

METHANOL POISONING:

Thus occur when methylated spirit is consumed or when spirit is adulterated with Methyl Alcohol.

- It is metabolized to formaldehyde and formic Acid.

↓ causes (Toxic effect)

Metabolic Acidosis . → injury to Retina.

level of $> 50 \text{ mg/dl}$ methanol is associated with severe neuro.

Symptoms

→ headache, vomiting, epigastric pain, dyspnoea,

Retinal damage, hypotension, Acidosis. (formic Acid)

TLT

1) Patient in a quiet dark Room, red eye exam light.

2) gastric lavage with sod. Bicarbonate within 2 hours of ingesting methanol. , B.P if ventilation maintained.

3) Combat Acidosis by iv. HCO_3^- Bicarbonate infusion.

Thus prevent Retinal damage.

4) Pot- Chloride infusion is needed.

5) Haemodialysis → clear Methanol as well as formate formate

DOC

6) Formizole → Inhibitor of Alcohol dehydrogenase.

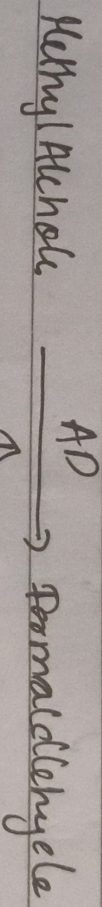
↳ They reduce the rate of oxidation of H₂O
formaldehyde and formic acid

15mg/kg iv given 3 times.

8-10ml (10%)

7) ethanol → Retard methanol metabolism.

8) folate therapy → calcium leucovorin 50mg every 6hrs.



formizole

* The specific toxicity of formic acid is retinal damage



Blurring of vision, enlargement of optic disc
followed by blindness