HUMALOG 70/30 - insulin human injection, suspension Physicians Total Care, Inc.

INFORMATION FOR THE PATIENT 10 mL Vial (1000 Units per vial)

WARNINGS

THIS LILLY HUMAN INSULIN PRODUCT DIFFERS FROM ANIMAL—SOURCE INSULINS BECAUSE IT IS STRUCTURALLY IDENTICAL TO THE INSULIN PRODUCED BY YOUR BODY'S PANCREAS AND BECAUSE OF ITS UNIQUE MANUFACTURING PROCESS.

ANY CHANGE OF INSULIN SHOULD BE MADE CAUTIOUSLY AND ONLY UNDER MEDICAL SUPERVISION. CHANGES IN STRENGTH, MANUFACTURER, TYPE (E.G., REGULAR, NPH, ANALOG), SPECIES, OR METHOD OF MANUFACTURE MAY RESULT IN THE NEED FOR A CHANGE IN DOSAGE.

SOME PATIENTS TAKING HUMULIN® (HUMAN INSULIN, rDNA ORIGIN) MAY REQUIRE A CHANGE IN DOSAGE FROM THAT USED WITH OTHER INSULINS. IF AN ADJUSTMENT IS NEEDED, IT MAY OCCUR WITH THE FIRST DOSE OR DURING THE FIRST SEVERAL WEEKS OR MONTHS.

DIABETES

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 body's needs.

To control your diabetes, your doctor has prescribed injections of insulin products to keep your blood glucose at a near–normal level. You have been instructed to test your blood and/or your urine regularly for glucose. Studies have shown that some chronic complications of diabetes such as eye disease, kidney disease, and nerve disease can be significantly reduced if the blood sugar is maintained as close to normal as possible. The American Diabetes Association recommends that if your pre–meal glucose levels are consistently above 130 mg/dL or your hemoglobin A_{1c} (Hb A_{1c}) is more than 7%, you should talk to your doctor. A change in your diabetes therapy may be needed. If your blood tests consistently show below–normal glucose levels, you should also let your doctor know. Proper control of your diabetes requires close and constant cooperation with your doctor. Despite diabetes, you can lead an active and healthy life if you eat a balanced diet, exercise regularly, and take your insulin injections as prescribed by your doctor.

Always keep an extra supply of insulin as well as a spare syringe and needle on hand. Always wear diabetic identification so that appropriate treatment can be given if complications occur away from home.

70/30 HUMAN INSULIN

Description

Humulin is synthesized in a special non–disease–producing laboratory strain of *Escherichia coli* bacteria that has been genetically altered to produce human insulin. Humulin 70/30 is a mixture of 70% Human Insulin Isophane Suspension and 30% Human Insulin Injection (rDNA origin). It is an intermediate-acting insulin combined with the more rapid onset of action of Regular human insulin. The duration of activity may last up to 24 hours following injection. 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 duration of action of Humulin 70/30 is dependent on dose, site of injection, blood supply, temperature, and physical activity. Humulin 70/30 is a sterile suspension and is for subcutaneous

injection only. It should not be used intravenously or intramuscularly. The concentration of Humulin 70/30 is 100 units/mL (U-100).

Identification

Human insulin from Eli Lilly and Company has the trademark Humulin. Your doctor has prescribed the type of insulin that he/she believes is best for you.

DO NOT USE ANY OTHER INSULIN EXCEPT ON YOUR DOCTOR'S ADVICE AND DIRECTION.

Always check the carton and the bottle label for the name and letter designation of the insulin you receive from your pharmacy to make sure it is the same as prescribed by your doctor.

Always check the appearance of your bottle of Humulin 70/30 before withdrawing each dose. Before each injection the Humulin 70/30 bottle must be carefully shaken or rotated several times to completely mix the insulin. Humulin 70/30 suspension should look uniformly cloudy or milky after mixing. If not, repeat the above steps until contents are mixed.

Do not use Humulin 70/30:

- if the insulin substance (the white material) remains at the bottom of the bottle after mixing or
- if there are clumps in the insulin after mixing, or
- if solid white particles stick to the bottom or wall of the bottle, giving a frosted appearance.

If you see anything unusual in the appearance of Humulin 70/30 suspension in your bottle or notice your insulin requirements changing, talk to your doctor.

Storage

Not in-use (unopened): Humulin 70/30 bottles not in-use should be stored in a refrigerator, but not in the freezer.

In-use (opened): The Humulin 70/30 bottle you are currently using can be kept unrefrigerated as long as it is kept as cool as possible [below 86°F (30°C)] away from heat and light.

Do not use Humulin 70/30 after the expiration date stamped on the label or if it has been frozen.

INSTRUCTIONS FOR INSULIN VIAL USE

NEVER SHARE NEEDLES AND SYRINGES

Correct Syringe Type

Doses of insulin are measured in **units**. U–100 insulin contains 100 units/mL (1 mL=1 cc). With Humulin 70/30, it is important to use a syringe that is marked for U–100 insulin preparations. Failure to use the proper syringe can lead to a mistake in dosage, causing serious problems for you, such as a blood glucose level that is too low or too high.

Syringe Use

To help avoid contamination and possible infection, follow these instructions exactly.

Disposable syringes and needles should be used only once and then discarded by placing the used needle in a puncture-resistant disposable container. Properly dispose of the puncture-resistant container as directed by your Health Care Professional.

Preparing the Dose

- 1. Wash your hands.
- 2. Carefully shake or rotate the bottle of insulin several times to completely mix the insulin.
- 3. Inspect the insulin. Humulin 70/30 suspension should look uniformly cloudy or milky. Do not use Humulin 70/30 if you notice anything unusual in its appearance.
- 4. If using a new Humulin 70/30 bottle, flip off the plastic protective cap, but **do not** remove the stopper. Wipe the top of the bottle with an alcohol swab.

5. Draw an amount of air into the syringe that is equal to the Humulin 70/30 dose. Put the needle through rubber top of the Humulin 70/30 bottle and inject the air into the bottle.

6. Turn the Humulin 70/30 bottle and syringe upside down. Hold the bottle and syringe firmly in one hand and shake gently.

- 7. Making sure the tip of the needle is in the Humulin 70/30 suspension, withdraw the correct dose of Humulin 70/30 into the syringe.
- 8. Before removing the needle from the Humulin 70/30 bottle, check the syringe for air bubbles. If bubbles are present, hold the syringe straight up and tap its side until the bubbles float to the top. Push the bubbles out with the plunger and then withdraw the correct dose.
- 9. Remove the needle from the bottle and lay the syringe down so that the needle does not touch anything.

Injection Instructions

- 1. To avoid tissue damage, choose a site for each injection that is at least 1/2 inch from the previous injection site. The usual sites of injection are abdomen, thighs, and arms.
- 2. Cleanse the skin with alcohol where the injection is to be made.
- 3. With one hand, stabilize the skin by spreading it or pinching up a large area.
- 4. Insert the needle as instructed by your doctor.
- 5. Push the plunger in as far as it will go.
- 6. Pull the needle out and apply gentle pressure over the injection site for several seconds. **Do not rub the area.**
- 7. Place the used needle in a puncture-resistant disposable container and properly dispose of the puncture-resistant container as directed by your Health Care Professional.

DOSAGE

Your doctor has told you which insulin to use, how much, and when and how often to inject it. Because each patient's diabetes is different, this schedule has been individualized for you.

Your usual dose of Humulin 70/30 may be affected by changes in your diet, activity, or work schedule. Carefully follow your doctor's instructions to allow for these changes. Other things that may affect your Humulin 70/30 dose are:

Illness

Illness, especially with nausea and vomiting, may cause your insulin requirements to change. Even if you are not eating, you will still require insulin. You and your doctor should establish a sick day plan for you to use in case of illness. When you are sick, test your blood glucose frequently. If instructed by your doctor, test your ketones and report the results to your doctor.

Pregnancy

Good control of diabetes is especially important for you and your unborn baby. Pregnancy may make managing your diabetes more difficult. If you are planning to have a baby, are pregnant, or are nursing a baby, talk to your doctor.

Medication

Insulin requirements may be increased if you are taking other drugs with blood–glucose–raising activity, such as oral contraceptives, corticosteroids, or thyroid replacement therapy. Insulin requirements may be reduced in the presence of drugs that lower blood glucose or affect how your body responds to insulin, such as oral antidiabetic agents, salicylates (for example, aspirin), sulfa antibiotics, alcohol, certain antidepressants and some kidney and blood pressure medicines. Your Health Care Professional may be aware of other medications that may affect your diabetes control. Therefore, always discuss any medications you are taking with your doctor.

Exercise

Exercise may lower your body's need for insulin during and for some time after the physical activity. Exercise may also speed up the effect of an insulin dose, especially if the exercise involves the area of injection site (for example, the leg should not be used for injection just prior to running). Discuss with your doctor how you should adjust your insulin regimen to accommodate exercise.

Travel

When traveling across more than 2 time zones, you should talk to your doctor concerning adjustments in your insulin schedule.

COMMON PROBLEMS OF DIABETES

Hypoglycemia (Low Blood Sugar)

Hypoglycemia (too little glucose in the blood) is one of the most frequent adverse events experienced by insulin users. It can be brought about by:

- 1. Missing or delaying meals.
- 2. Taking too much insulin.
- 3. Exercising or working more than usual.
- 4. An infection or illness associated with diarrhea or vomiting.
- 5. A change in the body's need for insulin.
- 6. Diseases of the adrenal, pituitary, or thyroid gland, or progression of kidney or liver disease.
- 7. Interactions with certain drugs, such as oral antidiabetic agents, salicylates (for example, aspirin), sulfa antibiotics, certain antidepressants and some kidney and blood pressure medicines.
- 8. Consumption of alcoholic beverages.

Symptoms of mild to moderate hypoglycemia may occur suddenly and can include:

• sweating	• drowsiness
• dizziness	• sleep disturbances
• palpitation	• anxiety
• tremor	 blurred vision
• hunger	 slurred speech
• restlessness	• depressed mood
• tingling in the hands, feet, lips, or tongue	• irritability
• lightheadedness	• abnormal behavior
• inability to concentrate	 unsteady movement
• headache	 personality changes

Signs of severe hypoglycemia can include:

disorientation

seizures

Therefore, it is important that assistance be obtained immediately.

Early warning symptoms of hypoglycemia may be different or less pronounced under certain conditions, such as long duration of diabetes, diabetic nerve disease, use of medications such as beta–blockers, changing insulin preparations, or intensified control (3 or more insulin injections per day) of diabetes.

A few patients who have experienced hypoglycemic reactions after transfer from animal—source insulin to human insulin have reported that the early warning symptoms of hypoglycemia were less pronounced or different from those experienced with their previous insulin.

Without recognition of early warning symptoms, you may not be able to take steps to avoid more serious hypoglycemia. Be alert for all of the various types of symptoms that may indicate hypoglycemia. Patients who experience hypoglycemia without early warning symptoms should monitor their blood glucose frequently, especially prior to activities such as driving. If the blood glucose is below your normal fasting glucose, you should consider eating or drinking sugar—containing foods to treat your hypoglycemia.

Mild to moderate hypoglycemia may be treated by eating foods or drinks that contain sugar. Patients should always carry a quick source of sugar, such as hard candy or glucose tablets. More severe hypoglycemia may require the assistance of another person. Patients who are unable to take sugar orally or who are unconscious require an injection of glucagon or should be treated with intravenous administration of glucose at a medical facility.

You should learn to recognize your own symptoms of hypoglycemia. If you are uncertain about these symptoms, you should monitor your blood glucose frequently to help you learn to recognize the symptoms that you experience with hypoglycemia.

If you have frequent episodes of hypoglycemia or experience difficulty in recognizing the symptoms, you should talk to your doctor to discuss possible changes in therapy, meal plans, and/or exercise programs to help you avoid hypoglycemia.

Hyperglycemia (High Blood Sugar) and Diabetic Ketoacidosis (DKA)

Hyperglycemia (too much glucose in the blood) may develop if your body has too little insulin. Hyperglycemia can be brought about by any of the following:

- 1. Omitting your insulin or taking less than your doctor has prescribed.
- 2. Eating significantly more than your meal plan suggests.
- 3. Developing a fever, infection, or other significant stressful situation.

In patients with type 1 or insulin–dependent diabetes, prolonged hyperglycemia can result in DKA (a life-threatening emergency). The first symptoms of DKA usually come on gradually, over a period of hours or days, and include a drowsy feeling, flushed face, thirst, loss of appetite, and fruity odor on the breath. With DKA, blood and urine tests show large amounts of glucose and ketones. Heavy breathing and a rapid pulse are more severe symptoms. If uncorrected, prolonged hyperglycemia or DKA can lead to nausea, vomiting, stomach pain, dehydration, loss of consciousness, or death. Therefore, it is important that you obtain medical assistance immediately.

Lipodys trophy

Rarely, administration of insulin subcutaneously can result in lipoatrophy (seen as an apparent depression of the skin) or lipohypertrophy (seen as a raised area of the skin). If you notice either of these conditions, talk to your doctor. A change in your injection technique may help alleviate the problem.

Allergy

Local Allergy — Patients occasionally experience redness, swelling, and itching at the site of injection. 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 irritants in the skin cleansing agent or poor injection technique. If you have local reactions, talk to your doctor.

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, reduction in blood pressure, fast pulse, or sweating. Severe cases of generalized allergy may be life threatening. If you think you are having a generalized allergic reaction to insulin, call your doctor immediately.

ADDITIONAL INFORMATION

Information about diabetes may be obtained from your diabetes educator.

Additional information about diabetes and Humulin can be obtained by calling The Lilly Answers Center at 1-800-LillyRx (1-800-545-5979) or by visiting www.LillyDiabetes.com.

Patient Information revised August 22, 2007

Vials manufactured by

Eli Lilly and Company, Indianapolis, IN 46285, USA or

Lilly France, F-67640 Fegersheim, France

for Eli Lilly and Company, Indianapolis, IN 46285, USA

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PV 5722 AMP

Relabeling of "Additional Barcode Label" by:

Physicians Total Care, Inc. Tulsa, OK 74146

INFORMATION FOR THE PATIENT
3 ML PREFILLED INSULIN DELIVERY DEVICE
HUMULIN® 70/30 Pen
70% HUMAN INSULIN
ISOPHANE SUSPENSION
AND
30% HUMAN INSULIN INJECTION
(rDNA ORIGIN)
100 UNITS PER ML (U-100)

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REQUIRE A CHANGE IN DOSAGE FROM THAT USED WITH OTHER INSULINS. IF AN ADJUSTMENT IS NEEDED, IT MAY OCCUR WITH THE FIRST DOSE OR DURING THE FIRST SEVERAL WEEKS OR MONTHS.

TO OBTAIN AN ACCURATE DOSE, CAREFULLY READ AND FOLLOW THE INSULIN DELIVERY DEVICE USER MANUAL AND THIS "INFORMATION FOR THE PATIENT" INSERT BEFORE USING THIS PRODUCT.

THE PEN MUST BE PRIMED TO A STREAM OF INSULIN (NOT JUST A FEW DROPS) BEFORE EACH INJECTION TO MAKE SURE THE PEN IS READY TO DOSE. YOU MAY NEED TO PRIME A NEW PEN UP TO SIX TIMES BEFORE A STREAM OF INSULIN APPEARS.

PRIMING THE PEN IS IMPORTANT TO CONFIRM THAT INSULIN COMES OUT WHEN YOU PUSH THE INJECTION BUTTON AND TO REMOVE AIR THAT MAY COLLECT IN THE INSULIN CARTRIDGE DURING NORMAL USE. IF YOU DO NOT PRIME, YOU MAY RECEIVE TOO MUCH OR TOO LITTLE INSULIN (see also INSTRUCTIONS FOR INSULIN PEN USE section).

DIABETES

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 body's needs.

To control your diabetes, your doctor has prescribed injections of insulin products to keep your blood glucose at a near–normal level. You have been instructed to test your blood and/or your urine regularly for glucose. Studies have shown that some chronic complications of diabetes such as eye disease, kidney disease, and nerve disease can be significantly reduced if the blood sugar is maintained as close to normal as possible. The American Diabetes Association recommends that if your pre-meal glucose levels are consistently above 130 mg/dL or your hemoglobin A_{1c} (Hb A_{1c}) is more than 7%, you should talk to your doctor. A change in your diabetes therapy may be needed. If your blood tests consistently show below–normal glucose levels, you should also let your doctor know. Proper control of your diabetes requires close and constant cooperation with your doctor. Despite diabetes, you can lead an active and healthy life if you eat a balanced diet, exercise regularly, and take your insulin injections as prescribed by your doctor.

Always keep an extra supply of insulin as well as a spare syringe and needle on hand. Always wear diabetic identification so that appropriate treatment can be given if complications occur away from home.

70/30 HUMAN INSULIN

Description

Humulin is synthesized in a special non–disease–producing laboratory strain of *Escherichia coli* bacteria that has been genetically altered to produce human insulin. Humulin 70/30 is a mixture of 70% Human Insulin Isophane Suspension and 30% Human Insulin Injection, (rDNA origin). It is an intermediate-acting insulin combined with the more rapid onset of action of Regular human insulin. The duration of activity may last up to 24 hours following injection. 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 duration of action of Humulin 70/30 is dependent on dose, site of injection, blood supply, temperature, and physical activity. Humulin 70/30 is a sterile suspension and is for subcutaneous injection only. It should not be used intravenously or intramuscularly. The concentration of Humulin 70/30 is 100 units/mL (U–100).

Identification

Human insulin from Eli Lilly and Company has the trademark Humulin.

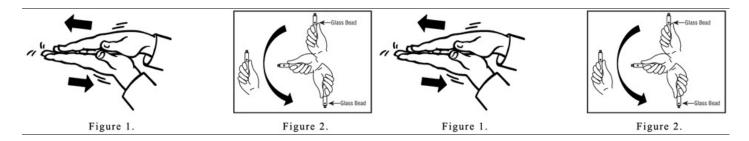
Your doctor has prescribed the type of insulin that he/she believes is best for you.

DO NOT USE ANY OTHER INSULIN EXCEPT ON YOUR DOCTOR'S ADVICE AND DIRECTION.

The Humulin 70/30 Pen is available in boxes of 5 prefilled insulin delivery devices ("insulin Pens"). The Humulin 70/30 Pen is not designed to allow any other insulin to be mixed in its cartridge, or for the cartridge to be removed.

Always check the carton and the Pen label for the name and letter designation of the insulin you receive from your pharmacy to make sure it is the same as prescribed by your doctor.

Always check the appearance of Humulin 70/30 suspension in your insulin Pen before using. A cartridge of Humulin 70/30 contains a small glass bead to assist in mixing. Roll the Pen back and forth between the palms 10 times (*see* Figure 1). Gently turn the Pen up and down 10 times until the insulin is evenly mixed (see Figure 2).



If not evenly mixed, repeat the above steps until contents are mixed. Pens containing Humulin 70/30 suspension should be examined frequently.

Do not use Humulin 70/30:

- if the insulin substance (the white material) remains visibly separated from the liquid after mixing or
- if there are clumps in the insulin after mixing, or
- if solid white particles stick to the walls of the cartridge, giving a frosted appearance.

If you see anything unusual in the appearance of the Humulin 70/30 suspension in your Pen or notice your insulin requirements changing, talk to your doctor.

Never attempt to remove the cartridge from the Humulin 70/30 Pen. Inspect the cartridge through the clear cartridge holder.

Storage

Not in-use (unopened): Humulin 70/30 Pens not in-use should be stored in a refrigerator, but not in the freezer.

In-use (opened): Humulin 70/30 Pens in-use should **NOT** be refrigerated but should be kept at room temperature [below 86°F (30°C)] away from direct heat and light. The Humulin 70/30 Pen you are currently using must be discarded **10 days** after the first use, even if it still contains Humulin 70/30.

Do not use Humulin 70/30 after the expiration date stamped on the label or if it has been frozen.

INSTRUCTIONS FOR INSULIN PEN USE

It is important to read, understand, and follow the instructions in the Insulin Delivery Device User Manual before using. Failure to follow instructions may result in getting too much or too little insulin. The needle must be changed and the Pen must be primed to a stream of insulin (not just a few drops) before each injection to make sure the Pen is ready to dose. You may need to prime a new Pen up to six times before a stream of insulin appears. Performing these steps before each injection is important to confirm that insulin comes out when you push the injection

button, and to remove air that may collect in the insulin cartridge during normal use.

Every time you inject:

- Use a new needle.
- Prime to a stream of insulin (not just a few drops) to make sure the Pen is ready to dose.
- Make sure you got your full dose.

NEVER SHARE INSULIN PENS, CARTRIDGES, OR NEEDLES.

PREPARING FOR INJECTION

- 1. Wash your hands.
- 2. To avoid tissue damage, choose a site for each injection that is at least 1/2 inch from the previous injection site. The usual sites of injection are abdomen, thighs, and arms.
- 3. Follow the instructions in your Insulin Delivery Device User Manual to prepare for injection.
- 4. After injecting the dose, pull the needle out and apply gentle pressure over the injection site for several seconds. **Do not rub the area.**
- 5. After the injection, remove the needle from the Humulin 70/30 Pen. **Do not reuse needles.**
- 6. Place the used needle in a puncture-resistant disposable container and properly dispose of the puncture-resistant container as directed by your Health Care Professional.

DOSAGE

Your doctor has told you which insulin to use, how much, and when and how often to inject it. Because each patient's diabetes is different, this schedule has been individualized for you.

Your usual dose of Humulin 70/30 may be affected by changes in your diet, activity, or work schedule. Carefully follow your doctor's instructions to allow for these changes. Other things that may affect your Humulin 70/30 dose are:

Illness

Illness, especially with nausea and vomiting, may cause your insulin requirements to change. Even if you are not eating, you will still require insulin. You and your doctor should establish a sick day plan for you to use in case of illness. When you are sick, test your blood glucose frequently. If instructed by your doctor, test your ketones and report the results to your doctor.

Pregnancy

Good control of diabetes is especially important for you and your unborn baby. Pregnancy may make managing your diabetes more difficult. If you are planning to have a baby, are pregnant, or are nursing a baby, talk to your doctor.

Medication

Insulin requirements may be increased if you are taking other drugs with blood–glucose–raising activity, such as oral contraceptives, corticosteroids, or thyroid replacement therapy. Insulin requirements may be reduced in the presence of drugs that lower blood glucose or affect how your body responds to insulin, such as oral antidiabetic agents, salicylates (for example, aspirin), sulfa antibiotics, alcohol, certain antidepressants and some kidney and blood pressure medicines. Your Health Care Professional may be aware of other medications that may affect your diabetes control. Therefore, always discuss any medications you are taking with your doctor.

Exercise

Exercise may lower your body's need for insulin during and for some time after the physical activity. Exercise may also speed up the effect of an insulin dose, especially if the exercise involves the area of injection site (for example, the leg should not be used for injection just prior to running). Discuss with your doctor how you should adjust your insulin regimen to accommodate exercise.

Travel

When traveling across more than 2 time zones, you should talk to your doctor concerning adjustments in your insulin schedule.

COMMON PROBLEMS OF DIABETES

Hypoglycemia (Low Blood Sugar)

Hypoglycemia (too little glucose in the blood) is one of the most frequent adverse events experienced by insulin users. It can be brought about by:

- 1. Missing or delaying meals.
- 2. Taking too much insulin.
- 3. Exercising or working more than usual.
- 4. An infection or illness associated with diarrhea or vomiting.
- 5. A change in the body's need for insulin.
- 6. Diseases of the adrenal, pituitary, or thyroid gland, or progression of kidney or liver disease.
- 7. Interactions with certain drugs, such as oral antidiabetic agents, salicylates (for example, aspirin), sulfa antibiotics, certain antidepressants and some kidney and blood pressure medicines.
- 8. Consumption of alcoholic beverages.

Symptoms of mild to moderate hypoglycemia may occur suddenly and can include:

• sweating	• drowsiness		
• dizziness	• sleep disturbances		
• palpitation	• anxiety		
• tremor	 blurred vision 		
• hunger	 slurred speech 		
• restlessness	• depressed mood		
• tingling in the hands, feet, lips, or tongue	• irritability		
• lightheadedness	• abnormal behavior		
• inability to concentrate	• unsteady movement		
• headache	• personality changes		
Signs of severe hypoglycemia can include:			
• disorientation	• seizures		
• unconsciousness	• death		

Therefore, it is important that assistance be obtained immediately.

Early warning symptoms of hypoglycemia may be different or less pronounced under certain conditions, such as long duration of diabetes, diabetic nerve disease, use of medications such as beta-blockers,

changing insulin preparations, or intensified control (3 or more insulin injections per day) of diabetes.

A few patients who have experienced hypoglycemic reactions after transfer from animal—source insulin to human insulin have reported that the early warning symptoms of hypoglycemia were less pronounced or different from those experienced with their previous insulin.

Without recognition of early warning symptoms, you may not be able to take steps to avoid more serious hypoglycemia. Be alert for all of the various types of symptoms that may indicate hypoglycemia. Patients who experience hypoglycemia without early warning symptoms should monitor their blood glucose frequently, especially prior to activities such as driving. If the blood glucose is below your normal fasting glucose, you should consider eating or drinking sugar—containing foods to treat your hypoglycemia.

Mild to moderate hypoglycemia may be treated by eating foods or drinks that contain sugar. Patients should always carry a quick source of sugar, such as hard candy or glucose tablets. More severe hypoglycemia may require the assistance of another person. Patients who are unable to take sugar orally or who are unconscious require an injection of glucagon or should be treated with intravenous administration of glucose at a medical facility.

You should learn to recognize your own symptoms of hypoglycemia. If you are uncertain about these symptoms, you should monitor your blood glucose frequently to help you learn to recognize the symptoms that you experience with hypoglycemia.

If you have frequent episodes of hypoglycemia or experience difficulty in recognizing the symptoms, you should talk to your doctor to discuss possible changes in therapy, meal plans, and/or exercise programs to help you avoid hypoglycemia.

Hyperglycemia (High Blood Sugar) and Diabetic Ketoacidosis (DKA)

Hyperglycemia (too much glucose in the blood) may develop if your body has too little insulin. Hyperglycemia can be brought about by any of the following:

- 1. Omitting your insulin or taking less than your doctor has prescribed.
- 2. Eating significantly more than your meal plan suggests.
- 3. Developing a fever, infection, or other significant stressful situation.

In patients with type 1 or insulin—dependent diabetes, prolonged hyperglycemia can result in DKA (a life-threatening emergency). The first symptoms of DKA usually come on gradually, over a period of hours or days, and include a drowsy feeling, flushed face, thirst, loss of appetite, and fruity odor on the breath. With DKA, blood and urine tests show large amounts of glucose and ketones. Heavy breathing and a rapid pulse are more severe symptoms. If uncorrected, prolonged hyperglycemia or DKA can lead to nausea, vomiting, stomach pain, dehydration, loss of consciousness, or death. Therefore, it is important that you obtain medical assistance immediately.

Lipodys trophy

Rarely, administration of insulin subcutaneously can result in lipoatrophy (seen as an apparent depression of the skin) or lipohypertrophy (seen as a raised area of the skin). If you notice either of these conditions, talk to your doctor. A change in your injection technique may help alleviate the problem.

Allergy

Local Allergy — Patients occasionally experience redness, swelling, and itching at the site of injection. 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 irritants in the skin cleansing agent or poor injection technique. If you have local reactions, talk to your doctor.

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, reduction in blood pressure, fast

pulse, or sweating. Severe cases of generalized allergy may be life threatening. If you think you are having a generalized allergic reaction to insulin, call your doctor immediately.

ADDITIONAL INFORMATION

Information about diabetes may be obtained from your diabetes educator.

Additional information about diabetes and Humulin can be obtained by calling The Lilly Answers Center at 1–800–LillyRx (1–800–545–5979) or by visiting www.LillyDiabetes.com.

Patient Information revised March 16, 2009

Pens manufactured by

Eli Lilly and Company, Indianapolis, IN 46285, USA or

Lilly France, F-67640 Fegersheim, France

for Eli Lilly and Company, Indianapolis, IN 46285, USA

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PA 9147 FSAMP

For subcutaneous use only.

PACKAGE LABELING

This section contains a representative sample of product package labeling. Product may be manufactured at multiple manufacturing sites. See the Additional Information section for a list of products and associated manufacturing sites.

PACKAGE CARTON – HUMULIN 70/30 Vial 10 mL 1ct

HI-710

10 mL

100 units per mL

Humulin® 70/30

70% human insulin

isophane suspension

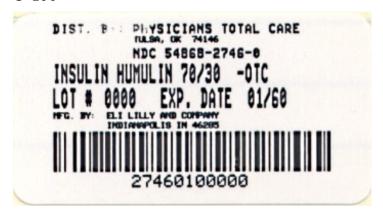
30% human insulin

injection

(rDNA origin)

For subcutaneous use only.

U-100



HUMALOG 70/30

insulin human injection, suspension

Product Information

Product Type HUMAN OTC DRUG Item Code (Source) NDC:54868-2746(NDC:0002-8715)

Route of Administration SUBCUTANEOUS

Active Ingredient/Active Moiety

Active ingredient/Active wrotety			
Ingredient Name	Basis of Strength	Strength	
INSULIN HUMAN (UNII: 1Y17CTI5SR) (INSULIN HUMAN - UNII:1Y17CTI5SR)	INSULIN HUMAN	100 [iU] in 1 mL	

Inactive Ingredients			
Ingredient Name	Strength		
GLYCERIN (UNII: PDC6A3C0OX)	16 mg in 1 mL		
SO DIUM PHO SPHATE, DIBASIC (UNII: GR686LBA74)	3.78 mg in 1 mL		
METACRESOL (UNII: GGO4Y809LO)	1.6 mg in 1 mL		
ZINC (UNII: J41CSQ7QDS)	$0.025 \ \text{mg} \ \text{in} \ 1 \ \text{mL}$		
PROTAMINE SULFATE (UNII: 0 DE9724IHC)	0.241 mg in 1 mL		
WATER (UNII: 059QF0KO0R)			
HYDRO CHLO RIC ACID (UNII: QTT17582CB)			
SO DIUM HYDRO XIDE (UNII: 55X04QC32I)			

F	Packaging			
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:54868-2746-0	1 in 1 CARTON		
1		10 mL in 1 VIAL		

Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA0 19717	12/28/1994	

Labeler - Physicians Total Care, Inc. (194123980)

Establishment				
Name	Address	ID/FEI	Business Operations	
Physicians Total Care, Inc.		194123980	relabel	

Revised: 11/2010 Physicians Total Care, Inc.