Patient Name Hospital Number		Date/time Triage Nurse			
Patient DOB		aracetamol Pois	oning Proforma	<u>a</u>	
kg	nber of tablets taken:	Dose taken in mg:mg Bloods due at:	Amount taken mg/kg:mg/kg	USE PATHWAY IF SIGNIFICANT INGESTION Significant ingestion? >75mg/kg/24hr	
Time of last ingestion	Bloods taken at:			OR Staggered overdose OR Uncertain time/amount ingested	
From	<u>m the history</u>	decide which	path 1-6 to fo	<u>ollow</u>	
SINGLE INGESTION <1 hour ago and >150mg/kg	Give activated charcoa an IV anti-emetic	al 50mg PO <u>and</u> ing	b bloods <u>at 4 hours</u> post gestion (FBC, U&E, LFT, INR, aracetamol & Salicylate), VB	Jee box below	
SINGLE INGESTION <8 hours ago →	Do bloods minimum 4 ingestion (FBC, U&E, L P&S, VBG)	ET IND	TREATMENT NEEDED	2	
SINGLE INGESTION 8-24 hours 4 STAGGERED INTENTIONAL OD/		derness) kE, LFT, INR, P&S, VBG) d <150mg/kg, await bloods,		Discuss with Senior and stop treatment if: - More than 4 hours post last ingestion - AND Paracetamol below treatment line/<10 if staggered OD - AND INR <1.3 - AND ALT normal (< 49 IU/L)	
UNCLEAR TIMING (repeated doses taken over more than 1 hour)		kE, LFT, INR, P&S, VBG) mini timing after last ingestion u		- AND Patient asymptomatic Otherwise, complete full treatment of NAC.	
SINGLE ACUTE ingestion > 24hr ago	2. Do bloods (FBC, U&3. If asymptomatic and- Paracetamol still dete	d <150mg/kg, await bloods. ected <u>OR</u> of another cause e.g. warfal	Start NAC if:	epatic tenderness)	
THERAPEUTIC EXCESS (taken with intent to treat pain or fever and without self-harm intent) (More than licenced dose for that individual AND >75mg/kg in any 24 hour period) OR more than licenced dose but less than 75mg/kg/24hrs on each day of the last 3 days	2. Do bloods 4 hours p3. NAC not required if4. If NAC started - Disc	Paracetamol <10mg/L AND	INR <1.3 AND ALT normal (er stopping NAC if; Paraceta	(<49 IU/L) nmol <10mg/L <u>AND</u> INR <1.3 <u>AND</u> ALT	
NAC TREATMENT NEEDED? YES, if one or more of the below: 1. 4-19 hours single ingestion parace. 2. 19-24 hours after single ingestion.			medica	reatment is a time critical ation and continued on need to be given at the	

- ${f 3.}$ > 4 hours after LAST ingestion in staggered overdose and paracetamol still detected
- $\bf 4. > 4$ 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.

correct time.

 $\underline{\textbf{Hand over}} \text{ if further treatment}$ needed/awaiting results for follow up.

Patient Name Hospital Number Patient DOB..... 110 Treatment line 0.7 100 90 Plasma-paracetamol concentration (mg/litre) 80 0.5 70 60 50 0.3 30 0.2 20 0.1 10 16 18 20 22 Time (hours)

Date/time	
Triage Nurse	

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.

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 $\ensuremath{\text{\textbf{OR}}}$

The ALT has doubled or more from admission (even within the normal range) ${\bf OR}$

The paracetamol concentration is greater than 10 mg/L

Continue at the dose and infusion rate used in the 2nd treatment bag (10-hour).

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%		1000mL 5% glucose or sodium chloride 0.9%					
	*Remove volume of infusion fluid prior to		*Remove volume of infusion fluid prior to adding acetylcysteine					
	adding acetylcysteine to ensure final volume =		to ensure final volume = 1000mls					
	20	Omls						
Duration of infusion	2 hours		10 hours					
Drug dose	100mg/kg acetylcysteine		200mg/kg acetylcysteine					
Patient Weight (kg)	Ampoule volume of	Infusion rate (mL/hour)	Ampoule volume of	Infusion rate (mL/hour)				
	acetylcysteine (mL)		acetylcysteine(mL)					
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	Dose calculations based on the weight in the middle of each band. Ampoule volume has been rounded up to the nearest whole number							