma levels of pravastatin, as have been seen with other statins. The absence of a significant pharmacokinetic interaction with pravastatin has been specifically demonstrated for several products, particularly those that are substrates/inhibitors of CYP3A4 e.g. diltiazem, verapamil, itraconazole, ketoconazole, protease inhibitors, grapefruit juice and CYP2C9 inhibitors (e.g. fluconazole). In one of two interaction studies with pravastatin and erythromycin a statistically significant increase in pravastatin AUC (70%) and Cmax (121%) was observed. In a similar study with clarithromycin a statistically significant increase in AUC (110%) and Cmax (127%) was observed. Although these changes were minor, caution should be exercised when associating pravastatin with erythromycin or clarithromycin.

Vitamin K antagonists

As with other HMG-CoA reductase inhibitors, the initiation of treatment or dosage up-titration of pravastatin in patients treated concomitantly with vitamin K antagonists (e.g. warfarin or another coumarin anticoagulant) may result in an increase in International Normalised Ratio (INR). Discontinuation or down-titration of pravastatin may result in a decrease in INR. In such situations, appropriate monitoring of INR is needed.

Other products

In interaction studies, no statistically significant differences in bioavailability were observed when pravastatin was administered with acetylsalicylic acid, antacids (when given one hour prior to pravastatin), nicotinic acid or probucol.

4.6 Fertility, pregnancy and lactation

Pregnancy

Pravastatin is contraindicated during pregnancy (see section 4.3).

Women of childbearing potential

Pravastatin should be administered to women of childbearing potential only when these patients are unlikely to conceive and have been informed of the potential risk.

If a patient plans to become pregnant or becomes pregnant, the doctor has to be informed immediately and pravastatin must be discontinued because of the potential risk to the foetus.

Breast-Feeding

A small amount of pravastatin is excreted in human breast milk, therefore pravastatin is contraindicated during breastfeeding (see section 4.3).

4.7 Effects on ability to drive and use machines

Pravastatin has no or negligible influence on the ability to drive and use machines.

However, when driving vehicles or operating machines, it should be taken into account that dizziness and visual disturbances may occur during treatment.

4.8 Undesirable effects

The following adverse events have been reported with some statins:

Class Effects

- Nightmares
- Memory loss
- Depression
- Exceptional cases of interstitial lung disease, especially with long term therapy (see section 4.4)

List of adverse reactions

The frequencies of adverse events are ranked according to the following: Very common ($\geq 1/10$); Common ($\geq 1/100$ to $< 1/10$); Uncommon ($\geq 1/1,000$ to $< 1/100$); Rare ($\geq 1/10,000$ to $< 1/1,000$); Very rare ($< 1/10,000$), not known (cannot be estimated from the available data).

Clinical trials

Pravastatin has been studied at 40 mg in seven randomized double-blind placebo controlled trials involving over 21,000 patients treated with pravastatin (N = 10764) or placebo (N = 10719), representing over 47,000 patients years of exposure to pravastatin. Over 19,000 patients were followed for a median of 4.8 - 5.9 years.

The following adverse drug reactions were reported; none of them occurred at a rate in excess of 0.3% in pravastatin group compared to the placebo group.

Nervous system disorders:

Uncommon: dizziness, headache, sleep disturbance, insomnia

Eye disorders:

Uncommon: visual disturbance (including blurred vision and diplopia)

Gastrointestinal disorders:

Uncommon: dyspepsia/heartburn, abdominal pain, nausea/vomiting, constipation, diarrhoea, flatulence

Skin and subcutaneous tissue disorders:

Uncommon: pruritus, rash, urticaria, scalp/hair abnormality (including alopecia)

Renal and urinary disorders:

Uncommon: abnormal urination (including dysuria, frequency, nocturia)

Reproductive system and breast disorders:

Uncommon: sexual dysfunction

General disorders and administration site conditions:

Uncommon: fatigue

Events of special clinical interest

Musculoskeletal and connective tissue disorders:

Effects on the skeletal muscle, e.g. musculoskeletal pain including arthralgia, muscle cramps, myalgia, muscle weakness and elevated CK levels have been reported in clinical trials. The rate of myalgia (1.4% pravastatin vs 1.4% placebo) and muscle weakness (0.1% pravastatin vs $< 0.1\%$ placebo) and the incidence of CK level $> 3 \times \text{ULN}$ and $> 10 \times \text{ULN}$ in Cholesterol and Recurrent Events (CARE), West of Scotland Coronary Prevention Study (WOSCOPS) and Long-Term Intervention with Pravastatin in Ischemic Disease (LIPID) was similar to placebo (1.6% pravastatin vs 1.6% placebo and 1.0% pravastatin vs 1.0% placebo, respectively) (see section 4.4).

A Cholesterol Treatment Trialists' (CTT) Collaboration meta-analysis in 2022 assessed 19 double-blind trials of statin versus placebo (n=123,940) and four double-blind trials of a more intensive versus a less intensive statin regimen (n=30,724).

The meta-analysis demonstrated statin therapy caused a small relative increase (3%) in the number of first reports of mild muscle pain or weakness largely confined to the first year of treatment. The meta-analysis also demonstrated an increase in first episode of muscle pain or weakness symptoms being more likely for intensive statin regimens compared to moderate/less intense statin regimens.

Most (>90%) of all reports of muscle symptoms by participants allocated statin therapy were not due to the statin.

Hepatobiliary disorders:

Elevations of serum transaminases have been reported. In the three long-term, placebo-controlled clinical trials CARE, WOSCOPS and LIPID, marked abnormalities of ALT and AST ($> 3 \times \text{ULN}$) occurred at similar frequency ($\leq 1.2\%$) in both treatment groups.

Post marketing

In addition to the above the following adverse events have been reported during post marketing experience of pravastatin:

Nervous system disorders:

Very rare: peripheral polyneuropathy (in particular if used for long period of time) paraesthesia

Not known: Myasthenia gravis

Eye disorders:

Not known: Ocular myasthenia

Immune system disorders:

Very rare: hypersensitivity reactions: anaphylaxis, angioedema, lupus erythematosus-like syndrome

Gastrointestinal disorders:

Very rare: pancreatitis

Skin and subcutaneous tissue disorders

Not known: dermatomyositis, rash including lichenoid rash

Hepatobiliary disorders:

Very rare: jaundice, hepatitis, fulminant hepatic necrosis

Not known: Fatal and non-fatal hepatic failure

Musculoskeletal and connective tissue disorders:

Very rare: rhabdomyolysis (can be associated with acute renal failure secondary to myoglobinuria), myopathy, myositis, polymyositis (see section 4.4)

Isolated cases of tendon disorders, sometimes complicated by rupture.

Not known: immune-mediated necrotising myopathy, , muscle rupture (see section 4.4)

Endocrine disorders

Not known: diabetes mellitus: frequency will depend on the presence or absence of risk factors (fasting blood glucose at 5.6 mmol/L, BMI>30kg/m², raised triglycerides, history of hypertension).

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Any suspected adverse events should be reported to the Ministry of Health according to the National Regulation by using an online form

<https://sideeffects.health.gov.il>

4.9 Overdose

To date there has been limited experience with overdosage of pravastatin.

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.

5 PHARMACOLOGICAL PROPERTIES

5.1. Pharmacodynamic properties

Pharmacotherapeutic group

Serum lipid reducing agents/cholesterol and triglyceride reducers/HMG-CoA reductase inhibitors
ATC-Code: C10AA03

Mechanism of action

Pravastatin is a competitive inhibitor of 3-hydroxy-3-methylglutaryl-coenzyme A (HMG-CoA) reductase, the enzyme catalysing the early rate-limiting step in cholesterol biosynthesis, and produces its lipid-lowering effect in two ways. Firstly, with the reversible and specific competitive inhibition of HMG-CoA reductase, it effects modest reduction in the synthesis of intracellular cholesterol. This results in an increase in the number of LDL-receptors on cell surfaces and enhanced receptor-mediated catabolism and clearance of circulating LDL-cholesterol. Secondly, pravastatin inhibits LDL production by inhibiting the hepatic synthesis of VLDL cholesterol, the LDL-cholesterol precursor.

In both healthy subjects and patients with hypercholesterolaemia, Pravastatin Teva lowers the following lipid values: total cholesterol, LDL cholesterol, apolipoprotein B, VLDL-cholesterol and triglycerides, while HDL cholesterol and apolipoprotein A are elevated.

Clinical efficacy

Primary prevention

The "West of Scotland Coronary Prevention Study (WOSCOPS)" was a randomised, double-blind, placebo-controlled trial among 6,595 male patients aged from 45 to 64 years with moderate to severe hypercholesterolaemia (LDL-C: 155-232 mg/dl [4.0- 6.0 mmol/l]) and with no history of myocardial infarction, treated for an average duration of 4.8 years with either a 40 mg daily dose of pravastatin or placebo as an adjunct to diet. In pravastatin-treated patients, results showed:

- a decrease in the risk of mortality from coronary disease and of non-lethal myocardial infarction (relative risk reduction RRR was 31%; p = 0.0001 with an absolute risk of 7.9% in the placebo group, and 5.5% in pravastatin-treated patients);
- the effects on these cumulative cardiovascular events rates being evident as early as 6 months of treatment;
- a decrease in the total number of deaths from a cardiovascular event (RRR 32%; p = 0.03);

- when risk factors were taken into account, a RRR of 24% ($p = 0.039$) in total mortality was also observed among patients treated with pravastatin;
- a decrease in the relative risk for undergoing myocardial revascularisation procedures (coronary artery bypass graft surgery or coronary angioplasty) by 37% ($p = 0.009$) and coronary angiography by 31% ($p = 0.007$).

The benefit of the treatment on the criteria indicated above is not known in patients over the age of 65 years, who could not be included in the study.

In the absence of data in patients with hypercholesterolaemia associated with a triglyceride level of more than 6 mmol/l (5.3 g/l) after a diet for 8 weeks, in this study, the benefit of pravastatin treatment has not been established in this type of patients.

Secondary prevention

The "Long-Term Intervention with Pravastatin in Ischemic Disease (LIPID)" was a multicenter, randomised, double-blind, placebo-controlled study comparing the effects of pravastatin (40 mg OD) with placebo in 9014 patients aged 31 to 75 years for an average duration of 5.6 years with normal to elevated serum cholesterol levels (baseline total cholesterol = 155 to 271 mg/dl [4.0-7.0 mmol/l], mean total cholesterol = 219 mg/dl [5.66 mmol/l]) and with variable triglyceride levels of up to 443 mg/dl [5.0 mmol/l] and with a history of myocardial infarction or unstable angina pectoris in the preceding 3 to 36 months.

Treatment with pravastatin significantly reduced the relative risk of Coronary Heart Disease (CHD) death by 24% ($p = 0.0004$, with an absolute risk of 6.4% in the placebo group, and 5.3% in pravastatin-treated patients), the relative risk of coronary events (either CHD death or nonfatal myocardial infarction (MI)) by 24% ($p < 0.0001$) and the relative risk of fatal or nonfatal myocardial infarction (MI) by 29% ($p < 0.0001$). In pravastatin-treated patients, results showed:

- a reduction in the relative risk of total mortality by 23% ($p < 0.0001$) and cardiovascular mortality by 25% ($p < 0.0001$);
- a reduction in the relative risk of undergoing myocardial revascularisation procedures (coronary artery bypass grafting or percutaneous transluminal coronary angioplasty) by 20% ($p < 0.0001$);
- a reduction in the relative risk of stroke by 19% ($p = 0.048$).

The "Cholesterol and Recurrent Events (CARE)" study was a randomised, double-blind, placebo-controlled study comparing the effects of pravastatin (40 mg OD) on coronary heart disease death and non-fatal myocardial infarction (MI) for an average of 4.9 years in 4,159 patients aged 21 to 75 years, with normal total cholesterol levels (baseline mean total cholesterol < 240 mg/dl), who had experienced a myocardial infarction (MI) in the preceding 3 to 20 months. Treatment with pravastatin significantly reduced:

- the rate of a recurrent coronary event (either coronary heart disease death or non-fatal MI) by 24% ($p = 0.003$, placebo 13.3%, Pravastatin 10.4%);
- the relative risk of undergoing revascularisation procedures (coronary artery bypass grafting or percutaneous transluminal coronary angioplasty) by 27% ($p < 0.001$).

The relative risk of stroke was also reduced by 32% ($p = 0.032$), and stroke or transient ischemic attack (TIA) combined by 27% ($p = 0.02$).

The benefit of the treatment on the above criteria is not known in patients over the age of 75 years, who could not be included in the CARE and LIPID studies.

In the absence of data in patients with hypercholesterolaemia associated with a triglyceride level of more than 4 mmol/l (3.5 g/l) or more than 5 mmol/l (4.45 g/l) after following a diet for 4 or 8 weeks, in the CARE and LIPID studies, respectively, the benefit of treatment with Pravastatin has not been established in this type of patients.

In the CARE and LIPID studies, about 80% of patients had received acetyl-salicylic acid (ASA) as part of their regimen.

5.2 Pharmacokinetic properties

Absorption:

Pravastatin is administered orally in the active form. It is rapidly absorbed; peak serum levels are achieved 1 to 1.5 hours after ingestion. On average, 34% of the orally administered dose is absorbed, with an absolute bioavailability of 17%. The presence of food in the gastrointestinal tract leads to a reduction in the bioavailability, but the cholesterol-lowering effect of pravastatin is identical whether taken with or without food. After absorption, 66% of pravastatin undergoes a first-pass extraction through the liver, which is the primary site of its action and the primary site of cholesterol synthesis and clearance of LDL-cholesterol. *In vitro* studies demonstrated that pravastatin is transported into hepatocytes and with substantially less intake in other cells. In view of this substantial first pass through the liver, plasma concentrations of pravastatin have only a limited value in predicting the lipid-lowering effect. The plasma concentrations are proportional to the doses administered.

Distribution:

About 50% of circulating pravastatin is bound to plasma proteins. The volume of distribution is about 0.5 l/kg. A small quantity of pravastatin passes into the human breast milk.

Biotransformation and elimination:

Pravastatin is not significantly metabolised by cytochrome P450 nor does it appear to be a substrate or an inhibitor of P-glycoprotein but rather a substrate of other transport proteins. Following oral administration, 20% of the initial dose is eliminated in the urine and 70% in the faeces. Plasma elimination half-life of oral pravastatin is 1.5 to 2 hours.

After intravenous administration, 47% of the dose is eliminated by the renal excretion and 53% by biliary excretion and biotransformation. The major degradation product of pravastatin is the 3- α -hydroxy isomeric metabolite. This metabolite has one-tenth to one-fortieth the HMG-CoA reductase inhibitor activity of the parent compound.

The systemic clearance of pravastatin is 0.81 l/h/kg and the renal clearance is 0.38 l/h/kg indicating tubular secretion.

Special populations

Hepatic failure:

Systemic exposure to pravastatin and metabolites in patients with alcoholic cirrhosis is enhanced by about 50% comparatively to patients with normal liver function.

Renal impairment:

No significant modifications were observed in patients with mild renal impairment. However severe and moderate renal insufficiency may lead to a two-fold increase of the systemic exposure to pravastatin and metabolites.

5.3 Preclinical safety data

Based on conventional studies of safety pharmacology, repeated dose toxicity and toxicity on reproduction, there are no other risks for the patient other than those expected due to the pharmacological mechanism of action.

Repeated dose studies indicate that pravastatin may induce varying degrees of hepatotoxicity and myopathy; in general, substantive effects on these tissues were only evident at doses 50 or more times the maximum human mg/kg dose.

In vitro and *in vivo* genetic toxicology studies have shown no evidence of mutagenic potential.

In mice, a 2-year carcinogenicity study with pravastatin demonstrates at doses of 250 and 500 mg/kg/day (≥ 310 times the maximum human mg/kg dose), a statistically significant increase in the incidence of hepatocellular carcinomas in males and females, and lung adenomas in females only. In rats a 2-year carcinogenicity study demonstrates at a dose of 100 mg/kg/day (125 times the maximum human mg/kg/dose) produces a statistically significant increase in the incidence of hepatocellular carcinomas in males only.

When administered to juvenile rats (postnatal days [PND] 4 through 80), 5 to 45 mg/kg/day, thinning of the corpus callosum was observed at serum pravastatin levels approximately ≥ 1 times (AUC) the maximum pediatric and adolescent dose of 40 mg. At pravastatin levels approximately ≥ 2 times (AUC) the 40 mg human dose, neurobehavioral changes were observed (enhanced startle response and increased errors in watermaze learning). No thinning of the corpus callosum was observed in rats dosed with pravastatin (≥ 250 mg/kg/day) beginning PND 35 for 3 months suggesting increased sensitivity in younger rats. The cause and significance of the corpus callosum thinning and neurobehavioral effects in juvenile rats are unknown.

Altered sperm endpoints and reduced fertility were observed in males at 335 times (AUC) the human dose. The no-observed-effect-levels for reproductive endpoints were 1 (male) and 2 (female) times (AUC) the 40 mg human dose.

6 PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Lactose monohydrate

Crospovidone

Magnesium stearate

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

The expiry date of the product is indicated on the packaging materials.

6.4 Special precautions for storage

Store in a dry place, below 25°C. Keep in the original package in order to protect from light.

6.5. Nature and contents of container

Pravastatin Teva 20 mg or 40 mg: PVDC/Aluminium blister packs of 30 tablets.

6.6 Special precautions for disposal and other handling

No special requirements.

7 LICENSE HOLDER AND MANUFACTURER

TEVA ISRAEL LTD

124 Dvora HaNevi'a St., Tel Aviv Israel

8 REGISTRATION NUMBERS

Pravastatin Teva 20 mg: 124.64.30379

Pravastatin Teva 40 mg: 124.65.30380

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