HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use NOVOLOG® MIX 70/30 safely and effectively. See full prescribing information for NOVOLOG® MIX 70/30.

NOVOLOG® MIX 70/30 (insulin aspart protamine and insulin aspart) injectable suspension, for subcutaneous use

Initial U.S. Approval: 2001

—INDICATIONS AND USAGE—-

NOVOLOG® MIX 70/30 is a mixture of insulin aspart protamine, an intermediate-acting human insulin analog, and insulin aspart, a rapid-acting human insulin analog, indicated to improve glycemic control in adult patients with diabetes mellitus.

Limitations of Use:
- Not recommended for the treatment of diabetic ketoacidosis.
- The proportions of rapid-acting and long-acting insulins are fixed and do not allow for basal versus prandial dose adjustments (1).

—DOSE AND ADMINISTRATION—-

- Inspect visually before use. Appearance should be uniformly white and cloudy. Do not use if it looks clear or if it contains solid particles (2.1).
- NOVOLOG® MIX 70/30 must be suspended immediately before use. Resuspension is easier when the insulin has reached room temperature (2.1).
- Inject NOVOLOG® MIX 70/30 subcutaneously in the abdominal region, buttocks, thigh, or upper arm (2.1).
- Administer the dose within 15 minutes before meal initiation. For patients with type 2 diabetes, the dose may also be given after meal initiation (2.1).
- Rotate injection sites within the same region from one injection to the next to reduce risk of lipodystrophy and localized cutaneous amyloidosis (2.1).
- Do not administer intravenously or use in insulin infusion pumps (2.1).
- NOVOLOG® MIX 70/30 is typically dosed twice-daily (with each dose intended to cover 2 meals or a meal and a snack) (2.2).
- Individualize dosage based on metabolic needs, blood glucose monitoring results, glycemic control goal (2.2).
- Dosage adjustments may be needed with changes in physical activity, changes in meal patterns (i.e., macronutrient content or timing of food intake), changes in renal or hepatic function or during acute illness (2.2).
- When switching from another insulin to NOVOLOG® MIX 70/30, a different dosage of NOVOLOG® MIX 70/30 may be needed (2.2).

—DOSE FORMS AND STRENGTHS—-

Injectable suspension: 100 units/mL (U-100) of NOVOLOG® MIX 70/30, 70% insulin aspart protamine and 30% insulin aspart available as:
- 10 mL multiple-dose vial (3)
- 3 mL single-patient-use FlexPen® prefilled pen (3)

—CONTRAINDICATIONS—-

- Do not use during episodes of hypoglycemia (4).
- Do not use in patients with hypersensitivity to NOVOLOG® MIX 70/30 or one of its excipients (4).

—WARNINGS AND PRECAUTIONS—-

- Never share a NOVOLOG® MIX 70/30 FlexPen® between patients, even if the needle is changed (5.1).
- Hypoglycemia or hypoglycemia with changes in insulin regimen: Make changes to a patient’s insulin regimen (e.g., insulin strength, manufacturer, type, injection site or method of administration) under close medical supervision with increased frequency of blood glucose monitoring (5.2).
- Hypoglycemia: May be life-threatening. Increase frequency of glucose monitoring with changes to: insulin dosage, concomitantly administered glucose lowering medications, meal pattern, physical activity; and in patients with renal or hepatic impairments and hypoglycemia unawareness (5.3).
- Medication Errors: Accidental mix-ups between insulin products can occur. Instruct patients to check insulin labels before injection (5.4).
- Hypersensitivity reactions: Severe, life-threatening, generalized allergy, including anaphylaxis, may occur. Discontinue NOVOLOG® MIX 70/30, treat, and monitor, if indicated (5.5).
- Hypokalemia: May be life-threatening. Monitor potassium levels in patients at risk of hypokalemia and treat if indicated (5.6).
- Fluid retention and heart failure with concomitant use of thiazolidinediones (TZDs): Observe for signs and symptoms of heart failure; consider dosage reduction or discontinuation if heart failure occurs (5.7).

—ADVERSE REACTIONS—-

Adverse reactions observed with insulin therapy include hypoglycemia, allergic reactions, local injection site reactions, lipodystrophy, rash and pruritus (6).

To report SUSPECTED ADVERSE REACTIONS, contact Novo Nordisk Inc. at 1-800-727-6500 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

—DRUG INTERACTIONS—-

Drugs that may increase the risk of hypoglycemia: anti diabetic agents, ACE inhibitors, angiotensin II receptor blocking agents, diisopyramide, fibrates, fluoxetine, monoamine oxidase inhibitors, pentoxifylline, pramlintide, salicylates, somatostatin analog (e.g., octreotide), and sulfonamide antibiotics (7).

Drugs that may decrease the blood glucose lowering effect: atypical antipsychotics, corticosteroids, danazol, diuretics, estrogens, glucon, isoniazid, niacin, oral contraceptives, phosphonatizides, progestogents (e.g., in oral contraceptives), protease inhibitors, somatropin, sympathomimetic agents (e.g., albuterol, epinephrine, terbutaline), and thyroid hormones (7).

Drugs that may increase or decrease the blood glucose lowering effect: alcohol, beta-blockers, clonidine, lithium salts, and pentamidine (7).

Drugs that may blunt the signs and symptoms of hypoglycemia: beta-blockers, clonidine, guanethidine, and reserpine (7).

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling. Revised: 02/2023
MIX 70/30 with any other insulins.

**MIX 70/30 in the**

MIX NovoLog ® Mix 70/30 (insulin aspart protamine and insulin aspart) injectable suspension

MIX 70/30 intravenously or

MIX 70/30 with a mean exposure

MIX 70/30 is contraindicated:

3. MIX 70/30 vials must never share needles

upside down so that the glass ball moves from

MIX 70/30 with a mean exposure

4. The mean body mass index (BMI) was 28.1 kg/m². The mean duration of diabetes was 15 years.

5. Common adverse reactions were defined as events that occurred in ≥5%, excluding hypoglycemia, of the population studied. Common adverse reactions that occurred for NOVOLOG® MIX 70/30-treated patients with type 1 diabetes mellitus and type 2 diabetes mellitus are listed in Table 1 and Table 2, respectively. The trial was a three-month, open-label trial in patients with type 1 or type 2 diabetes who were treated twice daily (before breakfast and before supper) with NOVOLOG® MIX 70/30.

Table 1: Adverse Reactions that Occurred in ≥5% of Type 1 Diabetes Mellitus Adult Patients Treated with NOVOLOG® MIX 70/30

<table>
<thead>
<tr>
<th>Preferred Term</th>
<th>N</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hypoglycemia</td>
<td>38</td>
<td>69</td>
</tr>
<tr>
<td>Headache</td>
<td>19</td>
<td>35</td>
</tr>
<tr>
<td>Influenza-like symptoms</td>
<td>7</td>
<td>13</td>
</tr>
<tr>
<td>Dyspepsia</td>
<td>5</td>
<td>9</td>
</tr>
<tr>
<td>Back pain</td>
<td>4</td>
<td>7</td>
</tr>
<tr>
<td>Diarrhea</td>
<td>4</td>
<td>7</td>
</tr>
<tr>
<td>Pharyngitis</td>
<td>4</td>
<td>7</td>
</tr>
<tr>
<td>Rhinitis</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>Skeletal pain</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>Upper respiratory tract infection</td>
<td>3</td>
<td>5</td>
</tr>
</tbody>
</table>
Table 2: Adverse Reactions that Occurred in ≥5% of Type 2 Diabetes Mellitus Adult Patients Treated with NOVOLOG® Mix 70/30

<table>
<thead>
<tr>
<th>Preferred Term</th>
<th>N</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hypoglycemia</td>
<td>40</td>
<td>47</td>
</tr>
<tr>
<td>Upper respiratory tract infection</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>Headache</td>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>Diarhea</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>Neutropathy</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>Pharyngitis</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>Abdominal pain</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Rhinitis</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

Severe Hypoglycemia

Hypoglycemia is the most commonly observed adverse reaction in patients using insulin, including NOVOLOG® Mix 70/30. The rates of reported hypoglycemia depend on the definition of hypoglycemia used, diabetes type, insulin dose, intensity of glucose control, background therapies, and other intrinsic and extrinsic patient factors. For these reasons, comparing rates of hypoglycemia in clinical trials for NOVOLOG® Mix 70/30 with the incidence of hypoglycemia for other products may be misleading and also, may not be representative of hypoglycemia rates that will occur in clinical practice.

Severe hypoglycemia requires the assistance of another person and/or parenteral glucose infusion or glucagon administration has been observed in clinical trials with insulin, including trials with NOVOLOG® Mix 70/30.

The incidence of severe hypoglycemia in adult patients receiving subcutaneous NOVOLOG® Mix 70/30 was 16% and 4% for type 1 and type 2 diabetes patients respectively at 12 weeks [see Clinical Studies (14)].

Allergic Reactions

Patients have experienced reactions such as urtihema, edema or pruritis at the site of NOVOLOG® Mix 70/30 injection. These reactions usually resolve in a few days to a few weeks, but in some occasions, have required discontinuation of NOVOLOG® Mix 70/30.

Severe cases of generalized anaphylaxis (anaphylaxis) have been reported.

Adverse Reactions Associated with Insulin Initiation and Glucose Control Intensification

Intensiﬁcation or rapid improvement in glucose control has been associated with transitory, reversible ophthalmologic retraction disorder, worsening of diabetic retinopathy, and acute painful peripheral neuropathy. However, long-term glycemic control decreases the risk of diabetic retinopathy and neuropathy.

Lipodystrophy

Long-term use of insulin, including NOVOLOG® Mix 70/30, can cause lipodystrophy at the site of repeated insulin injections. Lipodystrophy includes lipo hypertrophy (thickening of adipose tissue) and lipoatrophy (thinning of adipose tissue), and may affect insulin absorption [see Dosage and Administration (2.1)].

Weight Gain

Weight gain can occur with insulins, including NOVOLOG® Mix 70/30, and has been attributed to the anabolic effects of insulin and the decrease in glycosuria.

Peripheral Edema

Insulins, including NOVOLOG® Mix 70/30, may cause sodium retention and edema, particularly if previously poor metabolic control is improved by intensified insulin therapy.

6.2 Immunogenicity

As with all therapeutic proteins, there is potential for immunogenicity. The detection of antibody formation is highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of antibody (including neutralizing antibody) positivity in an assay may be influenced by several factors including assay methodology, sample handling, timing of sample collection, concomitant medications, and underlying disease. For these reasons, comparison of the incidence of antibodies to NOVOLOG® Mix 70/30 in the studies described below with the incidence of antibodies in other studies or to other products may be misleading.

In a 3-month study with an extension in adult patients with type 2 diabetes, 100% of patients who received NOVOLOG® Mix 70/30 were positive for anti-insulin antibodies (AIA) at least once during the first 12 months of the study including 91.4% that were positive at baseline. A total of 91.4% of patients who received NOVOLOG® Mix 70/30 were positive for anti-drug antibodies (ADA) at least once during the first 12 months of the study, including 62.1% that were positive at baseline.

In type 2 diabetes, the clinical trial of NOVOLOG® Mix 70/30, initial increase in titers of antibodies to insulin followed by a decrease approaching to baseline values was observed in NOVOLOG® Mix 70/30 and Novolog® 70/30 treatment groups with similar incidences. These antibodies did not cause deterioration in glycemic control or concomitantly increases in insulin dose.

6.3 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of NOVOLOG® Mix 70/30. Because these adverse reactions are reported voluntarily from a population of uncertain size, it is not possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Medication errors in which other insulins have been accidentally substituted for NOVOLOG® Mix 70/30 have been reported.

Localized cutaneous amyloidosis at the injection site has occurred with insulin aspart. Hyperglycemia has been reported in patients with insulin aspart. Hypoglycemia has been reported with a sudden change to an unaffected injection site.

7 DRUG INTERACTIONS

The table below presents clinically signiﬁcant drug interactions with NOVOLOG® Mix 70/30.

Table 3: Clinically Significant Drug Interactions with NOVOLOG® Mix 70/30

Drugs that May Increase the Risk of Hypoglycemia

<table>
<thead>
<tr>
<th>Drugs</th>
<th>Effect of NOVOLOG® Mix 70/30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral antidiabetic agents, ACE inhibitors, angiotensin II receptor blocking agents, diisopropylamides, fibates, furosemide, known oxime oxidase inhibitors, pentoxifylline, pramlintide, salicylates, somatostatin analog (e.g., octreotide), and sulfonamide antibiotics</td>
<td>Dose adjustment and increased frequency of glucose monitoring may be required when NOVOLOG® Mix 70/30 is concomitantly administered with these drugs.</td>
</tr>
</tbody>
</table>

Drugs that May Decrease the Blood Glucose Lowering Effect of NOVOLOG® Mix 70/30

<table>
<thead>
<tr>
<th>Drugs</th>
<th>Effect of NOVOLOG® Mix 70/30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antipyschotics (e.g., olanzapine and clozapine), corticosteroids, doxorubicin, estradiol, goserelin, gonadotropin, insulin, isonicotinic, ibutalide, diuretics</td>
<td>Dose adjustment and increased frequency of glucose monitoring may be required when NOVOLOG® Mix 70/30 is concomitantly administered with these drugs.</td>
</tr>
</tbody>
</table>

Drugs that May Increase or Decrease the Blood Glucose Lowering Effect of NOVOLOG® Mix 70/30

<table>
<thead>
<tr>
<th>Drugs</th>
<th>Effect of NOVOLOG® Mix 70/30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohol, beta-blockers, chlorindine, and lithium salts</td>
<td>Dose adjustment and increased frequency of glucose monitoring may be required when NOVOLOG® Mix 70/30 is concomitantly administered with these drugs.</td>
</tr>
</tbody>
</table>

Drugs that May Blunt Signs and Symptoms of Hypoglycemia

<table>
<thead>
<tr>
<th>Drugs</th>
<th>Effect of NOVOLOG® Mix 70/30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beta-blockers, chlorindine, guanethidine, and reserpine</td>
<td>Increased frequency of glucose monitoring may be required when NOVOLOG® Mix 70/30 is concomitantly administered with these drugs.</td>
</tr>
</tbody>
</table>

7 USE IN SPECIFIC POPULATIONS

7.1 Pregnancy

Risk Summary

There are no available data with NOVOLOG® Mix 70/30 in pregnant women to inform a drug-associated risk for major birth defects or adverse maternal or fetal outcomes. However, these studies cannot directly establish the absence of any risk because of methodological limitations, including a variable duration of treatment and small size of the majority of the trials.

Animal Data

Fertility, embryo-fetal and pre- and postnatal development studies have been performed with insulin aspart and regular human insulin. In rodents, no evidence of impairment of fertility and embryofetal development study in rats, insulin aspart was administered before mating, during mating, and throughout pregnancy. Further, in a pre- and postnatal development study insulin aspart was given throughout pregnancy and during lactation to rats. In an embryo-fetal development study insulin aspart was given to female rabbits during organogenesis. The effects of insulin aspart did not differ from those observed with subcutaneous regular human insulin. Insulin aspart, like human insulin, caused pre- and post-implantation losses and vaginal/skeletal abnormalities in rats at a dose of 200 units/kg/day (approximately 32 times the human subcutaneous dose of 1 unit/kg/day, based on human exposure equivalents) and in rabbits at a dose of 10 units/kg/day (approximately three times the human subcutaneous dose of 1 unit/kg/day, based on human exposure equivalents). No significant effects were observed in rats at a dose of 50 units/kg/day and in rabbits at a dose of 3 units/kg/day. These doses are approximately 8 times the human subcutaneous dose of 1 unit/kg/day for rats and equal to the human subcutaneous dose of 1 unit/kg/day for rabbits, based on human exposure equivalents. The effects are considered secondary to maternal hypoglycemia.

8.2 Lactation

Risk Summary

There are no data on the presence of NOVOLOG® Mix 70/30 in human milk, the effects on the breastfed infant, or the effect on milk production. One small published study reported that exogenous insulin, including insulin aspart, was present in human milk. However, there is insufficient information to determine the effects of insulin aspart on the breastfed infant. The developmental and health benefits of breastfeeding should be considered along with the mother’s clinical need for NOVOLOG® Mix 70/30, and any potential adverse effects on the breastfed infant. The use of NOVOLOG® Mix 70/30, or from the underlying maternal condition.

8.4 Pediatric Use

Safety and effectiveness of NOVOLOG® Mix 70/30 have not been established in pediatric patients with diabetes mellitus.

8.5 Geriatric Use

Clinical studies of NOVOLOG® Mix 70/30 did not include sufficient numbers of patients aged 65 or over to determine whether they respond differently than younger adult patients. In geriatric patients with diabetes, the initial dosing, dose increments should be conservative to avoid hypoglycemic reactions. Hypoglycemia may be difficult to recognize in geriatric patients.
8.6 Renal Impairment

The effect of renal impairment on the pharmacokinetics of NOVOLÔG® MIX 70/30 has not been studied. Some studies with human insulin have shown increased circulating levels of insulin in patients with renal failure. Patients with renal impairment may be at increased risk of hypoglycemia and may require more frequent NOVOLÔG® MIX 70/30 dose adjustment and more frequent blood glucose monitoring [see Warnings and Precautions (5.3)].

8.7 Hepatic Impairment

The effect of hepatic impairment on the pharmacokinetics of NOVOLÔG® MIX 70/30 has not been studied. Patients with hepatic impairment may be at increased risk of hypoglycemia and may require more frequent NOVOLÔG® MIX 70/30 dose adjustment and more frequent blood glucose monitoring [see Warnings and Precautions (5.3)].

10 OVERDOSAGE

Excess insulin administration may cause hypoglycemia and hypokalemia [see Warnings and Precautions (5.3, 5.6)]. Mild episodes of hypoglycemia usually can be treated with oral glucose. Adjustments in drug dosage, meal patterns, 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 carbohydrate intake and observation may be necessary because hypoglycemia may recur after apparent clinical recovery. Hypokalemia must be corrected appropriately.

11 DESCRIPTION

Insulin aspart protamine and insulin aspart is a human insulin analog containing 70% insulin aspart protamine crystals and 30% soluble insulin aspart. Insulin aspart is homologous with regular human insulin with the exception of a single substitution of the amino acid proline by aspartic acid in position B28, and is produced by recombinant DNA technology utilizing Saccharomyces cerevisiae (baker’s yeast). Insulin aspart has the empirical formula C_{203}H_{343}N_{38}O_{105}S and a molecular weight of 5825.8 Da.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

The primary activity of insulin, including NOVOLÔG® MIX 70/30 is the regulation of glucose metabolism. Insulin and its analog lower blood glucose by stimulating peripheral glucose uptake, especially by skeletal muscle and fat, and by inhibiting hepatic glucose production. Insulin inhibits lipolysis and proteolysis, and enhances protein synthesis.

12.2 Pharmacodynamics

A euglycemic clamp study described below assessed glucose utilization after subcutaneous dosing of NOVOLÔG® MIX 70/30 in healthy subjects (n = 24). Following a 0.3 units/kg single subcutaneous dose of NOVOLÔG® MIX 70/30, the onset of action is between 10-20 minutes and the mean ± SD time to peak activity is 2.7 hr ± 0.9 hr. The duration of action may be as long as 24 hours (see Figure 2).

12.3 Pharmacokinetics

The single substitution of the amino acid proline with aspartic acid at position B28 in insulin aspart (NOVOLÔG®) reduces the molecule’s tendency to form hexamers as observed with regular human insulin. The rapid absorption characteristics of NOVOLÔG® are maintained by NOVOLÔG® MIX 70/30.

Absorption and Bioavailability

The 30% insulin aspart in the soluble component of NOVOLÔG® MIX 70/30 is absorbed rapidly from the subcutaneous layer. The remaining 70% is in crystalline form as insulin aspart protamine which has a prolonged absorption profile after subcutaneous injection. The relative bioavailability of NOVOLÔG® MIX 70/30 compared to NOVOLÔG® indicates that the insulins are absorbed to similar extent. In a euglycemic clamp study in healthy subjects (n = 24) after dosing with NOVOLÔG® MIX 70/30 (0.3 units/kg), a mean maximum serum concentration (C_{max}) of 61.3 ± 20.1 milliunits/L was reached after 85 minutes. Serum insulin levels returned to baseline 16 to 20 hours after a subcutaneous dose of NOVOLÔG® MIX 70/30 (see Fig. 3 for pharmacokinetic profile).

14 CLINICAL STUDIES

14.1 Clinical Studies in Adult Patients with Type 1 and Type 2 Diabetes

In a three-month, open-label trial, adult patients with type 1 (n=104) or type 2 (n=187) diabetes mellitus were treated twice daily (before breakfast and before supper) with NOVOLÔG® MIX 70/30 or Novolin® 70/30. Patients had received insulin for at least 24 months before the study. Oral hypoglycemic agents were not allowed within 1 month prior to the study or during the study. The small changes in HbA1c were comparable across the treatment groups (see Table 4).

For patients with type 1 diabetes mellitus (TIDM) the mean age was 43 years old, 64% were male, 100% were White, the mean body mass index (BMI) was 26.1 kg/m², and mean duration of diabetes mellitus was 15 years. For patients with type 2 diabetes mellitus (T2DM), the mean age was 63 years old, 54% were male, 100% were White, the BMI 28.1 kg/m², and the mean duration of diabetes mellitus was 15 years.

Table 4: Glycemic Parameters at the End of Treatment (Mean ± SD (n subjects))

<table>
<thead>
<tr>
<th>Type 1, n=104</th>
<th>NOVOLÔG® MIX 70/30</th>
<th>Novolin® 70/30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fasting Blood Glucose (mg/dL)</td>
<td>174 ± 64 (48)</td>
<td>142 ± 59 (44)</td>
</tr>
<tr>
<td>1.5 Hour Post Breakfast (mg/dL)</td>
<td>181 ± 62 (48)</td>
<td>202 ± 82 (42)</td>
</tr>
<tr>
<td>1.5 Hour Post Dinner (mg/dL)</td>
<td>162 ± 77 (47)</td>
<td>171 ± 66 (41)</td>
</tr>
<tr>
<td>HbA1c (%) Baseline</td>
<td>8.4 ± 1.2 (51)</td>
<td>8.5 ± 1.1 (46)</td>
</tr>
<tr>
<td>HbA1c (%) Week 12</td>
<td>8.4 ± 1.1 (51)</td>
<td>8.3 ± 1.0 (47)</td>
</tr>
<tr>
<td>Type 2, n=187</td>
<td>NOVOLÔG® MIX 70/30</td>
<td>Novolin® 70/30</td>
</tr>
<tr>
<td>Fasting Blood Glucose (mg/dL)</td>
<td>153 ± 40 (76)</td>
<td>152 ± 69 (93)</td>
</tr>
<tr>
<td>1.5 Hour Post Breakfast (mg/dL)</td>
<td>182 ± 65 (75)</td>
<td>200 ± 80 (82)</td>
</tr>
<tr>
<td>1.5 Hour Post Dinner (mg/dL)</td>
<td>168 ± 51 (75)</td>
<td>191 ± 65 (93)</td>
</tr>
<tr>
<td>HbA1c (%) Baseline</td>
<td>8.1 ± 1.2 (82)</td>
<td>8.2 ± 1.3 (98)</td>
</tr>
<tr>
<td>HbA1c (%) Week 12</td>
<td>7.9 ± 1.0 (81)</td>
<td>8.1 ± 1.1 (96)</td>
</tr>
</tbody>
</table>

The significance, with respect to the long-term clinical sequelae of diabetes, of the differences in postprandial hyperglycemia between treatment groups has not been established.

14.2 Clinical Studies in Adult Patients with Type 2 Diabetes with Insulin and Oral Antidiabetic Agents

Trial 1:

In a 34-week, open-label trial (Trial 1), insulin-naïve patients with type 2 diabetes mellitus currently treated with 2 oral antidiabetic agents were switched to treatment with metformin and pioglitazone. The mean age of the trial population was 53 years and mean duration of diabetes was 9.2 years. Forty-six percent were male. Eighty-five percent were White, 12% were Black and 3% were Asian. The mean BMI was approximately 32.4 kg/m², and 48-89% of the patients was enrolled on the metformin plus sulfonylurea regimen. NOVOLÔG® MIX 70/30 was started at a dose of 6 international units twice daily (before breakfast and before supper).

Inclusion doses were titrated to a pre-meal glucose goal of 80-110 mg/dL. The total daily insulin dose at the end of the study was 56.9 ± 30.5 international units.

Table 5: Combination Therapy with Metformin and Pioglitazone in Patients with Type 2 Diabetes Mellitus (Mean ± SD) (Trial 1)

<table>
<thead>
<tr>
<th>Treatment duration 24-weeks</th>
<th>NOVOLÔG® MIX 70/30 + Metformin + Pioglitazone</th>
<th>Metformin + Pioglitazone</th>
</tr>
</thead>
<tbody>
<tr>
<td>HbA1c</td>
<td>Baseline ± SD (n)</td>
<td>8.1 ± 1.0 (102)</td>
</tr>
<tr>
<td>Baseline - end-of-study</td>
<td>8.6 ± 1.0 (93)</td>
<td>7.8 ± 1.2 (87)</td>
</tr>
<tr>
<td>Adjusted Mean change from baseline ± SE (n)</td>
<td>-1.6 ± 0.1 (93)</td>
<td>-3.0 ± 0.1 (87)</td>
</tr>
<tr>
<td>Treatment difference</td>
<td>± SE*</td>
<td>95% CI*</td>
</tr>
<tr>
<td>Percentage of subjects reaching HbA1c ≤ 7.0%</td>
<td>76%</td>
<td>24%</td>
</tr>
<tr>
<td>Percentage of subjects reaching HbA1c ≤ 6.5%</td>
<td>59%</td>
<td>12%</td>
</tr>
</tbody>
</table>
NovoLog® Mix 70/30 (insulin aspart protamine and insulin aspart) injectable suspension

**Fasting Blood Glucose (mg/dL)**

<table>
<thead>
<tr>
<th>Treatment duration</th>
<th>NOVOLOG® MIX 70/30 + Metformin ± Pioglitazone</th>
<th>Insulin Glargine + Metformin ± Pioglitazone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseline mean (%  ± SD)</td>
<td>HbA1c</td>
<td>9.7 ± 1.5 (117)</td>
</tr>
<tr>
<td>Baseline mean (± SD)</td>
<td>6.9 ± 1.2 (108)</td>
<td>7.4 ± 1.2 (114)</td>
</tr>
<tr>
<td>Mean change from baseline</td>
<td>-2.7 ± 1.6 (108)</td>
<td>-2.4 ± 1.5 (114)</td>
</tr>
<tr>
<td>Percentage of subjects reaching HbA1c &lt;7.0%</td>
<td>66%</td>
<td>40%</td>
</tr>
</tbody>
</table>

**Table 6:** Combination Therapy with Metformin ± Pioglitazone and Two Types of Insulin in Patients with Type 2 Diabetes Mellitus (Mean (SD)) (Trial 2)

**Table 7: Storage conditions for NOVOLOG® MIX 70/30 vial and FlexPen®**

<table>
<thead>
<tr>
<th>Temperature (up to 30°C (86°F))</th>
<th>Not in-use (unopened)</th>
<th>Not in-use (unopened)</th>
<th>In-use (opened)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room Temperature</td>
<td>Refrigerated</td>
<td>Refrigerated</td>
<td></td>
</tr>
<tr>
<td>(2°C to 8°C (36°F to 46°F))</td>
<td>(2°C to 8°C (36°F to 46°F))</td>
<td>(2°C to 8°C (36°F to 46°F))</td>
<td></td>
</tr>
<tr>
<td>10 mL multiple-dose vial</td>
<td>28 days</td>
<td>Until expiration date</td>
<td>28 days</td>
</tr>
<tr>
<td>3 mL single-patient-use FlexPen®</td>
<td>14 days</td>
<td>Until expiration date</td>
<td>14 days (Do not refrigerate)</td>
</tr>
</tbody>
</table>

**16 HOW SUPPLIED/STORAGE AND HANDLING**

**16.1 How Supplied**

NOVOLOG® MIX 70/30 (insulin aspart protamine and insulin aspart) is a white and cloudy injectable suspension containing 100 units/mL (U-100) of 70% insulin aspart protamine and 30% insulin aspart available as:

- One 10 mL multiple-dose vial per carton
- ReliOn® brand NDC 0169-3685-12
- Five 3 mL single-patient-use FlexPen® prefilled pens per carton
- ReliOn® brand NDC 0169-2201-25

The NOVOLOG® MIX 70/30 FlexPen® dials in 1-unit increments.

**16.2 Recommended Storage**

Dispense in the original sealed carton with the enclosed Instructions for Use. Store unused NOVOLOG® MIX 70/30 in a refrigerator between 2°C to 8°C (36°F to 46°F). Do not freeze NOVOLOG® MIX 70/30 or use NOVOLOG® MIX 70/30 if it has been frozen. Do not expose NOVOLOG® MIX 70/30 to excessive heat or light.

Always remove the needle after each injection and store NOVOLOG® MIX 70/30 FlexPen® without a needle attached.

**The storage conditions are summarized in the following table:**

**17 PATIENT COUNSELING INFORMATION**

Advise the patient to read the FDA-approved patient labeling (Patient Information and Instructions for Use).

**Never Share a NOVOLOG® MIX 70/30 FlexPen® between Patients**

Advise patients that they must never share NOVOLOG® MIX 70/30 FlexPen® device with another person even if the needle is changed. Advise patients using NOVOLOG® MIX 70/30 vials not to share needles or syringes with another person. Sharing poses a risk for transmission of blood-borne pathogens [see Warnings and Precautions (5.1)].

**Hyperglycemia or Hypoglycemia**

Inform patients that hypoglycemia is the most common adverse reaction with insulin. Instruct patients on self-management procedures including glucose monitoring, proper injection technique, and management of hypoglycemia, especially at initiation of NOVOLOG® MIX 70/30 therapy. Instruct patients on handling of special situations such as intercurrent conditions (illness, stress, or emotional disturbances), an inadequate or skipped insulin dose, inadequate food intake, and skipped meals. Instruct patients on the management of hyperglycemia [see Warnings and Precautions (5.3)].

Inform patients that their ability to concentrate and react may be impaired as a result of hypoglycemia. Advise patients who have frequent hypoglycemia or reduced or absent warning signs of hypoglycemia to use caution when driving or operating machinery.

Advise patients that changes in insulin regimen can predispose to hyperglycemia or hypoglycemia and that changes in insulin regimen should be made under close medical supervision [see Warnings and Precautions (5.2)].

**Hypoglycemia with Medication Errors**

Instruct patients to always check the insulin label before each injection to avoid mix-ups between insulin products [see Warnings and Precautions (5.4)].

**Hypersensitivity Reactions**

Advise patients that hypersensitivity reactions have occurred with NOVOLOG® MIX 70/30. Instruct patients of the symptoms of hypersensitivity reactions [see Warnings and Precautions (5.5)].
PATIENT INFORMATION

NovoLog® Mix 70/30 (NO-vō-LOG-MIX-SEV-en-TEE-THIR-tee) (insulin aspart protamine and insulin aspart) injectable suspension, for subcutaneous use

Do not share your NovoLog® Mix 70/30 FlexPen® with other people, even if the needle has been changed. You may give other people a serious infection from them.

What is NovoLog® Mix 70/30?
- NovoLog® Mix 70/30 is a man-made insulin that is used to control high blood sugar in people with diabetes mellitus.
- It is not known if NovoLog® Mix 70/30 is safe and effective in children.

Who should not take NovoLog® Mix 70/30?
Do not take NovoLog® Mix 70/30 if you:
- have an allergy to NovoLog® Mix 70/30 or any of the ingredients in NovoLog® Mix 70/30.

Before taking NovoLog® Mix 70/30, tell your healthcare provider about all your medical conditions including, if you are:
- pregnant, planning to become pregnant, or are breastfeeding.
- taking new prescription or over-the-counter medicines, vitamins, or herbal supplements.

Before you start taking NovoLog® Mix 70/30, talk to your healthcare provider about low blood sugar and how to manage it.

How should I take NovoLog® Mix 70/30?
- Read the Instructions for Use that come with your NovoLog® Mix 70/30.
- Take NovoLog® Mix 70/30 exactly as your healthcare provider tells you to.
- NovoLog® Mix 70/30 starts acting fast. If you have Type 1 diabetes, inject it up to 15 minutes before you eat a meal. Do not inject NovoLog® Mix 70/30 if you are not planning to eat within 15 minutes. If you have Type 2 diabetes, you may inject NovoLog® Mix 70/30 up to 15 minutes before or after starting your meal.
- Do not mix NovoLog® Mix 70/30 with other insulin products or use in an insulin pump.
- Know the type and strength of insulin you take. Do not change the type of insulin you take unless your healthcare provider tells you to. The amount of insulin and the best time for you to take your insulin may need to change if you take different types of insulin.
- Check your blood sugar levels. Ask your healthcare provider what your blood sugars should be and when you should check your blood sugar levels.
- Do not reuse or share your needles or syringes with other people. You may give other people a serious infection or get a serious infection from them.
- NovoLog® Mix 70/30 is injected under the skin (subcutaneously) of your stomach area, buttocks, upper legs, or upper arms.
- Change (rotate) your injection sites within the same area you choose with each dose to reduce your risk of getting lipodystrophy (pits in skin or thickened skin) and localized cutaneous amyloidosis (skin with lumps) at the injection sites.
  - Do not use the exact same spot for each injection.
  - Do not inject where skin has pits, is thickened, or has lumps.
  - Do not inject where skin is tender, bruised, scaled, or hard, or into scars or damaged skin.

What should I avoid while taking NovoLog® Mix 70/30?
While taking NovoLog® Mix 70/30 do not:
- Drive or operate heavy machinery, until you know how NovoLog® Mix 70/30 affects you.
- Drink alcohol or use prescription or over-the-counter medicines that contain alcohol.

What are the possible side effects of NovoLog® Mix 70/30?
NovoLog® Mix 70/30 may cause serious side effects that can lead to death, including:
- Low blood sugar (hypoglycemia). Signs and symptoms that may indicate low blood sugar include:
  - dizziness or light-headedness
  - sweating
  - confusion
  - headache
  - change in level of physical activity or exercise
  - weight gain or loss
  - anxiety, irritability, or mood changes
  - increase in stress
  - illness
  - change in diet

- Other common side effects of NovoLog® Mix 70/30 may include:
  - low potassium in your blood (hypokalemia), reactions at the injection site, itching, rash, serious allergic reactions (whole body reactions), skin thickening or pits at the injection site (lipodystrophy), weight gain, and swelling of your hands and feet.

Get emergency medical help if you have:
- trouble breathing, shortness of breath, fast heartbeat, swelling of your face, tongue, or throat, sweating, extreme drowsiness, dizziness, confusion.

These are not all the possible side effects of NovoLog® Mix 70/30. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

General information about the safe and effective use of NovoLog® Mix 70/30.
Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. You can ask your pharmacist or healthcare provider for information about NovoLog® Mix 70/30 that is written for health professionals. Do not use NovoLog® Mix 70/30 for a condition for which it was not prescribed. Do not give NovoLog® Mix 70/30 to other people, even if they have the same symptoms that you have. It may harm them.

What are the ingredients in NovoLog® Mix 70/30?
- Active Ingredient: 70% insulin aspart protamine and 30% insulin aspart.
- Inactive Ingredients: disodium hydrogen phosphate dihydrate, glycerol, metacresol, phenol, protamine sulfate, sodium chloride, zinc, and Water for Injection, USP. Hydrochloric acid or sodium hydroxide may be added to adjust pH.

Manufactured by: Novo Nordisk Inc., Plainsboro, NJ 08536 U.S. License Number 1261
For more information, go to www.novonordisk-us.com or call 1-800-727-6500.

This Patient Information has been approved by the U.S. Food and Drug Administration
Revised: 2/2023
INSTRUCTIONS FOR USE
NovoLog® Mix 70/30 (insulin aspart protamine and insulin aspart) injectable suspension, for subcutaneous use
10 mL multiple-dose vial (100 Units/mL, U-100)

Read this Instructions for Use before you start taking NovoLog® Mix 70/30 and each time you get a refill. There may be new information. This information does not take the place of talking to your healthcare provider about your medical condition or your treatment.

Supplies you will need to give your NovoLog® Mix 70/30 injection:
• 10 mL NovoLog® Mix 70/30 vial
• insulin syringe and needle
• alcohol swabs

Preparing your NovoLog® Mix 70/30 dose:
• Wash your hands with soap and water.
• Before you start to prepare your injection, check the NovoLog® Mix 70/30 label to make sure that you are taking the right type of insulin. This is especially important if you use more than 1 type of insulin.
• NovoLog® Mix 70/30 should look white and cloudy after mixing. Do not use NovoLog® Mix 70/30 if it looks clear or contains any lumps or particles.
• NovoLog® Mix 70/30 is easier to mix when it is at room temperature.
• After mixing NovoLog® Mix 70/30, inject your dose right away. If you wait to inject your dose, the insulin will need to be mixed again.
• Do not use NovoLog® Mix 70/30 past the expiration date printed on the label.

Step 1: If you are using a new vial, pull off the tamper-resistant cap (See Figure A).
Step 2: Wipe the rubber stopper with an alcohol swab (See Figure B).

Step 3: Roll the NovoLog® Mix 70/30 vial between your hands 10 times. Keep the vial in a horizontal (flat) position (See Figure C). Roll the vial between your hands until the NovoLog® Mix 70/30 looks white and cloudy. Do not shake the vial.

Step 4: Hold the syringe with the needle pointing up. Pull down on the plunger until the black tip reaches the line for the number of units for your prescribed dose (See Figure D).

Step 5: Push the needle through the rubber stopper of the NovoLog® Mix 70/30 vial (See Figure E).

Step 6: Push the plunger all the way in. This puts air into the NovoLog® Mix 70/30 vial (See Figure F).

Step 7: Turn the NovoLog® Mix 70/30 vial and syringe upside down and slowly pull the plunger down until the black tip is a few units past the line for your dose (See Figure G).

Step 8: Slowly push the plunger up until the black tip reaches the line for your NovoLog® Mix 70/30 dose (See Figure H).

Step 9: Check the syringe to make sure you have the right dose of NovoLog® Mix 70/30.

Step 10: Pull the syringe out of the vial’s rubber stopper (See Figure J).

Step 11: Choose your injection site and wipe the skin with an alcohol swab. Let the injection site dry before you inject your dose (See Figure K).

Step 12: Insert the needle into your skin. Push down on the plunger to inject your dose (See Figure L). The needle should remain in the skin for at least 6 seconds to make sure you have injected all the insulin.

Step 13: Pull the needle out of your skin. After that, you may see a drop of NovoLog® Mix 70/30 at the needle tip. This is normal and does not affect the dose you just received (See Figure M).

After your injection:
• Do not recap the needle. Recapping the needle can lead to a needle stick injury.
• Put the empty insulin vials, used needles and syringes in a FDA-cleared sharps disposal container right away after use. Do not throw away (dispose of) loose needles and syringes in your household trash.
• If you do not have a FDA-cleared sharps disposal container, you may use a household container that is:
  • made of a heavy-duty plastic,
  • can be closed with a tight-fitting, puncture-resistant lid, without sharps being able to come out,
  • upright and stable during use,
  • leak-resistant, and
  • properly labeled to warn of hazardous waste inside the container.
• When your sharps disposal container is almost full, you will need to follow your community guidelines for the right way to dispose of your sharps disposal container. There may be state or local laws about how you should throw away used needles and syringes. For more information about the safe sharps disposal, and for specific information about sharps disposal in the state that you live in, go to the FDA’s website at: http://www.fda.gov/safesharpsdisposal.

Do not dispose of used sharps disposal container in your household trash unless your community guidelines permit this. Do not recycle your used sharps disposal container.

How should I store NovoLog® Mix 70/30?
• Do not freeze NovoLog® Mix 70/30. Do not use NovoLog® Mix 70/30 if it has been frozen.
• Keep NovoLog® Mix 70/30 away from heat or light.

All unopened vials:
• Store unopened NovoLog® Mix 70/30 vials in the refrigerator at 36°F to 46°F (2°C to 8°C).
• Unopened vials may be used until the expiration date printed on the label, if they have been stored in the refrigerator.
• Unopened vials should be thrown away after 28 days, if they are stored at room temperature.

After vials have been opened:
• Opened NovoLog® Mix 70/30 vials can be stored in the refrigerator 36°F to 46°F (2°C to 8°C) or at room temperature below 86°F (30°C) for up to 28 days.
• Throw away all opened NovoLog® Mix 70/30 vials after 28 days, even if they still have insulin left in them.
General information about the safe and effective use of NovoLog® Mix 70/30

- Always use a new syringe and needle for each injection.
- Do not share syringes or needles.
- Keep NovoLog® Mix 70/30 vials, syringes, and needles out of the reach of children.
INSTRUCTIONS FOR USE

NovoLog® Mix 70/30 (insulin aspart protamine and insulin aspart) injectable suspension, for subcutaneous use

FlexPen®

Read the following instructions carefully before you start using your NovoLog® Mix 70/30 FlexPen® and each time you get a refill. There may be new information. You should read the instructions even if you have used NovoLog® Mix 70/30 FlexPen® before.

Do not share your NovoLog® Mix 70/30 FlexPen® with other people, even if the needle has been changed. You may give other people a serious infection, or get a serious infection from them.

NovoLog® Mix 70/30 FlexPen® is a disposable, single-patient-use dial-a-dose insulin pen. You can select doses from 1 to 60 units in increments of 1 unit. NovoLog® Mix 70/30 FlexPen® is designed to be used with NovoFine®, NovoFine® Plus or NovoTwist® needles. △ People who are blind or have vision problems should not use NovoLog® Mix 70/30 FlexPen® without help from a person trained to use NovoLog® Mix 70/30 FlexPen®.

Getting ready

- Make sure you have the following items:
  - NovoLog® Mix 70/30 FlexPen®
  - New NovoFine®, NovoFine® Plus or NovoTwist® needle
  - Alcohol swabs

NovoLog® Mix 70/30 FlexPen®

- Pen cap
- Rubber stopper
- Needle cap
- Needle cap
- Glass ball
- Cartridge scale
- Pointer
- Dose selector
- Push-button
- Protective tab

NovoFine®

- Big outer needle cap
- Inner needle cap
- Needle
- Protective tab

NovoFine® Plus

- Big outer needle cap
- Inner needle cap
- Needle
- Protective tab

NovoTwist®

- Big outer needle cap
- Inner needle cap
- Needle
- Protective tab

Preparing your NovoLog® Mix 70/30 FlexPen®

- Wash your hands with soap and water.
- Before you start to prepare your injection, check the label to make sure that you are taking the right type of insulin. This is especially important if you take more than one type of insulin. NovoLog® Mix 70/30 should look cloudy after mixing.
- Before your first injection with a new NovoLog® Mix 70/30 FlexPen® you must mix the insulin:
  - A. Let the insulin reach room temperature before you use it. This makes it easier to mix. Pull off the pen cap (see diagram A).
  - B. Roll the pen between your palms 10 times — it is important that the pen is kept horizontal (see diagram B).

Attaching the needle

- D. Remove the protective tab from a disposable needle.
- Screw the needle tightly onto your NovoLog® Mix 70/30 FlexPen®. It is important that the needle is put on straight (see diagram D).
- Never place a disposable needle on your NovoLog® Mix 70/30 FlexPen® until you are ready to take your injection.
- E. Pull off the big outer needle cap (see diagram E).
- F. Pull off the inner needle cap and throw it away (dispose of it) (see diagram F).
- Always use a new needle for each injection to make sure the needle is free of germs (sterile) and to prevent blocked needles. Do not reuse or share your needles or syringes with other people. You may give other people a serious infection, or get a serious infection from them.
- Be careful not to bend or damage the needle before use.
- To reduce the risk of a needle stick, never put the inner needle cap back on the needle.

Giving the airshot before each injection

Before each injection small amounts of air may collect in the cartridge during normal use. To avoid injecting air and to make sure you take the right dose of insulin:
- G. Turn the dose selector to select 2 units (see diagram G).

Selecting your dose

Check and make sure that the dose selector is set at 0.
- J. Turn the dose selector to the number of units you need to inject. The pointer should line up with your dose.
- The dose can be corrected either up or down by turning the dose selector in either direction until the correct dose lines up with the pointer (see diagram J). When turning the dose selector, be careful not to press the push-button as insulin will come out.
- You cannot select a dose larger than the number of units left in the cartridge.
- You will hear a click for every single unit dialed. Do not set the dose by counting the number of clicks you hear because you may get an incorrect dose.
- △ Do not use the cartridge scale printed on the cartridge to measure your dose of insulin.

Giving the injection

- Do the injection exactly as shown to you by your healthcare provider. Your healthcare provider should tell you if you need to pinch the skin before injecting. Wipe the skin with an alcohol swab and let the area dry.
- NovoLog® Mix 70/30 can be injected under the skin (subcutaneously) of your stomach area, buttocks, upper legs (thighs) or upper arms.
- Change (rotate) your injection sites within the area you choose for each dose to reduce your risk of getting lipodystrophy (pits in skin or thickened skin) and localized cutaneous amyloidosis (skin with lumps) at the injection sites. Do not use the same injection site for each injection. Do not inject where the skin has pits, is thickened, or has lumps. Do not inject where the skin is tender, bruised, scaly or hard, or into scars or damaged skin.
- K. Insert the needle into your skin.
- Inject the dose by pressing the push-button all the way in until the 0 lines up with the pointer (see diagram K). Be careful only to push the button when injecting. Turning the dose selector will not inject insulin.
- L. Keep the needle in the skin for at least 6 seconds, and keep the push-button pressed all the way in until the needle has been pulled out from the skin (see diagram L). This will make sure that the full dose has been given.
- You may see a drop of insulin at the needle tip. This is normal and has no effect on the dose you just received. If blood appears after you take the needle out of your skin, press the injection site lightly with an alcohol swab. Do not rub the area.

For every following injection move the pen up and down between positions 1 and 2 at least ten times until the liquid appears white and cloudy.
- After mixing, complete all the following steps of the injection right away. If there is a delay, the insulin will need to be mixed again.
- Wipe the rubber stopper with an alcohol swab.
- △ Before you inject, there must be at least 12 units of insulin left in the cartridge to make sure the remaining insulin is evenly mixed. If there are less than 12 units left, use a new NovoLog® Mix 70/30 FlexPen®.

A drop of insulin should appear at the needle tip. If not, change the needle and repeat the procedure no more than 6 times.
- If you do not see a drop of insulin after 5 times, do not use the NovoLog® Mix 70/30 FlexPen® and contact Novo Nordisk at 1-800-727-6500.
- A small air bubble may remain at the needle tip, but it will not be injected.

Hold your NovoLog® Mix 70/30 FlexPen® with the needle pointing up. Tap the cartridge gently with your finger a few times to make any air bubbles collect at the top of the cartridge (see diagram H).
- I. Keep the needle pointing upwards, press the push-button all the way in (see diagram I). The dose selector returns to 0.

To avoid injecting air and to make sure you take the right dose of insulin:
- C. Then gently move the pen up and down ten times between position 1 and 2 as shown, so the glass ball moves from one end of the cartridge to the other (see diagram C).
- Repeat rolling and moving the pen until the liquid appears white and cloudy. Do not use the pen if the liquid appears discolored or contains particles.

You may see a drop of insulin at the needle tip. This is normal and has no effect on the dose you just received. If blood appears after you take the needle out of your skin, press the injection site lightly with an alcohol swab. Do not rub the area.

before.

Push-button A

Protective tab B

Inner needle cap C

Big outer needle cap D

Glass ball E

Cartridge scale F

Pointer G

Dose selector H

Push-button I

NovoFine® Plus J

NovoFine® K

NovoTwist® L

2 units selected M

5 units selected N

24 units selected O

A. Let the insulin reach room temperature before you use it. This makes it easier to mix. Pull off the pen cap (see diagram A).

B. Roll the pen between your palms 10 times — it is important that the pen is kept horizontal (see diagram B).
After the injection
Do not recap the needle. Recapping can lead to a needle stick injury. Remove the needle from the NovoLog® Mix 70/30 FlexPen® after each injection and dispose of it. This helps to prevent infection, leakage of insulin, and will help to make sure you inject the right dose of insulin.

- Put your used needles in a FDA-cleared sharps disposal container right away after use. Do not throw away (dispose of) loose needles in your household trash.
- If you do not have a FDA-cleared sharps disposal container, carefully slip the needle into the outer needle cap and throw it away in a household container that is:
  - made of a heavy-duty plastic,
  - can be closed with a tight-fitting, puncture-resistant lid, without sharps being able to come out,
  - upright and stable during use,
  - leak-resistant, and
  - properly labeled to warn of hazardous waste inside the container.

- When your sharps disposal container is almost full, you will need to follow your community guidelines for the right way to dispose of your sharps disposal container. There may be state or local laws about how you should throw away used needles and syringes. For more information about the safe sharps disposal, and for specific information about sharps disposal in the state that you live in, go to the FDA’s website at: http://www.fda.gov/safesharpsdisposal.

- When there is not enough medicine left in your NovoLog® Mix 70/30 FlexPen® to make your prescribed dose, the NovoLog® Mix 70/30 FlexPen® may be thrown away in your household trash after you have removed the needle.

The NovoLog® Mix 70/30 FlexPen® prevents the cartridge from being completely emptied. It is designed to deliver 300 units.

M. Put the pen cap on the NovoLog® Mix 70/30 FlexPen® and store the NovoLog® Mix 70/30 FlexPen® without the needle attached (see diagram M). Storing without the needle attached helps prevent leaking, blocking of the needle, and air from entering the Pen.

How should I store NovoLog® Mix 70/30 FlexPen®?

- Do not freeze NovoLog® Mix 70/30. Do not use NovoLog® Mix 70/30 if it has been frozen.
- Keep NovoLog® Mix 70/30 away from heat or light.
- Store the NovoLog® Mix 70/30 FlexPen® without the needle attached.

- Unused NovoLog® Mix 70/30 FlexPen®:
  - Store unused NovoLog® Mix 70/30 FlexPen® in the refrigerator at 36°F to 46°F (2°C to 8°C).
  - Unused NovoLog® Mix 70/30 FlexPen® may be used until the expiration date printed on the label, if kept in the refrigerator.
  - Unused NovoLog® Mix 70/30 FlexPen® should be thrown away after 14 days, if it is stored at room temperature.

- In-Use NovoLog® Mix 70/30 FlexPen®:
  - Store the FlexPen® you are currently using at room temperature below 86°F (30°C) for up to 14 days.
  - The NovoLog® Mix 70/30 FlexPen® you are using should be thrown away after 14 days, even if it still has insulin left in it.

Maintenance
For the safe and proper use of your NovoLog® Mix 70/30 FlexPen®, be sure to handle it with care. Avoid dropping your NovoLog® Mix 70/30 FlexPen® as it may damage it. If you are concerned that your NovoLog® Mix 70/30 FlexPen® is damaged, use a new one. You can clean the outside of your NovoLog® Mix 70/30 FlexPen® by wiping it with a damp cloth. Do not soak or wash your NovoLog® Mix 70/30 FlexPen® as it may damage it. Do not refill your NovoLog® Mix 70/30 FlexPen®.

- Remove the needle from the NovoLog® Mix 70/30 FlexPen® after each injection. This helps to ensure sterility, prevent leakage of insulin, and will help to make sure you inject the right dose of insulin for future injections.
- Be careful when handling used needles to avoid needle sticks and transfer of infectious diseases.
- Keep your NovoLog® Mix 70/30 FlexPen® and needles out of the reach of children.

- Use NovoLog® Mix 70/30 FlexPen® as directed to treat your diabetes.
- Do not share your NovoLog® Mix 70/30 FlexPen® or needles with other people. You may give other people a serious infection, or get a serious infection from them.
- Always use a new needle for each injection.
- Novo Nordisk is not responsible for harm due to using this insulin pen with products not recommended by Novo Nordisk.
- As a precautionary measure, always carry a spare insulin delivery device in case your NovoLog® Mix 70/30 FlexPen® is lost or damaged.
- Remember to keep the disposable NovoLog® Mix 70/30 FlexPen® with you. Do not leave it in a car or other location where it can get too hot or too cold.