

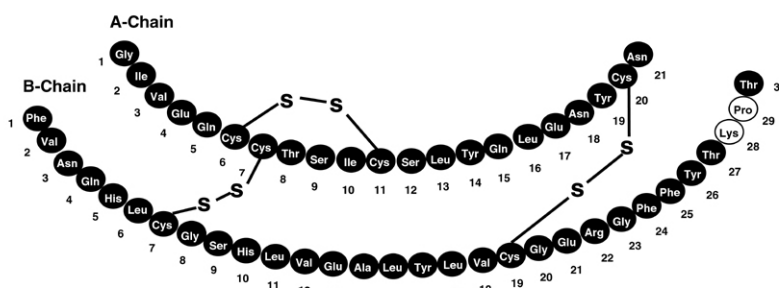
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HUMALOG[®] Mix75/25[™]
75% INSULIN LISPRO PROTAMINE SUSPENSION AND
25% INSULIN LISPRO INJECTION
(rDNA ORIGIN)
100 UNITS PER ML (U-100)

DESCRIPTION

Humalog[®] Mix75/25[™] [75% insulin lispro protamine suspension and 25% insulin lispro injection, (rDNA origin)] is a mixture of insulin lispro solution, a rapid-acting blood glucose-lowering agent and insulin lispro protamine suspension, an intermediate-acting blood glucose-lowering agent. Chemically, insulin lispro is Lys(B28), Pro(B29) human insulin analog, created when the amino acids at positions 28 and 29 on the insulin B-chain are reversed. Insulin lispro is synthesized in a special non-pathogenic laboratory strain of *Escherichia coli* bacteria that has been genetically altered to produce insulin lispro. Insulin lispro protamine suspension (NPL component) is a suspension of crystals produced from combining insulin lispro and protamine sulfate under appropriate conditions for crystal formation.

Insulin lispro has the following primary structure:



Insulin lispro has the empirical formula $C_{257}H_{383}N_{65}O_{77}S_6$ and a molecular weight of 5808, both identical to that of human insulin.

Humalog Mix75/25 vials and Pens contain a sterile suspension of insulin lispro protamine suspension mixed with soluble insulin lispro for use as an injection.

Each milliliter of Humalog Mix75/25 injection contains insulin lispro 100 units, 0.28 mg protamine sulfate, 16 mg glycerin, 3.78 mg dibasic sodium phosphate, 1.76 mg Metacresol, zinc oxide content adjusted to provide 0.025 mg zinc ion, 0.715 mg phenol, and Water for Injection. Humalog Mix75/25 has a pH of 7.0 to 7.8. Hydrochloric acid 10% and/or sodium hydroxide 10% may have been added to adjust pH.

CLINICAL PHARMACOLOGY

Antidiabetic Activity

The primary activity of insulin, including Humalog Mix75/25, is the regulation of glucose metabolism. In addition, all insulins have several anabolic and anti-catabolic actions on many tissues in the body. In muscle and other tissues (except the brain), insulin causes rapid transport

38 of glucose and amino acids intracellularly, promotes anabolism, and inhibits protein catabolism.
 39 In the liver, insulin promotes the uptake and storage of glucose in the form of glycogen, inhibits
 40 gluconeogenesis, and promotes the conversion of excess glucose into fat.

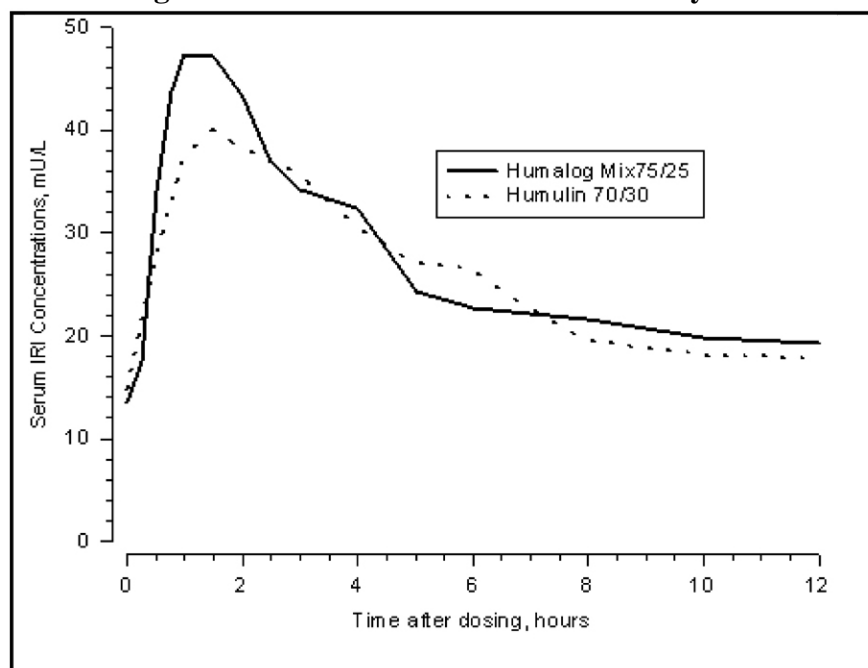
41 Insulin lispro, the rapid-acting component of Humalog Mix75/25, has been shown to be
 42 equipotent to Regular human insulin on a molar basis. One unit of Humalog[®] has the same
 43 glucose-lowering effect as one unit of Regular human insulin, but its effect is more rapid and of
 44 shorter duration. Humalog Mix75/25 has a similar glucose-lowering effect as compared with
 45 Humulin[®] 70/30 on a unit for unit basis.

46 Pharmacokinetics

47 *Absorption* — Studies in nondiabetic subjects and patients with type 1 (insulin-dependent)
 48 diabetes demonstrated that Humalog, the rapid-acting component of Humalog Mix75/25, is
 49 absorbed faster than Regular human insulin (U-100). In nondiabetic subjects given subcutaneous
 50 doses of Humalog ranging from 0.1 to 0.4 U/kg, peak serum concentrations were observed 30 to
 51 90 minutes after dosing. When nondiabetic subjects received equivalent doses of Regular human
 52 insulin, peak insulin concentrations occurred between 50 to 120 minutes after dosing. Similar
 53 results were seen in patients with type 1 diabetes.

54

55 **Figure 1: Serum Immunoreactive Insulin (IRI) Concentrations, After Subcutaneous**
 56 **Injection of Humalog Mix75/25 or Humulin 70/30 in Healthy Nondiabetic Subjects.**



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58

59 Humalog Mix75/25 has two phases of absorption. The early phase represents insulin lispro and
 60 its distinct characteristics of rapid onset. The late phase represents the prolonged action of insulin
 61 lispro protamine suspension. In 30 healthy nondiabetic subjects given subcutaneous doses
 62 (0.3 U/kg) of Humalog Mix75/25, peak serum concentrations were observed 30 to 240 minutes
 63 (median, 60 minutes) after dosing (*see* Figure 1). Identical results were found in patients with
 64 type 1 diabetes. The rapid absorption characteristics of Humalog are maintained with
 65 Humalog Mix75/25 (*see* Figure 1).

66 Figure 1 represents serum insulin concentration versus time curves of Humalog Mix75/25 and
67 Humulin 70/30. Humalog Mix75/25 has a more rapid absorption than Humulin 70/30, which has
68 been confirmed in patients with type 1 diabetes.

69 *Distribution* — Radiolabeled distribution studies of Humalog Mix75/25 have not been
70 conducted. However, the volume of distribution following injection of Humalog is identical to
71 that of Regular human insulin, with a range of 0.26 to 0.36 L/kg.

72 *Metabolism* — Human metabolism studies of Humalog Mix75/25 have not been conducted.
73 Studies in animals indicate that the metabolism of Humalog, the rapid-acting component of
74 Humalog Mix75/25, is identical to that of Regular human insulin.

75 *Elimination* — Humalog Mix75/25 has two absorption phases, a rapid and a prolonged phase,
76 representative of the insulin lispro and insulin lispro protamine suspension components of the
77 mixture. As with other intermediate-acting insulins, a meaningful terminal phase half-life cannot
78 be calculated after administration of Humalog Mix75/25 because of the prolonged insulin lispro
79 protamine suspension absorption.

80 **Pharmacodynamics**

81 Studies in nondiabetic subjects and patients with diabetes demonstrated that Humalog has a
82 more rapid onset of glucose-lowering activity, an earlier peak for glucose-lowering, and a shorter
83 duration of glucose-lowering activity than Regular human insulin. The early onset of activity of
84 Humalog Mix75/25 is directly related to the rapid absorption of Humalog. The time course of
85 action of insulin and insulin analogs, such as Humalog (and hence Humalog Mix75/25), may
86 vary considerably in different individuals or within the same individual. The parameters of
87 Humalog Mix75/25 activity (time of onset, peak time, and duration) as presented in Figures 2
88 and 3 should be considered only as general guidelines. The rate of insulin absorption and
89 consequently the onset of activity is known to be affected by the site of injection, exercise, and
90 other variables (*see General under PRECAUTIONS*).

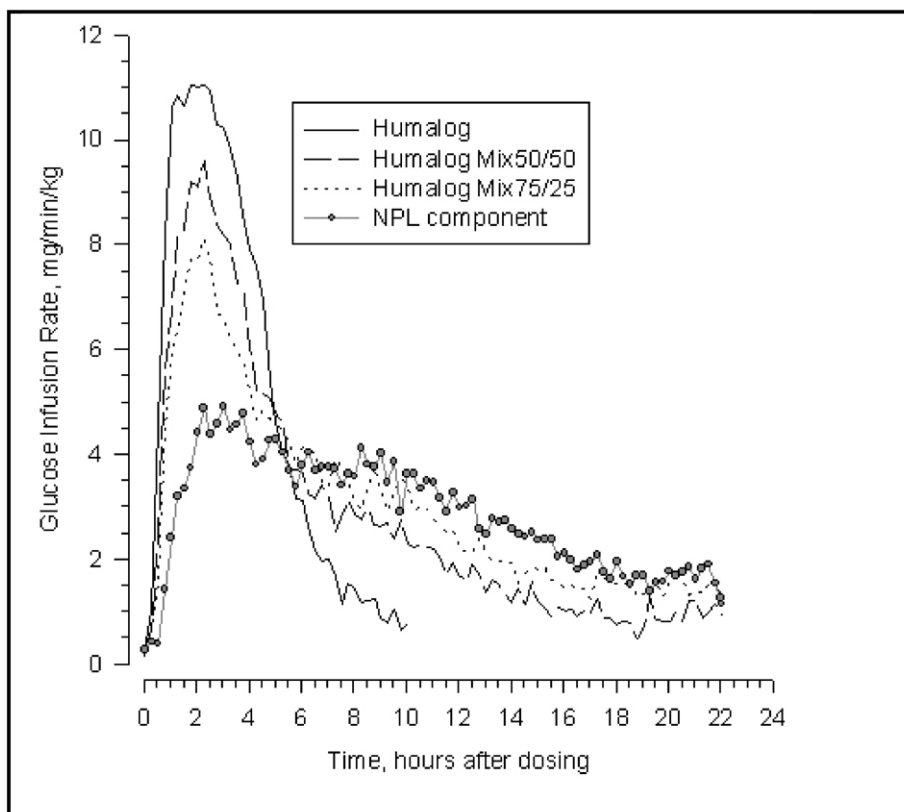
91 In a glucose clamp study performed in 30 nondiabetic subjects, the onset of action and
92 glucose-lowering activity of Humalog, Humalog[®] Mix50/50[™], Humalog Mix75/25, and insulin
93 lispro protamine suspension (NPL component) were compared (*see* Figure 2). Graphs of mean
94 glucose infusion rate versus time showed a distinct insulin activity profile for each formulation.
95 The rapid onset of glucose-lowering activity characteristic of Humalog was maintained in
96 Humalog Mix75/25.

97 In separate glucose clamp studies performed in nondiabetic subjects, pharmacodynamics of
98 Humalog Mix75/25 and Humulin 70/30 were assessed and are presented in Figure 3.

99 Humalog Mix75/25 has a duration of activity similar to that of Humulin 70/30.

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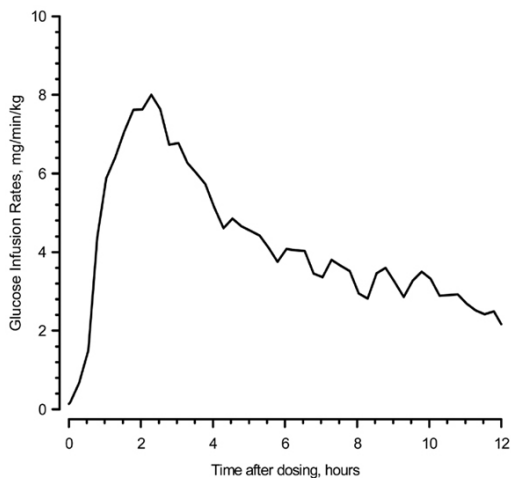
101 **Figure 2: Insulin Activity After Injection of Humalog, Humalog Mix50/50, Humalog**
102 **Mix75/25, or Insulin Lispro Protamine Suspension (NPL Component) in 30 Nondiabetic**
103 **Subjects.**



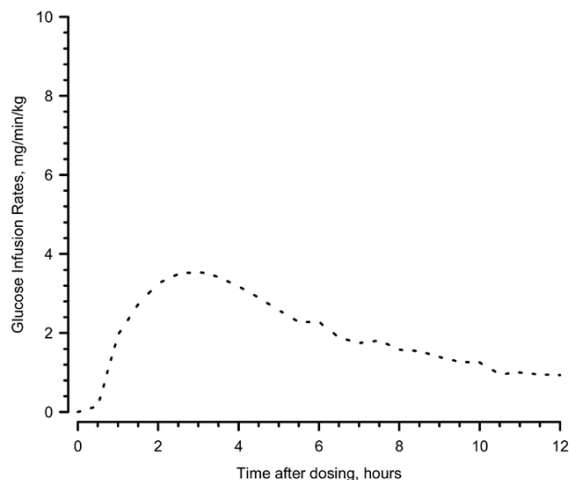
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Figure 3: Insulin Activity After Injection of Humalog Mix75/25 and Humulin 70/30 in Nondiabetic Subjects.

**Figure 3a
Humalog Mix75/25**



**Figure 3b
Humulin 70/30**



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Figures 2 and 3 represent insulin activity profiles as measured by glucose clamp studies in healthy nondiabetic subjects.

115 Figure 2 shows the time activity profiles of Humalog, Humalog Mix50/50,
116 Humalog Mix75/25, and insulin lispro protamine suspension (NPL component).

117 Figure 3 is a comparison of the time activity profiles of Humalog Mix75/25 (see Figure 3a) and
118 of Humulin 70/30 (see Figure 3b) from two different studies.

119 Special Populations

120 *Age and Gender* — Information on the effect of age on the pharmacokinetics of
121 Humalog Mix75/25 is unavailable. Pharmacokinetic and pharmacodynamic comparisons
122 between men and women administered Humalog Mix75/25 showed no gender differences. In
123 large Humalog clinical trials, sub-group analysis based on age and gender demonstrated that
124 differences between Humalog and Regular human insulin in postprandial glucose parameters are
125 maintained across sub-groups.

126 *Smoking* — The effect of smoking on the pharmacokinetics and pharmacodynamics of
127 Humalog Mix75/25 has not been studied.

128 *Pregnancy* — The effect of pregnancy on the pharmacokinetics and pharmacodynamics of
129 Humalog Mix75/25 has not been studied.

130 *Obesity* — The effect of obesity and/or subcutaneous fat thickness on the pharmacokinetics and
131 pharmacodynamics of Humalog Mix75/25 has not been studied. In large clinical trials, which
132 included patients with Body Mass Index up to and including 35 kg/m², no consistent differences
133 were observed between Humalog and Humulin[®] R with respect to postprandial glucose
134 parameters.

135 *Renal Impairment* — The effect of renal impairment on the pharmacokinetics and
136 pharmacodynamics of Humalog Mix75/25 has not been studied. In a study of 25 patients with
137 type 2 diabetes and a wide range of renal function, the pharmacokinetic differences between
138 Humalog and Regular human insulin were generally maintained. However, the sensitivity of the
139 patients to insulin did change, with an increased response to insulin as the renal function
140 declined. Careful glucose monitoring and dose reductions of insulin, including
141 Humalog Mix75/25, may be necessary in patients with renal dysfunction.

142 *Hepatic Impairment* — Some studies with human insulin have shown increased circulating
143 levels of insulin in patients with hepatic failure. The effect of hepatic impairment on the
144 pharmacokinetics and pharmacodynamics of Humalog Mix75/25 has not been studied. However,
145 in a study of 22 patients with type 2 diabetes, impaired hepatic function did not affect the
146 subcutaneous absorption or general disposition of Humalog when compared with patients with
147 no history of hepatic dysfunction. In that study, Humalog maintained its more rapid absorption
148 and elimination when compared with Regular human insulin. Careful glucose monitoring and
149 dose adjustments of insulin, including Humalog Mix75/25, may be necessary in patients with
150 hepatic dysfunction.

151 **INDICATIONS AND USAGE**

152 Humalog Mix75/25, a mixture of 75% insulin lispro protamine suspension and 25% insulin
153 lispro injection (rDNA origin), is indicated in the treatment of patients with diabetes mellitus for
154 the control of hyperglycemia. Humalog Mix75/25 has a more rapid onset of glucose-lowering
155 activity compared with Humulin 70/30 while having a similar duration of action. This profile is
156 achieved by combining the rapid onset of Humalog with the intermediate action of insulin lispro
157 protamine suspension.

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CONTRAINDICATIONS

Humalog Mix75/25 is contraindicated during episodes of hypoglycemia and in patients sensitive to insulin lispro or any of the excipients contained in the formulation.

WARNINGS

Humalog differs from Regular human insulin by its rapid onset of action as well as a shorter duration of activity. Therefore, the dose of Humalog Mix75/25 should be given within 15 minutes before a meal.

Hypoglycemia is the most common adverse effect associated with the use of insulins, including Humalog Mix75/25. As with all insulins, the timing of hypoglycemia may differ among various insulin formulations. Glucose monitoring is recommended for all patients with diabetes.

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

PRECAUTIONS

General

Hypoglycemia and hypokalemia are among the potential clinical adverse effects associated with the use of all insulins. Because of differences in the action of Humalog Mix75/25 and other insulins, care should be taken in patients in whom such potential side effects might be clinically relevant (e.g., patients who are fasting, have autonomic neuropathy, or are using potassium-lowering drugs or patients taking drugs sensitive to serum potassium level).

Lipodystrophy and hypersensitivity are among other potential clinical adverse effects associated with the use of all insulins.

As with all insulin preparations, the time course of Humalog Mix75/25 action may vary in different individuals or at different times in the same individual and is dependent on site of injection, blood supply, temperature, and physical activity.

Adjustment of dosage of any insulin may be necessary if patients change their physical activity or their usual meal plan. Insulin requirements may be altered during illness, emotional disturbances, or other stress.

Hypoglycemia — As with all insulin preparations, hypoglycemic reactions may be associated with the administration of Humalog Mix75/25. Rapid changes in serum glucose concentrations may induce symptoms of hypoglycemia in persons with diabetes, regardless of the glucose value. 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, or intensified diabetes control.

Renal Impairment — As with other insulins, the requirements for Humalog Mix75/25 may be reduced in patients with renal impairment.

Hepatic Impairment — Although impaired hepatic function does not affect the absorption or disposition of Humalog, careful glucose monitoring and dose adjustments of insulin, including Humalog Mix75/25, may be necessary.

Allergy — Local Allergy — As with any insulin therapy, patients may experience redness, swelling, or itching at the site of injection. These minor reactions usually resolve in a few days to a few weeks. In some instances, these reactions may be related to factors other than insulin, such as irritants in the skin cleansing agent or poor injection technique.

202 Systemic Allergy — Less common, but potentially more serious, is generalized allergy to
203 insulin, which may cause rash (including pruritus) over the whole body, shortness of breath,
204 wheezing, reduction in blood pressure, rapid pulse, or sweating. Severe cases of generalized
205 allergy, including anaphylactic reaction, may be life threatening. Localized reactions and
206 generalized myalgias have been reported with the use of cresol as an injectable excipient.

207 Antibody Production — In clinical trials, antibodies that cross-react with human insulin and
208 insulin lispro were observed in both human insulin mixtures and insulin lispro mixtures
209 treatment groups.

210 **Information for Patients**

211 Patients should be informed of the potential risks and advantages of Humalog Mix75/25 and
212 alternative therapies. Patients should not mix Humalog Mix75/25 with any other insulin. They
213 should also be informed about the importance of proper insulin storage, injection technique,
214 timing of dosage, adherence to meal planning, regular physical activity, regular blood glucose
215 monitoring, periodic hemoglobin A_{1c} testing, recognition and management of hypo- and
216 hyperglycemia, and periodic assessment for diabetes complications.

217 Patients should be advised to inform their physician if they are pregnant or intend to become
218 pregnant.

219 Refer patients to the “INFORMATION FOR THE PATIENT” insert for information on normal
220 appearance, proper resuspension and injection techniques, timing of dosing (within 15 minutes
221 before a meal), storing, and common adverse effects.

222 For Patients Using Insulin Pen Delivery Devices: Before starting therapy, patients should read
223 the “INFORMATION FOR THE PATIENT” insert that accompanies the drug product and the
224 User Manual that accompanies the delivery device and re-read them each time the prescription
225 is renewed. Patients should be instructed on how to properly use the delivery device, prime the
226 Pen, and properly dispose of needles. Patients should be advised not to share their Pens with
227 others.

228 **Laboratory Tests**

229 As with all insulins, the therapeutic response to Humalog Mix75/25 should be monitored by
230 periodic blood glucose tests. Periodic measurement of hemoglobin A_{1c} is recommended for the
231 monitoring of long-term glycemic control.

232 **Drug Interactions**

233 Insulin requirements may be increased by medications with hyperglycemic activity such as
234 corticosteroids, isoniazid, certain lipid-lowering drugs (e.g., niacin), estrogens, oral
235 contraceptives, phenothiazines, and thyroid replacement therapy.

236 Insulin requirements may be decreased in the presence of drugs with hypoglycemic activity,
237 such as oral antidiabetic agents, salicylates, sulfa antibiotics, certain antidepressants (monoamine
238 oxidase inhibitors), angiotensin-converting-enzyme inhibitors, angiotensin II receptor blocking
239 agents, beta-adrenergic blockers, inhibitors of pancreatic function (e.g., octreotide), and alcohol.
240 Beta-adrenergic blockers may mask the symptoms of hypoglycemia in some patients.

241 **Carcinogenesis, Mutagenesis, Impairment of Fertility**

242 Long-term studies in animals have not been performed to evaluate the carcinogenic potential of
243 Humalog, Humalog Mix75/25 or Humalog Mix50/50. Insulin lispro was not mutagenic in a
244 battery of *in vitro* and *in vivo* genetic toxicity assays (bacterial mutation tests, unscheduled DNA
245 synthesis, mouse lymphoma assay, chromosomal aberration tests, and a micronucleus test).

246 There is no evidence from animal studies of impairment of fertility induced by insulin lispro.

247 **Pregnancy**

248 *Teratogenic Effects — Pregnancy Category B* — Reproduction studies with insulin lispro have
 249 been performed in pregnant rats and rabbits at parenteral doses up to 4 and 0.3 times,
 250 respectively, the average human dose (40 units/day) based on body surface area. The results have
 251 revealed no evidence of impaired fertility or harm to the fetus due to insulin lispro. There are,
 252 however, no adequate and well-controlled studies with Humalog, Humalog Mix75/25, or
 253 Humalog Mix50/50 in pregnant women. Because animal reproduction studies are not always
 254 predictive of human response, this drug should be used during pregnancy only if clearly needed.

255 **Nursing Mothers**

256 It is unknown whether insulin lispro is excreted in significant amounts in human milk. Many
 257 drugs, including human insulin, are excreted in human milk. For this reason, caution should be
 258 exercised when Humalog Mix75/25 is administered to a nursing woman. Patients with diabetes
 259 who are lactating may require adjustments in Humalog Mix75/25 dose, meal plan, or both.

260 **Pediatric Use**

261 Safety and effectiveness of Humalog Mix75/25 in patients less than 18 years of age have not
 262 been established.

263 **Geriatric Use**

264 Clinical studies of Humalog Mix75/25 did not include sufficient numbers of patients aged 65
 265 and over to determine whether they respond differently than younger patients. In general, dose
 266 selection for an elderly patient should take into consideration the greater frequency of decreased
 267 hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy in this
 268 population.

269 **ADVERSE REACTIONS**

270 Clinical studies comparing Humalog Mix75/25 with human insulin mixtures did not
 271 demonstrate a difference in frequency of adverse events between the two treatments.

272 Adverse events commonly associated with human insulin therapy include the following:

273 **Body as a Whole** — allergic reactions (*see* PRECAUTIONS).

274 **Skin and Appendages** — injection site reaction, lipodystrophy, pruritus, rash.

275 **Other** — hypoglycemia (*see* WARNINGS and PRECAUTIONS).

276 **OVERDOSAGE**

277 Hypoglycemia may occur as a result of an excess of insulin relative to food intake, energy
 278 expenditure, or both. Mild episodes of hypoglycemia usually can be treated with oral glucose.
 279 Adjustments in drug dosage, meal patterns, or exercise, may be needed. More severe episodes
 280 with coma, seizure, or neurologic impairment may be treated with intramuscular/subcutaneous
 281 glucagon or concentrated intravenous glucose. Sustained carbohydrate intake and observation
 282 may be necessary because hypoglycemia may recur after apparent clinical recovery.

283 **DOSAGE AND ADMINISTRATION**

284 **Table 1***

285 **Summary of Pharmacodynamic Properties of Insulin Products (Pooled Cross-Study
 286 Comparison)**
 287

| Insulin Products | Dose, U/kg | Time of Peak Activity, Hours After Dosing | Percent of Total Activity Occurring in the First 4 Hours |
|------------------|------------|---|--|
|------------------|------------|---|--|

| | | | |
|------------------|-----------------------|---------------------|--------------------|
| Humalog | 0.3 | 2.4 (0.8 - 4.3) | 70% (49 - 89%) |
| Humulin R | 0.32 (0.26 - 0.37) | 4.4 (4.0 - 5.5) | 54% (38 - 65%) |
| Humalog Mix75/25 | 0.3 | 2.6 (1.0 - 6.5) | 35% (21 - 56%) |
| Humulin 70/30 | 0.3 | 4.4 (1.5 - 16) | 32% (14 - 60%) |
| Humalog Mix50/50 | 0.3 | 2.3 (0.8 - 4.8) | 45% (27 - 69%) |
| Humulin 50/50 | 0.3 | 3.3 (2.0 - 5.5) | 44% (21 - 60%) |
| NPH | 0.32 (0.27 - 0.40) | 5.5 (3.5 - 9.5) | 14% (3.0 - 48%) |
| NPL component | 0.3 | 5.8 (1.3 - 18.3) | 22% (6.3 - 40%) |

* The information supplied in Table 1 indicates when peak insulin activity can be expected and the percent of the total insulin activity occurring during the first 4 hours. The information was derived from 3 separate glucose clamp studies in nondiabetic subjects. Values represent means, with ranges provided in parentheses.

Humalog Mix75/25 is intended only for subcutaneous administration. Humalog Mix75/25 should not be administered intravenously. Dosage regimens of Humalog Mix75/25 will vary among patients and should be determined by the Health Care Professional familiar with the patient's metabolic needs, eating habits, and other lifestyle variables. Humalog has been shown to be equipotent to Regular human insulin on a molar basis. One unit of Humalog has the same glucose-lowering effect as one unit of Regular human insulin, but its effect is more rapid and of shorter duration. Humalog Mix75/25 has a similar glucose-lowering effect as compared with Humulin 70/30 on a unit for unit basis. The quicker glucose-lowering effect of Humalog is related to the more rapid absorption rate of insulin lispro from subcutaneous tissue.

Humalog Mix75/25 starts lowering blood glucose more quickly than Regular human insulin, allowing for convenient dosing immediately before a meal (within 15 minutes). In contrast, mixtures containing Regular human insulin should be given 30 to 60 minutes before a meal.

The rate of insulin absorption and consequently the onset of activity are known to be affected by the site of injection, exercise, and other variables. As with all insulin preparations, the time course of action of Humalog Mix75/25 may vary considerably in different individuals or within the same individual. Patients must be educated to use proper injection techniques.

Humalog Mix75/25 should be inspected visually before use. Humalog Mix75/25 should be used only if it appears uniformly cloudy after mixing. Humalog Mix75/25 should not be used after its expiration date.

HOW SUPPLIED

Humalog Mix75/25 [75% insulin lispro protamine suspension and 25% insulin lispro injection, (rDNA origin)] vials are available in the following package size:

100 units per mL (U-100)

10 mL vials

NDC 0002-7511-01 (VL-7511)

317 Humalog Mix75/25 [75% insulin lispro protamine suspension and 25% insulin lispro injection,
 318 (rDNA origin)] Pen, a disposable insulin delivery device, is available in the following package
 319 size:

320 5 x 3 mL disposable insulin delivery devices
 321 NDC 0002-8794-59 (HP-8794)

322 *Storage* — Humalog Mix75/25 should be stored in a refrigerator [2° to 8°C (36° to 46°F)], but
 323 not in the freezer. Do not use Humalog Mix75/25 if it has been frozen. Unrefrigerated
 324 [below 30°C (86°F)] vials must be used within 28 days or be discarded, even if they still contain
 325 Humalog Mix75/25. Unrefrigerated [below 30°C (86°F)] Pens must be used within 10 days or be
 326 discarded, even if they still contain Humalog Mix75/25. Protect from direct heat and light. See
 327 table below:
 328

| | Not In-Use (Unopened) Room Temperature [Below 30°C (86°F)] | Not In-Use (Unopened) Refrigerated | In-Use (Opened) Room Temperature [Below 30°C (86°F)] |
|------------|---|---|---|
| 10 mL Vial | 28 days | Until expiration date | 28 days, refrigerated/room temperature. |
| 3 mL Pen | 10 days | Until expiration date | 10 days. Do not refrigerate. |

329

330 Literature issued/revised Month dd, yyyy

331 **Pens manufactured by**
 332 **Eli Lilly and Company, Indianapolis, IN 46285, USA or**
 333 **Lilly France, F-67640 Fegersheim, France**

334 **Vials manufactured by**
 335 **Eli Lilly and Company, Indianapolis, IN 46285, USA or**
 336 **Lilly France, F-67640 Fegersheim, France**

337
 338 **for Eli Lilly and Company, Indianapolis, IN 46285, USA**

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