



Medication:	Glucagon	PDN:	Last Updated:	PMD:	PDC:	Page 1 of 2
		6937.02	August 21 2025	Andrew Travers*	Teena Robinson*	

GLUCAGON (nasal powder)

1.0 Classification

Antihypoglycemic

2.0 Mechanism of Action

 Activates hepatic glucagon receptors, thereby stimulating glycogen breakdown and release of glucose from the liver.

3.0 Indications

 Patients with signs of hypoglycemia and a blood glucose level less than 4.0 mmol/L who are unable to take oral glucose and an IV cannot be established.

4.0 Contraindications

- Known hypersensitivity
- Pheochromocytoma
- Insulinoma

5.0 Precautions

- Patients taking beta-blockers may have a greater increase in both heart rate and blood pressure when given glucagon, but this will be temporary.
- Glucagon may lose its ability to increase blood glucose or may cause hypoglycemia if administered with indomethacin.
- Intravenous administration of dextrose is preferred for patients taking sulfonylureas as the pharmacological effects of sulfonylureas can last a long time.

6.0 Route

May be given IN

7.0 Dosage

All ages

- 3 mg IN (BAQSIMI® product only), administered into one nostril (no repeat dose)
 - Remove the shrink wrap by pulling on the red strip
 - o Open the lid and remove the device from the tube
 - Hold the device between fingers and thumb
 - Insert the tip gently into one of the nostrils until fingers touch the outside of the nose
 - Push the plunger all the way in until the green line is no longer showing

8.0 Supplied

3 mg glucagon (powder) and intranasal device

9.0 May Be Given By

PCP/ACP/CCP

10.0 Adverse Effects

- Nausea/vomiting
- Headache
- Upper respiratory tract irritation
 - o rhinorrhea, nasal discomfort, nasal congestion, cough, epistaxis, oropharyngeal pain
- Allergic reaction

11.0 Special Notes

- Hypoglycemia for non-diabetic children is different.
 - Neonate < 2.5 mmol/L
 - o Infant/Pediatric < 3.3 mmol/L
- Keep the glucagon powder in the shrink-wrapped tube until ready for use.
- Supplementary carbohydrate should be given as soon as possible.
- Glucagon is very unlikely to work in a non-diabetic because the hypoglycaemia is a result of depleted glucose stores, rather than too much insulin.
- Consider consulting the Atlantic Canada Poison Centre in the setting of suspected overdose.
- Though glucagon can be used as an antidote for beta-blocker overdose, it requires high doses which are most often unavailable in the pre-hospital setting.
- Pregnancy category B [if there is a clinical need for it, Category B drugs are considered safe to use]

12.0 References

- Altered Level of Consciousness Clinical Practice Guideline
- BAQSIMI® Product Monograph

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