# GLYCOPYRROLATE (Glycopyrronium)

This document should be read in conjunction with this [DISCLAIMER](#).

## Presentation
- **Vial:** 200 microgram/mL (suitable for ORAL use)
- **Oral solution:** 200 microgram/mL

## Description
Antimuscarinic agent with atropine-like actions

## Indications
Used to reduce excessive respiratory tract secretions.

## Precautions
Medical conditions that preclude the use of anticholinergics

## Dosage

*There is limited information regarding the use of glycopyrrolate in neonates – consult neonatologist prior to initiating*

- **IV/IM:** 4–9 microgram/kg dosing every 6 to 8 hours
- **Maximum:** 200 micrograms
- **Oral:** 40-100 microgram/kg dose 3 to 4 times daily
  
  Dose adjusted according to response

## Dosage Adjustment
May be required in renal impairment due to reduced administration

## Adverse Reactions
- **Common:** Drowsiness, insomnia, tachycardia, urinary retention, constipation, inhibition of sweating.

  - **Serious:** Arrhythmia, malignant hyperthermia

## Compatible Fluids
Sodium Chloride 0.9%, Glucose 5%, Glucose 10%

## Preparation
Can be diluted to aid administration of small doses

- Withdraw 1 mL of 200 microgram/mL solution and add to 4 mL of a compatible fluid.
- **Concentration = 200 microgram/5 mL**
- **Final concentration = 40 microgram/mL**
**Administration**

**Oral:** May be given at any time with regard to feeds.

**IV:** Inject over 3-4 minutes

**IM:** as per NCCU protocol

**Monitoring**

Monitor heart rate, bowel sounds and movements

**Storage**

Store at room temperature, below 25°C

**Notes**

**Antidote:** Neostigmine

**References**


