Fomepizole



Fomepizole, a competitive inhibitor of alcohol dehydrogenase (ADH inhibitor), is used to prevent formation of toxic metabolites from methanol and ethylene glycol

Indications

- Ethanol and fomepizole are both effective ADH inhibitors used for the treatment of toxic alcohol poisoning.

 Generally, ethanol is cheaper and more widely available, however, there are some instances where fomepizole is the preferred antidote:
- when ethanol (as an antidote) or timely measurement of ethanol concentrations are not readily available
- in children/pregnancy/significant liver disease
- patients with reduced GCS or patients Rx with disulfiram
- May have a role in severe disulfiram reactions

Contraindications:

- No absolute contraindications

Adverse effects:

- 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 for 48 hours (4 doses). Increase maintenance dose to

15 mg/kg IV 12 hourly if fomepizole is required beyond 48 hours (i.e. 5th dose onwards)

- 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, resolving acidosis
- 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

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