HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use GVOKE and GVOKE VIALDX safely and effectively. See full prescribing information for GVOKE and GVOKE VIALDX.

GVOKE (glucagon) injection, for subcutaneous use GVOKE VIALDX (glucagon) injection, for intravenous use Initial U.S. Approval: 1960

RECENT MAJOR CHANGES		
Indications and Usage (1.1, 1.2)	03/2025	
Dosage and Administration (2.1, 2.2)	03/2025	
Contraindications (4)	03/2025	
Warnings and Precautions (5.6, 5.7, 5.8)	03/2025	

----INDICATIONS AND USAGE---

- GVOKE is an antihypoglycemic agent indicated for subcutaneous use for the treatment of severe hypoglycemia in adult and pediatric patients aged 2 years and older with diabetes (1.1)
- GVOKE VialDx is a gastrointestinal motility inhibitor indicated for intravenous use as a diagnostic aid during radiologic examinations to temporarily inhibit movement of the gastrointestinal tract in adult patients (1.2)

--DOSAGE AND ADMINISTRATION-

Dosage and Administration of GVOKE for Subcutaneous Use to Treat Severe Hypoglycemia in Adult and Pediatric Patients Aged 2 Years and Older with Diabetes (2.1)

- Important Administration Instructions
 - Administer GVOKE HypoPen, GVOKE PFS, or GVOKE Kit subcutaneously. These three presentations are referred to as GVOKE in this labeling.
 - Administer GVOKE according to the printed instructions on the foil pouch label, carton, or the Instructions for Use.
 - Visually inspect GVOKE prior to administration. The solution should appear clear and colorless to pale yellow.
- Administer GVOKE subcutaneously in the lower abdomen, outer thigh, or outer upper arm.
- Call for emergency assistance immediately after administering the dose .
- If there has been no response after 15 minutes, may administer an additional dose from a new HypoPen, GVOKE PFS, or GVOKE Kit while waiting for emergency assistance
- When the patient has responded to GVOKE, give oral carbohydrates
- Do not attempt to reuse GVOKE. Each GVOKE device or vial contains a single dose of glucagon. Do not reuse and discard any unused portion.
- Recommended Dosage
 - Recommended dose for adult and pediatric patients aged 12 years of age and older is 1 mg
 - The recommended dose for pediatric patients aged 2 to less than 12 years of age who weigh:
 - o Less than 45 kg, is 0.5 mg
 - o 45 kg or greater, is 1 mg

Dosage and Administration of GVOKE VialDx for Intravenous Use as a Diagnostic Aid in Adults (2.2)

- GVOKE VialDx is only for intravenous use under medical supervision.
- The recommended diagnostic dose for relaxation of the stomach, duodenal bulb, duodenum, and small bulb is 0.2 mg to 0.5 mg; the recommended dose to relax the colon is 0.5 mg to 0.75 mg
- See the Full Prescribing Information for administration instructions for GVOKE VialDx.

-----DOSAGE FORMS AND STRENGTHS-----

Subcutaneous Injection:

- 0.5 mg/0.1 mL single-dose prefilled autoinjector (GVOKE HypoPen) (3)
- 1 mg/0.2 mL single-dose prefilled autoinjector (GVOKE HypoPen) (3)
- 1 mg/0.2 mL single-dose prefilled syringe (GVOKE PFS) (3)
- 1 mg/0.2 mL single-dose vial and syringe kit (GVOKE Kit) (3) Intravenous Injection:
- 1 mg/0.2 mL single-dose vial (GVOKE VialDx) (3)

--CONTRAINDICATIONS-----

- Pheochromocytoma (4)
- Insulinoma (4)
- Prior hypersensitivity reaction to glucagon or to any of the excipients (4)
- Glucagonoma when used as a diagnostic aid (4)

FULL PRESCRIBING INFORMATION: CONTENTS* 1 INDICATIONS AND USAGE

----WARNINGS AND PRECAUTIONS-

- Substantial Increase in Blood Pressure in Patients with Pheochromocytoma: Contraindicated in patients with pheochromocytoma because glucagon may stimulate the release of catecholamines from the tumor. (5.1)
- Hypoglycemia in Patients with Insulinoma: In patients with insulinoma, administration may produce an initial increase in blood glucose; however, glucagon may stimulate exaggerated insulin release from an insulinoma and cause hypoglycemia. If a patient develops symptoms of hypoglycemia after a dose of GVOKE or GVOKE VialDx, give glucose orally or intravenously. (5.2)
- Serious Hypersensitivity Reactions: Serious hypersensitivity reactions have been reported with glucagon products, including generalized rash, and in some cases anaphylactic shock with breathing difficulties, and hypotension. (5.3)
- Lack of Efficacy with Subcutaneous Use for Severe Hypoglycemia in Patients with Decreased Hepatic Glycogen: Patients with insufficient hepatic stores of glycogen may not respond to GVOKE for subcutaneous use for the treatment of severe hypoglycemia. Insufficient hepatic stores of glycogen may be present in conditions such as states of starvation, or in patients with adrenal insufficiency or chronic hypoglycemia. (5.4)
- Necrolytic Migratory Erythema (NME): a skin rash, has been reported
 postmarketing following continuous glucagon infusion and resolved with
 discontinuation of the glucagon. GVOKE and GVOKE VialDx are not
 approved for continuous infusion. Should NME occur, consider whether
 the benefits of continuous glucagon infusion outweigh the risks. (5.5)
- Hyperglycemia with Intravenous Use as a Diagnostic Aid in Patients with Diabetes Mellitus: GVOKE VialDx in patients with diabetes mellitus may cause hyperglycemia. Monitor patients with diabetes for changes in blood glucose levels during treatment and treat hyperglycemia if indicated. (5.6)
- Blood Pressure and Heart Rate Increases with Intravenous Use as a
 Diagnostic Aid in Patients with Cardiac Disease: GVOKE VialDx may
 increase myocardial oxygen demand, blood pressure, and pulse rate.
 Cardiac monitoring is recommended in patients with cardiac disease during
 use of GVOKE VialDx as a diagnostic aid, and an increase in blood
 pressure and pulse rate may require therapy. (5.7)
- Hypoglycemia in Patients with Glucagonoma with Intravenous Use as a
 Diagnostic Aid: GVOKE VialDx administered to patients with
 glucagonoma may cause secondary hypoglycemia. Test patients suspected
 of having glucagonoma for blood levels of glucagon prior to treatment and
 monitor for changes in blood glucose levels during treatment. (5.8)

---ADVERSE REACTIONS---

- Most common adverse reactions (incidence 2% or greater) reported for GVOKE were:
 - Adults—nausea, vomiting, injection site edema raised 1 mm or greater, and headache (6.1)
 - Pediatric Patients—nausea, hypoglycemia, vomiting, headache, abdominal pain, hyperglycemia, injection site discomfort and reaction, and urticaria (6.1)
- Most common adverse reactions (incidence 5 % or greater) reported for GVOKE VialDx were nausea, dysgeusia, headache, dizziness and hot flush (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Xeris Pharmaceuticals, Inc. at toll-free 1-877-937-4737 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch

---DRUG INTERACTIONS---

- Beta-blockers: GVOKE- or GVOKE VialDx-treated patients taking concomitant beta-blockers may have a transient increase in pulse and blood pressure. (7)
- *Indomethacin:* In patients taking concomitant indomethacin, GVOKE may lose its ability to raise glucose or may produce hypoglycemia. (7)
- Anticholinergic drugs: Concomitant use of anticholinergic drugs with GVOKE VialDx for use as a diagnostic aid is not recommended. (7)
- Warfarin: GVOKE and GVOKE VialDx may increase the anticoagulant effect of warfarin. (7)
- Insulin: Monitor blood glucose when GVOKE VialDx is used as a diagnostic aid in patients receiving insulin. (7)

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling for GVOKE.

 Severe Hypoglycemia in Adult and Pediatric Patients Aged 2 Years and Older with Diabetes

Revised: 03/2025

1.2 Diagnostic Aid in Adults

2 DOSAGE AND ADMINISTRATION

- 2.1 Dosage and Administration of GVOKE for Subcutaneous Use to Treat Severe Hypoglycemia in Adult and Pediatric Patients Aged 2 Years and Older with Diabetes
- 2.2 Dosage and Administration of GVOKE VialDx for Intravenous Use as a Diagnostic Aid in Adults

3 DOSAGE FORMS AND STRENGTHS

4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS

- 5.1 Substantial Increase in Blood Pressure in Patients with Pheochromocytoma
- 5.2 Hypoglycemia in Patients with Insulinoma
- 5.3 Serious Hypersensitivity Reactions
- 5.4 Lack of Efficacy with Subcutaneous Use for Severe Hypoglycemia in Patients with Decreased Hepatic Glycogen
- 5.5 Necrolytic Migratory Erythema
- 5.6 Hyperglycemia with Intravenous Use as a Diagnostic Aid in Patients with Diabetes Mellitus
- 5.7 Blood Pressure and Heart Rate Increases with Intravenous Use as a Diagnostic Aid in Patients with Cardiac Disease
- 5.8 Hypoglycemia in Patients with Glucagonoma with Intravenous Use as a Diagnostic Aid

6 ADVERSE REACTIONS

- 6.1 Clinical Trials Experience
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16 HOW SUPPLIED/STORAGE AND HANDLING

17 PATIENT COUNSELING INFORMATION

* Sections or subsections omitted from the full prescribing information are not listed

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 Severe Hypoglycemia in Adult and Pediatric Patients Aged 2 Years and Older with Diabetes

GVOKE is indicated for subcutaneous use for the treatment of severe hypoglycemia in adult and pediatric patients aged 2 years and older with diabetes.

1.2 Diagnostic Aid in Adults

GVOKE VialDx is indicated for intravenous use as a diagnostic aid during radiologic examinations to temporarily inhibit movement of the gastrointestinal tract in adult patients.

2 DOSAGE AND ADMINISTRATION

2.1 Dosage and Administration of GVOKE for Subcutaneous Use to Treat Severe Hypoglycemia in Adult and Pediatric Patients Aged 2 Years and Older with Diabetes

Important Administration Instructions

To treat severe hypoglycemia in adult and pediatric patients aged 2 years and older with diabetes, administer GVOKE HypoPen, GVOKE PFS, or GVOKE Kit subcutaneously. These three presentations are only for subcutaneous use and are referred to as GVOKE in this labeling.

- For GVOKE HypoPen or GVOKE PFS: Do not open foil pouch until ready to administer.
- For GVOKE Kit: Store in original carton until ready to administer.

Instruct patients and their caregivers on the signs and symptoms of severe hypoglycemia. Because severe hypoglycemia requires the help of others to recover, instruct the patient to inform those around them about GVOKE and its Instructions for Use. Administer GVOKE subcutaneously as soon as possible when severe hypoglycemia is recognized.

Instruct the patient or caregiver to read the Instructions for Use at the time they receive a prescription for GVOKE.

- Visually inspect GVOKE prior to administration. The solution should be clear, colorless to pale yellow.
- Withdraw the correct dose (see below for dosage recommendations).
- Administer subcutaneously in the lower abdomen, outer thigh, or outer upper arm, according to the printed instructions on the foil pouch label, carton, or the Instructions for Use.
- Call for emergency assistance immediately after administering the dose.
- If there has been no response after 15 minutes, an additional dose from a new GVOKE HypoPen, GVOKE PFS, or GVOKE Kit may be administered while waiting for emergency assistance.
- When the patient has responded to GVOKE, give oral carbohydrates to restore the liver glycogen and prevent recurrence of hypoglycemia.

• Each GVOKE HypoPen, GVOKE PFS, or GVOKE Kit product contains a single dose of glucagon. Do not reuse and discard any unused portion.

Recommended Dosage in Adult and Pediatric Patients Aged 12 Years and Older to Treat Severe Hypoglycemia

To treat severe hypoglycemia in patients 12 years of age and older with diabetes, use GVOKE HypoPen, GVOKE PFS, or GVOKE Kit:

- The recommended dose is 1 mg administered by subcutaneous injection into lower abdomen, outer thigh, or outer upper arm.
- If there has been no response after 15 minutes, an additional 1 mg dose from a new GVOKE HypoPen, GVOKE PFS, or GVOKE Kit may be administered while waiting for emergency assistance.

Recommended Dosage in Pediatric Patients Aged 2 to less than 12 Years of Age to Treat Severe Hypoglycemia

To treat severe hypoglycemia in pediatric patients aged 2 to less than 12 years of age with diabetes, use GVOKE HypoPen, GVOKE PFS, or GVOKE Kit.

- The recommended dose in those who weigh:
 - Less than 45 kg is 0.5 mg administered by subcutaneous injection into the lower abdomen, outer thigh, or outer upper arm.
 - o 45 kg or greater is 1 mg administered by subcutaneous injection into the lower abdomen, outer thigh, or outer upper arm.
- If there has been no response after 15 minutes, an additional 0.5 mg dose (for those who weigh less than 45 kg) or 1 mg dose (for those who weigh 45 kg or greater) from a new GVOKE HypoPen, GVOKE PFS, or GVOKE Kit may be administered while waiting for emergency assistance.

2.2 Dosage and Administration of GVOKE VialDx for Intravenous Use as a Diagnostic Aid in Adults

Important Administration Instructions

For use as a diagnostic aid during radiologic examinations to temporarily inhibit movement of the gastrointestinal tract, use GVOKE VialDx. GVOKE VialDx is only for intravenous use under medical supervision.

- Must be diluted with 0.9% Sodium Chloride Injection prior to administration. Using a syringe, draw 0.2 mL from the GVOKE VialDx vial and dispense into a separate empty sterile container containing 2 mL of 0.9% Sodium Chloride Injection.
- Gently swirl the container until the solution is thoroughly mixed. The mixed solution should be clear and colorless to pale yellow. Inspect visually for particulate matter and discoloration.
- The final concentration of the diluted solution is 0.45 mg/mL of glucagon. Draw the required dose from the container into a syringe for administration (see below for dosage recommendations).

- If not used immediately, diluted GVOKE VialDx may be stored for up to 8 hours after initial dilution.
- Inject the solution intravenously via a 1-minute slow push using consistent pressure.
- After the end of the diagnostic procedure, give oral carbohydrates to patients who have been fasting, if this is compatible with the diagnostic procedure.
- GVOKE VialDx contains a single dose of glucagon. Do not reuse. Discard any unused portion.

Recommended Dosage in Adults as a Diagnostic Aid

For use as a diagnostic aid during radiologic examinations to temporarily inhibit movement of the gastrointestinal tract, use GVOKE VialDx. The recommended intravenous dose for relaxation of the [see Clinical Pharmacology(12.2)]:

- Stomach, duodenal bulb, duodenum, and small bowel is 0.2 mg to 0.5 mg
- Colon is 0.5 mg to 0.75 mg

The onset of action after an injection will depend on the organ under examination [see Clinical Pharmacology (12.2)].

3 DOSAGE FORMS AND STRENGTHS

GVOKE HypoPen, GVOKE PFS, GVOKE Kit (these three presentations are also referred to as GVOKE in this labeling), and GVOKE VialDx are clear, colorless to pale yellow solutions.

Subcutaneous Injection:

- Injection: 0.5 mg/0.1 mL single-dose prefilled autoinjector (GVOKE HypoPen)
- Injection: 1 mg/0.2 mL single-dose prefilled autoinjector (GVOKE HypoPen)
- Injection: 1 mg/0.2 mL single-dose prefilled syringe (GVOKE PFS)
- Injection: 1 mg/0.2 mL single-dose vial and syringe kit (GVOKE Kit)

<u>Intravenous Injection:</u>

• Injection: 1 mg/0.2 mL single-dose vial (GVOKE VialDx)

4 CONTRAINDICATIONS

GVOKE and GVOKE VialDx are contraindicated in patients with:

- Pheochromocytoma because of the risk of substantial increase in blood pressure [see Warnings and Precautions (5.1)]
- Insulinoma because of the risk of hypoglycemia [see Warnings and Precautions (5.2)]
- Prior hypersensitivity reaction to glucagon or to any of the excipients in GVOKE or GVOKE VialDx. Serious hypersensitivity reactions have been reported with glucagon and include anaphylactic shock with breathing difficulties and hypotension [see Warnings and Precautions (5.3)].

GVOKE VialDx for use as a diagnostic aid is also contraindicated in patients with glucagonoma because of risk of hypoglycemia [see Warnings and Precautions (5.8)].

5 WARNINGS AND PRECAUTIONS

5.1 Substantial Increase in Blood Pressure in Patients with Pheochromocytoma

GVOKE and GVOKE VialDx are contraindicated in patients with pheochromocytoma because glucagon may stimulate the release of catecholamines from the tumor [see Contraindications (4)]. If the patient develops a substantial increase in blood pressure and a previously undiagnosed pheochromocytoma is suspected, 5 to 10 mg of phentolamine mesylate, administered intravenously, has been shown to be effective in lowering blood pressure.

5.2 Hypoglycemia in Patients with Insulinoma

In patients with insulinoma, administration of glucagon may produce an initial increase in blood glucose; however, glucagon administration may directly or indirectly (through an initial rise in blood glucose) stimulate exaggerated insulin release from an insulinoma and cause hypoglycemia. GVOKE and GVOKE VialDx are contraindicated in patients with insulinoma [see Contraindications (4)]. If a patient develops symptoms of hypoglycemia after a dose of GVOKE or GVOKE VialDx, give glucose orally or intravenously.

5.3 Serious Hypersensitivity Reactions

Serious hypersensitivity reactions have been reported with glucagon products, including generalized rash, and in some cases anaphylactic shock with breathing difficulties and hypotension. Discontinue GVOKE or GVOKE VialDx if symptoms of serious hypersensitivity reactions occur. Advise patients and/or caregivers to seek immediate medical attention if the patient experiences any symptoms of serious hypersensitivity reactions. GVOKE and GVOKE VialDx are contraindicated in patients with a prior hypersensitivity reaction to glucagon, or any of the excipients in GVOKE and GVOKE VialDx/see Contraindications (4)].

5.4 Lack of Efficacy with Subcutaneous Use for Severe Hypoglycemia in Patients with Decreased Hepatic Glycogen

Patients with insufficient hepatic stores of glycogen may not respond to GVOKE for the treatment of severe hypoglycemia [see Clinical Pharmacology (12.2)]. Insufficient hepatic stores of glycogen may be present in conditions such as states of starvation, or in patients with adrenal insufficiency or chronic hypoglycemia.

5.5 Necrolytic Migratory Erythema

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. GVOKE and GVOKE VialDx are not approved for continuous 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.

5.6 Hyperglycemia with Intravenous Use as a Diagnostic Aid in Patients with Diabetes Mellitus

GVOKE VialDx in patients with diabetes mellitus may cause hyperglycemia. Monitor patients with diabetes for changes in blood glucose levels during treatment with GVOKE VialDx and treat hyperglycemia, if indicated.

5.7 Blood Pressure and Heart Rate Increases with Intravenous Use as a Diagnostic Aid in Patients with Cardiac Disease

GVOKE VialDx may increase myocardial oxygen demand, blood pressure, and pulse rate which may be life threatening in patients with cardiac disease. Cardiac monitoring is recommended in patients with cardiac disease during use of GVOKE VialDx as a diagnostic aid, and an increase in blood pressure and pulse rate may require therapy.

5.8 Hypoglycemia in Patients with Glucagonoma with Intravenous Use as a Diagnostic Aid

Use of GVOKE VialDx in patients with glucagonoma may cause secondary hypoglycemia. GVOKE VialDx is contraindicated in patients with glucagonoma when used as a diagnostic aid [see Contraindications (4)]. Test patients suspected of having glucagonoma for blood levels of glucagon prior to administration of GVOKE VialDx, and monitor for changes in blood glucose levels during treatment. If a patient develops symptoms of hypoglycemia after administration of GVOKE VialDx, administer glucose orally or intravenously.

6 ADVERSE REACTIONS

The following serious adverse reactions are described below and elsewhere in labeling:

- Substantial Increase in Blood Pressure in Patients with Pheochromocytoma [see Warnings and Precautions (5.1)]
- Hypoglycemia in Patients with Insulinoma [see Warnings and Precautions (5.2)]
- Serious Hypersensitivity Reactions [see Warnings and Precautions (5.3)]
- Lack of Efficacy With Subcutaneous Use for Severe Hypoglycemia in Patients with Decreased Hepatic Glycogen [see Warnings and Precautions (5.4)]
- Necrolytic Migratory Erythema [see Warnings and Precautions (5.5)]
- Hyperglycemia with Intravenous Use as a Diagnostic Aid in Patients with Diabetes Mellitus [see Warnings and Precautions (5.6)]
- Blood Pressure and Heart Rate Increases with Intravenous Use as a Diagnostic Aid in Patients with Cardiac Disease [see Warnings and Precautions (5.7)]
- Hypoglycemia in Patients with Glucagonoma with Intravenous Use as a Diagnostic Aid [see Warnings and Precautions (5.8)]

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of GVOKE and GVOKE VialDx cannot be directly compared to rates in the clinical trials of other drugs and may not reflect the rates observed in practice.

GVOKE for Subcutaneous Use for the Treatment of Severe Hypoglycemia in Adult and Pediatric Patients 2 Aged Years and Older with Type 1 Diabetes Mellitus

Adverse Reactions in Adult Patients

The safety of GVOKE for subcutaneous use for the treatment of severe hypoglycemia in adults with diabetes was evaluated in two randomized, blinded, 2-way crossover studies conducted in adults with type 1 diabetes mellitus. In total, 154 patients received a subcutaneous injection of GVOKE [see Clinical Studies (14.1)].

The most common adverse reactions that occurred in 2% or more of adults treated with GVOKE during these two clinical trials are listed in Table 1.

Table 1: Adverse Reactions that Occurred ≥ 2% in Adult Patients with Type 1 Diabetes Mellitus Treated with GVOKE^a

	GVOKE 1 mg dose
	(N = 154)
Nausea	30%
Vomiting	16%
Injection site edema raised 1 mm or greater	7%
Headache	5%

^a Adverse Reactions that occurred within 12 hours.

Injection site pain was reported by 1% of GVOKE-treated patients.

Hypertension and tachycardia have occurred with glucagon treatment.

Adverse Reactions in Pediatric Patients Aged 2 Years and Older

The safety of GVOKE for the treatment of severe hypoglycemia in patients with diabetes was evaluated in one single-arm, open-label, study in 31 pediatric patients with type 1 diabetes mellitus [see Clinical Studies (14.2)].

The data in Table 2 reflect the exposure of 31 pediatric patients to 0.5 mg or 1 mg of GVOKE given subcutaneously. The most common adverse reactions that occurred in \geq 2% of GVOKE-treated pediatric patients aged 2 years and older are listed in Table 2.

Table 2: Adverse Reactions that Occurred ≥ 2% in GVOKE-treated Pediatric Patients Aged 2 Years and Older with Type 1 Diabetes Mellitus^a

	2 to 6 years of age	6 to 12 years of	12 to 18 years	Total
	(0.5 mg dose)	age	of age	N = 31
	N=7	(0.5 mg dose)	(1 mg dose)	
		N = 13	N = 11	
Nausea	43%	54%	36%	45%
Hypoglycemia	29%	54%	27%	39%
Vomiting	14%	23%	18%	19%

	2 to 6 years of age	6 to 12 years of	12 to 18 years	Total
	(0.5 mg dose)	age	of age	N = 31
	N=7	(0.5 mg dose)	(1 mg dose)	
		N = 13	N = 11	
Headache	0%	15%	0%	7%
Abdominal pain	0%	8%	0%	3%
Hyperglycemia	14%	8%	0%	7%
Injection site discomfort	0%	8%	0%	3%
Injection site reaction	0%	0%	9%	3%
Urticaria	0%	8%	0%	3%

^a Adverse Reactions that occurred within 12 hours.

GVOKE VialDx for Intravenous Use As a Diagnostic Aid in Adults

The safety of GVOKE VialDx for intravenous use as a diagnostic aid in adults was evaluated in an open-label single-dose study in 83 adult healthy volunteers. Table 3 displays the most common adverse reactions that occurred in 5% or greater in healthy volunteers who received 0.75 mg of GVOKE VialDx intravenously.

Table 3: Adverse Reactions that Occurred ≥ 5 % in Adult Healthy Volunteers Who Received 0.75 mg of GVOKE VialDx for Intravenous Use as a Diagnostic Aid

	N=83
Nausea	37.3%
Dysgeusia	18.1%
Headache	10.8%
Hot flush	9.6%
Dizziness	8.4%

6.2 Postmarketing Experience

Additional adverse reactions have been identified during post-approval use of glucagon. Because these reactions are reported voluntarily from a population of uncertain size, it is generally not possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

- Necrolytic migratory erythema (NME) cases have been reported postmarketing in patients receiving continuous infusion of glucagon.
- Hypoglycemia and hypoglycemic coma. Patients taking indomethacin may be more likely to experience hypoglycemia following glucagon administration [see Drug Interactions (7)].

7 DRUG INTERACTIONS

Table 4: Clinically Significant Drug Interaction with GVOKE and GVOKE VialDx.

D . DI I	
Beta-Blockers	
Clinical	Patients taking beta-blockers may have a transient increase in pulse and blood
Impact:	pressure when given GVOKE or GVOKE VialDx.
Intervention:	The increase in blood pressure and heart rate may require therapy in patients
	with coronary artery disease.
Insulin	
Clinical	Insulin acts antagonistically to glucagon.
Impact:	
Intervention:	Monitor blood glucose when GVOKE VialDx is used as a diagnostic aid in
	patients receiving insulin.
Indomethacin	-
Clinical	In patients taking indomethacin, GVOKE may lose its ability to raise blood
Impact:	glucose or may even produce hypoglycemia.
Intervention: Monitor blood glucose levels during glucagon treatment of patients taking	
	indomethacin.
Anticholinergi	c Drugs
Clinical	The concomitant use of anticholinergic drugs and GVOKE VialDx increases
Impact:	the risk of gastrointestinal adverse reactions due to additive effects on
_	inhibition of gastrointestinal motility.
Intervention:	Concomitant use of anticholinergic drugs with GVOKE VialDx is not
	recommended.
Warfarin	
Clinical	GVOKE and GVOKE Vial Dx may increase the anticoagulant effect of
Impact:	warfarin.
_	
Intervention:	Monitor patients for unusual bruising or bleeding, as adjustments in warfarin
	dosage may be required.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Available data from case reports and a small number of observational studies with glucagon use in pregnant women over decades of use have not identified a drug-associated risk of major birth defects, miscarriage or adverse maternal or fetal outcomes. Multiple small studies have demonstrated a lack of transfer of pancreatic glucagon across the human placental barrier during early gestation. In a rat reproduction study, no embryofetal toxicity was observed with glucagon administered by injection during the period of organogenesis at doses representing up to 40 times the human dose, based on body surface area (mg/m²) (see Data).

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. In the U.S. general population, the estimated background risk of major

birth defects and miscarriage in clinically recognized pregnancies is 2-4% and 15-20%, respectively.

Data

Animal Data

In pregnant rats given animal sourced glucagon twice-daily by injection at doses up to 2 mg/kg (up to 40 times the human dose based on body surface area extrapolation, mg/m²) during the period of organogenesis, there was no evidence of increased malformations or embryofetal lethality.

8.2 Lactation

Risk Summary

There is no information available on the presence of glucagon in human or animal milk, the effects of the drug on the breastfed infant, or the effects of the drug on milk production. However, glucagon is a peptide and would be expected to be broken down to its constituent amino acids in the infant's digestive tract and is therefore, unlikely to cause harm to an exposed infant.

8.4 Pediatric Use

The safety and effectiveness of GVOKE for subcutaneous use for the treatment of severe hypoglycemia in patients with diabetes have been established in pediatric patients aged 2 years and older. Use of GVOKE for this indication is supported by evidence from two adequate and well-controlled studies in adults with type 1 diabetes mellitus [see Clinical Studies (14.1)] and from a study in 31 pediatric patients ages 2 and older with type 1 diabetes mellitus [see Clinical Studies (14.2)].

The safety and effectiveness of GVOKE for subcutaneous use for the treatment of severe hypoglycemia in patients with diabetes have not been established in pediatric patients younger than 2 years of age.

Safety and effectiveness of GVOKE VialDx for intravenous use as a diagnostic aid during radiologic examinations to temporarily inhibit movement of the gastrointestinal tract in pediatric patients have not been established.

8.5 Geriatric Use

Clinical studies of GVOKE and GVOKE VialDx did not include sufficient numbers of patients aged 65 and over to determine whether they respond differently from younger adult patients.

10 OVERDOSAGE

If overdosage occurs, the patient may experience nausea, vomiting, inhibition of GI tract motility, increase in blood pressure, and pulse rate. In case of suspected overdosing, serum potassium may decrease and should be monitored and corrected if needed. If the patient develops a dramatic increase in blood pressure, phentolamine mesylate has been shown to be effective in lowering blood pressure for the short time that control would be needed. In the event of an overdose of GVOKE, consider contacting the Poison Help line (1-800-222-1222) or a medical toxicologist for additional overdosage management recommendation.

11 DESCRIPTION

Glucagon is an antihypoglycemic agent and a gastrointestinal motility inhibitor. Glucagon is a single chain containing 29 amino acid residues and has a molecular weight of 3483 and is identical to human glucagon. Glucagon is of synthetic origin produced by solid phase synthesis.

Its molecular formula is $C_{153}H_{225}N_{43}O_{49}S$ with the following structure:

GVOKE HypoPen, GVOKE PFS, and GVOKE Kit

GVOKE HypoPen (glucagon) injection, GVOKE PFS (glucagon) injection, and GVOKE Kit (glucagon) injection (these three presentations are also referred to as GVOKE (glucagon) injection in this labeling) are clear, colorless to pale yellow, sterile solutions for subcutaneous injection.

- GVOKE HypoPen and GVOKE PFS: Each 0.2 mL contains 1 mg of glucagon, 11.1 mg of trehalose dihydrate NF, and 1.2 mg of 1N sulfuric acid in 209 mg dimethyl sulfoxide diluent.
- GVOKE HypoPen: Each 0.1 mL contains 0.5 mg of glucagon, 5.6 mg of trehalose dihydrate NF, and 0.6 mg of 1N sulfuric acid in 104 mg dimethyl sulfoxide diluent.
- GVOKE Kit: Each 0.2 mL contains 1 mg of glucagon, 11.1 mg of trehalose dihydrate NF, 5.8 mg of mannitol USP, and 1.32 mg of 1N sulfuric acid in 205 mg dimethyl sulfoxide diluent.

GVOKE VialDx

GVOKE VialDx (glucagon) injection is a clear, colorless to pale yellow, sterile solution for intravenous injection available in 1 mg per 0.2 mL vial.

Each 0.2 mL of GVOKE VialDx contains 1 mg of glucagon, 11.1 mg of trehalose dihydrate NF, 5.8 mg of mannitol USP, and 1.32 mg of 1N sulfuric acid in 205 mg dimethyl sulfoxide diluent prior to dilution with 0.9% Sodium Chloride [for dilution instructions, see Dosage and Administration (2.2)].

The diluted solution contains 0.45 mg per mL glucagon, 5 mg per mL trehalose dihydrate, 93.2 mg per mL dimethyl sulfoxide, 2.6 mg per mL mannitol, and 0.60 mg per mL 1 N sulfuric acid.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

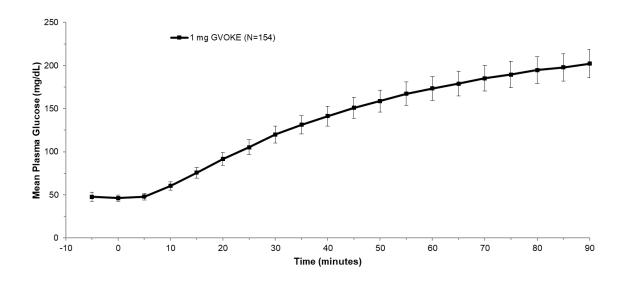
Glucagon increases blood glucose concentration by activating hepatic glucagon receptors, thereby stimulating glycogen breakdown and release of glucose from the liver. Hepatic stores of glycogen are necessary for glucagon to produce an antihypoglycemic effect. Extrahepatic effects of glucagon include relaxation of the smooth muscle of the stomach, duodenum, small bowel, and colon.

12.2 Pharmacodynamics

<u>GVOKE</u> for Subcutaneous Use for the Treatment of Severe Hypoglycemia in Patients with Type 1 Diabetes Mellitus:

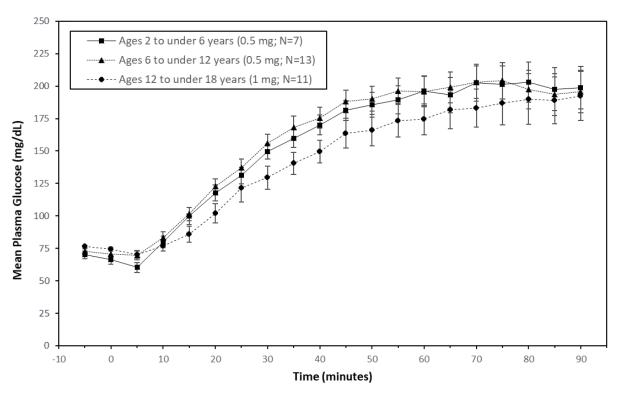
After subcutaneous administration of 1 mg GVOKE in adult patients with type 1 diabetes, the mean maximum glucose increase from baseline was 176 mg/dL (see Figure 1).

Figure 1: Plasma Glucose (mean ± standard error of the mean) vs. Time After Subcutaneous Administration of 1 mg of GVOKE in Adult Patients with Type 1 Diabetes Mellitus



In pediatric patients with type 1 diabetes mellitus (2 to less than 18 years), the mean maximum glucose increase from baseline was 134 mg/dL (2 to less than 6 years), 145 mg/dL (6 to less than 12 years), and 123 mg/dL (12 to less than 18 years) (see Figure 2).

Figure 2: Plasma Glucose (mean ± standard error of the mean) vs. Time After Subcutaneous Administration of GVOKE in Pediatric Patients with Type 1 Diabetes Mellitus



<u>GVOKE VialDx</u> Table 5 presents the pharmacodynamic properties of another glucagon product after intravenous administration.

Table 5: Pharmacodynamic Properties of Another Glucagon Product After Intravenous Administration

Route of Administration	Dose ^a	Time of Maximal Glucose Concentration	Time of Onset of Action for GI Smooth Muscle Relaxation	Duration of Smooth Muscle Relaxation
Intravenous	0.25 to 0.5 mg	5 to 20 minutes	45 seconds	9 to 17 minutes

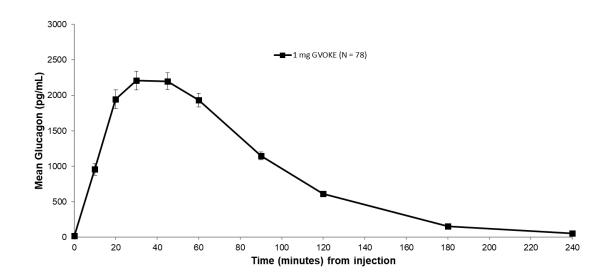
^aDose is determined based on the length of the procedure

12.3 Pharmacokinetics

Absorption

Subcutaneous injection of 1 mg GVOKE in adult type 1 diabetes mellitus patients resulted in a mean glucagon C_{max} of 2481.3 pg/mL, t_{max} of 50 minutes and AUC_{0-240min} of 3454.6 pg*min/mL (see Figure 3).

Figure 3: Plasma Glucagon Concentration (mean ± standard error of the mean) vs. Time After Subcutaneous Administration of 1 mg of GVOKE in Adults with Type 1 Diabetes Mellitus



Distribution

The apparent volume of distribution was in the range of 137-2425 L.

Elimination

The half-life of GVOKE was determined to be 32 minutes.

Metabolism

Glucagon is extensively degraded in liver, kidney, and plasma.

Excretion

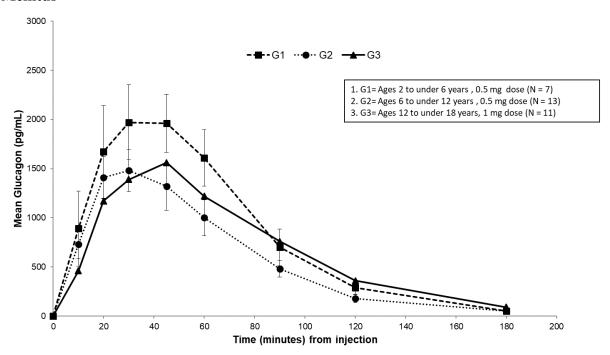
Urinary excretion of intact glucagon has not been measured.

Specific Populations

Pediatrics

Subcutaneous injection of 0.5 mg GVOKE in patients with type 1 diabetes mellitus ages 2 to under 6 years resulted in a mean glucagon C_{max} of 2300 pg/mL, t_{max} of 41 minutes, and AUC_{0-180min} of 138900 pg/mL*min. Subcutaneous injection of 0.5 mg GVOKE in patients with type 1 diabetes ages 6 to under 12 years resulted in a mean C_{max} of 1600 pg/mL, median t_{max} of 34 minutes and AUC_{0-180min} of 104700 pg/mL*min. Subcutaneous injection of 1 mg GVOKE in patients with type 1 diabetes ages 12 to less than 18 years resulted in a mean C_{max} of 1900 pg/mL, t_{max} of 51 minutes AUC_{0-180min} of 134300 pg/mL*min. Mean plasma glucagon levels were similar across the age groups following age appropriate doses of GVOKE (see Figure 4).

Figure 4: Plasma Glucagon Concentration (mean ± standard error of the mean) vs. Time After Subcutaneous Administration of GVOKE in Pediatric Patients with Type 1 Diabetes Mellitus



13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Long term studies in animals to evaluate carcinogenic potential have not been performed. Recombinant glucagon was positive in the bacterial Ames assay. It was determined that an increase in colony counts was related to technical difficulties in running this assay with peptides. Studies in rats have shown that glucagon does not cause impaired fertility.

14 CLINICAL STUDIES

14.1 Adult Patients with Type 1 Diabetes Mellitus for the Treatment of Severe Hypoglycemia

GVOKE was evaluated in adult patients aged 18 to 74 years with type 1 diabetes mellitus in two multi-center 2-way crossover studies: Study A was double-blinded with 80 patients, and Study B

was single-blinded with 81 patients. Both studies involved 2 clinic visits 7 to 28 days apart, with random assignment to receive GVOKE 1 mg subcutaneous injection during one session and glucagon 1 mg subcutaneous injection (subcutaneous glucagon) during the other. In these studies, 154 patients received GVOKE and 157 patients received subcutaneous glucagon. A total of 152 patients received both GVOKE and subcutaneous glucagon.

The efficacy of GVOKE was compared to subcutaneous glucagon in patients who were in a state of insulin--induced hypoglycemia via insulin infusion with target plasma glucose less than 50 mg/dL. In Study A, mean plasma glucose at time of glucagon administration was 44.8 mg/dL and 45.2 mg/dL for the GVOKE and subcutaneous glucagon groups, respectively. In Study B, mean plasma glucose at time of glucagon administration was 47.7 mg/dL and 48.7 mg/dL for the GVOKE and subcutaneous glucagon groups, respectively.

Treatment "success" was defined as plasma glucose increase from mean value at time of glucagon administration to absolute value greater than 70 mg/dL or relative increase of 20 mg/dL or greater, at 30 minutes after glucagon administration. In a pooled analysis of Study A and Study B, the proportion of patients who achieved treatment "success" was 98.7 % in the GVOKE group and 100% in the subcutaneous glucagon group and the comparison between groups met the pre-specified non-inferiority margin. A summary of treatment "success" rates is shown in Table 6.

The mean time to treatment "success" was 13.8 minutes in the GVOKE group and 10 minutes in the subcutaneous glucagon group.

Table 6: Adult Patients with Type 1 Diabetes Mellitus Treatment "Success" in Studies A and B

	Study A (n=80)		Study B (n=81)	
	GVOKE	subcutaneous glucagon	GVOKE	subcutaneous glucagon
Treatment Success-n (%) ^a	76 (97 %)	79 (100%)	76 (100%)	78 (100%)
Glucose criteria met- n (%) Greater than 70 mg/dL 20 mg/dL or greater increase from baseline	74 (95%) 76 (97%)	79 (100%) 79 (100%)	76 (100%) 76 (100%)	78 (100%) 78 (100%)

^a Treatment success was defined as blood glucose greater than 70 mg/dL or an increase of blood glucose by 20 mg/dL or greater from baseline. The efficacy analysis population consisted of all patients who received both doses of the study drug.

^b Percentage based on number of patients from both studies.

14.2 Pediatric Patients Aged 2 Years and Older with Type 1 Diabetes Mellitus for the Treatment of Severe Hypoglycemia

GVOKE was evaluated in a study in 31 pediatric patients with type 1 diabetes mellitus. Pediatric patients were administered insulin to induce a plasma glucose of less than 80 mg/dL, following which patients ages 2 to under 12 years of age received a 0.5 mg subcutaneous dose of GVOKE and patients ages 12 and older received a 0.5 mg or 1 mg subcutaneous dose of GVOKE.

All evaluable pediatric patients (30/30) achieved a target glucose increase of at least 25 mg/dL. Following administration, plasma glucose levels over time showed similar glucose responses for patients in each age group. A summary of plasma glucose results is shown in Table 7.

Table 7: Pediatric Patients with Type 1 Diabetes Mellitus Plasma Glucose by Age Group

Age Group	GVOKE Dose	Plasma Glucose (mg/dL) Mean (SD)		/dL)
	Dose	Baseline	30 minutes	Change
2 to under 6 years (n=7)	0.5 mg	68.1 (8.3)	149.6 (15.2)	81.4 (18.3)
6 to under 12 years (n=13)	0.5 mg	71.6 (7.6)	155.8 (26.5)	84.2 (25.3)
12 to under 18 years	0.5 mg	75.2(2.1)	128.1(20.46)	52.9(19.88)
(n=11)	1 mg	74.5(4.84)	129.5 (29.5)	55 (27.3)

SD=standard deviation

16 HOW SUPPLIED/STORAGE AND HANDLING

GVOKE (glucagon) injection is supplied as a clear, colorless to pale yellow solution in the following configurations:

Strength	Package Size	NDC number	
For Subcutaneous U	ise		
0.5 mg per 0.1 mL	1 single-dose GVOKE HypoPen auto-injector	72065-120-11	
0.5 mg per 0.1 mL	2 single-dose GVOKE HypoPen auto-injectors	72065-120-12	
1 mg per 0.2 mL	1 single-dose GVOKE HypoPen auto-injector	72065-121-11	
1 mg per 0.2 mL	2 single-dose GVOKE HypoPen auto-injectors	72065-121-12	
1 mg per 0.2 mL	1 single-dose GVOKE PFS prefilled syringe	72065-131-11	
1 mg per 0.2 mL	2 single-dose GVOKE PFS prefilled syringes	72065-131-12	
1 mg per 0.2 mL	1 single-dose GVOKE Kit vial and syringe kit	72065-140-11	
For Intravenous Use			
1 mg per 0.2 mL	1 single-dose GVOKE VialDx vial	0517-2901-01	

1 mg per 0.2 mL	10 single-dose GVOKE VialDx vials	0517-2901-10
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Store GVOKE HypoPen, GVOKE PFS, and GVOKE Kit (these three presentations are referred to as GVOKE in this labeling), and GVOKE VialDx at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C and 30°C (59°F and 86°F). Do not refrigerate or freeze. Do not expose to extreme temperatures.

- Store the GVOKE HypoPen and GVOKE PFS in the original sealed foil pouch until time of use.
- Store the GVOKE Kit vial and pouched syringe together in original carton until time of use.
- Store GVOKE VialDx vials in original carton until time of use. Discard any unused portion.

17 PATIENT COUNSELING INFORMATION

Advise the patient and family members or caregivers to read the GVOKE FDA-approved patient labeling (Patient Information and Instructions for Use).

Recognition of Severe Hypoglycemia

Inform patients with diabetes mellitus and family members or caregivers on how to recognize the signs and symptoms of severe hypoglycemia and the risks of prolonged hypoglycemia.

Serious Hypersensitivity Reactions

Inform patients that serious hypersensitivity reactions can occur with GVOKE and GVOKE VialDx. Advise patients to seek immediate medical attention if they experience any symptoms of serious hypersensitivity reactions [see Warnings and Precautions (5.3)].

Hyperglycemia with Intravenous Use as a Diagnostic Aid in Patients with Diabetes Mellitus

Inform patients with diabetes mellitus that treatment with GVOKE VialDx may increase their risk of hyperglycemia [see Warnings and Precautions (5.6)].

Blood Pressure and Heart Rate Increase with Intravenous Use as a Diagnostic Aid in Patients with Cardiac Disease

Inform patients with cardiac disease that intravenous treatment with GVOKE VialDx may increase their risk of a transient increase in blood pressure and heart rate [see Warnings and Precautions (5.7)].

GVOKE® is a trademark of Xeris Pharmaceuticals, Inc.

GVOKE is distributed by Xeris Pharmaceuticals, Inc.

For information contact:

Xeris Pharmaceuticals, Inc.

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GVOKE VialDxTM is distributed by: American Regent, Inc. Shirley, NY 11967 PATIENT INFORMATION
GVOKE® (Gee-voke)
(glucagon)
injection, for subcutaneous use

GVOKE (Gee-voke) VIALDX[™] (glucagon) injection, for intravenous use

What is GVOKE?

GVOKE is a prescription medicine used:

to treat very low blood sugar (severe hypoglycemia) in people with diabetes aged 2 years and older.

It is not known if GVOKE is safe and effective in children under 2 years of age.

What is GVOKE ViaIDx?

GVOKE VialDx is a prescription medicine used:

• to stop stomach movement (gastrointestinal motility inhibitor) in adults receiving radiology exams.

It is not known if GVOKE VialDx is safe and effective in children.

Do not use GVOKE or receive GVOKE VialDx if you:

- have a tumor in the gland on top of your kidneys (adrenal gland) called pheochromocytoma.
- have a tumor in your pancreas called insulinoma.
- have had an allergic to glucagon or any of the ingredients in GVOKE or GVOKE VialDx. See the end of this Patient
 Information leaflet for a complete list of ingredients in GVOKE and GVOKE VialDx.

Do not receive GVOKE VialDx if you:

· have tumors in your pancreas called Glucagonomas.

Before using GVOKE or receiving GVOKE VialDx, tell your healthcare provider about all of your medical conditions, including if you:

- have adrenal gland problems.
- have a tumor in your pancreas.
- have not had food or water for a long time (prolonged fasting or starvation).
- have low blood sugar that does not go away (chronic hypoglycemia).
- have diabetes mellitus.
- have heart problems.
- are pregnant or plan to become pregnant. It is not known if GVOKE or GVOKE VialDx will harm your unborn baby.
- are breastfeeding or plan to breastfeed. It is not known if GVOKE passes into your breast milk. You and your healthcare provider should decide if you can use GVOKE while breastfeeding.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. GVOKE and GVOKE VialDx may affect the way other medicines work, and other medicines may affect how GVOKE and GVOKE VialDx works. Know the medicines you take. Keep a list of them to show your healthcare provider and pharmacist when you get a new medicine.

How should I use GVOKE?

- Read the detailed Instructions for Use that comes with GVOKE.
- Use GVOKE exactly how your healthcare provider tells you to use it.
- Make sure your relatives, close friends, and caregivers know where you store GVOKE and how to use it the right way **before** you need their help.
- Act quickly. Having very low blood sugar for a period of time may be harmful.
- After giving GVOKE, your caregiver should call for emergency medical help right away.
- When you are able to safely swallow food or drink, your caregiver should give you 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 you do not respond to treatment after 15 minutes, your caregiver may give you another dose, if available.

Tell your healthcare provider each time you use GVOKE. Low blood sugar may happen again after receiving an injection of GVOKE. Your diabetes medicine may need to be changed.

How will I receive GVOKE ViaIDx?

GVOKE VialDx will be given by a healthcare provider through a needle placed in your vein (IV infusion).

What are the possible side effects of GVOKE and GVOKE VialDx? GVOKE and GVOKE VialDx may cause serious side effects, including:

- **high blood pressure.** GVOKE and GVOKE VialDx can cause high blood pressure in certain people with tumors in their adrenal glands.
- **low blood sugar.** GVOKE and GVOKE VialDx can cause low blood sugar in people with certain tumors in their pancreas called insulinomas by making too much insulin in their bodies. GVOKE VialDx can also cause low blood sugar in people with certain tumors called glucagonomas. Signs and symptoms of low blood sugar may include:

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

anxiety
 tingling in the hands, feet, lips, or o headache tongue

o tremor o irritability

• **serious allergic reaction.** Serious allergic reactions have happened in some people using products with glucagon, the active ingredient in GVOKE and GVOKE VialDx. Stop using GVOKE and call your healthcare provider or get medical help right away if you have a serious allergic reaction. If you are receiving GVOKE VialDx for a radiology exam and have a serious allergic reaction, your healthcare provider will stop the IV infusion. Symptoms of a serious allergic reaction include:

o rash o difficulty breathing o low blood pressure

- **high blood sugar with GVOKE VialDx.** If you have diabetes and receive GVOKE VialDx before your radiology exam it can cause high blood sugar. Your healthcare provider will check your blood sugar levels during treatment with GVOKE VialDx.
- heart problems with GVOKE VialDx. If you have heart problems and receive GVOKE VialDx before your radiology
 exam, you may have an increase in your blood pressure and pulse while receiving GVOKE VialDx. This could be life
 threatening. Your healthcare provider will monitor your heart during treatment with GVOKE VialDx.

The most common side effects of GVOKE in adults include:

nauseaswelling at the injection site

vomitingheadache

The most common side effects of GVOKE in children include:

o nausea o high blood sugar o abdominal pain o pain or redness at the injection site

○ low blood sugar ○ vomiting ○ headache ○ itching

The most common side effects of GVOKE VialDx include:

o nausea o change in the way foods taste or loss of taste (dysgeusia) o headache

o dizziness o hot flush

These are not all the possible side effects of GVOKE and GVOKE VialDx. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store GVOKE?

- Store GVOKE in the original container until time of use.
- Store at room temperature between 68°F to 77°F (20° C to 25°C).

• Do not refrigerate or freeze.

Keep GVOKE and all medicines out of the reach of children.

General information about the safe and effective use of GVOKE.

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

What are the ingredients in GVOKE and GVOKE VialDx?

Active ingredient: glucagon.

Inactive ingredients: trehalose dihydrate NF, sulfuric acid NF, mannitol USP (kit only), and dimethyl sulfoxide.

GVOKE is distributed by: Xeris Pharmaceuticals, Inc., Chicago, IL For more information go to www.xerispharma.com or call 1-877-937-4737. GVOKE ViaIDx is distributed by American Regent, Inc.