

QUALITATIVE AND QUANTITATIVE COMPOSITION

Gpride® 2mg Tablets Each tablet contains: Glimepiride USP.....2mg Gpride® 1mg Tablets Each tablet contains: Glimepiride USP.....1mg **G**pride® 4mg Tablets Each tablet contains: Glimepiride USP.....4mg

PHARMACEUTICAL FORM

Gpride® 1mg Tablets: Light green color, capsular shaped tablets having break line on one side and engraved "SAMI" on the other side

Gpride ® 2mg Tablets: Pink color, capsular shaped tablets having break line on one side and engraved "SAMI" on the other side

Gpride ® 4mg Tablets: Blue color, capsular shaped tablets having break line on one side and engraved "SAMI" on the other side

CLINICAL PARTICULARS THERAPEUTIC INDICATIONS:

Copride is indicated for the treatment of type 2 diabetes mellitus, when diet, physical exercise, and weight reduction alone are not adequate.

For oral administration. The basis for successful treatment of diabetes is a good diet, regular physical activity, as well as routine checks of blood and urine. Tablets or insulin bannot compensate if the patient does not keep to the recommended diet.

Dose is determined by the results of blood and urinary glucose determinations. The starting dose is 1mg glimepiride per day. If good control is achieved this dose should be Does is determined by the results of blood and urinary glucose determinations. The starting does is 1mg glimepride per day. If good control is achieved this does should be justed for maintenance therapy. For the different does regimens appropriate strengths are available. If control is unsatisfactory the does should be increased, based on the glycaemic control, in a stepwise manner with an interval of about 1 to 2 weeks between each step, to 2, 3, or 4mg glimepride per day. A dose of more than 4mg glimepride per day gives better results only in exceptional cases. The maximum recommended dose is 6mg glimepride per day. In patients not adequately controlled with the maximum daily dose of metformin, concomitant glimepride therapy can be initiated. While maximum daily dose. The combination therapy should be initiated under close medical supervision. In patients not adequately controlled with the maximum daily dose of glimepride, concomitant insulin therapy can be initiated under close medical supervision. Normally a single daily dose of glimepride is sufficient. It is recommended that this dose be taken shortly before or during a substantial breakfast or - if none is taken - shortly before or during a first main meal. If a dose is forgotten, this should not be corrected by increasing the next dose. If a patient has a hypoglycaemic reaction on 1mg glimepride daily, this indicates that they can be controlled by diet alone. In the course of treatment, as an improvement in the control of diabetes is associated with hicker is unity in sensitivity. Glimepride canner is may fail.

reaction on fing glimepiride daily, this indicates that they can be controlled by diet alone. In the course of treatment, as an improvement in the control of diabetes is associated with higher insulin sensitivity, glimepiride requirements may fall. To avoid hypooglycemain timely dose reduction or cessalin between therefore be considered. Change in dose may also be necessary if there are changes in weight or lifestyle of the patient, or other factors that increase the risk of hypo- or hyperglycemia.

Switch over from other or all hypoglycemia agents to glimepiride: A switch over from other or all hypoglycemia can generally be done. For the switch over to glimepiride the strength and the half-life of the previous meeting and tendinal product has to be taken into account. In some cases, especially in antidiabetics with a long half-life (e.g. chlorpopamide), a wash out period of a few days is advisable in order to minimize the risk of hypoglycaemic reactions due to the additive effect. The recommended starting dose is fing glimepiride per day. Based on the response the glimepiride dose may be increased stepwies, as intellect earlier.

Switch over from insulin to glimepiride: In exceptional cases, where type 2 diabetic patients are regulated on insulin, a changeover to glimepiride may be indicated. The changeover should be undertaken under close medical supervision.

Special populations: In case of severe renal or hepatic function disorders, a changeover to insulin is required.

Paediatric population: There are no data available on the use of glimepiride in patients under 40 years of age. For children aged 8 to 17 years, there are limited data on glimepiride as monotherapy. The available data on safety and efficacy are insufficient in the paediatric population and therefore such use is not recommended.

Method of administration:

Tablets should be swallowed without chewing with some liquid.

CONTRAINDICATIONS:

imepiride is contraindicated in patients with the following conditions:

- Hypersensitivity to glimepiride, other sulfonylureas or sulfonamides or to any of the excipients.
- Diabetes mellitus type I
- Severe renal or hepatic function disorders. In case of severe renal or hepatic function disorders, a change over to insulin is required.

SPECIAL WARNINGS AND PRECAUTIONS FOR USE:

SPECIAL WARNINGS AND PRECAUTIONS FOR USE:
Glimepiride must be taken shortly before or during a meal: When meals are taken at irregular hours or skipped altogether, treatment with glimepiride may lead to hypoglycemia. Possible symptoms of hypoglycemia include headache, ravenous hunger, nausea, vomiting, lassitude, sleepiness, disordered sleep, restlessness, aggressiveness, impaired concentration, alertness and reaction time, depression, confusion, speech and visual disorders, aphasia, tremors, paresis, sensory disturbances, dizziness, helplessness, loss of self-control, deliritum, cerebral convulsions, somnolence and loss of consciousning coma, shallow respiration and bradycardia. In addition, signs of adrenergic counter-regulation may be present such as sweating, clammy skin, anxiety, tachycardia, hypertension, palpitations, angina person, and cardiac arrhythmias: The clinical picture of a severe hypoglycemic attack may resemble that of a stroke. Symptoms can almost always be promptly controlled by immediate intake of carbohydrates (sugar). Artificial sweetners have no effect. It is known from other sulfonytureas that, despite initially successful countermeasures, hypoglycemia may recur. Severe hypoglycemia or prolonged hypoglycemia, only temporarily controlled by the usual amounts of sugar, requires immediate medical treatment and occasionally hospitalization. and occasionally hospitalization.

Factors favoring hypoglycemia include:

- unwillingness or (more commonly in older patients) incapacity of the patient to cooperate
- undernutrition, irregular mealtimes or missed meals, or periods of fasting
- alterations in diet an imbalance between physical exertion and carbohydrate intake
- consumption of alcohol; especially in combination with skipped meals
- impaired renal function serious liver dysfunction overdose with glimepiride
- overcose with grinepinice certain uncompensated disorders of the endocrine system affecting carbohydrate metabolism or counter-regulation of hypoglycemia (as for example in certain disorders of thyroid function and in anterior pituitary or adrenocortical insufficiency) concurrent administration of certain other medicinal products.

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Treatment with glimepind re requires regular monitoring of glucose levels in blood and urine. In addition, determination of the proportion of glycosylated haemoglobin is recommended. Regular hepatic and haematological monitoring (especially leucocytes and thrombocytes) is required during treatment with glimepinide. In stressful situations (e.g. accidents, southe operations, infections with fever, etc.) a temporary switch to insulin may be indicated. No experience has been gained concerning the use of glimepinide in patients with severe impairment of liver function or dialysis patients. In patients with severe impairment of renal or liver function change over to insulin is indicated. Treatment of patients with G8PD deficiency with sulfornylurea agents can lead to haemofytic anemia. Since glimepinide belongs to the class of sulfonylurea agents, caution should be used in patients with G8PD deficiency and a non-sulfonylurea alternative should be considered.

Gpride® contains lactose monohydrate: Patients with rare hereditary problems of galactose intolerance, total lactase deficiency or glucose-galactose malabsorption shoul

Capride® 1mg contains Apple green lake color, Capride® 2mg contains Erythrosine lake color and Tartrazine yellow lake color and Capride® 4mg contains Brillian

blue lake color and Erythrosine lake color: May cause allergic reactions.
This medicine contains less than 1mmol sodium (23mg) per tablet, that is to say essentially 'sodium-free

INTERACTION WITH OTHER MEDICINAL PRODUCTS AND OTHER FORM OF INTERACTIONS:
If glimepiride is taken simultaneously with certain other medicinal products, both undesired increases and decreases in the hypo-glycaemic action of glimepiride can occur. For this reason, other medicinal products should only be taken with the knowledge (or at the prescription) of the doctor. Climepiride is metabolized by cytochrome P450 226 (CYP2C9). Its metabolism is known to be influenced by the concomitant administration of CYP2C9 inducers (e.g. rifampicin) or inhibitors (e.g. fluconazole). Results from an in vivo interaction study reported in the literature show that glimepiride AUC is increased approximately 2-fold by fluconacy, one of the most potent CYP2C9 inhibitors. Based on the experience with glimepiride and with other sulfonylureas the following interactions have to be mentioned. Potentiation of the blood-glucose-lowering effect and, thus, in some instances, hypoglycemia may occur when one of the following medicinal products is taken, for example:

phenylbutazone, azpropazone and oxylenbutazone,
insulin and oral antidiabetic products, such as metformin,

- salicylates and p-amino-salicylic acid,
- anabolic steroids and male sex hormones,
- chloramphenicol, certain long-acting sulfonamides, tetracyclines, quinolone antibiotics and clarithromycin,
- coumarin anticoagulants.
- fenfluramine.
- disopyramide, fibrates.
- ACF-inhihitors
- fluoxetine, MAO inhibitors, allopurinol, probenecid, sulfinpyrazone, sympatholytic, sulfankaria, sulfankaria,
- cyclophosphamide, trophosphamide and iphosphamides,
- miconazole, fluconazole, pentoxifylline (high dose parenteral).
- tritoqualine

Weakening of the blood-glucose-lowering effect and, thus raised blood glucose levels may occur when one of the following medicinal products is taken, for example:

- oestrogens and progestogens. saluretics, thiazide diuretics.
- thyroidstimulating agents, glucocorticoids, phenothiazine derivatives, chlorpromazine
- phenothiazine derivatives, chlorpromazine, adrenaline and sympathomimetics, nicotinic acid (high doses) and nicotinic acid derivatives, laxatives (long-term use), phenytoin, diazoxide, glucagon, barbiturates and rifampicin, aceteralemide.

H₂-antagonists, beta-blockers, clonidine, and reserpine may lead to either potentiation or weakening of the blood-glucose-lowering effect. Under the influence of sympatholytic medicinal products such as beta-blockers, clonidine, guanethidine and reserpine, the signs of adrenergic counter-regulation to hypoglycemia may be reduced or absent. Alcohol intake may potentiate or weaken the hypoglycemic action of glimepiride in an unpredictable fashion. Glimepiride may either potentiate or weaken the effects of courants deraviers. Collesvelam binds to glimepiride and reduces glimepiride absoption from the gastrointestinal No interaction was observed when glimepiride was taken at least for 4 hours before colesevelam. Therefore, glimepiride should be administered at least 4 hours prior to colesevelam.

Fertility: No data on fertility is available.

Pregnancy: Risk related to the diabetes: Abnormal blood glucose levels during pregnancy are associated with a higher incidence of congenital abnormalities and perinatal Pregnancy: Nisk related to the diabetes: Anthormal blood glucose events ourning pregnancy are associated with a higher indicate of congenital anomalisms and permatal mortality. So, the blood glucose level must be closely monitored during pregnancy in order to avoid the teratogenic risk. The use of insulin is required under such bircumstances. Patients who consider pregnancy should inform their physician. Risk related to glimepiride: There are no adequate data from the use of glimepiride in pregnant owners. Animal studies have shown reproductive toxicity which likely was related to the pharmacologic action (hypoglycaemia) of glimepiride. Consequently, glimepiride should not be used during the whole pregnancy. In case of treatment by glimepiride, if the patient plans to become pregnant or if a pregnancy is discovered, the treatment should be switched as soon as possible to insulin therapy.

Breast-feeding: The excretion in human milk is unknown. Glimepiride is excreted in rat milk. As other sulfonylureas are excreted in human milk and because there is a risk of hypoglycaemia in nursing infants, breast-feeding is advised against during treatment with glimepiride.

EFFECTS ON ABILITY TO DRIVE AND USE MACHINES:

No studies on the effects on the ability to drive and use machines have been performed. The patient's ability to concentrate and react may be impaired as a result of hypoglycaemia or hyperglycaemia or, for example, as a result of visual impairment. This may constitute a risk in situations where these abilities are of special importance (e.g. driving a car or operating machinery). Patients should be advised to take prescutions to avoid hypoglycaemia white, This is particularly important in those who have feduced or absent awareness of the warning symptoms of hypoglycaemia or have frequent episodes of hypoglycaemia. It should be considered whether it is advisable to drive prescut in the property of the property

UNDESIRABLE EFFECTS:

The following adverse reactions from clinical investigations were based on experience with glimepiride and other sulfonylureas, were listed below by system organ class and in prider of decreasing incidence (very common: ≥1/10; common: ≥1/100 to <1/1/0; uncommon: ≥1/1,000 to <1/1/0; rare: ≥1/10,000 to <1/1,000; very rare: <1/10,000), not known (cannot be estimated from the available data).

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Blood and Imphatic system disorders: Rare: Thrombocytopenia, leukopenia, granulocytopenia, agranulocytosis, erythropenia, haemolytic anaemia and pancytopenia.
Not known: Severe thrombocytopenia with platelet count less than 10,000/ul and thrombocytopenic purpura.
Immune system disorders: Very rare: Leukocytoclastic vasculitis. Mild hypersensitivity reactions that may develop into serious reactions with dyspnoea, fall in blood pressure and sometimes shock. Not Known: Cross-allergenicity with sulphonylureas, sulphonamides or related substances is possible.

Metabolism and nutrition disorders: Rare: Hypoglycaemia.

Eye disorders: Not known: Visual disturbances.

Gastrointestinal disorders: Rare: Dysgeusia. Very rare: Nausea, vomiting, diarrhoea, abdominal distension, abdominal discomfort and abdominal pain.

Skin and subcutaneous tissue disorders: Rare: Alopecia. Not known: Hypersensitivity reactions of the skin may occur as pruntus, rash, urticaria and photosensitivity.

Hepatobiliary disorders: Very rare: Hepatic function abnormal (e.g. with hotolestasis and jaundice), hepatitis and hepatic failure. Not known: Hepatic enzymes increased.

Investinations: Rare: Weight hard Very rare: Blood sofulim derease.

Investigations: Rare: Weight pain. Very rare: Blood sodium decrease.

These alterations are in general reversible upon discontinuation of treatment.

These hypo-glycaemic reactions mostly occur immediately, may be severe and are not always easy to correct. The occurrence of such reactions depends, as with other hypo-glycaemic therapies, on individual factors such as dietary habits and dose.

These disturbances are transient and may occur especially on initiation of treatment, due to changes in blood glucose levels.

These reactions seldom lead to discontinuation of therapy.

OVERDOSE:
Symptoms: After ingestion of an overdose, hypo-glycaemia may occur, lasting from 12 to 72 hours, and may recur after an initial recovery. Symptoms may not be present for up to 24 hours after ingestion, In general observation in the hospital is recommended. Nausea, vomiting, and epigastric pain may occur. The hypo-glycemia may, in general, be accompanied by neurological symptoms like restlessness, tremor, visual disturbances, coordination problems, sleepiases, coma and convulsions.

Management: Treatment primarily consists of preventing absorption by inducing vomiting and then drinking water or lemonade with activated charcoal (adsorbent) and sodium sulphate. In case of (severe) overdose hospitalization in an intensive care department is indicated. Start the administration of glucose as soon as possible, if necessary, by a bobus intravenous injection of 50ml of a 50% solution, followed by an infusion of a 10% solution with strict monitoring of blood glucose. Further treatment should be symptomatic. In particular, when treating hypoglycemia due to accidental traike of glimeropide in infants and young children, the dose of glucose given must be carefully controlled to avoid the possibility of producing dangerous hyperglycemia. Blood glucose should be closely monitored.

PHARMACOLOGICAL PROPERTIES

PHARMACOU/SMIC PROPERTIES:
Pharmacotherapeutic group: Blood glucose lowering drugs, excl. insulins: Sulfonylureas. ATC code: A10BB12.
Climepiride is an orally active hypoglycemic substance belonging to the sulfonylurea group. It may be used in non-insulin dependent diabetes mellitus. Climepiride acts mainly by stimulating insulin release from pancreatic betace cells. As with other sulfonylureas, this effect is based on an increase of responsiveness of the pancreatic beta cells to the physiological glucose stimulus. In addition, glimepiride seems to have pronounced extrapancreatic effects also postulated for other sulfonylureas. Mechanism of action: Glimepinide acts mainly by stimulating insulin release from pancreatic beta cells. As with other sulfonylureas, this effect is based on an increase of

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PHARMACOKINETICS:

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Absorption: The bioavailability of glimepiride after oral administration is complete. Food intake has no relevant influence on absorption, only the absorption rate is slightly diminished. Maximum serum concentrations (C_{max}) are reached approx. 2.5 hours after oral intake (mean 0.3µg/ml during multiple dosing of 4mg daily) and there is a linear relationship between dose and both C_{max} and AUC (area under the ime/concentration curve).

Distribution: Glimepiride has a very low distribution volume (approx. 8.8 liters) which is roughly equal to the albumin distribution space, high protein binding (> 99%), and a low clearance (approx. 48ml/min). In animals, glimepiride is excreted in milk. Glimepiride is transferred to the placenta. Sage of the blood-brain barrier is low.

Biotransformation and Elimination: The mean dominant serum half-life, which is of relevance for the serum concentrations under multiple-dose conditions, is about 5 to 8.

Biotransformation and Liminiation: The mean dominant serum half-like, which is of relevance for the serum concentrations under multiple-dose conditions, is about to to thours. After infly doses, slightly looper half-lives were noted. After a single dose of radio-labeled glimepride, 58% of the radioactivity was recovered in the unine, and 35 % in the faeces. No unchanged substance was detected in the urine. Two metabolites – most probably resulting from hepatic metabolitism (major enzyme is CYP2C9) – were identified both in urine and faeces: the hydroxy derivative and the carboxy derivative. After oral administration of glimepiride, the terminal half-lives of these metabolities were 3 to 6 and 5 to 6 hours respectively. Comparison of single and multiple once-daily dosing revealed no significant differences in pharmacokinetics, and the intraindividual variability was very low. There was no relevant accumulation.

PRECLINICAL SAFETY DATA:
Preclinical effects observed occurred at exposures sufficiently in excess of the maximum human exposure as to indicate little relevance to clinical use, or were due to the pharmacodynamic action (hypoglycemia) of the compound. This finding is based on conventional safety pharmacology, repeated dose toxicity, genotoxicity, carcinogenicity, and reproduction toxicity studies. In the latter (covering embryotoxicity, teratogenicity, and developmental toxicity), adverse effects observed were considered to be secondary to the hypoglycaemic effects induced by the compound in dams and in offspring.

PHARMACEUTICAL PARTICULARS

LIST OF EXCIPIENTS:

- Gpride® 2mg Tablets:

 Lactose monohydrate

 Tartrazine yellow lake color

- Microcrystalline cellulose
 Sodium starch glycolate
 Polyvinyl pyrrolidone
 Magnesium stearate
 Erythrosine lake color

- Francial in year on the count of the count o

INCOMPATIBILITIES:

Not applicable.

SHELF LIFE:

See expiry on the pack.

SPECIAL PRECAUTIONS FOR STORAGE:
Avoid exposure to heat, light and humidity. Store between 15 to 30°C. Improper storage may deteriorate the medicine.
Keep out of reach of children.

NATURE AND CONTENTS OF CONTAINER:

Gpride® 1mg Tablets: Alu/Alu Blister, pack size 30's Gpride® 2mg Tablets: Alu/Alu Blister, pack size 30's. Gpride® 4mg Tablets: Alu/Alu Blister, pack size 30's.

SPECIAL PRECAUTIONS FOR DISPOSAL OF A USED PRODUCT:
Any unused product or waste material should be disposed of in accordance with local requirements.

DRUG PRODUCT SPECIFICATIONS:

MARKETING AUTHORISATION HOLDER



Manufactured by:
SAMI Pharmaceuticals (Pvt.) Ltd.
Physical Reversion of the State o

MARKETING AUTHORISATION NUMBER(S)

Gpride® 1mg Tablets: 034051 Gpride® 2mg Tablets: 033008 Gpride® 4mg Tablets: 033009

DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Gpride® 1mg Tablets: 9th October, 2004 Gpride® 2mg Tablets: 10th July, 2004 Gpride® 4mg Tablets: 10th July, 2004 DATE OF REVISION OF THE TEXT

جی پر ائیگ ٹیبلٹ (گلی میپیرانیڈ) برایات: نوراک ڈاکٹر کی برایت کے مطابق استعال کریں بچوں کی پیچ سے دور رکھیں دواکودھوپ، گرمی اور نی سے تحفوظ ۱۵سے ۳۰ ڈگری سینٹی گریڈ کے درمیان میں رکھیں ورند دواخراب ہوجا نیگی