



Hydroxocobalamin for Cyanide Toxicity – Adult / Adolescent

BACKGROUND:

Hydroxocobalamin binds with cyanide and limits cyanide interfering with body tissue emergency production.

INDICATIONS:

- Cyanide toxicity, known or suspected.
- Smoke inhalation, smoke generated from burning plastics or petroleum products.

CONTRAINDICATIONS:

- Known allergy to hydroxocobalamin.

PROCEDURE:

1. Make Base Hospital contact for a hydroxocobalamin order and possible burn center destination.
2. Mixing instructions for hydroxocobalamin supplied in a Cyanokit®:
 - A. Identify the 250 mL glass vial containing 5 gm of lyophilized hydroxocobalamin.
 - B. Place vial in an upright position. Add 200 mL of 0.9% normal saline to the vial using the transfer spike.
 - C. Repeatedly invert and rock vial (do not shake) for approximately 60 seconds.
 - D. When solution is dark red in color and no particles are visible, it is appropriate for infusion.
3. Patient management:
 - A. Remove the individual from the environment.
 - B. Assess ABCs and mental status and provide airway support as needed.
 - C. Apply high-flow oxygen by mask or nasal cannula as tolerated.
 - D. Establish IV / IO access.
 - E. Infuse hydroxocobalamin IV / IO over approximately 15 minutes.
 - F. Do not simultaneously administer other medications with hydroxocobalamin through the same IV / IO site.

Approved:

A handwritten signature in black ink, appearing to read "Shrikh ND".

Review Date: 07/26
Final Date for Implementation: 04/01/2027



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CAUTIONS:

- Use of hydroxocobalamin can cause the skin and mucous membranes to turn a reddish color. Allergic reactions have also been reported. Therefore, inform receiving facility that hydroxocobalamin was administered in the field prior to arrival.
- Increases in blood pressure may be observed and expected following hydroxocobalamin infusion.

Approved:

Shahid MD

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