

N-ACETYL CYSTEINE INFUSION CALCULATOR



Patient name		Weight verified by (name & signature)
Date of Birth		
CHI		
Weight (kg)		

HOW TO MAKE UP INFUSION ONE (OVER ONE HOUR)

Infusion **ONE** (over ONE hour)

Dose is 150mg/kg

Prepare 50mg/ml solution:

The strength of solution will be the same for all children, the RATE of infusion changes to give the required dose.

Dilute each 10ml ampoule of acetylcysteine (200mg/ml) with either:

- 30ml 5% glucose or
- 30ml 0.9% sodium chloride
- = 2000mg (2g) in 40ml

If < 14kg, infusion can be in a 50ml syringe

If > 14kg, infusion will need to be 100ml or 250ml fluid with appropriate amount removed before addition of acetylcysteine

Dilute as many ampoules as required

Infuse appropriate dose for child (see dosage table) over **1 hour**

e.g. for an 8kg child, 24ml of prepared solution will be infused at 24ml/hr (total 1.2g)

Please ensure prescription is stated in grams and mls/hr and prescribed/checked by 2 doctors

Weight (kg)	Drug Dose Needed (GRAMS)	N°. AMPOULES OF NAC (200mg/ml) NEEDED	DILUENT (either 0.9% Sodium Chloride or 5% Glucose)	DILUENT VOLUME (mls)	TOTAL VOLUME (NAC PLUS DILUENT)	Final concentration (mg/ml)	TOTAL Volume to be infused OVER FIRST HOUR IN MLS

PLEASE REMOVE EXCESS VOLUME FROM BAG, LEAVING ONLY 'TOTAL VOLUME' TO AVOID OVERDOSE

Initial rate	Date	Start Time	Drug dose per hour (GRAMS PER HOUR)	Required flow rate (ml/hr)	Prescriber's name and signature	Verifier's name and signature

ALL PATIENTS NEED CONTINUOUS MONITORING FOR HYPERSENSITIVITY REACTIONS

Common reactions: nausea, vomiting, flushing, urticarial rash, angioedema, tachycardia, bronchospasm.

Less common: hypotension and collapse.

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Patient name		Weight verified by (name & signature)
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HOW TO MAKE UP INFUSION TWO (OVER FOUR HOURS)

Infusion **TWO** (over FOUR hours)

Dose is 50mg/kg

Prepare **6.25mg/ml** solution:

The strength of solution will be the same for all children, the RATE of infusion changes to give the required dose.

Dilute each 10ml ampoule of acetylcysteine (200mg/ml) with either:

- 310ml 5% glucose or
- 310ml 0.9% sodium chloride
- = 2000mg (2g) in 320ml

Infuse appropriate dose for child (see dosage table) over **4 hours**

i.e. for an 8kg child, 64ml of prepared solution will be infused at 16ml/hr (total 0.4g)

Please ensure prescription is stated in grams and mls/hr and prescribed/checked by 2 doctors

Weight (kg)	Drug Dose Needed (GRAMS)	Nº. AMPOULES OF NAC (200mg/ml) NEEDED	DILUENT (either 0.9% Sodium Chloride or 5% Glucose)	DILUENT VOLUME (mls)	TOTAL VOLUME (NAC PLUS DILUENT)	Final concentration (mg/ml)	TOTAL Volume to be infused OVER FOUR HOURS IN MLS

PLEASE REMOVE EXCESS VOLUME FROM BAG, LEAVING ONLY 'TOTAL VOLUME' TO AVOID OVERDOSE

Initial rate	Date	Start Time	Drug dose per hour (GRAMS PER HOUR)	Required flow rate (ml/hr)	Prescriber's name and signature	Verifier's name and signature

ALL PATIENTS NEED CONTINUOUS MONITORING FOR HYPERSENSITIVITY REACTIONS

Common reactions: nausea, vomiting, flushing, urticarial rash, angioedema, tachycardia, bronchospasm.

Less common: hypotension and collapse.