

NICU: Atropine

Reference No: MONO-PAEDS/575/23

Presentation:	Injection 600 micrograms/ml										
Indication:	Bradycardia not responding to bag and mask ventilation during elective intubation (see guideline NIC RC 09)										
Dose:	20 micrograms/kg as a single dose										
Route of administratio n:	IV bolus. Atropine has a low pH and may cause venous irritation and tissue damage in cases of extravasation. If central venous access is unavailable, administer via a large peripheral vein monitoring insertion site closely. Re-site cannula at first signs of inflammation.										
Instructions for preparation:	 Draw up 1mL of the 600 micrograms/ml injection Dilute to a final volume of 10mL with sodium chloride 0.9% Shake well to mix thoroughly The resulting solution contains 60 micrograms per ml Draw out the volume required from the syringe using the smallest syringe possible 										
	Dose	10 microgr ams	20 microg rams	30 microg rams	40 microg rams	50 microg rams	60 microg rams	70 microg rams	80 microg rams	90 microg rams	100 microg rams
	Amount of 60 microgram s per mL diluted solution	0.17mL	0.33mL	0.5mL	0.67mL	0.83mL	1mL	1.17mL	1.33mL	1.5mL	1.67mL
	 Administer calculated volume as a slow bolus rapid IV injection; slow injection may result in paradoxical bradycardia. 										
<u>Prescribing</u>	RDH: Prescribe on paper chart QHB: Prescribe on Meditech										
Known compatibility issues	See separate	guideline	!								
Additional Comments:	May cause paradoxical bradycardia if given by slow IV injection. Ventricular fibrillation and tachycardia have occurred rarely. Monitor ECG according to clinical need.										
	Not licensed for use in children < 12 years for intra-operative bradycardia or by IV route for premedication.										

Note: The contents of this monograph should be read in conjunction with information available in the BNFC and Medusa regarding cautions, contraindications etc.

References:

Medusa Paediatric Injectable medicines guide, accessed via: Injectable Medicines Guide - Display - Atropine sulfate - Intravenous

- Version 10 - IVGuideDisplayMain.asp (medusaimg.nhs.uk) on 13/10/23

NICU intubation chart, accessed via: opac-retrieve-file.pl (koha-ptfs.co.uk) on 13/10/23

BNFc Atropine sulfate, accessed via: Atropine sulfate | Drugs | BNFC | NICE on 13/10/23Up to Date Pediatric Drug Information for Atropine (systemic) Accessed 14/11/23

Evelina Paediatric Formulary Accessed 14/11/23

Document control sheet

Reference No: CH PH N 48

GUIDELINE NUMBER	CH PH N 48
AREA IN WHICH THIS MONOGRAPH APPLIES	NICU

DIVISIONAL AUTHORISATION				
GROUP	DATE			
Paediatric monograph review group	22/12/2023			

AUTHORS				
Author	Position	Date		
Written by:	Senior Pharmacist Paediatrics	November 2010		

If review:

	Position	Date
Reviewed, updated and	Amanpreet Bria, Shift Working Clinical	
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Checked by:	Carol Bright, Advanced Pharmacist	
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Change history:

Changes Reference	Change details	Date
1	Dilution recommendation changed to avoid measurement of volumes <0.2mL which is potentially inaccurate	October 2019
2	Dose increased to 20 micrograms/kg	October 2023
3	Draw up 1mL of 600 micrograms in 1mL and dilute up to 10mL with NaCl 0.9% resulting in 60 micrograms in 1mL solution	October 2023
4	Amount of mLs to draw up dependent on the dose (see Intubation chart on Koha)	October 2023
5	Administration instructions in main body of monograph amended from 'slow IV bolus' to 'rapid IV injection'	November 2023