SALBUTAMOL (for Inhalation)

Trade Name	Respigen® 100 microgram per puff (MYLAN)
	Asthalin® Nebuliser Solution 2.5 mg/2.5 mL (Rex Medical)
	Asthalin® Nebuliser Solution 5 mg/2.5 mL (Rex Medical)
Class	Selective beta 2 agonist
Mechanism of Action	Stimulates beta 2 adrenergic receptors in the smooth muscle of the lung resulting in bronchodilation
Indications	Relief of reversible airway constriction
Contraindications	Known hypersensitivity to salbutamol or any constituents of the inhalation formulation.
Supplied As	Aerosol Inhaler 100 microgram/puff containing 200 doses
	Nebules containing 2.5 mg/2.5 mL (= 1mg/mL) liquid for nebulisation (20 nebules per box)
	(Caution : nebules containing salbutamol 5 mg / 2.5 mL are also available check you have the correct strength)
Dilution	The final volume required to adequately pressurise the nebulisers used in CDHB is 4mL. Nebuliser solution can be diluted with 0.9% sodium chloride to make up to a final volume of 4mL prior to nebulisation.
Dosage	Inhaler: 1-2 puffs =100 – 200 microgram (via spacer) Maintenance dosing
	up to 5 puffs may be required to initially get control if clinically deteriorating)
	Nebuliser: 1.25 - 2.5mg ⁶
Guardrail	N/A
Interval	6-8 hourly for maintenance
	Can be given more frequently if symptomatic eg:1-2 hourly for acute exacerbation
Administration	Inhaler: via spacer and mask – see comments section below
	Nebuliser: via mask (can also be given through Hi-Flow and CPAP circuits with adaptors)
Compatible With	N/A
Incompatible With	N/A
Interactions	Potential additive potassium lowering effect when used in combination with thiazide diuretics (eg chlorothiazide), corticosteroids, (eg. prednisolone) or frusemide.

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	Possible risk of increased intraocular pressure when used in combination with ipratropium Use in combination with caffeine may theoretically increase
	risk of tachycardia and / or muscle tremor
Monitoring	Serum potassium, oxygen saturation, heart rate, respiratory rate.
	Inhaler: 6 months or manufacturer's expiry which ever is shorter.
	Nebules: Single use only
Storage	Room temperature, protect from light
	Fine tremor (particularly noticeable in the hands), nervous tension, headache, muscle cramps, tachyarrhythmias, peripheral vasodilation, hypotension, bronchospasm (occasionally severe), rash, angioedema, hypokalaemia, hyperglycaemia, acidosis, nausea, vomiting.
	Peak bronchodilation occurs within 0.5 – 2 hours of inhalation.
	Duration of effect = 2 - 5 hours
Comments	For supply of extra spacer devices and advice on cleaning contact Pharmacy.
	Inhaler must be used with recommended spacer and correct spacer technique: Prior to the first dose of inhaled salbutamol and before placing the mask of the spacer over the baby's mouth and nose give 5 puffs into the chamber to "prime" the interior surface of the spacer. Next with the mask of the spacer held over baby's mouth and nose give 1 puff and then allow 5 normal breaths. Repeat with as many puffs as required.
	Children's Emergency Care usually has spare masks.
References	 www.medsafe.govt.nz Paediatric and Neonatal Dosage Handbook Taketomo et al. 19th Edition 2012. BNF for Children 2011-2012 www.nzf.org.nz
	 Tal A, Bavilski C, Yohai D et al.Dexamethasone and Salbutamol in Treatment of Acute Wheezing in Infants. <i>Paediatrics</i> (1983) 71(1):13-18.
	6. <u>www.UpToDate.com</u>
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