

**Clozapine is an atypical antipsychotic, which causes CNS depression, anticholinergic toxicity and hypotension in overdose**

## Toxicity / Risk Assessment

*Toxicity is more pronounced in clozapine naïve patients*

*There is a poor relationship between dose and toxicity*

### Clinical features:

- CNS depression, mydriasis OR miosis
- Anticholinergic – tachycardia, warm dry skin  
urinary retention
- Postural hypotension, ↓BP
- Hypersalivation (not always present)
- Onset of clinical toxicity occurs within 4 hours

*Less common clinical features*

- Seizures in 5-10% of patients
- Coma requiring intubation
- QT interval prolongation

Extrapyramidal side effects can occur and may be delayed

Myocarditis and bone marrow suppression (↓WCC) are not features of acute overdose

## Management

Patients with significant CNS depression with compromised airway protection should be intubated

### **Decontamination:**

Consider **Activated Charcoal 50 g** in adults who have ingested > 10 mg/kg within the previous 1 hour

### Hypotension

- Fluid: initially load with 10-20 mL/kg IV crystalloid
- Persisting hypotension (rare) can be managed initially with a norepinephrine infusion

### Agitation / Seizures

- Seizures - Diazepam 2.5-5 mg IV q10 minutely titrated to response

Monitor for urinary retention

### Extrapyramidal Side Effects

- Treat along conventional line - Benztropine 1-2 mg IV/ IM (0.02 mg/kg children – maximum 1 mg)

### **Disposition:**

- Asymptomatic patients with a normal ECG 6 hours post exposure can be discharged pending mental health assessment (do not discharge patients at night)
- Patients should be advised extrapyramidal side effects may occur for up to 7 days post overdose
- Advise patient not to drive for at least 72 hours post exposure

(Measuring clozapine concentration has no role in acute poisoning)