



Oakland County
MEDICATION SECTION
CYANOKIT[®] (HYDROXOCOBALAMIN)

Initial Date: 9/19/2022
Revised Date: 9/14/2023

Section 10-112

This Protocol is intended for use by a Hazardous Materials Response Team.
Cyanokit[®] (Hydroxocobalamin)

Protocols:

1. Cyanide Exposure Supplement Protocol

Indications:

1. Known or suspected cyanide poisoning

Contraindications:

1. Hypersensitivity to hydroxocobalamin or cyanocobalamin
2. Cannot be administered in the same line as dopamine or fentanyl

Dosing:

1. A one vial (250ml) glass vial containing 5g of hydroxocobalamin in powder form which must be reconstituted with 200mL of normal saline each, rotated or tipped for 30 seconds each (not shaken) and then administered through its own IV line (not used with any other medications) over 7.5 minutes each.
2. A one vial kit with 5g of hydroxocobalamin powder which must be reconstituted with 200mL of normal saline, be rotated or tipped for 60 seconds (not shaken) and administered through its own IV line (not used with any other medication) over 15 minutes.
3. The starting dose of hydroxocobalamin for adults is 5g (i.e., two 2.5g vials OR one 5g vial) administered as an intravenous (IV/IO) infusion over 15 minutes. Refer to table on page 2 for weight-based dosing.

Expected Effects:

1. Increased blood glucose

Side Effects:

1. Nausea
2. Vomiting
3. Abdominal pain
4. Red colored urine, skin, mucus membranes
5. Rash



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Broselow (Weight)	Age	Cyanokit® Dose (~70 mg/ml) IV/IO	Cyanokit® Volume to Administer² IV/IO
3-5 kg (6-11 lbs)	0-2 months	250 mg	10 mL³
6-7 kg (13-16 lbs)	3-6 months	500 mg	20 mL³
8-9 kg (17-20 lbs)	7-10 months	625 mg	25 mL³
10-11 (21-25 lbs)	11-18 months	750 mg	30 mL³
12-14 kg (26-31 lbs)	19-35 months	900 mg	36 mL³
15-18 kg (32-40 lbs)	3-4 years	1100 mg	44 mL³
19-23 kg (41-51)	5-6 years	1400 mg	56 mL³
24-29 kg (52-64)	7-9 years	1750 mg	70 mL³
30-36 kg (65-79 lbs)	10-14 years	2500 mg	100 mL⁴ (1/2 bottle)
Adult	>14 years	5000 mg	200 mL⁴ (full bottle)