



⑦ NAC regimen

- N-Acetylcysteine (NAC) ampoules contain 2G NAC in 10mL (200mg/mL)
- Regimen consists of 3 infusions given consecutively over 21h
- Tick applicable weight range (in pregnancy, here: **ACTUAL** weight)
- Prescribe NAC on fluid page of drug chart as per example in box 8

Patient weight	amou	n 1: add re unt of NAC ag of Glue	to a	amo	on 2: add rount of NA0 bag of Glu	C to a	Infusion 3: add required amount of NAC to a 1000mL bag of Glucose 5%		
(kg)	NAC 150mg/kg			NAC 5	0mg/kg		NAC 100mg/kg		
	Dose	Volume	Rate	Dose	Volume	Rate	Dose	Volume	Rate
	mg	mL	mL/h	mg	mL	mL/h	mg	mL	mL/h
40-49	6800	34	234	2400	12	128	4600	23	64
50-59	8400	42	242	2800	14	129	5600	28	64
60-69	9800	49	249	3400	17	129	6600	33	65
70-79	11400	57	257	3800	19	130	7600	38	65
80-89	12800	64	264	4400	22	131	8600	43	65
90-99	14400	72	272	4800	24	131	9600	48	66
100-109	15800	79	279	5400	27	132	10600	53	66
>109	16600	83	283	5600	28	132	11000	55	66
Run time	1h			4h			16h		

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

9 NAC adverse reactions

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

Reactions occur in around 30% of patients. They 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 1st bag

at half the rate (i.e. over 2h rather than 1h) then give 2nd and 3rd bag at normal rate. Previous reaction is **NO** contraindication to NAC. If patient reports previous reactions consider pretreatment with Chlorphenamine 10mg and Ranitidine 50mg IV, and give 1st bag over 2h. Pretreat with Salbutamol if previous bronchospasm.

Date	Infusion fluid		Additions to infusion		IV or	Line	Start Time	Time to run or ml/hr	Fluid	
	Type/strength	Volume	Drug	Drug Dose SC				Batch No.	Prescriber	
DD/MM/YY	Glucose 5%	200mL	N-Acetylcysteine	9800mg = 49mL	IV		нн:мм	249mL/h (í.e. runs over 1h)		Dr.'s Name
DD/MM/YY	Glucose 5%	500mL	N-Acetylcysteine	3400mg = 17mL	ΙV		нн:мм	129mL/h (í.e. runs over 4h)		Dr.'s Name
DD/MM/YY	Glucose 5%	1000mL	N-Acetylcysteine	6600mg = 33mL	ΙV		нн:мм	65mL/h (í.e. runs over 16h)		Dr.'s Name