NOVARTIS

Lomir®/Lomir SRO®

Calcium antagonist

COMPOSITION Lomir

One scored tablet contains

- Active substance: Isradinine 2.5 mg

- Excipients: Sodium lauryl sulphate, tableting excinients
- Lomir SRO

One low-dose cansule contains:

- Active substance: Isradinine 2.5 mg - Excipients: Capsule excipients
- One cansule contains
- Active substance: Isradioine 5 mg - Excipients: Capsule excipients

PROPERTIES/ACTIONS

Isradinine, the active ingredient of Lomir, is a dihydronyridine calcium antagonist with a higher affinity for calcium channels in arterial smooth muscle than for those in the myocardium. It thus dilates arterial vascular beds, in particular those of the heart, brain and skeletal muscle, without depressing cardiac function. As a result of peripheral vasodilation, arterial blood pressure is lowered Experiments in animals indicate that is radioine exerts a selective inhibitory action on the sinus node, but does not impair atrioventricular conduction or myocardial contractile function. Therefore, reflex tachycardia is moderate and no prolongation of the PO interval occurs, even after pre-treatment with a betablocker. At blood-pressure-lowering doses isradipine has also been shown to possess a moderate but significant natriuretic activity.

In hypertensive patients a dose-related reduction in supine, sitting and standing blood pressure is achieved within 2-3 hours of a single oral dose Lomir's long duration of action ensures 24-hour control of arterial blood pressure with once daily administration of two 2.5 mg tablets or one 5 mg SRO capsule; significant lowering of blood pressure is

coon after one week of treatment, but at least 3. A weeks are required for the maximum effort to douglon Changes in heart rate were not normally observed with SRO cansules

Israrlinine was well tolerated when given to nationts with hunertension or stable angina nectoris at doses up to 20 or 22 5 mg/day

Single oral doses of Lomir blunted the bronchospastic response of asthmatic natients to exercise. Lomir has on clinically relevant effect on glucose homeostasis and may therefore be given to diabetic nationts No cases of orthostatic hynotension have been

reported No reduction in the antihypertensive effect of Lomir was observed in studies lasting up to 2 years.

PHARMACOKINETICS

Following 90-95% absorption from the gastrointesti nal tract, isradinine undergoes extensive first-nass metabolism resulting in a bigavailability of approx 20%. Following single oral doses of 2.5–20 mg, the drug is detectable in the plasma within 20 minutes: peak plasma concentrations are reached after approx. 2 hours with the tablet. Healthy volunteers given 5 mg Lomir SRO in the fasting state once daily for 7 days had peak plasma concentrations (C.....) of approx. 1.2 ng/ml 6-7 hours after ingestion (tous). Ingestion of the tablet with food delays the time to neak blood level by about one hour without affecting bigavailability. Ingestion of the SRO cansule with a meal results in slightly higher peak plasma concentrations and increases bigavailability by about 20%. Grapefruit juice increases the bioavailability of dihydropyridines by inhibiting the first-pass effect. Isradipine is about 95% bound to plasma proteins and its apparent volume of distribution is 283 litres. Both the peak plasma concentration and the area under the curve exhibit a linear relationship with the dose after oral doses of up to 20 mg.

Total clearance of isradipine amounts to 43 L/h. Elimination is bi-phasic: the terminal half-life is 3.2 hours in younger patients and 8.4 hours in those over 65 years of age. Metabolism is complete, with no unchanged drug being detectable in the urine. About 60-65% of a dose is excreted in the urine and 25-30% in the faeces.

Study data showed no clear evidence of a connection

between kidney function and isradinine obarmano. kingties. Both increased and reduced hipavailability. have been observed in nationts with ronal failure Bioavailability has been reported to be higher in elderly patients and in patients with impaired liver function, reaching values of up to 27%. For pharmacokingtic interactions son contion Interactions

INDICATIONS/POTENTIAL LISES Hypertension

DOSAGE AND ADMINISTRATION

Usual dosage The recommended dosage for nationts with mild to moderate hypertension is one 2.5 mg tablet twice daily or one 5 mg SRO cansule once daily

Special dosage instructions

Tablets: Treatment should be started with 2.5 mg twice daily. This may be increased progressively at intervals of 4 weeks up to a maximum of 5 mg twice daily. If normal blood pressure levels are still not achieved, the addition of another antihypertensive to the Lomir regimen should be considered.

Capsules: If one 5 mg capsule once daily is not sufficiently effective after at least 4 weeks of treatment addition of another antihynertensive agent is recom-

In elderly patients and patients with liver or kidney failure, a starting dose of 1.25 mg (half a tablet) twice daily or one 2.5 mg SRO cansule once daily is recommended

Lomir can also be added to existing antihypertensive treatment

When I omir is given concurrently with cimetidine the dosage of Lomir should be reduced by 50% (see Interactions).

Lomir tablets and SRO capsules must be swallowed

RESTRICTIONS ON USE Contraindications

Hypersensitivity to dihydropyridines or any of the excipients.

Lomir tablets only: Myocardial infarction less than one month prior to start of therapy, unstable angina nectoris

Precautions

Extreme caution is advised when giving dihydronuridings to nationts with tight antic storness Individual dosing of Lomir is recommended in nationts with impaired kidney or liver function or chronic heart failure as well as in the elderly Caution should be exercised when treating nationts with confirmed or strongly suspected sick sinus syndrome who are not fitted with a pacemaker. Particular care is also recommended in nationts with low systolic annasanra hone

There is currently no experience with the use of Lomir or Lomir SRO in nationts under 16 years of age There is evidence to suggest that, particularly in patients with coronary heart disease, fast-acting calcium antagonists of the dihydronyridine type may cause an increase in cardinvascular morbidity and mortality Exacerbation of angina nectoris or a sharp fall in blood pressure and tachycardia with unfavourable course may occur during treatment with this product

Pregnancy / Lactation

Isradinine crosses the placental barrier. Animal data provide no evidence that isradipine has any embryotoxic or teratogenic potential. However, experience with the drug in pregnant women is limited and its use during pregnancy can only be justified if the benefit for the mother clearly outweighs any potential risk to the child. Use of oral Lomir during the third trimester of pregnancy has not been associated with changes in fetal heart rate or uteroplacental blood flow. Antenar, tal observations in animals suggest that high doses of isradinine may cause prolongation of Jahour

A study performed in rats showed that small amounts of isradinine pass into the milk. No studies have been performed in humans. Although animal studies have not revealed any adverse effect of isradipine adminis tered during lactation, the safety of the drug in breast fed infants has not been demonstrated. Mothers being treated with Lomir should therefore not breast-feed.

ADVERSE EFFECTS

The adverse effects reported most frequently were headache, sensation of heat, facial flushing, localized peripheral oedema of non-cardiac origin, dizziness, palpitations and tachycardia. These effects are related to the vasortilator properties of isradinine and tend to disannear or decrease as treatment continues Hypotension is rare

Non-specific adverse effects, which are rare include fatione rash and pastrointestinal disturbances (nausea vomiting diarrhoea)

Flevations of senim transaminases have been observed in a few isolated cases but were reversible either during treatment or following withdrawal. As with other vacodilatory drugs, angina pertoris may occur in rare instances, narticularly in nationts with existing coronary heart disease. In nationts with existing angina pector is the frequency duration and severity of attacks may increase at the start of treat ment or as a result of over, rapid dose increments

INTERACTIONS

Ingestion of the tablets with food does not affect the hipavailability of Lomir, but may delay both the start of absorption and the time to neak plasma concentra tion by one hour Ingestion of Lomir SRO cansules with food leads to slightly higher neak plasma concentrations and increases bigavailability by about 20% The pharmacokinetic properties of isradinine are not modified by the concomitant administration of digoxin, warfarin, propranolol or hydrochlorothiazide. Isradinine does not affect the kinetics of digoxin. warfarin or hydrochlorothiazide, but does increase the C.... and binavailability (AUC) of proprangled by 58% and 27% respectively. Isradinine is non-specifically bound to proteins; nevertheless, care is recommended in cases where anticonvulsants are being given concomitantly

Concomitant use of cimetidine an inhibitor of the cytochrome P-450 enzyme system, results in an increase of approx, 50% in the bigavailability of isradinine (see Dosage/Administration), whereas concomitant administration of rifampicin, known to be a powerful inducer of the cytochrome P-450 enzyme system, greatly reduces the plasma concentrations of isradioine. Concomitant administration of isradipine with rifampicin or with other enzymeinducing drugs (e.g. phenobarbital) should be avoided.

Isradipine can cause a slight reduction in prothrombin time; however, this is of no clinical significance. Grapefruit juice inhibits the oxidative degradation of

dibudropyridines. Concomitant intake with isradinine may therefore recult in increased placema levels and excessive blood pressure reduction

OVERDOSE

Experience of isradinine intoxication is limited. The available data suggest that it would result in marked and prolonged hypotension requiring cardiovascular support (e.g. i.v. fluids or plasma volume expanders). with monitoring of cardiorespiratory function and circulating blood volume. Vasoconstrictors may be heneficial, providing their use is not contraindicated Intravenous calcium may also be tried.

OTHER INFORMATION

Note: I omir should be kent out of reach of children

Shelf-life

The drug should not be used after the emiry date (= EXP) printed on the nack

Manufacturer: See folding box.

Information last revised: July 1998

Date of approval (text): 21 January 2000

@ = Registered Trademark

Novartis Pharma AG Basle, Switzerland

This is a medicament

 A medicament is a product which affects your health, and its consumption contrary to instructions. is dangerous for you.

- Follow strictly the doctor's prescription, the method of use and the instructions of the pharmacist who sold the medicament

- The doctor and the pharmacist are experts in

medicine, its benefits and risks. Do not by yourself interrupt the period of treatment.

prescribed for you. Do not repeat the same prescription without

consulting your doctor.

Keen medicaments out of reach of children

Council of Arab Health Ministers Union of Arab Pharmacists

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