

The logo consists of the letters 'RX' in a large, white, serif font, centered within a dark gray square.

Drug Name: Hydroxocobalamin 5 g
Trade Name: Cyanokit[®]

Class:

- Antidote (for known or suspected cyanide poisoning)

Mechanism of Action:

- Action of Cyanokit is the ability to bind cyanide ions
- Each hydroxocobalamin ion can bind one cyanide ion by substituting it for the hydroxo ligand linked to the trivalent cobalt ion
- Bind forms cyanocobalamin
- Cyanocobalamin is excreted in the urine

Indications:

- Known or suspected cyanide poisoning
 - Can be inhalation, ingestion or dermal exposure
- Can be used even if the presence or extent are not known
- Signs of cyanide ingestion include:
 - *Altered LOC, seizures, coma, cardiovascular collapse, vomiting, *mydriasis, tachypnea(early), bradypnea(late), hypertention(early), hypotention(late)
- Symptoms include:
 - Headache, *confusion, dyspnea, chest tightness, nausea

*(*considered significant symptoms)*

Contraindications:

- None

Precautions:

- Known anaphylactic reactions to hydroxocobalamin or cyanocobalamin
 - Allergic reaction include: anaphylaxis, chest tightness, edema, urticarial, pruritus, dyspnea, rash
- Substantial increases in blood pressure may occur following Cyanokit administration
- Patients with renal insufficiency

Dosage and Administration:

Adults:

- Add 200 mL of 0.9% Sodium Chloride into the vial
 - Vial contains 5 g of medication
- Shake for at least 60 seconds to reconstitute
- **Infuse into patient over 15 minutes**
- One vial is a complete starting dose
 - Depending on the severity of the poisoning and patient response, a second dose over 15 minutes may be infused for a total dose of 10 g.

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Pediatrics:

- **No recommended dose**

Onset:

- Depends on severity of exposure

Side Effects:

Minor:

- Chromaturia (red colored urine)
- Erythema (red skin)
- Headache
- Nausea

Major:

- Hypertention

Interactions:

- Interacts with a number of medications and blood products
- Must use a separate intravenous line or flush existing line adequately

PEARLS:

- ***Pediatric doses have not been established in US***
- ***Non-US: doses at 70 mg/kg have been used to treat pediatrics***
- ***No adjustment of dose is required for Geriatric patients***