## WOSULIN™- 30/70



COMPOSITION

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Each mil contains:
Insulin Human USP
100 IU
30% Regular Insulin Human neutral 8.70% isophane Insulin)
McCresol USP
0.16% w/v as preservative Phenol 0.065% w/v

USP as preservative
Water for Injection USP
DIABETES 0.5 Monocomponent Insulin (HUMAN)

30/70

For SC use only DIABLES
Insulin is a hormone produced by the pancreas, a large gland that lies near the stomach. This hormone is necessary for the body's correct use of food, especially sugar. Diabetes occurs when the pancreas does not make enough insulin to meet your

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interreducis of a Conference in the sent me sent in unvaded. It is a sterile solution and is for subcutaneous injection only. It should not be used intravenously or intramuscularly. MECHANISM OF ACTION

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Like all other insulins, the glucose lowering effect of WOSULIN-30/70 is due to the facilitated uptake of glucose in body tissues. This uptake occurs following the binding of insulin to its receptors present in the muscle and adipose tissue. The blood glucase downing effect of insulin also occurs due to the simultaneous inhibition of glucose output from the liver. PHARMACOKINETICS Insulin as has called use to the simultaneous inhibition of glucose output from the liver. PHARMACOKINETICS Insulin has a half-life of a few minutes in the blood stream. Consequently, the time course of action of any insulin may vary considerably in different individuals or at different times in the same individual. As with all insulin preparations, the intensity and duration of action of WOSULIN-33070 is dependent on the dose, site of injection, blood supply, temperature, and

- and duration of action of WUSULINGWAY to see the provision of the provision activity. An average action profile after subcutaneous injection indicates:

  Onset within 0.5 hours Peak levels attained between 2-12 hours Duration of action approximately 18-24 hours.

  INDICATIONS
  WOSULIN-30/70 is indicated for the following:

  Treatment of all patients with type 1 diabetes who are not adequately controlled by diet and / or oral hypoglycemic Treatment of patients with type 2 diabetes who are not adequately controlled by diet and / or oral hypoglycemic anents.
- agents.

  For the initial stabilization of diabetes in patients with diabetic ketoacidosis, hyperosmolar non-ketotic syndrome and during periods of stress such as severe infections and major surgery in diabetic patients.

  Treatment of gestational diabetes

  DOSAGE AND ADMINISTRATION

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The dosage of WOSULIN-3070 is determined by the physician, as per the needs of the patient. With WOSULIN-3070, it is important to use a syringe that its marked for the desired strength, for e.g. U-40 or U-100 insulin preparations. Failure to use the proper syringe can lead to a mistake in dosage, causing serious problems such as severe hypoglycemic or hyperglycemic. The average range of total daily insulin requirement for maintenance in type 1 diabetic patients ranges between 0.5 and 1.0 IU / kg. Further, in insulin resistance, the daily requirement of insulin may be substantially higher, in patients with type 2 diabetes, the requirements of insulin are lower is. approximately 0.3 5.6 IU / kg r/dw. WOSULIN-3070 is administered subcutaneously in the abdominal wall, the thing, gluteal region or the detiod region.

Toavoid igodystophy, the size of injection should be trequently changed, Any injection of insulin should be followed by a meal or snack containing carbohydrates within 30 minutes.

Adiustment of dosage may be necessary if you undertake increased physical activity or change your usual diet.

USE ALONG WITH OTHER INSULINS

WOSULIN-3070 intention can be used in combination with human insulin regular.

WOSULIN-30/70 injection can be used in combination with human insulin regular CONTRAINDICATIONS

WOSULIN-30/70 is contraindicated in the following conditions.

Hypoglycemia Hypersensitivity to insulin or any other component of the formulation

Hypogycenia with the component of the formulation PRECAUTIONS

PRECAUTIONS

Pregnancy: There are no restrictions on the use of insulin during pregnancy since insulin does not cross the placental barrier. Published studies with human insulins suggest that optimizing overall glycenic control, including postparradia control, before conception and during pregnancy improves fetal outcome. Although the fetal complications of maternal hyperglycemia have been well documented, fetal toxicity also has been reported with maternal hypoglycemia, Insulin requirements usually fall during the first timester and increase during the second and third trimisers. During the perindata period, careful monitoring of infants born to mothers with diabetes is warranted.

Nursing Mothers: There are no restrictions on the use of insulin in factating mothers as insulin treatment of nursing mothers does not involve any risk to the baby. However, caution should be exercised when administered to nursing mothers and the drease of insulin late in may be reduced.

disage of insulin may be reduced.

Effects on the ability to drive and use machines: The patient's ability to concentrate and react may be impaired as a result of hypoglycemia. This may constitute a risk in situations where these abilities are of special importance (e.g. Driving a car or operating machinery). You are therefore advised to avoid hypoglycemia during driving. This is particularly significant in patients who have reduced awareness of the warning signs of hypoglycemia or have frequent episodes of hypoglycemia.

SWITCHING TO DIFFERENT TYPE OF INSULN II (have the property of dosage of insulin may be reduced

change in dose.

Patients switching to WOSULIN-50/70 may require a change in dosage from that used with their usual insulin.

LABORATORYTESTS

As with all insulins, the therapeutic response to human insulin should be monitored by periodic blood glucose tests.

Periodic measurement of glycosylated hemoglobin is recommended for the monitoring of long term glycemic control.

DRUG INTERACTIONS

DRUGINTERACTIONS
Insulin requirements may be increased by medications with hyperglycenic activity such as corticosteroids, isoniazid, cardarii pipi-dowering drugs (e.g., niacin), estrogens, oral contraceptives, phenothiazines, and thyroid replacement therapy. Insulin requirements may be decreased in the presence of drugs with hypoglycemic activity, such as oral hypoglycemic activity, and activity. Beta addrened to be a defined produced to activity of the act

The most commonly seen adverse reaction with WOSULIN-30/70 are

ost commonly seen adverse reaction with WUSCUN-Sun of are.
Hypoglycemia: Hypoglycemia: grower most common adverse effect seen with the use of any type of insulin including human insulin.
anoccur because of the following:
Use of foo much insulin
Missed meal (delayed meal
Intercurrent infection or illness

- Strenuous exercise.

Strenuous exercise.
Diseases of the adrenal, pilitularly, or thyroid gland, or progression of kidney or liver disease may also lead to hypoglycemia. Concomiant administration with other drugs that lower blood glucose such as oral hypoglycemics, selicylates (for example, aspirin), sulfa artholitodies, and certain anotidepressants may lead to hypoglycemia.
Concomitant consumption of alcohric beverages may also lead to hypoglycemia or symptoms of mild to moderate hypoglycemia and yoccur suddenly and can include? Swealing, disciness, pipitalion, remort, hunger, realtesaness, fingling

## PATIENT'S INFORMATION AND RECORD

- Points you should know:
  Remember the brand name and type of insulin prescribed.
  Newer expose insulin in extreme temperatures
  Use only the right concentration of the insulin prescribed (40 I/O or 100 I/U) with the right syringe.
  Use only the right concentration of the insulin rest have a protective colour-coded cap which must be removed before use. If the plastic cap is loose or missing, return the visit to the pharmacy.
  WOSQLIM is the form, insulin deriver from Animals.

in the hands, feet, lips, or longue: lightheadedness; inability to concentrate; headache; drowsiness; sleep disturbances; anxiety, blurred vision; sturred speech; depressive mod; irribality; abnormal behavior, unsteady movement; personality changes. Signs of severe hypodycemia can include: Disorientation; unconsciousness; setzures; death. Therefore, it important that assistance be obtained immediately. Early warning symptoms of hypodycemia may be different or less pronounced under certain conditions, such as long duration of diabetes, diabetic nerve disease, coadministration of medications such as beta blockets, change in insulin preparations, or intensified control (3 or more insulin injections per day) of diabetes

day) of diabetes.

The use of preparations of WOSULIN-30/70 should minimize the incidence of adverse effects associated with the use of

Ondoma

Cedema and refraction anomalies may occur upon initiation of insulin therapy. These symptoms are usually of a transitory

3. Allergy to Insulin:
Systemic Alergy: Less common, but potentially more serious; is generalized allergy to insulin, which may cause rash over the whole body, shortness of breath, wheezing, reduction in blood pressure, fast pulse, or swealing. Sever cases of generalized allergy may be life threatening.

3.b: Local Allergy: Patients occasionally experience redness, swelling, and liching at the sile of injection of insulin. This condition called local allergy, usually clears up in a few days to a few weeks. In some instances, this condition may be related to factors other than insulin, such as initiants in the skin cleansing agent.

4. Lipoatrophy and lipodystrophy.
Lipodystrophy cours at the site of frinction after long usage. However, this is less common with the newer preparations of

insulin.
5. Insulin resistance

Simpulin resistance
When insulin requirement is increased (> 200 IU / day), insulin resistance is said to have developed. Thefollowing are the
different grades of insulin resistance.
Acute: Acute insulin resistance develops rapidly and is usually a short term problem. It usually occurs due to an underlying
infection, trauma, surgery and emotional stress. Treatment is to overcome the precipitating factor and to give high doses of
regular insulin.
Chronic: This type of insulin resistance is generally seen in patients treated for years with conventional preparations of
beef or pork insulins and it is more common in patients with Type 2 diabetes. Development of such a type of insulin
resistance is an indication for switching patients to the newer preparations of insulin. After instituting the newer
preparations, insulin requirement gradually declines over weeks and months and majority of patients stabilize at approximately 60 IU / day.

OVERDOSAGE

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. It is therefore recommended that the diabetic patient constantly carry some sugar lumps, sweets, biscuits, or sugary full juics. Adjustments in drug doseage, meal patients, or exercise, may be needed. More severe episodes of hypoglycemia with orans, seizure, or neurologic impairment may be treated with inframuscular / subcutaneous glucagon or concentrated intravenous glucose. Glucose must also be given intravenously file apitalned can or tesson do to glucagon within 10 to 15 minutes. Sustained carrboydrate intake and observation may be necessary because hypoglycemia may recur after apparent clinical recovery.

Infravenously, if the palient does not respund to a promote of the part of the

Manufactured by: WOCKHARDT LTD. Aurangabad, India TM Trademark of Wockhardt

## PROCEDURE FOR INSULIN ADMINISTRATION



Wash your hands carefully. Shake or roll Wosulin-30/70 insulin vial 10 times to completely mix



6. Turn the bottle and syringe upside down. Hold the bottle and syringe firmly in one hand and shake gently. Making sure that the tip of the needle is in the liquid, withdraw the correct dose of insulin into the syringe.



Inspect the vial. Wosulin-30/70 wosulin-30//0
should appear
uniformly cloudy or
milky. The Insulin
Injection should not
be used if there is anything unusual in appearance.





remove the stopper. The tip of the vial should be wiped with an alcohol ewah



7. Before removing the needle from the vial, check the insulin syringe for air bubbles, which reduces the amount of insulin in it. If bubbles are present, hold the insulin straight up and tap its side until the bubbles float to the top. Push them out with the plunger and withdraw the correct dose again.



Lightly pinch up the skin, holding the syringe like a pencil.



Draw air into the syringe equal to your sulin dose



Insert the needle into the skin and push the plunger slowly. Make sure that the needle is all the way in.



Insert needle into vial through rubber top and push plunger to empty the air into the



Wait for 5 seconds and pull out the syringe. Do not rub the area.

## Your Daily Insulin Intake Calendar

DATE	INSULIN DOSE	TIME	BRAND	DATE	INSULIN DOSE	TIME	BRAND
			1000				