Paracetamol (APAP) – Deliberate Self-Poisoning of Modified-Release (MR) Paracetamol Austin Toxicokinetics of modified-release (MR) paracetamol differs from immediate release (IR) preparations due to slower absorption **Toxicity / Risk Assessment** Management - Toxic dose is 200 mg/kg or 10g (whichever is less) - NAC: Two-infusion NAC regimen: 200mg/kg over 4 hours followed by 100mg/kg over 16 hours **ACUTE INGESTION OF MR PARACETAMOL** Please discuss any cases with **APAP - Paracetamol** an APAP conc. greater 2x the - Reported ingestion dose \geq 10 g or 200 mg/kg (whichever is less)? NAC - N-acetylcysteine nomogram line at any time - Modified Release MR with a clinical toxicologist ٧o Measure two APAP concentrations 4 hours apart, the first at least Commence Is this a case of deliberate self-poisoning Less than 4 hours since No 🗲 Yes 4 hours post indestion where the history of reported ingested reported time of ingestion? NAC dose is unreliable or unclear? No further medical Either APAP concentration above the nomogram line? - No -Complete full 20-hour two-bag treatment required Administer Reported dose ingested NAC regimen. Double dose of activated Yes 🚽 > 30 g or 500 mg/kg? NAC in second infusion charcoal (200 mg/kg over 16 hours) Commence and complete full 20-hour two-bag NAC regimen Double dose of NAC in second infusion (200 mg/kg over 16 hours) if either APAP concentration is more than double the nomogram line Yes Measure two APAP Either APAP concentration Measure ALT and APAP concentrations 4 hours more than double the concentration at the end of Indications for discontinuation of apart, the first at least nomogram line? 20-hour two-bag NAC regimen NAC post initial 20-hour NAC course: 4 hours post ingestion - ALT falling AND $\langle \cdots \rangle$ Continue NAC at 100 mg/kg per 16 hours if: -INR < 2 AND- APAP conc. > 10mg/L (66 micro mol/L) OR - Clinically well AND - ALT > 50 U/L OR - APAP conc. < 10mg/L (66 micro mol/L) - Baseline ALT was > 50 U/L and is increasing Complete full 20-hour two-bag NAC regimen

AUSTIN CLINICAL TOXICOLOGY SERVICE GUIDELINE

POISONS INFORMATION CENTRE: 13 11 26

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