

**Fomepizole, a competitive inhibitor of alcohol dehydrogenase (ADH) prevents formation of toxic metabolites of methanol and ethylene glycol (G)**

## Indications

- *Ethanol and fomepizole are both effective ADH inhibitors used for the treatment of EG and methanol poisoning.*
- Ethanol is widely available, however fomepizole has significant advantages and is the preferred antidote when available*
- ***In particular, fomepizole is the preferred antidote in:***
  - *children*
  - *pregnancy*
  - *significant liver disease (cirrhosis)*

## Contraindications:

- Isopropyl alcohol poisoning

## Adverse effects (uncommon):

- headache, nausea, dizziness
- metallic taste
- phlebitis, rash
- fever
- eosinophilia, transient elevated transaminases

## Presentation

- 1.5g / 1.5 mL vial

## Dose and Administration (dilute in 100 mL 0.9% NaCl or 5% dextrose to avoid venous irritation)

\*Diluted solutions remain stable up to 24 hours when stored refrigerated or at room temperature

## Loading dose:

- 15 mg/kg IV

## Maintenance dose:

- 10 mg/kg IV every 12 hours
- If dosing is required beyond 48 hours (i.e. 5<sup>th</sup> maintenance dose onward), increase maintenance dose to 15 mg/kg IV 12 hourly
- Administer maintenance dose at 4 hourly intervals if patient is treated using intermittent haemodialysis (8 hourly if patient treated using CVVHD)

## Therapeutic Endpoint:

- Osmol Gap (OG) < 10 in conjunction with serum pH > 7.3, not requiring dialysis or bicarbonate infusion  
OR serum methanol or ethylene glycol concentration (if available) < 20 mg/dL

## Pregnancy:

- Category C
- The use of fomepizole should not be withheld if potential benefit outweighs any potential risk