North Carolina Medical Board and North Carolina Board of Pharmacy Protocols for Glucagon July 21, 2023

Pursuant to S.L. 2021-110, these protocols adopted by the North Carolina Medical Board and the North Carolina Board of Pharmacy authorize immunizing pharmacists practicing pharmacy in the state of North Carolina and licensed by the North Carolina Board of Pharmacy to dispense, deliver, or administer glucagon as directed below.

Glucagon Dispensing Protocol				
Eligible	Glucagon is indicated for the treatment of hypoglycemia in people unable or unwilling to consume carbohydrates by			
Candidates	mouth. Pharmacists may proactively identify patients at risk for hypoglycemia and educate the patient/caregiver			
	about available treatments for hypoglycemia.			
	Persons who voluntarily request glucagon and are at risk of experiencing severe hypoglycemia*, including, but not			
	limited to:			
	o Persons with an insulin prescription			
	o Persons at risk for hypoglycemia unawareness			
	 Persons with low cognition or declining cognition and diabetes Persons with recurrent hypoglycemia 			
	o Persons with reduced ability to recognize hypoglycemia symptoms and effectively communicate their needs			
	 Persons who voluntarily request glucagon and are a close personal contact of a person at risk of experiencing severe 			
	hypoglycemia*	request glacagor	rana are a close personal contact of a person	ration of experiencing severe
	 Persons who voluntarily request glucagon and are in the position to assist a person at risk of experiencing severe 			
	hypoglycemia*			
	 These protocols may be used for persons < 18 years of age with a parent or legal guardian consent. 			
	• Use in pediatric patients is allowed in accordance with denoted appropriate age and dosage recommendations below.			
	*Severe hypoglycemia is defined as blood glucose < 54 mg/dL (3.0 mmol/L) or altered mental and/or physical functioning			
	that requires assistance from another person for recovery.			
	(American Diabetes Association. 6. Glycemic targets: Standards of Medical Care in Diabetes—2021. Diabetes Care 2021;44(Suppl. 1):S73–			
Route(s) of	S84) Intramuscular (IM)			
Administration	[may also be administ		Subcutaneous (SQ)	Intranasal (IN)
7.4	(SQ)]		5005010112505 (5Q)	meranasar (my
Medication	Glucagon 1 mg/mL	GlucaGen® 1mg/mL	Gvoke® 0.5 mg/0.1 mL Prefilled Syringe	Baqsimi® 3 mg/dose Powder
	Emergency Injection	Hypokit Injection	or Auto-injector (indicated for pediatric	(indicated for patients ages 4
	Kit	Dispense 2 (two)	patients ages 2 to < 12 years weighing <	years and older)
	■ Dispense 2 (two)	kits	45 kg)	■ Dispense 1 x two-pack OR 2 x
	kits		■ Dispense 1 x two-pack OR 2 x one-pack	one-pack
			Cycles® 1 mg/0.2 ml Profilled Cyrings or	
			Gvoke® 1 mg/0.2 mL Prefilled Syringe or Auto-injector (indicated for adults,	
			pediatric patients ages 12 years and	
			older, and patients ages 2 to < 12 years	
			who weigh \geq 45 kg)	
			Dispense 1 x two-pack OR 2 x one-pack	
Directions for	Follow steps in kit for preparing a dose.		Inject dose (see below) SQ in the lower	Administer entire dose into
Use	Inject dose (see below) via IM or SQ route		abdomen, outer thigh, or outer upper	one nostril. Call 911. Repeat
	into upper arm, thigh, or buttocks. Call 911.		arm. Call 911. Repeat after 15 minutes, if	after 15 minutes, if no
	Repeat after 15 minutes, if no response.		no response. When patient has	response. When patient has
	When the patient has responded to		responded to treatment, give oral	responded to treatment, give
	treatment, give oral carbohydrates.		carbohydrates.	oral carbohydrates.
	Dosing instructions:		Dosing instructions:	Indications for emergency
	For adults and pediatric patients weighing >		For adults and pediatric patients age 12	administration by pharmacist -
	25 kg, or for pediatric patients with		years and older, or for pediatric patients	Patient presents with signs and
	unknown weight and age 6 years and older:		who weigh <u>> 45 kg</u> : Administer 1 mg per	symptoms of severe
	Administer 1 mg (1 mL) per dose		dose	hypoglycemia and oral glucose
				is not an option. Pharmacists
	For pediatric patients weighing < 25 kg, or		For pediatric patients age 2 to 11 years	should perform a finger stick
	for pediatric patients with unknown weight		who weigh < 45 kg: Administer 0.5 mg	blood test prior to emergency
	and less than 6 years of age: Administer 0.5		per dose	administration to confirm
	mg (0.5 mL) per dose			hypoglycemia. Where a finger
			Indications for emergency administration	stick blood test is not possible,
			by pharmacist - Patient presents with	pharmacists may provide

Indications for emergency administration by pharmacist- Patient presents with signs and symptoms of severe hypoglycemia and oral glucose is not an option. Pharmacists should perform a finger stick blood test prior to emergency administration to confirm hypoglycemia. Where a finger stick blood test is not possible, pharmacists may provide emergency administration if they have knowledge of the patient's history of or risk of severe hypoglycemia; the patient is accompanied by a person knowledgeable of the patient's history and risk of hypoglycemia; or the patient has a medical alert bracelet/necklace that indicates risk of hypoglycemia. Call 911.

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Refills

PRN

Patient Education

Contraindications

 $Known\ hypersensitivity\ to\ glucagon\ or\ any\ component\ of\ the\ formulation;\ pheochromocytoma;\ insulinoma$

Signs and symptoms of hypoglycemia, and recommend a form of medical alert identification

- Every person dispensed glucagon under these protocols shall receive education regarding:
- Proper hypoglycemia response steps and product administration steps
- Factors that impact blood glucose, lowering levels, including, but not limited to: alcohol, physical activity, missing meals, and drug interactions)
- Potential adverse reactions

Examples of patient education materials that incorporate the above information may be found at: https://www.cdc.gov/diabetes/basics/low-blood-sugar.html or https://professional.diabetes.org/

Notification of Primary Care Provider

Pharmacies choosing to participate in glucagon dispensing under the authority of these protocols shall notify the patient's primary care provider within 72 hours. Notification should include the pharmacist's name and NPI #, and the pharmacy/practice name and phone number. If the patient does not have a primary care provider, the pharmacist shall counsel the patient regarding the benefits of establishing a relationship with a primary care provider, and provide information regarding primary care providers, including private practices, federally qualified health centers, free clinics, or local health departments serving the area in which the patient is located.