

Flecainide OD can produce life-threatening cardiac toxicity. Aggressive measures may be required to maintain cardiovascular stability.

Toxicity / Risk Assessment

Toxic-dose is NOT well-established

Significant toxicity is expected with ingestions

> 1000 mg

Onset of effects in significant OD occurs in 1-2 hours

*Increased risk with age/underlying co-morbidities/
poor renal function/co-ingestants i.e. other
cardiovascular toxicants*

Clinical features:

Broad complex tachyarrhythmias

- Ventricular tachyarrhythmias
- Arrhythmias with rate related bundle-branch block pattern
- Bradyarrhythmias, AV nodal block, QT prolongation, Na⁺ channel blockade (QRS prolongation): impaired cardiac inotropy

Other features: nausea, vomiting, blurred vision, hyperglycaemia, seizures, coma

Management

Decontamination: Activated charcoal 50 g via NGT post intubation, or < 2 hours post ingestion alert patients

ROLE OF NaHCO₃ IS POORLY DEFINED IN FLECAINIDE TOXICITY. Response to alkalinisation is variable.

(Na⁺ channel blockade with QRS duration > 120m - discuss with a clinical toxicologist)

Indications for serum alkalinisation:

- Seizures, QRS prolongation (> 120ms) with arrhythmia or hypotension, on induction prior to intubation

To achieve serum alkalinisation:

- Bolus doses of 1 mL/kg 8.4% NaHCO₃ solution as slow (2 minutes) intravenous push
- Repeat bolus doses every 5 minutes to rapidly acquire serum pH in 7.50-7.55 range
- NaHCO₃ infusion is **NOT** indicated to maintain serum pH. Maintain serum pH with hyperventilation
- Discuss resistant arrhythmias or hypotension with a clinical toxicologist

Hypotension

- Initially treat with 20 mL/kg IV fluid (crystalloid). NaHCO₃ as above if not responsive to IV fluid
- Adrenaline is the first choice of inotrope
- Further inotrope/vasopressor support should be guided by echocardiogram findings

Resistant arrhythmia with hypotension: lignocaine 100 mg as an IV bolus (discuss with clinical toxicologist)

ECMO should be considered on a case-by-case basis in severe poisoning non-responsive to serum alkalinisation and pharmacological inotropic support (discuss with clinical toxicologist)

Flecainide is **NOT dialyzable**.

Disposition: Discharge pending mental health assessment if well with normal ECG 6 hours post exposure