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Insulin Prior Authorization Program Summary

FDA LABELED INDICATIONS^{1-13,16-24}

Agent(s)	Indication(s)	Onset	Peak	Duration
Rapid-Acting Insulins				
Admelog (insulin lispro)	To improve glycemic control in adults and pediatric patients 3 years and older with type 1 diabetes mellitus and adults with type 2 diabetes mellitus	15-30 min	2 hours	Up to 7 hours
Apidra (insulin glulisine)	To improve glycemic control in adults and pediatric patients with diabetes mellitus	10 to 20 min	30-90 min	2 to 4 hours
Fiasp (insulin aspart)	To improve glycemic control in adult and pediatric patients with diabetes mellitus	15 to 20 min	50 to 70 min	~5 hours
Humalog, Humalog Junior, Insulin Lispro, Insulin Lispro Junior	To improve glycemic control in adults and children with diabetes mellitus	10-20 min	30-90 min	3 to 5 hours
Lyumjev (insulin lispro-aabc)	To improve glycemic control in adults with diabetes mellitus	17 min	120-174 min	4.6-7.3 hours
NovoLog, Insulin Aspart	To improve glycemic control in adults and children with diabetes mellitus	10 to 20 min	40 to 50 min	3 to 5 hours
Short-Acting Insulins				
Humulin R	To improve glycemic control in adult and pediatric patients with diabetes mellitus	30 to 60 min	2 to 4 hours	5 to 8 hours
Novolin R ^a , ReliOn R ^a		30 min	1.3 to 2 hours	Up to 8 hours

a – Manufacturer recommends Novolin R should not be used in external insulin pumps due to risk of precipitation

Intermediate-Acting Insulins	Indication	Onset	Peak	Duration
Humulin N	To improve glycemic control in adult and pediatric patients with diabetes mellitus	1 to 3 hours	8 hours	Up to 24 hours
Novolin N		1.5 hours	4 to 12 hours	Up to 24 hours
Long-Acting Insulins				
Basaglar	To improve glycemic control in adults and pediatric patients with type 1 diabetes mellitus and in adults with type 2 diabetes mellitus	1 hour	NA	24 hours
Lantus	To improve glycemic control in adults and pediatric patients with type 1 diabetes mellitus and in adults with type 2 diabetes mellitus	1 hour	NA	24 hours
Levemir	To improve glycemic control in adults and pediatric patients with diabetes mellitus	1.6 hours	NA	Up to 24 hours
Semglee	To improve glycemic control in adults and pediatric patients with type 1 diabetes mellitus and in adults with type 2 diabetes mellitus	1 hour	NA	24 hours
Toujeo, Toujeo Max	To improve glycemic control in adults and pediatric patients 6 years and older with diabetes mellitus	6 hours	NA	24 hours
Tresiba	To improve glycemic control in patients 1 year of age and older with diabetes mellitus	1 hour	NA	At least 42 hours
NPH-Regular Combinations				
Humulin 70/30	To improve glycemic control in adult patients with diabetes mellitus	30 to 60 min	Varies	12 to 16 hours
Novolin 70/30, insulin aspart protamine/insulin aspart	To improve glycemic control in adults and pediatric patients with diabetes mellitus	30 min	4.2 hours	Up to 24 hours
NPH-Lispro Combinations				
Humalog Mix 75/25, Insulin Lispro Protamine/Insulin Lispro (75/25)	To improve glycemic control in patients with diabetes mellitus	10 to 15 min	Varies	16 to 22 hours
Humalog Mix 50/50		10 to 15 min	Varies	16 to 22 hours
NPH – NovoLog Combination				
NovoLog Mix 70/30, Insulin aspart protamine/insulin aspart	To improve glycemic control in patients with diabetes mellitus	10 to 20 min	2.4 hours	Up to 24 hours

DOSING AND ADMINISTRATION

Dosing must be individualized. Total daily insulin requirements for type 1 patients can be estimated based on weight, with typical doses ranging from 0.4 to 1.0 units/kg/day. A typical starting dose for patients with type 1 diabetes who are metabolically stable is 0.5 units/kg/day, with half administered as prandial insulin and the other half as basal insulin. Type 2 diabetics usually have insulin started as an addition to a current regimen of other antidiabetic agents. Basal insulin is usually selected first over prandial insulin. Starting doses can be estimated based on body weight (0.1-0.2 units/kg/day) and the degree of hyperglycemia, with individualized titration over days to weeks as needed. Individuals with type 2 diabetes may require prandial insulin in addition to basal insulin. The recommended starting dose of prandial insulin is either 4 units or 10% of the basal dose at the largest meal or the meal with the greatest postprandial excursion. Titration is based on home glucose monitoring or A1C.¹⁴

CLINICAL RATIONALE

The American Diabetes Association Standards of Medical Care in Diabetes recommend the following therapy for type 1 diabetes mellitus:

- Most people with type 1 diabetes should be treated with multiple daily injections of prandial and basal insulin, or subcutaneous insulin infusion
- Most individuals with type 1 diabetes should use rapid-acting insulin analogs to reduce hypoglycemia risk.
- Patients with type 1 diabetes should be trained to match prandial insulin doses to carbohydrate intake, premeal blood glucose, and anticipated physical activity.¹⁴

For type 2 diabetes mellitus, the American Diabetes Association recommends the following:

- Metformin is the preferred initial pharmacological agent for type 2 diabetes
- The early introduction of insulin should be considered if there is evidence of ongoing catabolism, if symptoms of hyperglycemia are present, or when A1C levels or blood glucose levels are very high
- A patient-centered approach should be used to guide the choice of pharmacological agents. Considerations include comorbidities, hypoglycemia risk, impact on weight, cost, risk of side effects, and patient preferences.
- In patients who need the greater glucose-lowering effect of an injectable medication than can be obtained with oral agents, glucagon-like peptide 1 (GLP-1) receptor agonists are preferred to insulin when possible.¹⁴

The American Association of Clinical Endocrinologists and American College of Endocrinology (AACE/ACE) algorithm for type 2 diabetics recommends starting insulin therapy if the patient has an A1c > 9% and is having hyperglycemia symptoms. Patients with recent-onset type 2 diabetes or who have mild hyperglycemia (A1c < 7.5%), lifestyle therapy plus antihyperglycemic monotherapy (preferably with metformin) is recommended. Patients who present with an A1c > 7.5% should be started initially on metformin plus another agent, one of which is insulin. Patients taking two oral antihyperglycemic agents who have an A1c > 8 and/or long-standing type 2 diabetes are less likely to reach their target with a third oral antihyperglycemic agent. Although adding a GLP-1 receptor agonist as the third agent may lower hyperglycemia, eventually many patients will still require insulin. When insulin becomes necessary, a single daily dose of basal insulin should be added to the regimen. Dosage should be adjusted at regular and at short intervals to achieve the glycemic goal. Patients whose glycemia remains uncontrolled while receiving basal insulin in combination with oral agents or GLP-1 receptor agonists may require mealtime insulin to cover postprandial hyperglycemia.¹⁵

References:

1. American Diabetes Association. Medications Consumer Guide 2020. Diabetes Forecast. Accessed 09/17/2020. Available at: <http://main.diabetes.org/dforg/pdfs/2020/2020-cg->

- medications.pdf?utm_source=Offline&utm_medium=Print&utm_content=medications&utm_campaign=DF&s_src=vanity&s_subsrc=medications
2. Humalog (insulin lispro injection [rDNA origin] solution for subcutaneous injection). Eli Lilly and Company. November 2019.
 3. NovoLog (insulin aspart [rDNA origin] injection) solution for subcutaneous use. Novo Nordisk, Inc. November 2019.
 4. Apidra (insulin glulisine [rDNA origin] injection) solution for injection. Sanofi-Aventis. November 2019.
 5. Humulin R (insulin human injection [rDNA origin]) solution for subcutaneous injection. Eli Lilly and Company. November 2019.
 6. Novolin R (human insulin injection [rDNA origin]). Novo Nordisk, Inc. November 2019.
 7. Humulin N (insulin [rDNA origin] isophane suspension). Eli Lilly and Company. November 2019.
 8. Novolin N (human insulin isophane suspension injection) suspension. Novo Nordisk. November 2019.
 9. Novolin 70/30 (70% NPH, Human Insulin Isophane Suspension and 30% Regular, Human Insulin Injection, [rDNA]). Novo Nordisk. November 2019.
 10. Humulin 70/30 (70% human insulin isophane suspension and 30% human insulin injection (rDNA origin). Eli Lilly and Company. November 2019.
 11. Humalog Mix 75/25 (75% insulin lispro protamine suspension and 25% insulin lispro injection (rDNA origin). Eli Lilly and Company. November 2019.
 12. Humalog Mix 50/50 (50% insulin lispro protamine suspension and 50% insulin lispro injection [rDNA origin]). Eli Lilly and Company. November 2019.
 13. NovoLog 70/30 (70% insulin aspart protamine suspension and 30% insulin aspart injection. Novo Nordisk Inc. November 2019.
 14. American Diabetes Association. Pharmacologic Approaches to Glycemic Treatment: Standards of medical care in diabetes-2020. Accessed 9/18/2020. Available at https://care.diabetesjournals.org/content/43/Supplement_1/S98
 15. AACE/ACE Comprehensive Type 2 Diabetes Management Algorithm (2020) Executive Summary. Accessed 09/18/2020. Available at: <https://www.aace.com/disease-state-resources/diabetes/clinical-practice-guidelines-treatment-algorithms/comprehensive>
 16. Lantus prescribing information. Sanofi-Aventis US, LLC. November 2019.
 17. Levemir prescribing information. Novo Nordisk, Inc. March 2020.
 18. Toujeo prescribing information. Sanofi-Aventis U.S. LLC. December 2019.
 19. Tresiba prescribing information. Novo Nordisk Inc. November 2019.
 20. Fiasp prescribing information. Novo Nordisk Inc. December 2019.
 21. Admelog prescribing information. Sanofi-Aventis US, LLC. November 2019.
 22. Basaglar prescribing information. Eli Lilly and Company. November 2019.
 23. Lyumjev prescribing information. Eli Lilly and Company. June 2020.
 24. Semglee prescribing information. Mylan Specialty L.P. July 2020.

Insulin Prior Authorization

PREFERRED AGENTS

Rapid, Regular

Fiasp[®] (insulin aspart)
Novolin R[®] (regular human insulin)
NovoLog[®] (insulin aspart)

Insulin Aspart

Mix, NPH

Novolin N[®] (human insulin NPH)
Novolin 70/30[®] (70% human insulin isophane suspension/30% human insulin)
NovoLog 70/30[®] (70% insulin aspart protamine/30% insulin aspart)
Insulin aspart protamine/insulin aspart

STAND-ALONE AGENTS

Rapid, Regular

Relion[®] R (regular human insulin)
Humulin[®] R U500 (regular human insulin concentrated)

NON-PREFERRED PRIOR AUTHORIZATION TARGET AGENTS

Rapid, Regular

Admelog[®] (insulin lispro)
Apidra[®] (insulin glulisine)
Humalog[®] (insulin lispro)
Humalog[®] Junior Kwikpen (insulin lispro)
Humalog[®] Kwikpen U200 (insulin lispro)
Humulin[®] R U-100 (regular human insulin)

Insulin Lispro

Insulin Lispro Junior Kwikpen

Insulin Lispro Kwikpen

Lyumjev[™] (insulin lispro-aabc)

Mix, NPH

Insulin Lispro Protamine/Insulin Lispro Kwikpen (75/25)

Humalog[®] Mix 75/25[™] (75% insulin lispro protamine suspension/25% insulin lispro)

Humalog[®] Mix 50/50[™] (50% insulin lispro protamine suspension/50% insulin lispro)

Humulin[®] N (human insulin isophane suspension)

Humulin[®] 70/30 (70% human insulin isophane suspension/30% human insulin)

Brand (generic)	GPI	Multisource Code
Rapid, Regular		
Apidra (insulin glulisine) 100 U/mL		
10 mL vial, 3 mL pen/cartridge	27104004*****	M, N, O, Y
Admelog, Humalog, Humalog Junior Kwikpen (insulin lispro), Insulin Lispro 100 U/mL, Insulin Lispro Junior Kwikpen 100 U/ml, Insulin Lispro Kwikpen 100U/mL		
10 mL vial, 3 mL pen/cartridge	27104005*****	M, N, O, Y
Humalog KwikPen (insulin lispro) 200 U/mL		
3 mL pen	27104005*****	M, N, O, Y
Humulin R, Novolin R, ReliOn R (regular human insulin) 100 U/mL		
10 mL vial	27104010002005	M, N, O, Y
Humulin R (regular human insulin) 500 U/mL		
20 mL vial	27104010002015	M, N, O, Y
3 mL pen	2710401000D250	M, N, O, Y

Brand (generic)	GPI	Multisource Code
Lyumjev (insulin lispro-aabc) 100 U/mL		
3 mL/pen, 10 mL vial	27104005*****	M, N, O, Y
Lyumjev (insulin lispro-aabc) 200 U/mL		
3 mL pen	27104005*****	M, N, O, Y
Novolin R (regular human insulin) 100 U/mL		
3 mL pen	2710401000D220	M, N, O, Y
Fiasp, NovoLog, Insulin Aspart 100 U/mL		
10 mL vial, 3 mL pen/cartridge	27104002*****	M, N, O, Y
Mix, NPH		
Humalog Mix 75/25 (75% insulin lispro protamine/25% insulin lispro), Insulin Lispro Protamine/Insulin Lispro Kwikpen (75/25) 100 U/mL		
10 mL vial, 3 mL pen	27104080*****	M, N, O, Y
Humalog Mix 50/50 (50% insulin lispro protamine/50% insulin lispro) 100 U/mL		
10 mL vial, 3 mL pen	27104080*****	M, N, O, Y
Humulin N, Novolin N		
10 mL vial, 3 mL pen	27104020*****	M, N, O, Y
Humulin 70/30, Novolin 70/30 (70% human insulin isophane/30% regular human insulin) 100 U/mL		
10 mL vial, 3 mL pen	27104090*****	M, N, O, Y
NovoLog 70/30, insulin aspart protamine/insulin aspart (insulin mixed) 100 U/mL		
10 mL vial, 3 mL pen	27104070*****	M, N, O, Y

PRIOR AUTHORIZATION CRITERIA FOR APPROVAL

Non-preferred insulin agents will be approved when ONE of the following is met:

1. BOTH of the following:
 - a. The requested agent is a rapid insulin
AND
 - b. There is information that the patient is currently using an insulin pump that has an incompatibility with the preferred rapid insulin agent that is not expected to occur with the requested agent

OR
2. The request is for Humalog Mix 50/50 AND ONE of the following
 - a. The patient is currently using Humalog Mix 50/50 AND the prescriber states the patient is at risk if switched to a different insulin
OR
 - b. The patient has tried and had an inadequate response to a preferred insulin mix

OR
3. BOTH of the following:
 - a. The requested agent is a rapid, regular, mix, or NPH insulin
AND
 - b. ONE of the following:
 - i. The patient has an intolerance, or hypersensitivity to the preferred insulin agents of the same type (rapid or regular, mix or NPH) that is not expected to occur with the requested agent
OR
 - ii. The patient has an FDA labeled contraindication to the preferred insulin agent of the same type (rapid or regular, mix or NPH) that is not expected to occur with the requested agent

OR
4. There is information that the patient has a physical or a mental disability that would prevent him/her from using a preferred insulin agent

OR

5. The patient is pregnant

Length of Approval: 12 months