FOR THE USE ONLY OF A REGISTERED MEDICAL PRACTITIONER OR A HOSPITAL OR A LABORATORY

Biphasic Isophane Insulin Injection I.P. 100 IU/ml (r-DNA origin)

cartridge

3ml multi-dose

100 IU/mI

Monocomponent Insulin HUMAN

For SC use only

Wosulin® 50/50

Generic Name
Biphasic Isophane Insulin Injection IP 100 IU/mL (r-DNA origin), Monocomponent Insulin Human 2. Qualitative and quantitative composition

• For the initial stabilization of Type II diabetes patients with diabetic ketocacidosis, hypersonalor non-ketotic syndrome and in diabetes during pregnancy.

4.2 Posology and method of administration

Inspect WOSULIN-5050 swisally before use. It should not contain particulate matter and should appear uniformly cloudy after mixing. Do not use WOSULIN-5050 in particulate matter is seen. Do not mix WOSULIN-5050 with any other insulins or diluents.

WOSULIN-5050 should only be administered subcurrenously. Administer in the tother income in the subcurrenously and the subcurrenously. Administered in the contrainment of the subcurrenously and the subcurrenously. Administered in the tother in the tother income in the subcurrenously. Administered subcurrenously, Administered in the tother in the tother income in the subcurrenously. Administered in the subcurrenously are administered work. The subcurrenously are administered work of the subcurrenously and the subcurrenously are administered work. The subcurrenously are administered work of the subcurrenously are administered work. The subcurrenously are administered work of the subcurrenously are administered work. The subcurrenously are administered work of the subcurrenously are administered work. The subcurrenously are administered work of the subcurrenously are administered with subcurrenously administered work. The subcurrenously are administered work of the subcurrenously are administered with subcurrenously administered work. The subcurrenously are administered with decided with subcurrenously are administered with subcurrenously administered with subcurrenously are administered with subcurrenously are administered with subcurrenously administered with subcurrenously are administered with subcurrenously administered with subcurrenously are admin sage adjustments may be needed with changes in physical activity, changes in meal patterns (i.e., macronutrient content or timing of food intake), changes in ction or during acute illness.

function or during acute illness.
The proportion of rapid acting and long acting insulin is fixed in premixed insulin such as WOSULIN-50/50. Independent adjustment of the basal or prandial dose is not possible when using premixed insulin.
WOSULIN-50/50 should be given subcutaneously approximately 30.45 minutes before a meal.

INSTRUCTIONS FOR USE
a. Disinfect the rubber surface of the insulin Cartridge with alcohol. Insert the Cartridge in the Pen as shown in the mypen*2 instruction manual Before inserting the Cartridge, inspect the Cartridge of wosulm-so/so after removing from the sealed pack for any crystallization, clumping or discolourat present, discard and use a new Cartridge.

— Cartr

b. Before you insert the Cartridge into the mypen®2, roll it between your palms at least 10 times. (Ref Fig. 1).

Then hold the Cartridge at one end and move between position "A" to position "B" slowly so that the glass ball travels from one end of the Cartridge to the other end. (Ref Fig. 2).

This must be done at least 10 times until the liquid appears uniformly cloudy or milky. Discard the Cartridge if clumps are seen after mixing.

c.If the Cartridge is already inside the mypen®2, turn the Pen up and down gently at least 10 times until the liquid appears uniformly cloudy or milky. This has to be done before each injection. (Ref Fig. 3).

until the liquid appears uniformly cloudy of milky. I his has to be done before each injection. (Ref Fig. 3).

A fiter you attach the needle, dial 2 units on the doss selector to remove any air that may be inside the needle.

By the seast your hands and clean the skin with alcohol where the injection is to be made.

With one hand, lightly princh up the skin, insert the needle as advised by your doctor or educator. Push and hold the release button of the Pen. Count to 10 and pull out the needle. Do not massage the area as this may cause back leakage of insuling. Dispose off the needle in the recommended way.

For additional information, read the instruction manual of mypen®2 and also log on to www.wockhardtdiabetes.com

g. Dispose off the needle in the recommended way.
h. For additional information, read the instruction manual of mypen*2 and also log on to www.wockhardtdiabetes.com

4.3 Contraindications

WOSULIN-50/05 to contraindicated during episodes of hypoglycemia and in patients hypersensitive to WOSULIN-50/05 or any of its excipients.

4.4 Special warnings and precautions for use

Needles or syninges must never be reused or shared between patients. Sharing poses a risk for transmission of blood-borne pathogens.

Any change in insulin should be made cautiously and only under medical supervision. Changes in insulin strength, manufacturer, type (e.g., regular, NPH, analog, etc.), species, or method of administration may result in the need for a change in dosase.

Fluid retention and heart failure with concomitant use of PPAR-gamma agonists: Thiazolidinedions (TZDM), which are peroxisome proliferator-activated receptor (PPAR)-gamma insulin, including WOSULIN-50/05, and a PPAR-gamma agonist should be observed for signs and symptoms of heart failure. If heart failure develops, it should be managed according to current standards of care, and discontinuation or dose reduction of the PPAR-gamma agonist must be considered.

Hypoglycemia is the most common adverse reaction of all insulin therapies, including WOSULIN-50/50. Severe hypoglycemia may lead to unconsciousness and/or convulsions and may result in temporary or permanent impairment of brain function or death.

Adjustment of dosage of any insulin may be necessary if patients change their physical activity or their usual meal plan; inculin requirements may be altered during illness, and all interests and interests of the administered insulin formulations. Other factors such as changes in food intake (e.g., amount of food or timing of meals). Injection site, exercise, and concomitant medications and solve the administered insulin formulations. Other factors such as changes in food intake (e.g., amount of food or timing of meals). Injection site, exercise, and concomitant medi

4.5 Drugs interactions
A number of substances affect plucose metabolism and may require insulin dose adjustment and particularly close monitoring.
Drugs that may increase the blood-glucose-lowering effect of WOSULIN-50/50 and susceptibility to hypospycemic Oral antihypergycemic agents, salicylates, sulfa antibiotics, oral control and supplementation of the property of the propert

4.6 Use in special populations
Renal or Hepatic Impairment. Frequent qlucose monitoring and insulin dose reduction may be required in patients with renal or hepatic impairment.

Use in Pregnancy: Pregnancy Category B. All pregnancies have a background risk of birth defects, miscarriage, or other adverse outcome regardless of drug exposure background risk is increased in pregnancies complicated by hyperalyxenia and is decreased with good glucose control. It is important for patients to maintain good condibabets before conception and during pregnancy. Special attention should be paid to diet, exercise and insulin regimens. Insulin requirements may decrease during the trimester, usually increase during the second and third trimesters, and rapidly decline after delivery. Careful monitoring is essentian in these patients. Therefore, female path should be advised to tell their physicians if they intend to become, or if they become pregnant while taking WOSULIN-50/50 While there are no adequate and veell-contributions of the patients with diabetes during pregnancy pro-

Labor and Delivery: Careful glucose monitoring and management of patients with diabetes during labor and delivery are required.

Nursing Mothers: Endogenous insulin is present in human milk. Insulin orally ingested is degraded in the gastrointestinal tract. No adverse reactions have been associated with infant exposure to insulin through the consumption of human milk. Good glucose control supports lactation in patients with diabetes. Women with diabetes who are lactating may require adjustments in their insulin dose.

Pediatric Uses: The effect of age on the pharmacokinetics and pharmacodynamics of WOSULIN-50/S0 has not been established.

Geriatric Uses: The effect of age on the pharmacokinetics and pharmacodynamics of WOSULIN-50/S0 has not been studied. Patients with advanced age using any insulin, including WOSULIN-50/S0 may be at increased risk of hypoologism due to co-morbid diverse and polypharmacy.

4.7 Effects on ability to drive and use machine.

hypoglycemia cari include disorientation, seizures, unconsciousness, coma and death. Early warning symptoms of hypoglycemia may be different or less pronounced under certain conditions, such as long duration of diabetes, autonomic diabetic neuropathy, use of medications such as beta-adrenergic blockers, changing insulin preparations, or intensified control (3 or more insulin injections per day) of diabetes. Without recognition of early warning symptoms, the patient may not be able to take steps to avoid more serious hypoglycemia. Patients who experience hypoglycemia without early warning symptoms should monitor their blood glucose more frequently, especially prior to activities such as driving, Mild to moderate hypoglycemia may be treated by eating doods or taking drinks that comian usage. Patients should always carry a quick socially grid to activities such as a short canny, on-diet carbohydrate-containing dinkin or glucose tablest:

Hypoklaelmia: See section 4.4 Special warnings and precautions for use

Lopodystrophy. Administration of insulin subcutaneously can result in lipoattophy (depression in the skin) or lipohypertrophy (enlargement or thickening of tissue).

Allergy — Patients occasionally experience cythems, local edems, and prunitus at the site of injection. This condition usually is self-limiting, in some instances, this condition may be related to factors other than insulin, such as irritants in the skin cleansing agent or poor injection technique.

systemic Allergy — Less common, but potentially more serious, is generalized allergy to insulin, which may cause rash over the whole body, shortness of breath, wheezing, eduction in Stode pressue, fast puls, or sweating, Severe case of operendized allergy (anaphylasis) may be life threatening.

Weight Gain: Weight gain can occur with some insulin therapies and has been attributed to the anabolic effects of insulin and the decrease in glycosuria.

"empheral Edems: Insulin may cause sodium retention and edema, particularly if previously poor metabolic control is improved by intensified insulin therapy.

enicity: Development of antibodies that react with human insulin have been observed with all insulin, including WOSULIN-50/50.

icute insulin resistance develops rapidly and is usually a short term problem. It usually occurs due to an underlying infection, trauma, surgery and emotional stres o overcome the precipitating factor and to give high doses of regular insulin.

sulin resistance is generally seen in patients treated for years with conventional preparations of beef or pork insulins and it is more comme elopment of such a type of insulin resistance is an indication for switching patients to the newer preparations of insulin. After instituting ment gradually declines over weeks and month's and majority of patients stabilize at approximately 60 IJ of 4g.

insulin requirement gradually declines over weeks and months and majority of patients stabilize at approximately 60 ILV day.

4.9 Overdose

Excess insulin may cause hypoglycemia and hypotalemia, particularly after intravenous administration. Hypoglycemia may occur as a result of an excess of insulin relative to food
intake, energy expenditure, or both, Mild episodes of hypoglycemia usually can be treated with oral glucose. Adjustments in drug dosage, meal patients, or exercise may be
needed. More severe episodes with coma, seizure, or neurologic impairment may be treated with intramuscular/subcutaneous glucagon or concentrated intravenous glucose,
Sustained carbolydrate intake and observation may be necessary because bypoglycemia may recur after apparent clinical recovery posicialemia.

lipolysis, protein catabolism and amir 5.3 Pharmacokinetic properties WOSULIN-50/50 combines an interme may vary in different individuals or wil physical activity level, and other varia is maximal between approximately 2-muscle, and adipocytes, with the liver 6. Nonclinical properties 6. Nonclinical properties

1.1 Animal Toxicology
Acrinogenicity and impairment of fertility-Carcinogenicity and fertility studies were not performed in animals.
Multagenicity - Human insulin was not mutagenic in mammalian cells and tested negative in the Ames bacterial reverse mutation assay with and without activation.

or absent warning signs of hypoglycemia to use caution when driving or operating machinery. [see Special warnings and precautions for use(4.4)].

Hypoglycemia due to Medication Errors

Instruct patients that hypoglycemia may occur as a result of an excess of insulin relative to food intake, energy expenditure, or both. Instruct patients to always check the insulin label before each injection to avoid mix-ups between insulin products.

Hypersensitivity Reactions

Advise patients that hypersensitivity reactions can occur with Wosulin. Inform patients on the symptoms of hypersensitivity reactions and advice the patient to discontinue Wosulin and to seek medical attention if they occur (see Undesitable effects (4.3)].

Wosunn and us sees measurements.

We in Special Population

Pregnant females

Advise pregnant patients that insulin requirements usually fall during the first trimester and increase during second and third trimesters of pregnancy. Careful monitoring is required throughout pregnancy. During the perinatal period, careful monitoring of infants born to mothers with diabetes is warranted.

Nursing Mothers

Wursing Mothers

nuministration Instructions
Instruct the patient to never use Wosulin 50/50 cartridge if it is frozen. Advise the patients on proper and safe disposal of the needle [see Instructions for use].

Storage and Handling
Instruct the patient that Wosulin 50/50 cartridge which is not in use, should be stored in a refrigerator (2°C to 8°C) and should never be kept in the freezer complistruct the patient that when in use, Wosulin 50/50 cartridge may be carried at room temperature up to 30°C for up to 4 weeks.

10. Details of manufacturer

Manufactured in India by
WOCKHARDT LIMITED Biotech Park, H-14/2 MIDC, Waluj, Aurangabad 431136 Maharashtra State
11. Details of permission or licence number
Manufacturing Leonen No: AD/004
12. Date of revision

LI.No. n 226068

Front Back

> **ACTUAL SIZE 110 X 218 MM** (WOSULIN-50/50) Folding Size: 110 x 25



Pantone 445 U