



HYDROXOCOBALAMIN (CYANOKIT)



Escambia County, Florida - ALS/BLS Medical Protocol

ACTIONS

CYANOKIT (Hydroxocobalamin for injection) is indicated for treatment of known or suspected cyanide poisoning resulting from inhalation, ingestion, or dermal exposure to cyanide. Patients exposed to products of combustion in a confined space are at high risk of cyanide exposure.

Warnings:

1. Allergic reactions including anaphylaxis, chest tightness, edema, urticaria, pruritus, dyspnea and rash. Consider alternate therapy if history of allergy to hydroxocobalamin or cyanocobalamin.
2. Substantial blood pressure increases may occur following Cyanokit therapy.

BLS

Indications:

(Mild Exposure) - Soot in nose/mouth/oropharynx


1. Don appropriate PPE.
2. Remove patient from source of smoke/inhalation.
3. Patient Assessment with frequent reassessment.
4. Administer 100% O₂ via non-rebreather.
5. Monitor pulse oximetry.
6. Monitor ECG, if indicated.
7. Monitor CO level if available.



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Approved by:


Charles Neal, D.O. Medical Director



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ALS II

Indications:

(Moderate Exposure) - Soot in nose / Mouth / Oropharynx + Confusion / Disorientation / Altered LOC, (+ / -) Hypotension

1. Administer 100% O₂, ventilate with BVM if needed
2. Intubate / PEEP, as indicated
3. Initiate IV / NS @ TKO
4. Monitor ECG, pulse oximetry, if available (Note: Pulse oximetry monitors may give false readings in patients exposed to CN / methemoglobin or CO.)
5. If hypotensive, consider fluid challenge and contact Medical Control for orders for Cyanokit 5 grams IV piggyback over 15 minutes.
6. Treat other presenting symptoms.
7. Transport to appropriate facility.

Indications:

(Sever Exposure) - Soot in nose / Mouth / Oropharynx + Coma / Respiratory Arrest / Cardiac Arrest + Hypotension


1. Administer 100% O₂, ventilate with BVM if needed
2. Intubate / PEEP, as indicated
3. Initiate IV / NS @ TKO
4. Monitor ECG, pulse oximetry, CO if available (Note: Pulse oximetry monitors may give false readings in patients exposed to CN / methemoglobin or CO.)
5. Administer Cyanokits 5 grams IV piggyback over 15 minutes and monitor for clinical



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response / and need for second 5 gram dose (Contact Medical Control as indicated)

6. Treat other presenting symptoms.
7. Transport to appropriate facility.

Dosage:

Adults: The starting dose of Cyanokit for adults is 5 grams administered by IV infusion over 15 minutes. Depending upon the severity of the poisoning and the clinical response, a second dose of 5 grams may be administered by IV infusion for a total dose of 10 grams. The rate of infusion of the second dose is 15 minutes to 2 hours.

The recommended diluent is 0.9% Sodium Chloride injection (not included in kit). Mix as directed in kit to black line on bottle. Lactated Ringers Solution may be used.

Multiple drugs are incompatible with the Cyanokit therefore a separate intravenous line may be required for administration.


Pediatric : Safety and effectiveness of Cyanokit have not been established in this population. In non-US marketing experience, a dose of 70 mg/kg has been used to treat pediatric patients.



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