

Patient Name .....  
Hospital Number .....  
Patient DOB.....

Date/time .....  
Triage Nurse .....

### Adult Paracetamol Poisoning Proforma

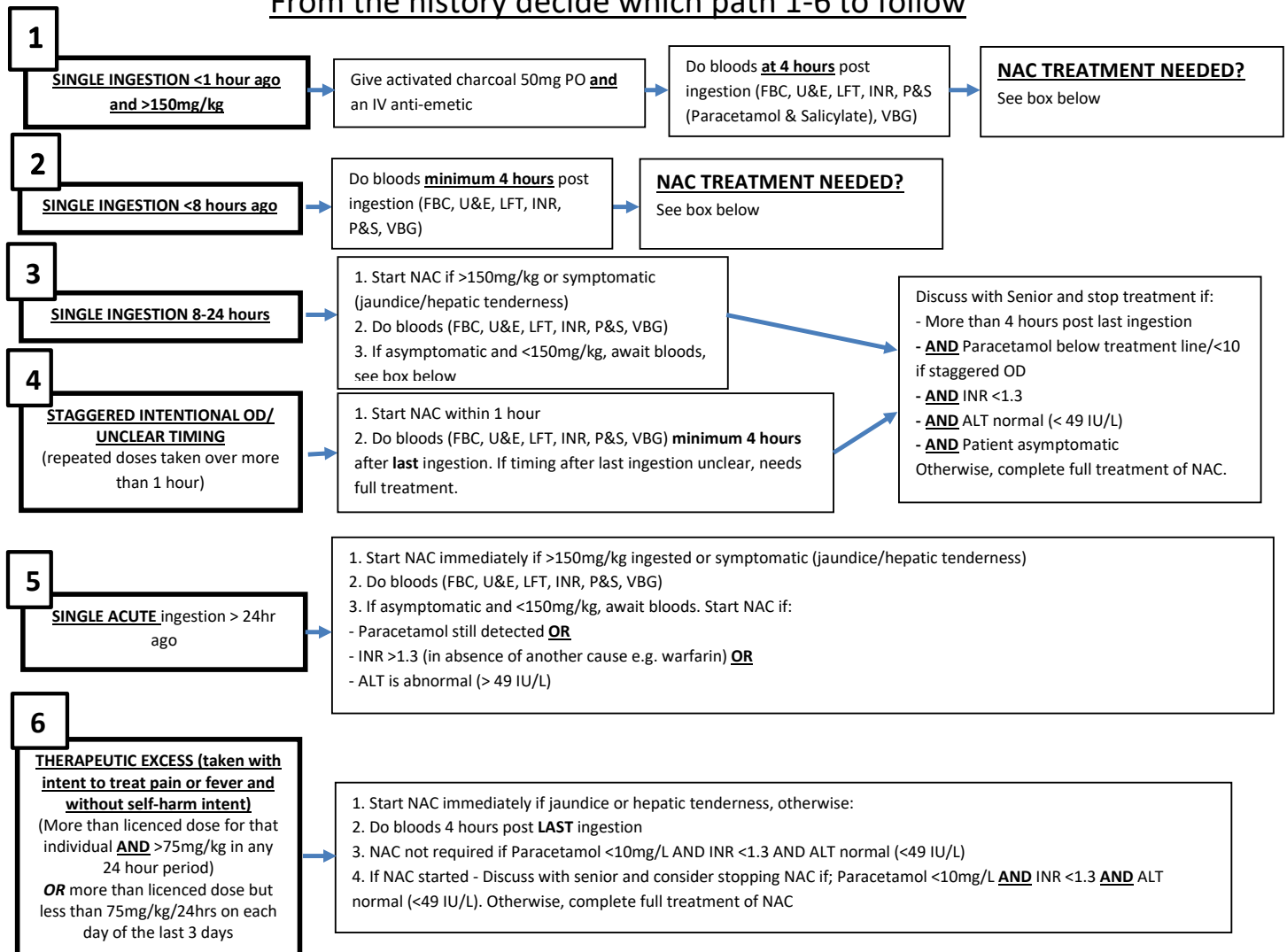
<b>Patient weight</b> .....kg	<b>Type and Number of tablets taken:</b> .....	<b>Dose taken in mg:</b> .....mg	<b>Amount taken mg/kg:</b> .....mg/kg
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<b>Time of last ingestion</b> .....	<b>Bloods taken at:</b> .....	<b>Bloods due at:</b> .....
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#### USE PATHWAY IF SIGNIFICANT INGESTION

**Significant ingestion?**  
**>75mg/kg/24hr**  
**OR Staggered overdose**  
**OR Uncertain time/amount ingested**

From the history decide which path 1-6 to follow



#### NAC TREATMENT NEEDED?

**YES**, if one or more of the below:

1. 4-19 hours single ingestion paracetamol on or above treatment line
2. 19-24 hours after single ingestion and paracetamol still detected
3. > 4 hours after **LAST** ingestion in staggered overdose and paracetamol still detected
4. > 4 hours after an ingestion of uncertain timing, and paracetamol is still detectable
5. INR >1.3 OR ALT abnormal (>49 IU/L).

**NO**, if none of the above and consider referral to MHLT unless truly unintentional overdose.

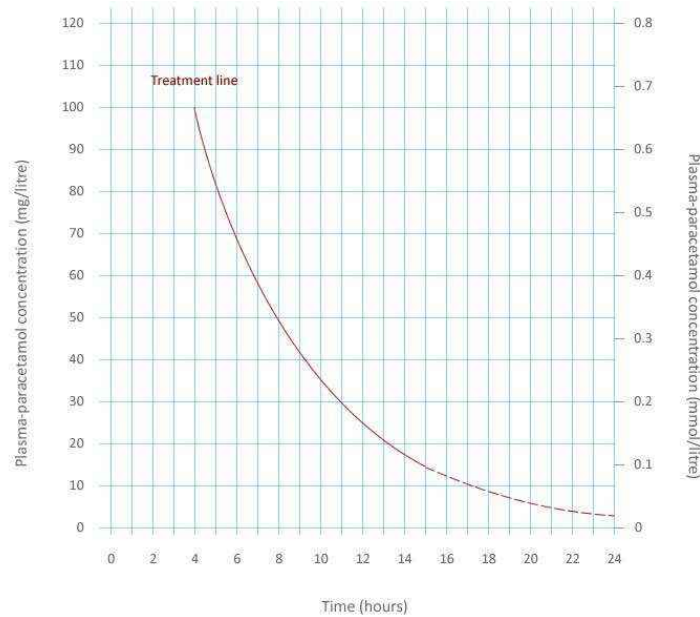
#### NAC treatment is a time critical

medication and continued infusion need to be given at the correct time.

Hand over if further treatment needed/awaiting results for follow up.

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**TOXBASE.ORG** has a complete management guidance for Paracetamol overdose.

**Prescribing NAC is done on EPMA. Click ‘protocol’ then type in ‘SNAP’. Choose the correct regime based on pt weight.**

**For further bags of NAC use ‘protocol’ and then type in ‘acetylcysteine’.**

1. In all patients re-check paracetamol level, INR, U&Es, and ALT at, or just before, end of 2nd treatment bag
2. Acetylcysteine should be continued if ANY of the following criteria are met:  
 The ALT is above the upper limit of the normal range **OR**  
 The ALT has doubled or more from admission (even within the normal range) **OR**  
 The paracetamol concentration is greater than 10 mg/L  
 Continue at the dose and infusion rate used in the 2nd treatment bag (10-hour).

#### NAC adverse reactions:

- NAC can cause anaphylactoid reactions with vomiting, flushing, urticarial rash, angioedema and bronchospasm, rarely shock and, very rarely, respiratory depression, AKI and DIC.

- Reactions occur in around 20% of patients. They are more likely in women, especially brittle asthmatics and those with very low Paracetamol levels, and are usually seen during infusion of the 1st bag (larger dose).

- Reactions can usually be controlled by simply stopping the infusion; consider giving Chlorphenamine 10mg IV if not. Add Salbutamol 5 mg neb if bronchospasm.

- If unsuccessful treat as anaphylaxis.

- Restart 2nd bag once reaction settled.

- Previous reaction is NOT a contraindication to NAC. If patient reports repeated previous reactions consider pre-treatment with Chlorphenamine 10mg and Ranitidine 50mg IV, and give 1st bag over 2h as normal. Pre-treat with Salbutamol if previous bronchospasm.

### SNAP-based Dosage Table

Adult acetylcysteine prescription (each ampoule = 200mg/mL acetylcysteine)

Please circle appropriate weight and volume

Regimen	First Infusion		Second Infusion	
Infusion fluid	200mL 5% glucose or sodium chloride 0.9% *Remove volume of infusion fluid prior to adding acetylcysteine to ensure final volume = 200mls		1000mL 5% glucose or sodium chloride 0.9% *Remove volume of infusion fluid prior to adding acetylcysteine to ensure final volume = 1000mls	
Duration of infusion	2 hours		10 hours	
Drug dose	100mg/kg acetylcysteine		200mg/kg acetylcysteine	
Patient Weight (kg)	Ampoule volume of acetylcysteine (mL)	Infusion rate (mL/hour)	Ampoule volume of acetylcysteine(mL)	Infusion rate (mL/hour)
30-39	18	100	35	100
40-49	23	100	45	100
50-59	28	100	55	100
60-69	33	100	65	100
70-79	38	100	75	100
80-89	43	100	85	100
90-99	48	100	95	100
100-109	53	100	105	100
>109	55	100	110	100

Dose calculations based on the weight in the middle of each band. Ampoule volume has been rounded up to the nearest whole number