

GLUCAGON- glucagon kit
HF Acquisition Co LLC, DBA HealthFirst

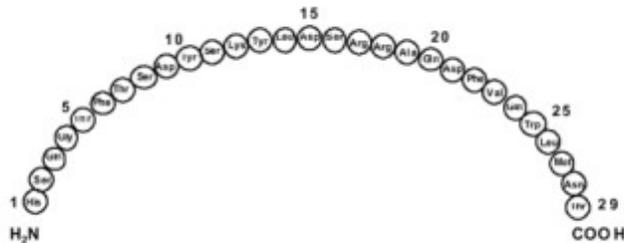
GLUCAGEN(R) {GLUCAGON (rDNA ORGIN) FOR INJECTION} 1mg PER KIT

DESCRIPTION

Glucagon for Injection is a polypeptide hormone identical to human glucagon that increases blood glucose and relaxes smooth muscle of the gastrointestinal tract. Glucagon is synthesized in a special non-pathogenic laboratory strain of Escherichia coli bacteria that has been genetically altered by the addition of the gene for glucagon.

Glucagon is a single-chain polypeptide that contains 29 amino acid residues and has a molecular weight of 3483.

The empirical formula is C₁₅₃H₂₂₅N₄₃O₄₉S. The primary sequence of glucagon is shown below.



Crystalline glucagon is a white to off-white powder. It is relatively insoluble in water but is soluble at a pH of less than 3 or more than 9.5.

Glucagon is available for use intravenously, intramuscularly, or subcutaneously in a kit that contains a

vial of sterile glucagon and a syringe of sterile diluent. The vial contains 1 mg of glucagon and 49 mg of lactose. Hydrochloric acid may have been added during manufacture to adjust the pH of the glucagon. One International Unit of glucagon is equivalent to 1 mg of glucagon.¹ The diluent syringe contains 12 mg/mL of glycerin, Water For Injection, and hydrochloric acid.

CLINICAL PHARMACOLOGY

Glucagon increases blood glucose concentration and is used in the treatment of severe hypoglycemia. Glucagon acts only on liver glycogen, converting it to glucose.

Glucagon administered through a parenteral route relaxes smooth muscle of the stomach, duodenum, small bowel, and colon.

Pharmacokinetics

Glucagon has been studied following intramuscular, subcutaneous, and intravenous administration in adult volunteers. Administration of the intravenous glucagon showed dose proportionality of the pharmacokinetics between 0.25 and 2.0 mg. Calculations from a 1 mg dose showed a small volume of distribution (mean, 0.25 L/kg) and a moderate clearance (mean, 13.5 mL/min/kg). The half-life was short, ranging from 8 to 18 minutes.

Maximum plasma concentrations of 7.9 ng/mL were achieved approximately 20 minutes after subcutaneous administration (see Figure 1A). With intramuscular dosing, maximum plasma concentrations of 6.9 ng/mL were attained approximately 13 minutes after dosing.

Glucagon is extensively degraded in liver, kidney, and plasma. Urinary excretion of intact glucagon has not been measured.

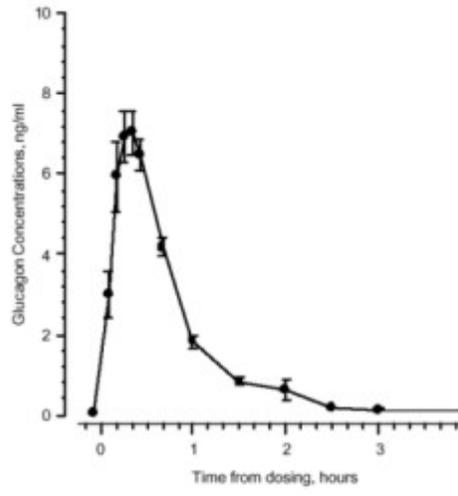
Pharmacodynamics

In a study of 25 volunteers, a subcutaneous dose of 1 mg glucagon resulted in a mean peak glucose concentration of 136 mg/dL 30 minutes after injection (see Figure 1B). Similarly, following intramuscular injection, the mean peak glucose level was 138 mg/dL, which occurred at 26 minutes after injection. No difference in maximum blood glucose concentration between animal-sourced and rDNA glucagon was observed after subcutaneous and intramuscular injection.

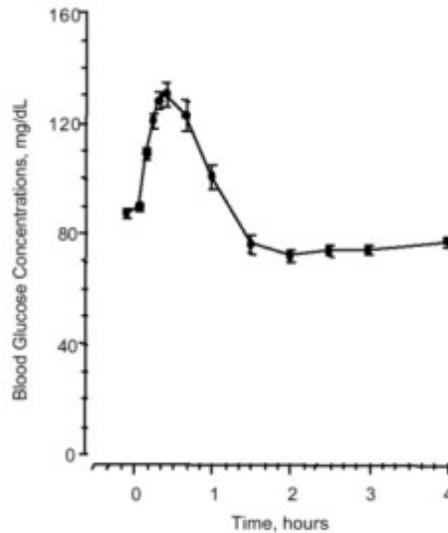
Figure 1

Mean (\pm SE) serum glucagon and blood glucose levels after subcutaneous injection of glucagon (1 mg) in 25 normal volunteers

A



B



INDICATIONS & USAGE

For the treatment of severe hypoglycemia:

Glucagon is indicated as a treatment for severe hypoglycemia (low blood sugar) which may occur in patients with diabetes mellitus.

Because patients with type 1 diabetes may have less of an increase in blood glucose levels compared with a stable type 2 patient, supplementary carbohydrate should be given as soon as possible, especially to a pediatric patient.

For use as a diagnostic aid:

Glucagon is indicated as a diagnostic aid in the radiologic examination of the stomach, duodenum, small bowel, and colon when diminished intestinal motility would be advantageous.

Glucagon is as effective for this examination as are the anticholinergic drugs. However, as use of glucagon in combination with anticholinergic drugs may result in increased side effects, the use of glucagon in combination with anticholinergic drugs is not recommended.

CONTRAINDICATIONS

Glucagon is contraindicated in patients with known hypersensitivity to it or in patients with known pheochromocytoma.

WARNINGS

Glucagon should be administered cautiously to patients with a history suggestive of insulinoma, pheochromocytoma, or both. In patients with insulinoma, intravenous administration of glucagon may produce an initial increase in blood glucose; however, because of glucagon's hyperglycemic effect the insulinoma may release insulin and cause subsequent hypoglycemia. A patient developing symptoms of hypoglycemia after a dose of glucagon should be given glucose orally, intravenously, or by gavage, whichever is most appropriate.

Exogenous glucagon also stimulates the release of catecholamines. In the presence of pheochromocytoma, glucagon can cause the tumor to release catecholamines, which may result in a sudden and marked increase in blood pressure. If a patient develops a sudden increase in blood pressure, 5 to 10 mg of phentolamine mesylate may be administered intravenously in an attempt to control the blood pressure.

Generalized allergic reactions, including urticaria, respiratory distress, and hypotension, have been reported in patients who received glucagon by injection.

Necrolytic migratory erythema (NME), a skin rash commonly associated with glucagonomas (glucagon-producing tumors) and characterized by scaly, pruritic erythematous plaques, bullae, and erosions, has been reported postmarketing following continuous glucagon infusion. NME lesions may affect the face, groin, perineum and legs or be more widespread. In the reported cases NME resolved with discontinuation of the glucagon, and treatment with corticosteroids was not effective. Should NME occur, consider whether the benefits of continuous glucagon infusion outweigh the risks.

PRECAUTIONS

General

Glucagon is effective in treating hypoglycemia only if sufficient liver glycogen is present. Because glucagon is of little or no help in states of starvation, adrenal insufficiency, or chronic hypoglycemia, hypoglycemia in these conditions should be treated with glucose.

Information for Patients

Refer patients and family members to the attached Information for the User for instructions describing the method of preparing and injecting glucagon. Advise the patient and family members to become familiar with the technique of preparing glucagon before an emergency arises. Instruct patients to use 1 mg for adults and 1/2 the adult dose (0.5 mg) for pediatric patients weighing less than 44 lb (20 kg).

Patients and family members should be informed of the following measures to prevent hypoglycemic reactions due to insulin:

Reasonable uniformity from day to day with regard to diet, insulin, and exercise.

Careful adjustment of the insulin program so that the type (or types) of insulin, dose, and time (or times) of administration are suited to the individual patient.

Frequent testing of the blood or urine for glucose so that a change in insulin requirements can be foreseen.

Routine carrying of sugar, candy, or other readily absorbable carbohydrate by the patient so that it may be taken at the first warning of an oncoming reaction.

To prevent severe hypoglycemia, patients and family members should be informed of the symptoms of mild hypoglycemia and how to treat it appropriately.

Family members should be informed to arouse the patient as quickly as possible because prolonged

hypoglycemia may result in damage to the central nervous system. Glucagon or intravenous glucose should awaken the patient sufficiently so that oral carbohydrates may be taken.

Patients should be advised to inform their physician when hypoglycemic reactions occur so that the treatment regimen may be adjusted if necessary.

Laboratory Tests

Blood glucose determinations should be obtained to follow the patient with hypoglycemia until patient is asymptomatic.

Carcinogenesis, Mutagenesis, Impairment of Fertility

Because glucagon is usually given in a single dose and has a very short half-life, no studies have been done regarding carcinogenesis. In a series of studies examining effects on the bacterial mutagenesis (Ames) assay, it was determined that an increase in colony counts was related to technical difficulties in running this assay with peptides and was not due to mutagenic activities of the glucagon.

Reproduction studies have been performed in rats at doses up to 2 mg/kg glucagon administered two times a day (up to 40 times the human dose based on body surface area, mg/m²) and have revealed no evidence of impaired fertility.

Pregnancy

Reproduction studies have not been performed with recombinant glucagon. However, studies with animal-sourced glucagon were performed in rats at doses up to 2 mg/kg glucagon administered two times a day (up to 40 times the human dose based on body surface area, mg/m²), and have revealed no evidence of impaired fertility or harm to the fetus due to glucagon. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

Nursing Mothers

It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when glucagon is administered to a nursing woman. If the drug is excreted in human milk during its short half-life, it will be hydrolyzed and absorbed like any other polypeptide. Glucagon is not active when taken orally because it is destroyed in the gastrointestinal tract before it can be absorbed.

Pediatric Use

For the treatment of severe hypoglycemia: The use of glucagon in pediatric patients has been reported to be safe and effective.²⁻⁶

For use as a diagnostic aid: Effectiveness has not been established in pediatric patients.

Geriatric Use

Clinical studies of glucagon did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

ADVERSE REACTIONS

Side effects may include nausea and vomiting. These reactions may also occur with hypoglycemia. Generalized allergic reactions have been reported (see WARNINGS). In a three month controlled study of 75 volunteers comparing animal-sourced glucagon with glucagon manufactured through rDNA technology, no glucagon-specific antibodies were detected in either treatment group.

Necrolytic migratory erythema (NME) cases have been reported postmarketing in patients receiving continuous infusions of glucagon (see WARNINGS).

OVERDOSAGE

Signs and Symptoms — If overdosage occurs, nausea, vomiting, gastric hypotonicity, and diarrhea would be expected without causing consequential toxicity.

Intravenous administration of glucagon has been shown to have positive inotropic and chronotropic effects. A transient increase in both blood pressure and pulse rate may occur following the administration of glucagon. Patients taking β -blockers might be expected to have a greater increase in both pulse and blood pressure, an increase of which will be transient because of glucagon's short half-life. The increase in blood pressure and pulse rate may require therapy in patients with pheochromocytoma or coronary artery disease.

When glucagon was given in large doses to patients with cardiac disease, investigators reported a positive inotropic effect. These investigators administered glucagon in doses of 0.5 to 16 mg/hour by continuous infusion for periods of 5 to 166 hours. Total doses ranged from 25 to 996 mg, and a 21-month-old infant received approximately 8.25 mg in 165 hours. Side effects included nausea, vomiting, and decreasing serum potassium concentration. Serum potassium concentration could be maintained within normal limits with supplemental potassium.

The intravenous median lethal dose for glucagon in mice and rats is approximately 300 mg/kg and 38.6 mg/kg, respectively.

Because glucagon is a polypeptide, it would be rapidly destroyed in the gastrointestinal tract if it were to be accidentally ingested.

Treatment — To obtain up-to-date information about the treatment of overdose, a good resource is your certified Regional Poison Control Center. Telephone numbers of certified poison control centers are listed in the Physicians' Desk Reference (PDR). In managing overdosage, consider the possibility of multiple drug overdoses, interaction among drugs, and unusual drug kinetics in your patient.

In view of the extremely short half-life of glucagon and its prompt destruction and excretion, the treatment of overdosage is symptomatic, primarily for nausea, vomiting, and possible hypokalemia.

If the patient develops a dramatic increase in blood pressure, 5 to 10 mg of phentolamine mesylate has been shown to be effective in lowering blood pressure for the short time that control would be needed.

Forced diuresis, peritoneal dialysis, hemodialysis, or charcoal hemoperfusion have not been established as beneficial for an overdose of glucagon.

DOSAGE & ADMINISTRATION

General Instructions for Use:

The diluent is provided for use only in the preparation of glucagon for parenteral injection and for no other use.

Glucagon should not be used at concentrations greater than 1 mg/mL.

Reconstituted glucagon should be used immediately. Discard any unused portion.

Reconstituted glucagon solutions should be used only if they are clear and of a water-like consistency. Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration.

Directions for Treatment of Severe Hypoglycemia:

Severe hypoglycemia should be treated initially with intravenous glucose, if possible.

If parenteral glucose can not be used, dissolve the lyophilized glucagon using the accompanying

diluting solution and use immediately.

For adults and for pediatric patients weighing more than 44 lb (20 kg), give 1 mg by subcutaneous, intramuscular, or intravenous injection.

For pediatric patients weighing less than 44 lb (20 kg), give 0.5 mg or a dose equivalent to 20 to 30 mcg/kg.2-6

Discard any unused portion.

An unconscious patient will usually awaken within 15 minutes following the glucagon injection. If the response is delayed, there is no contraindication to the administration of an additional dose of glucagon; however, in view of the deleterious effects of cerebral hypoglycemia emergency aid should be sought so that parenteral glucose can be given.

After the patient responds, supplemental carbohydrate should be given to restore liver glycogen and to prevent secondary hypoglycemia.

Directions for Use as a Diagnostic Aid:

Dissolve the lyophilized glucagon using the accompanying diluting solution and use immediately.

Discard any unused portion.

The doses in the following table may be administered for relaxation of the stomach, duodenum, and small bowel, depending on the onset and duration of effect required for the examination. Since the stomach is less sensitive to the effect of glucagon, 0.5 mg intravenous or 2 mg intramuscular are recommended.

Dose	Route of Administration	Time of Onset of Action	Approximate Duration of Effect
0.25 mg-0.5 mg	Intravenous	1 minute	9-17 minutes
1 mg	Intramuscular	8-10 minutes	12-27 minutes
2 mg*	Intravenous	1 minute	22-25 minutes
2 mg*	Intramuscular	4-7 minutes	21-32 minutes

* Administration of 2 mg doses produces a higher incidence of nausea and vomiting than do lower doses.

For examination of the colon, it is recommended that a 2 mg dose be administered intramuscularly approximately 10 minutes prior to the procedure. Colon relaxation and reduction of patient discomfort may allow the radiologist to perform a more satisfactory examination.

HOW SUPPLIED

GLUCAGEN(R) {GLUCAGON (rDNA ORGIN) FOR INJECTION} is supplied in the following dosage forms.

NDC 51662-1323-1

GLUCAGEN(R) {GLUCAGON (rDNA ORGIN) FOR INJECTION} 1mg PER KIT

HF Acquisition Co LLC, DBA HealthFirst
Mukilteo, WA 98275

Also supplied in the following manufacture supplied dosage forms

Glucagon Emergency Kit for Low Blood Sugar (NDC 0002-8031-01) contains 1 mg glucagon for injection (as a sterile, lyophilized white to off-white powder) in a single-dose vial and 1 mL of diluent for glucagon in a prefilled syringe.

Stability and Storage:

Before Reconstitution — Vials of glucagon, as well as the diluent for glucagon, may be stored at controlled room temperature 20° to 25°C (68° to 77°F)[see USP].

The USP defines controlled room temperature by the following: A temperature maintained thermostatically that encompasses the usual and customary working environment of 20° to 25°C (68° to 77°F); that results in a mean kinetic temperature calculated to be not more than 25°C; and that allows for excursions between 15° and 30°C (59° and 86°F) that are experienced in pharmacies, hospitals, and warehouses.

After Reconstitution — Glucagon for Injection should be used immediately. Discard any unused portion.

REFERENCES

Drug Information for the Health Care Professional. 18th ed. Rockville, Maryland: The United States Pharmacopeial Convention, Inc; 1998; I:1512.

Gibbs et al: Use of glucagon to terminate insulin reactions in diabetic children. *Nebr Med J* 1958;43:56-57.

Cornblath M, et al: Studies of carbohydrate metabolism in the newborn: Effect of glucagon on concentration of sugar in capillary blood of newborn infant. *Pediatrics* 1958;21:885-892.

Carson MJ, Koch R: Clinical studies with glucagon in children. *J Pediatr* 1955;47:161-170.

Shipp JC, et al: Treatment of insulin hypoglycemia in diabetic campers. *Diabetes* 1964;13:645-648.

Aman J, Wranne L: Hypoglycemia in childhood diabetes II: Effect of subcutaneous or intramuscular injection of different doses of glucagon. *Acta Pediatr Scand* 1988;77:548-553.

SPL UNCLASSIFIED

Literature revised July 2018

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Indianapolis, IN 46285, USA

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INFORMATION FOR THE USER

GLUCAGON FOR INJECTION

BECOME FAMILIAR WITH THE FOLLOWING INSTRUCTIONS BEFORE AN EMERGENCY ARISES. DO NOT USE THIS KIT AFTER DATE STAMPED ON THE VIAL OF GLUCAGON. IF YOU HAVE QUESTIONS CONCERNING THE USE OF THIS PRODUCT, CONSULT A DOCTOR, NURSE OR PHARMACIST.

Make sure that your relatives or close friends know that if you become unconscious, medical assistance must always be sought. Glucagon may have been prescribed so that members of your household can give the injection if you become severely hypoglycemic and are unable to take sugar by mouth. If you are unconscious, glucagon can be given while awaiting medical assistance.

Show your family members and others where you keep this kit and how to use it. They need to know how to use it before you need it. They can practice giving a shot by giving you your normal insulin shots. It is important that they practice. A person who has never given a shot probably will not be able to do it in an emergency.

IMPORTANT

Act quickly. Prolonged unconsciousness may be harmful.

These simple instructions will help you give glucagon successfully.

Turn patient on his/her side to prevent patient from choking.

The contents of the syringe are inactive. You must mix the contents of the syringe with the glucagon in the accompanying bottle before giving injection. (See DIRECTIONS FOR USE below.)

Do not prepare Glucagon for Injection until you are ready to use it.

WARNING: THE PATIENT MAY BE IN A COMA FROM SEVERE HYPERGLYCEMIA (VERY HIGH BLOOD GLUCOSE) RATHER THAN SEVERE HYPOGLYCEMIA (VERY LOW BLOOD SUGAR). IN SUCH A CASE, THE PATIENT WILL NOT RESPOND TO GLUCAGON AND REQUIRES IMMEDIATE MEDICAL ATTENTION.

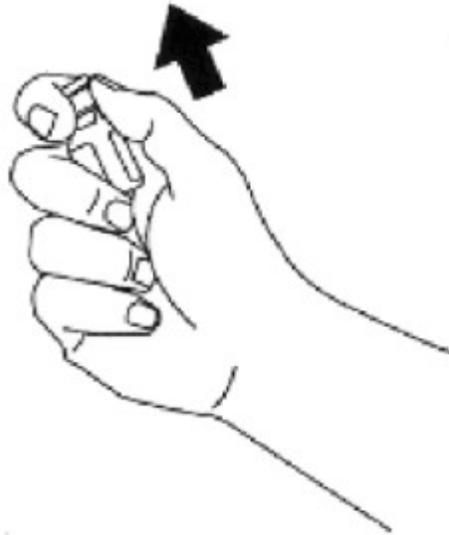
INDICATIONS FOR USE

Use glucagon to treat insulin coma or insulin reaction resulting from severe hypoglycemia (very low blood sugar). Symptoms of severe hypoglycemia include disorientation, unconsciousness, and seizures or convulsions. Give glucagon if (1) the patient is unconscious (2) the patient is unable to eat sugar or a sugar-sweetened product (3) the patient is having a seizure, or (4) repeated administration of sugar or a sugar-sweetened product such as a regular soft drink or fruit juice does not improve the patient's condition. Milder cases of hypoglycemia should be treated promptly by eating sugar or a sugar-sweetened product. (See INFORMATION ON HYPOGLYCEMIA below for more information on the symptoms of hypoglycemia.) Glucagon is not active when taken orally.

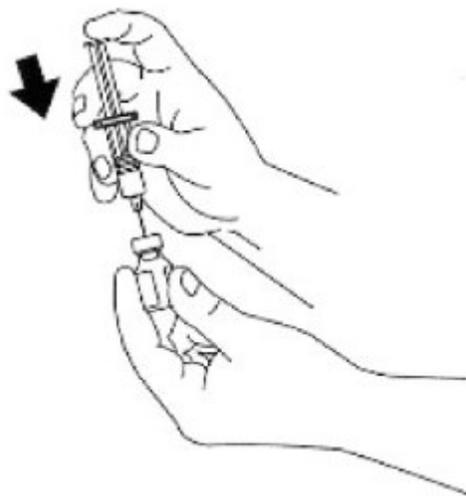
DIRECTIONS FOR USE

TO PREPARE GLUCAGON FOR INJECTION

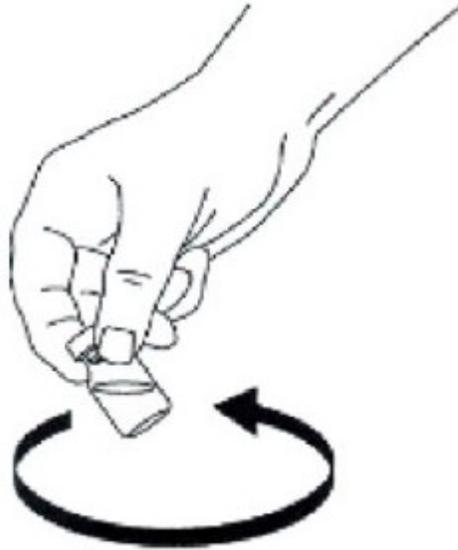
Remove the flip-off seal from the bottle of glucagon. Wipe rubber stopper on bottle with alcohol swab.



2. Remove the needle protector from the syringe, and inject the entire contents of the syringe into the bottle of glucagon. **DO NOT REMOVE THE PLASTIC CLIP FROM THE SYRINGE.** Remove syringe from the bottle.



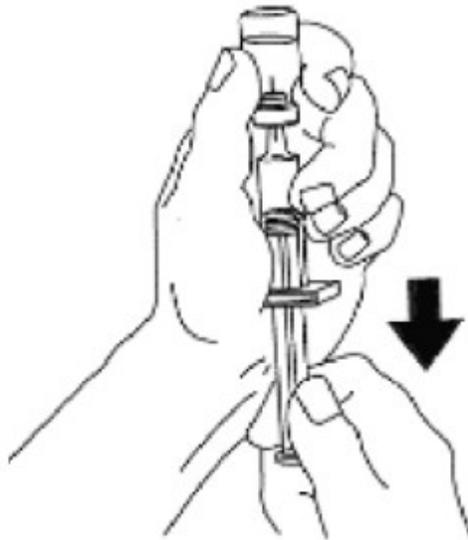
3. Swirl bottle gently until glucagon dissolves completely. **GLUCAGON SHOULD NOT BE USED UNLESS THE SOLUTION IS CLEAR AND OF A WATER-LIKE CONSISTENCY.**



TO INJECT GLUCAGON

Use Same Technique as for Injecting Insulin

4. Using the same syringe, hold bottle upside down and, making sure the needle tip remains in solution, gently withdraw all of the solution (1 mg mark on syringe) from bottle. The plastic clip on the syringe will prevent the rubber stopper from being pulled out of the syringe; however, if the plastic plunger rod separates from the rubber stopper, simply reinsert the rod by turning it clockwise. The usual adult dose is 1 mg. For children weighing less than 44 lb (20 kg), give 1/2 adult dose (0.5 mg). For children, withdraw 1/2 of the solution from the bottle (0.5 mg mark on syringe). **DISCARD UNUSED PORTION.**



USING THE FOLLOWING DIRECTIONS, INJECT GLUCAGON IMMEDIATELY AFTER MIXING.

Cleanse injection site on buttock, arm, or thigh with alcohol swab.

Insert the needle into the loose tissue under the cleansed injection site, and inject all (or 1/2 for children weighing less than 44 lb) of the glucagon solution. Apply light pressure at the injection site, and withdraw the needle. Press an alcohol swab against the injection site.

Turn the patient on his/her side. When an unconscious person awakens, he/she may vomit. Turning the patient on his/her side will prevent him/her from choking.

FEED THE PATIENT AS SOON AS HE/SHE AWAKENS AND IS ABLE TO SWALLOW. Give the patient a fast-acting source of sugar (such as a regular soft drink or fruit juice) and a long-acting source of sugar (such as crackers and cheese or a meat sandwich). If the patient does not awaken within 15 minutes, give another dose of glucagon and **INFORM A DOCTOR OR EMERGENCY SERVICES IMMEDIATELY.**

Even if the glucagon revives the patient, his/her doctor should be promptly notified. A doctor should be notified whenever severe hypoglycemic reactions occur.

INFORMATION ON HYPOGLYCEMIA

Early symptoms of hypoglycemia (low blood glucose) include:

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

If not treated, the patient may progress to severe hypoglycemia that can include:

disorientation	seizures
unconsciousness	death

The occurrence of early symptoms calls for prompt and, if necessary, repeated administration of some form of carbohydrate. Patients should always carry a quick source of sugar, such as candy mints or glucose tablets. The prompt treatment of mild hypoglycemic symptoms can prevent severe hypoglycemic reactions. If the patient does not improve or if administration of carbohydrate is impossible, glucagon should be given or the patient should be treated with intravenous glucose at a medical facility. Glucagon, a naturally occurring substance produced by the pancreas, is helpful because it enables the patient to produce his/her own blood glucose to correct the hypoglycemia.

POSSIBLE PROBLEMS WITH GLUCAGON TREATMENT

Side effects may include nausea and vomiting, a temporary increase in heart rate, and allergic reactions to glucagon or to one of the inactive ingredients in glucagon.

If you experience any other reactions which are likely to have been caused by glucagon, please contact your doctor.

STORAGE

Store the kit at controlled room temperature between 20° to 25°C (68° to 77°F) before mixing glucagon with the diluent.

Glucagon that has been mixed with diluent should be used immediately. Discard any unused portion. Solutions should be clear and of a water-like consistency at time of use.

Literature revised April 2018

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Indianapolis, IN 46285, USA

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GLU-0002-PPI-20180418

PACKAGE LABEL, GLUCAGON 1 MG EMERGENCY KIT 1CT

Lilly

Rx only

Glucagon Emergency Kit for Low Blood Sugar

Glucagon for Injection 1 mg (1 unit)

NDC 0002-8031-01

MS8031

Marketed by: Lilly USA, LLC

Indianapolis, IN 46285, USA

Glucagon: Product of Austria

Diluting Syringe: Product of Germany

Lilly

NL0171PAM00

Rx only

**Glucagon Emergency Kit
for Low Blood Sugar**
Glucagon for Injection 1 mg (1 unit)

NDC 0002-8031-01
MS8031

Marketed by: Lilly USA, LLC
Indianapolis, IN 46285, USA
Glucagon: Product of Austria
Diluting Syringe: Product of Germany

This kit contains:
1 Vial VL7529 Glucagon for Injection [1 mg (1 unit) glucagon with 40 mg lactose;
hydrochloric acid may have been added to adjust pH.] and
1 Hyporet® HY7530 Diluting Solution for Glucagon [12 mg/mL glycerin, water for injection and
hydrochloric acid].
Usual Dose—1 mg (1 unit) subcutaneously, intramuscularly, or intravenously for adults and pediatric
patients weighing more than 20 kg.
For smaller pediatric patients, see enclosed insert.
NON-RETURNABLE

Exp. Date/Control No./Serial No.

NL0161PADD

GTIN: 10300028031015

PRINCIPAL DISPLAY PANEL, SERIALIZED LABEL



GLUCAGON

glucagon kit kit

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:51662-1323(NDC:0002-8031)
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Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:51662-1323-1	1 in 1 KIT	10/20/2018	

Quantity of Parts

Part #	Package Quantity	Total Product Quantity
Part 1	1 VIAL	1 mL
Part 2	1 SYRINGE	1 mL

Part 1 of 2

GLUCAGON

glucagon injection, powder, for solution injection, powder, for solution

Product Information

Route of Administration INTRAVENOUS, SUBCUTANEOUS, INTRAMUSCULAR

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
GLUCAGON (UNII: 76LA80IG2G) (GLUCAGON - UNII:76LA80IG2G)	GLUCAGON	1 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
LACTOSE, UNSPECIFIED FORM (UNII: J2B2A4N98G)	49 mg in 1 mL
HYDROCHLORIC ACID (UNII: QTT17582CB)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1		1 mL in 1 VIAL; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA020928	10/21/2018	

Part 2 of 2

DILUTING SOLUTION FOR GLUCAGEN

diluent injection, solution injection, solution

Product Information

Route of Administration INTRAVENOUS, INTRAMUSCULAR, SUBCUTANEOUS

Inactive Ingredients

Ingredient Name	Strength
GLYCERIN (UNII: PDC6A3C0OX)	12 mg in 1 mL
WATER (UNII: 059QF0KO0R)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1		1 mL in 1 SYRINGE; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA020928	10/21/2018	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA020298	10/20/2018	

Labeler - HF Acquisition Co LLC, DBA HealthFirst (045657305)**Registrant** - HF Acquisition Co LLC, DBA HealthFirst (045657305)**Establishment**

Name	Address	ID/FEI	Business Operations
HF Acquisition Co LLC, DBA HealthFirst		045657305	relabel(51662-1323)

Revised: 2/2020

HF Acquisition Co LLC, DBA HealthFirst