

Paracetamol (APAP) – Acute Single Ingestion of Immediate-Release Preparation

This guideline covers the management of immediate-release paracetamol (APAP) taken in overdose in a single ingestion (over <120 minutes)

Risk Assessment	TIME POST INGESTION	MANAGEMENT: <i>[APAP]= paracetamol concentration AC = activated charcoal</i>
<p><i>Risk of acute liver injury if >200 mg/kg OR >10 g ingested</i></p>	0-2 hours	<ul style="list-style-type: none"> - Co-operative patients: AC if > 200 mg/kg or 10 g (whichever is less) has been ingested within a 120-minute period OR > 30 g has been ingested within a 4-hour period - Plot [APAP] at 4 hours post ingestion. If [APAP] above treatment line, treat with 20-hour NAC course (see NAC guideline)
<p>Clinical features:</p> <ul style="list-style-type: none"> - Usually asymptomatic - Abdominal pain, vomiting - Late toxicity – liver failure, coagulopathy, encephalopathy 	2-4 hours	<ul style="list-style-type: none"> - Plot [APAP] at 4 hours post ingestion. If [APAP] above treatment line, treat with 20-hour NAC course (see NAC guideline)
	4- 8 hours	<ul style="list-style-type: none"> - If [APAP] WILL NOT BE available <8 hours of ingestion, start NAC (if ingested dose >200mg/kg or >10 g, or unknown) - Discontinue NAC if [APAP] below treatment line, otherwise complete 20-hour NAC course (see NAC guideline) - If [APAP] IS AVAILABLE WITHIN 8 hours, and is above treatment line: treat with 20-hour NAC course (see NAC guideline)
	8-24 hours	<ul style="list-style-type: none"> - Start NAC and obtain [APAP]. Continue 20-hour NAC course if [APAP] above treatment line or ALT > 50 IU/L
	> 24 hours	<ul style="list-style-type: none"> - Start NAC and obtain [APAP] and ALT. Continue 20-hour NAC course if [APAP] detectable or ALT > 50 IU/L
<p>Antidote:</p> <p>N-acetylcysteine (NAC)</p> <ul style="list-style-type: none"> - Glutathione donor <p>Dosing: see NAC guideline</p> <p>Massive APAP Exposures</p> <ul style="list-style-type: none"> -double the dose of NAC in the second NAC infusion if the APAP concentration is > 2x the nomogram <p>Reported dose APAP > 50g:</p> <ul style="list-style-type: none"> - discuss with toxicologist 	<div style="text-align: center;"> </div>	
	<p style="text-align: center;">2-HOURS PRIOR TO COMPLETION OF 20-HOUR NAC COURSE:</p> <ul style="list-style-type: none"> - Measure ALT - Measure APAP concentration if reported APAP ingestion > 30g OR if initial APAP conc. > 2x nomogram line - If ALT is abnormal OR if APAP conc. is > 10 mg/L (>66 umol/L) continue NAC (see <i>Extended NAC Treatment Guideline</i>) + check INR and discuss with a clinical toxicologist 	