

**Amisulpride overdose may cause severe toxicity and death. Clinical features include CNS depression, ↑QT interval and Torsades des Pointes (TdP).**

### Toxicity / Risk Assessment

*Increased QT interval and TdP has been reported with therapeutic doses of amisulpride < 1 g > 4 g is associated with significant CVS and CNS toxicity*

#### Clinical features:

- Dose dependent and onset can be delayed up to 16hours
- **CNS:** sedation progressing to coma
- **CVS:** - bradycardia is common and will increase risk of TdP occurring in the context of ↑QT interval.
- bundle branch block, ventricular arrhythmias
- hypotension is more likely with higher doses

### Management

Manage in monitored cubicle or resuscitation area if ingestion > 1 g  
Immediate intervention includes management of coma, ↓BP and ↑QT  
(Ingestion > 4 g warrants early discussion with a clinical toxicologist)

#### **Decontamination:**

**Activated Charcoal 50 g** should be offered for any exposure > 1 g up to 4 hours post ingestion

Any patients requiring intubation following amisulpride ingestion should receive Activated Charcoal 50 g via NGT

#### **Management of ↑QT Interval** (see separate *QT prolongation* guideline)

- CVS monitor + maintain normal serum Ca<sup>2+</sup>, K<sup>+</sup>, Mg<sup>2+</sup> concentrations

#### **Management of TdP** (see separate *QT prolongation* guideline)

- MgSO<sub>4</sub> 10 mmol as IV push in conscious patients (if unconscious or pulseless: electrical defibrillation)
- If TdP does occur -> commence isoprenaline/epinephrine/electrical pacing to maintain HR > 80 bpm

#### **Enhanced Elimination**

- Haemodialysis is not effective in enhancing amisulpride elimination

#### **Disposition**

- Ingestion 1-4 g: monitor for at least 12 hours with 2 hourly ECGs. Patients who develop QT interval prolongation should be monitored for at least 16 hours
- Ingestion > 4 g: admit to monitored area for 16 hours observation
- Discharge pending mental health assessment if asymptomatic + normal ECG at end of monitoring period