For the use only of a Registered Medical Practitioner or Hospital or Laboratory



**BESTOR® - 5/10/20** 

### Composition BESTOR<sup>®</sup>-5

Each film coated tablet contains: Rosuvastatin Calcium IP equivalent to Rosuvastatin 5 mg cinients Colour: Tartrazine Lake and Titanium Dioxide IP

### PECTOP<sup>0</sup>.10

Each film coated tablet contains: Rosuvastatin Calcium IP equivalent to Rosuvastatin 10 mg Excipients Colour: Sunset Yellow Lake

BESTOR®-20 Each film coated tablet contains: Rosuvastatin Calcium IP equivalent to Rosuvastatin 20 mg Excipients

Colour: Ponceau 4R and Titanium Dioxide IP PHARMACEUTICAL FORM: Tablets

## PHARMACOLOGICAL PROPERTIES

Pharmacodynamic Properties Pharmacotherapeutic Group: HMG CoA reductase inhibitors ATC Code: C10BA06

## DESCRIPTION

Rosuvastatin is a synthetic linid lowering agent for oral administration. The empirical formula being C., H., EN, O.S. Machanism of action:

Mechanism or action: Rosunstatin as a decive, competitive inhibitor of HMG-CoA reductase, the rate-limiting enzyme that converts 3-hydroxy-3-methylglutaryl co-enzyme A to mevalonate, a precursor of cholesterol. Rosunstating produces its lipid-modifying effects by, increasing the number of hepatic LDL receptors on the cell-surface to enhance uptake and catabolism of

LDL and it inhibits the hepatic synthesis of VLDL, thereby reducing the total number of VLDL and LDL particles

DU and it minits thereted synthesis of UDLs, thereby reducing the total number of VUDL and DUL particles. High density lipotential (b) with the contains ApoA-1 is involved, amongst other timisg, in It transport of holdsetrol from tissues back to the liver (reverse cholesterol transport) and also inhibit the stratification of the time of the contains and the strategies of the contains ApoA-1 and the consumation reduces DL-robiesterol. To all choicesterol and triggiered is an increases ApoA-1 contains ApoA-1 and a the table contains ApoA-1 and a transport of choicest and ApoAPA-1 ratios. A therapeutic response to Rocursatist in experiment within 1 week of commencing therapy and 90% of maximum response to usually achieved and veeks. The maximum response is usually achieved and veeks. The maximum response is usually achieved and veeks. achieved by 4 weeks and is maintained after that.

## Pharmacokinetic properties:

Pharmacokinetic properties: After oral administration pask plasma levels occur in 5 hours after dosing. Absorption increases linearly over the dose range. The half-life is 19 hours and does not increase with increasing dose. Absolute bioavailability is 20%. There is minimal accumulation on repeated once daily dosing. Rosswastatin undergoes first pass extraction in the liver. Rosswastatin is approximately 90% bound to plasma proteins, mostly albumin. The parent compound, accounts for greater than 90% of the circulating active HMG-CoA reductase inhibitor activity. Rosswastatin undergoes limited metabolism in humans approximately 10%, banking to the Nedemethyl form, and 90% is eliminated as unchanged drug in

the faeces with the remainder being excreted in the urine

## Special populations:

Age and sex: There was no clinically relevant effect of age or sex on the pharmacokinetics of Rosuvastatin

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## Renal insufficiency:

Here in Source (1) which is the study of the state of the state of the state of the study in subjects with varying degrees of renal impairment, mild to moderate renal disease had little influence on plasma concentrations of Rosuvastatin However, subjects with severe impairment (CCI = 30 m/min) had a 3-fold increase in plasma concentration compared to healthy volunteers. Haemodialysis in unlikely to be of benefit for drug merval.

### INDICATIONS:

INDICATIONS: Rosunsatatin is indicated for patients with Hyperlipidemia and mixed dyslipidemia, Heterozygous familial Hypercholesterolemia in pediatric patients of 10-17 years of age. Hypertripiyeridemia, Primary Dysbetaligoporteinemia (Type III Hyperlipoproteinemia), Slowing the prognosis of atherosclerosis, Primary prevention of stroke, cardiovascular disease/without clinically evident coronary heart disease but has increased risk of cardiovascular disease/based on the risk factors) and to reduce therisk during the arterial reascularization procedures. As an adjunct to diet where resonres to diet and exercise is inadequate.

## DOSAGE AND METHOD OF ADMINISTRATION

BOORDER AND MELTINOU OF ADMINISTRATION: Before treatment initiation, the patient should be placed on a standard cholesterollowering diet that should continue during treatment. The usual start dose is 5-10 mg once a day. The dosage of Rosuwatatin should be individualized according to the goal of therapy and patient response. The majority of patients are controlled at the start dose. However, if necessary, dose adjustment can be made after 2-4 weeks. The dose can be titrated higher, depending upon the response to the lower dose.

Rosuvastatin may be given at any time of the day, with or without food

Primary hypercholesterolemia (including heterozygous familial hypercholesterolemia), mixed dyslipidemia and isolated Hypertriglyceridemia: The usual start dose is 5 - 10 mgorcea aday. For patients with severe hypercholesterolemia (including heterozygous familial hypercholesterolemia), a start dose of 10 - 20 mg may be considered.

Homozygous familial hypercholesterolemia: For patients with homozygous familial hypercholesterolemia a start dose 10 mg - 20 mg once a day is recommended.

Initiation of 5 mg of Rosuvastatin should be considered for Asian patients.

### Use in the elderly: The usual dose range applies.

Dosage in patients with renal insufficiency: The starting dose applies in patients with mid to moderate impairment. For patients with severe renal impairment the dose of Rosuvastatin should be started on 5 mg and should not exceed 10 mg once daily.

Dosage in patients with hepatic insufficiency: The usual starting dose applies in patients with mild to moderate hepatic impairment. Patients with severe hepatic impairment should start therapy with Rosuvastarting on - 10 mg, increased systemic exposure to Rosuvastain has been observed in these patients, therefore the use of doses above Rosuvastatin 10 mg should be careful yoonsidered (see "Pharmacological properties").

## Concomitant therapy:

Rosuvastatin has been shown to have additive efficacy in lowering triglycerides when used in combination with Fenofibrate and in increasing HDL-C levels when used in combination with niacin. Rosuvastatin can also be used in combination with bile acid sequestrants (see "Special warnings and precautions for use").

## CONTRA INDICATIONS:

Rosuvastatin Tablets IP is contra-indicated in - patients who are hypersensitive to any component of this product

## patients with active liver disease

pregnancy and lactation

INTERACTIONS:

eraction with other medicinal products and other forms of interaction

## Cyclosporine:

Co-administration of Rosuvastatin with Cyclosporine resulted in no significant changes in Cyclosporine plasma concentration. However, Rosuvastatin steady state AUC\_e\_increased up to 7-fold over that seen in healthy volunteers administered the same dose.

## Gemfibrozil

Concomitant use of Rosuvastatin and Gemfibrozil resulted in a 2-fold increase in Rosuvastatin C\_\_\_ and AUC\_\_ (see Dosage and Method of Administration). Protease Inhibitor

Processer implicit. Co-administration of Rosuvastatin with certain protease inhibitors given in combination with Ritonavir has different effects on Rosuvastatin exposure. The protease inhibitor combinations Lopinavir/Ritonavir and Atazanavir/Ritonavir increase Rosuvastatin exposure up to three fold. For these combinations the dose of Rosuvastatin is stricted to low dose.

## Coumarin Anticoagulants:

Rosuvastatin significantly increased International Normalised Ratio (INR) in patients receiving coumarin anticoagulants. Therefore caution should be exercised 1

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# बेस्टोर- ५/१०/२०

when cournarin anticoagulants are given in conjunction with Rosuvastatin. In patients taking cournarin anticoagulants and Rosuvastatin concomitantly INR should be determined before starting Rosuvastatin and frequently enough during early therapy to ensure that no significant alteration of INR occurs. Niacin:

The skeletal muscle effects may be enhanced with Rosuvastatin if used in combination with Niacin: a reduction in Rosuvastatin dosage should be considered Fenofibrate:

Periodinate: When Rosuvastatin was co administered with Fenofibrate, no clinically significant increase in AUC of Rosuvastatin or Fenofibrate was observed. The benefit of further alterations in lipid levels by the combined use of Rosuvastatin with fibrates should be carefully weighed against the potential risks of this combination.

## PREGNANCY AND LACTATION

The safety of Rosuvastatin during pregnancy and breast-feeding has not been established. Women of child-bearing potential should use appropriate contraceotive measures.

## Effects on Ability to drive and use machines:

Studies to determine the effect of rosuvastatin on the ability to drive and use machines have not been conducted. However, based on its pharmacodynamic properties, rosuvastatin is unlikely to affect this ability. When driving vehicles or operating machines, it should be taken into account that dizziness may occur during treatment

## ADVERSE REACTIONS:

Recurstantial a generally well blerated. The adverse events seen with Rossusstatin are generally mild and transient. In controlled clinical trials less than 4% of Rossusstatin transperiod parients were windtrawn due to adverse events. The frequencies of adverse events are ranked according to the following: Common (> 1/100, < 1/100, Harceminn (> 1/1000, < 1/1000, Rare (> 1/1000), < 1/1000).

Nervous system disorders:

Common: headache dizziness and memory loss

Gastrointestinal disorders: Common: constipation, nausea, abdominal pain

Musculoskeletal, connective tissue and bone disorders:

Common: myalgia Rare: myopathy, rhabdomyolysis

General disorders

Common: asthenia Skin disorders:

Uncommon: pruritis rash urticaria

Rare: hypersensitivity reactions including angio-oedema. The incidence of adverse drug reactions tends to increase with increasing dose

## Skeletal muscle effects:

Rhabdomvolvsis, which may occasionally be associated with impairment of renal function, has been reported with Rosuvastatin

## Renal effects: . e "Laboratory effects").

Laboratory effects:

Laboratory erects. A dose related increase in liver transaminases and Creatine Kinase (CK) has been observed in patients taking Rosuvastatin. Abnormal urinalysis testing (dipstick-positive proteinurial with haematuria) has been seen in alternist taking Rosuvastatin. The protein detected was mostly lubular in origin. In most cases, proteinuria decreases or disappears spontaneously on reduction of dose. Risk of Hyperglycemia:

## Increase in blood sugar levels (hyperglycemia) have been reported with rosuvastatin.

Special warnings and precautions for use:

## Liver Dysfunction:

An assessment of renal function should be considered during routine follow-up of patients treated with higher dose.

Storage and Precautions: Store protected from light and moisture, at a temperature not exceeding 30°C.

Presentation: BESTOR tablet is available in 5 mg, 10 mg and 20 mg strength in Alu-Alu Blister pack of 10 tablets.

Liver Dysfunction: It is ecommended that liver anyme test be aperformed telefore the initiation of nonvotating and it is not so ymptome of the initiation you. It is ecommended that liver names is a TGOTO and ICCOTT liver base mercine you have a first or so ymptome of the initiation, including convertaint in most cases, the elevations were transient and resolved or improved on continued therapy or after a brief interruption in therapy. There were no cases of jaundice, for which a relationship to rossivastatin therapy could not be determined, which resolved after discontinuation of therapy. There were no cases of low railow or irreversible liver disease in these trials.

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An advantant of mean uncoron should be considered ouring focume indivery up of patients treated with ingine dose. There is no selected muscle or guncerolicated myslight myscharbid prophysics, have been reported in patients treated with Rosuvastatin. Patients who develop any signs or symptoms suggestive of myopathy should have their CK levels measured. Rosuvastatin therapy should be discontinued if myopathy is diagnosed or suggested.

An increase in the incidence of myositis and myopathy has been seen in patients receiving other HMG-CoA reductase inhibitors together with Cyclosporine An inclusion in the inclusion of inposition in populary risk been seen in patient serving outer information conversion sections and imposition risk been seen in patient serving outer informations. Rosuwastatin should be prescribed with caution in patients with pre-disposing factors for myopathy, such as renal impairment, advanced age and hypothyroiding, or straubons where an increase in plasma levels may accur (see "Pharmacological properties"). Pharmacokinetic properties").

Resuvatatin should be temporarily withheld in any patient with an acute serious condition suggestive of myopathy or pedisposing to the development of renal failure secondary to rhabdomyolysis (e.g. sepsis, hypotension, major surgery, trauma, severe metabolic, endocrine and electrolyte disorders; or

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. Hemodialvsis is unlikely to be of benefit.

Special precautions for disposal and other handling: Any unused medicinal product or waste material should be disposed off in accordance with local

To report adverse events and/or product complaints visit our website www.bjocon.com or call toll free No: 1800 102 9465 or e mail us at

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# Hepatic insufficiency: In a study in subjects with varying degrees of hepatic impairment three was no evidence of increased exposure to Rosuvatation other than in the 2 subjects with the most server liver disases [Child+Pugh scores of 8 and 9). In these subjects systemic exposure was increased by at least 2-fold compared with subjects with lower Child+Pugh scores. It is recommended that the liver enzyme tests be performed before and after 12 weeks following both the initiation of therapy and any elevation of dose thereafter.

Renal effects:

uncontrolled seizures)

PHARMACEUTICAL PARTICULARS

Keep out of reach of children Shelf Life: Please refer to carton/bliste

Biocon Biologics India Limited

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Biocon House, Semicon Park, Electronics City, Phase - II, Bengaluru - 560 100, India

Registered trademark

drugsafety@biocon.com

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