UNIVERSITY HOSPITALS OF DERBY & BURTON NHS FOUNDATION TRUST DRUG MONOGRAPH FOR USE ON ADULT INTENSIVE CARE UNITS

Aminophylline

	Animophymine			
Indication	Reversible airways obstruction Acute severe asthma			
Dose	Loading Dose (Patients NOT on chronic therapy) 5mg/kg loading dose over 20-30 minutes (max 500mg.) Maintenance Dose (All Patients) Initially 0.5mg/kg/hour All doses should be based on Ideal Body Weight.			
Preparation	 Draw up the required amount of aminophylline using a filter straw/needle Withdraw an equivalent amount of sodium chloride 0.9% from a 100ml bag Add aminophylline to sodium chloride bag using new needle Maintenance: Peripheral or Central Use - 1mg/ml final concentration Withdraw 20/40ml from a 500/1000ml bag of sodium chloride 0.9% Draw up 20/40ml aminophylline (25mg/ml) using a filter straw/needle Add aminophylline to sodium chloride bag using a new needle Final concentration of 1mg/ml. Maintenance: Central Use Only Draw up 50ml aminophylline (25mg/ml) in a 50ml syringe using a filter needle 			
Administration	Loading Dose: RDH: Use "Aminophylline Load" program on VP7000 pump QHB: Use "Aminophylline Loading only" program on EVO-IQ Peripheral Maintenance:			
Shelf-life	24hours at room temperature			

Common Compatibility Issues	Aminophylline has many incomp or MEDUSA for more informatio Aminophylline is also compatible	n.	CU Comp	atibility chart
Additional information	Levels should be taken 24 hours after starting IV aminophylline therapy. The normal range is 10-20mg/L. Drugs such as ciprofloxacin and erythromycin may increase aminophylline levels after 5 days of concomitant therapy. Aminophylline can cause tachycardia so monitor heart rate closely. Aminophylline can cause potential serious hypokalemia when combined with beta2 agonist therapy.			
Sample Label		AMOUNT x mg (mg/ml) EXP. DATE EXP. TIME	ADD BY	WARD ICH CHECKED BY BATCH No.

Documentation Controls

Development of Guideline:	Pharmacist – Critical Care & Theatres		
Consultation with:	Pharmacy Department		
Approved By:	ICU Sister's Meeting June 2023		
	ICU Risk & Quality Meeting: August 2023		
	Adult Drug Monograph process Written/Reviewed: Zain Ali, Critical Care Pharmacist Checked Matt Elliott / James Hooley, ePMA / Medicines Safety Pharmacist Dec 2023		
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Key contact:	Pharmacist – Critical Care & Theatres		

References

BMA & Pharmaceutical Press. British National Formulary June 2023. https://www.medicinescomplete.com/mc/bnf/current/index.htm Accessed June 2023. Summary of Product Characteristics. http://www.emc.medicines.org.uk. Accessed June 2023.

Trissel, L.A. Handbook on Injectable Medicines 18th Edition. https://www.medicinescomplete.com/mc/hid/current/index.htm Accessed June 2023.

Brayfield A (ed), Martindale: The Complete Drug Reference. [online] London: Pharmaceutical Press http://www.medicinescomplete.com/> (accessed June 2023).

UKCPA. Minimum Infusion Volumes for Fluid Restricted Critically III Patients. 4th Edition (December 2012).

*** End of Monograph ***