



⑦ NAC regimen

- N-Acetylcysteine (NAC) ampoules contain 2G NAC in 10mL (200mg/mL)
- Regimen consists of 2 infusions given consecutively over 12h
- Tick applicable weight range (in pregnancy, here: ACTUAL weight)
- Prescribe NAC on fluid page of drug chart as per example in box 8

	F	First infusion		Second infusion				
	Add required amount of NAC to a 200 mL bag of Glucose 5%				Add required amount of NAC to a 1000mL bag of Glucose 5%			
5	NAC 10	0mg/kg		NAC 2				
Patient weight	Dose	Volume	Rate	Dose	Volume	Rate		
(kg)	mg	mL	mL/h	mg	mL	mL/h		
40-49	4600	23	112	9000	45	105		
50-59	5600	28	114	11000	55	106		
60-69	6600	33	117	13000	65	107		
70-79	7600	38	119	15000	75	108		
80-89	8600	43	122	17000	85	109		
90-99	9600	48	124	19000	95	110		
100-109	10600	53	127	21000	105	111		
>109	11000	55	128	22000	110	111		
Run time	2 hours			10 hours				

6 Blood results initially post-NAC Time liver unit referral criteria (**NB**: also include hepatic encephalopathy >grade II) < 7.3 pCO₂ **Bicarb** >3.5* Lactate Glucose * >3 after fluid resuscitation/24h post-ingestion **Paracetamol NB**: Patients with paracetamol levels >700mg/L who are also in coma with a high lactate may require haemodialysis alongside NAC; d/w NPIS Na Urea >300 Crea Bili ALT Alb AP **WBC** Hb **Platelets Prothrombin** >20

NAC adverse reactions

NAC can cause nausea, vomiting, flushing, urticarial rash, angioedema, tachycardia, bronchospasm and, rarely, shock.

Reactions are more likely in women, asthmatics, those with a family history of allergies and patients with low paracetamol levels. They are usually seen during infusion of the 1st bag (large amounts being given rapidly).

Reactions can often be controlled by simply stopping the infusion temporarily; consider giving chlorphenamine 10mg IV if not. Add salbutamol 5mg neb if bronchospasm.

If unsuccessful use anaphylaxis pathway.

NB: Once reaction settled, restart the infusion at the normal rate.

Previous reaction is **NO** contraindication to NAC. If patient reports previous reactions consider pre-treatment with chlorphenamine 10mg and ranitidine 50mg IV. Pre-treat with salbutamol if history of bronchospasm.

(8) NAC example prescription for 62kg patient as per table in

Date	Infusion fluid		Additions to infusion		IV or Line	Start Time	Time to run or ml/hr	Fluid Batch No.		
	Type/strength	Volume	Drug	Dose						Prescriber
DD/MM/YY	Glucose 5%	200mL	N-Acetylcysteine	6600mg = 33mL	IV		нн:мм	117 mL/h (í.e. runs over 2h)		Dr.'s Name
DD/MM/YY	Glucose 5%	1000mL	N-Acetylcysteine	13000mg = 65 ml	IV		нн:мм	107 mL/h (í.e. runs over 10h)		Dr.'s Name