

Cyanokit

Procedure

Douglas County KS EMS System

March 2022

Approved Provider: Paramedic

Reference Formulary: [Hydroxocobalamin](#)

Reference Protocols: [Carbon Monoxide](#)

Indications

Known or suspected cyanide poisoning.

Carbon Monoxide exposure with any of the following:

- Elevated SpCO
- Soot around the airway
- Hypotension not attributable to other obvious causes
- Headache
- Nausea/vomiting
- Tachypnea(early) bradypnea (Late)
- Altered mental status / Seizure
- Cardiac / Respiratory arrest
- Chest tightness

Contraindications

- Hypersensitivity to hydroxocobalamin or cyanocobalamin

Precautions

- Inform receiving hospital staff which line was used for hydroxocobalamin due to the following being incompatible: dobutamine, Nitroglycerin, Propofol, blood products.
- **Must be administered in its own IV line**

Procedure (Fig. 1&2)

- Gather supplies (all except NS bag are in cyanokit box)
 - Medication vial
 - Drip set (Must use 20 drop set included in kit)
 - Transfer spike
 - 3 way stopcock
 - 30mL syringe
 - 500mL NS bag
- Reconstitute by placing vial in upright position. Spike saline bag with transfer spike and add 200ml of NS into medication vial
- Remove transfer spike and mix medication. Repeatedly invert or rock the vial for 60 seconds. **Do not shake vial**
- Spike medication vial with included vented 20drop set
- Connect 3 way stopcock onto end of drop set
- Connect 30ml syringe to 3 way stopcock
- Purge all air from tubing
- Connect end of stopcock to patient IV or IO
- Using "push/pull" technique to administer medication over 15 minutes

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Complications

- Infiltration of IV or IO line
- Mild side effects possible from medication

Documentation

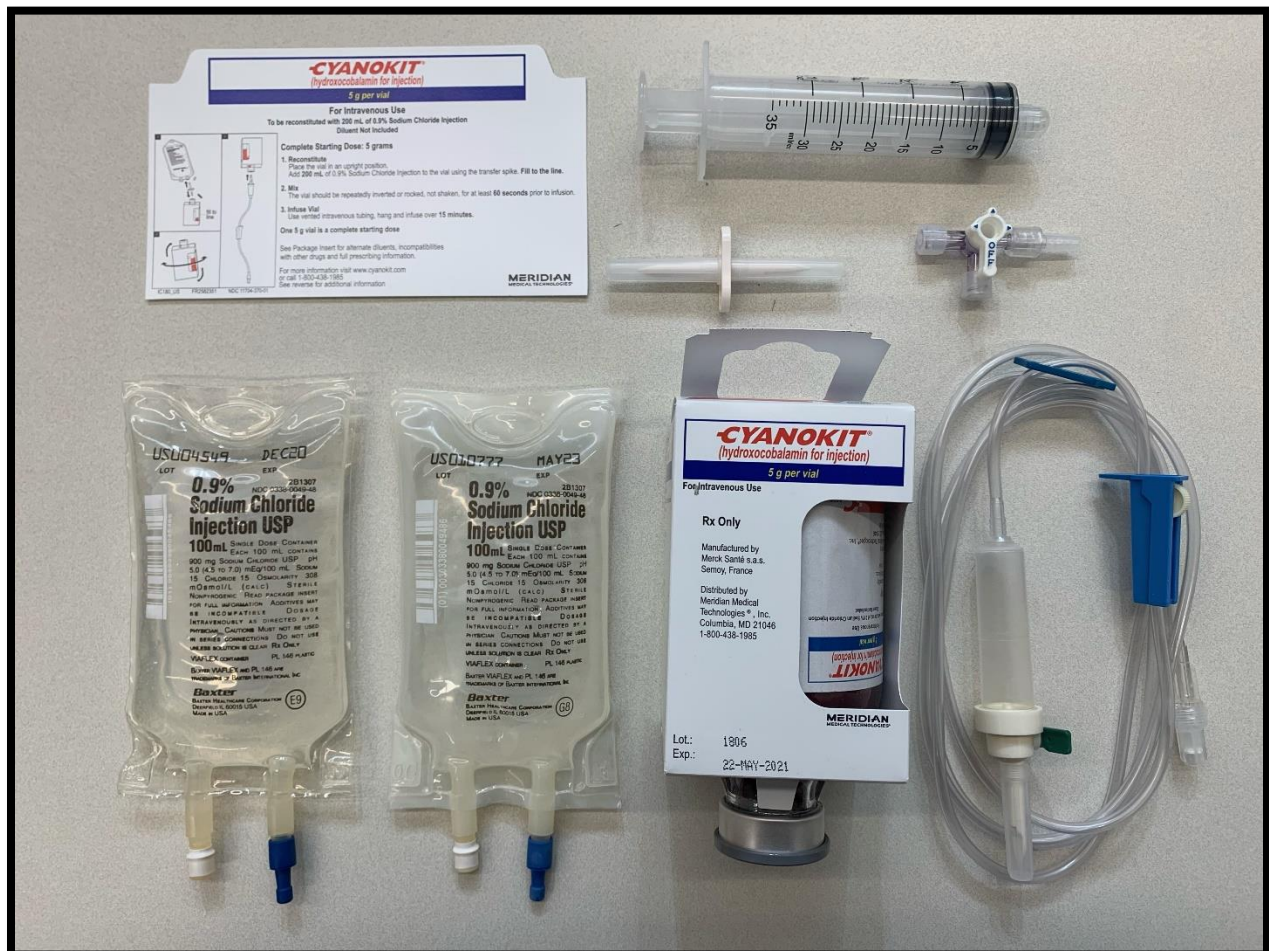
- Indications for procedure
- Description of procedure
- Response to procedure

Notes

- Using 30ml syringe with 3 way stopcock "push/pull" technique allows cyanokit to be administered in 15 minutes via IV or IO line.

Figure 1

Needed Supplies:



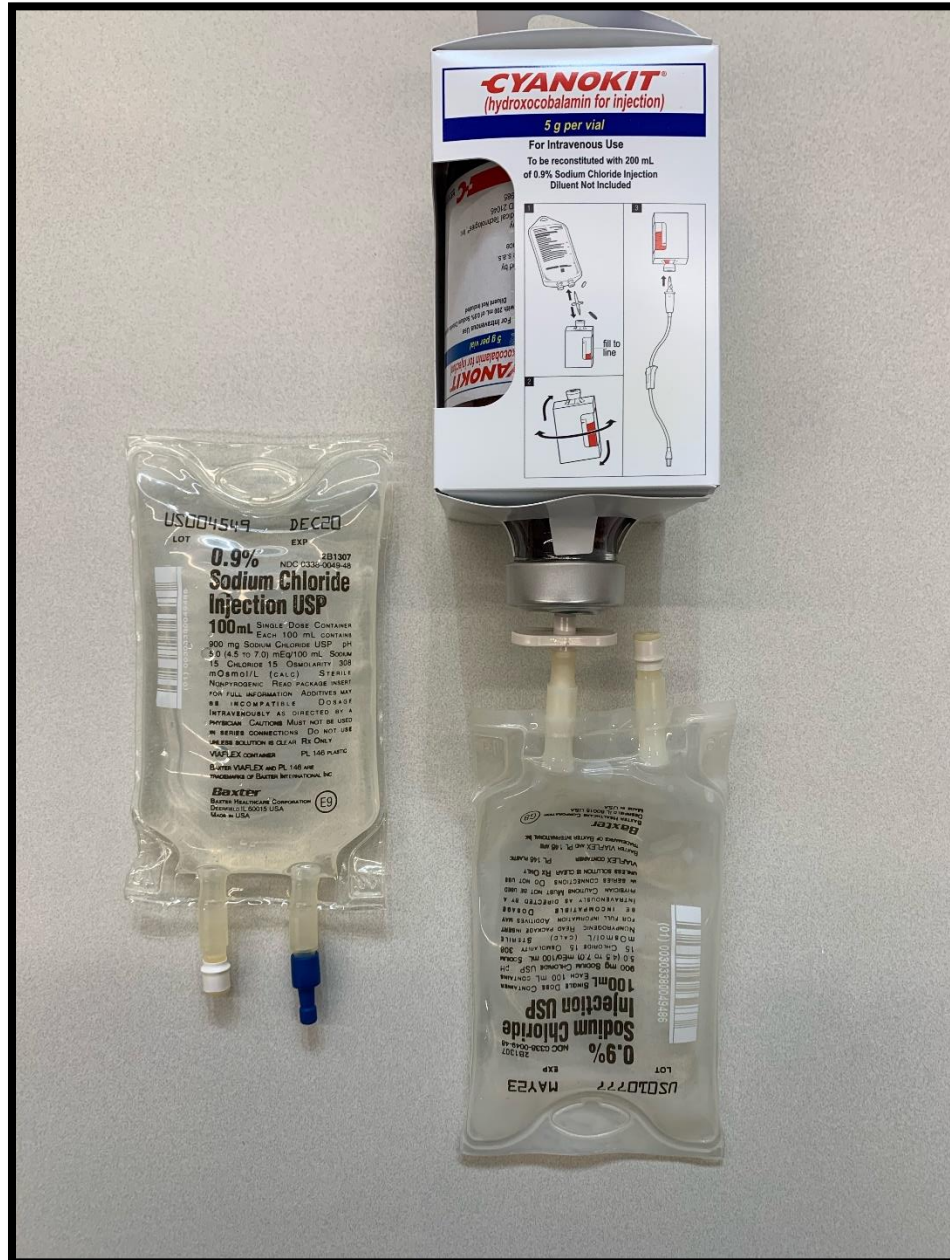
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Figure 2: Fill CyanoKit Solotion (glass bottle) with 200mL Sodium Chloride solution, using transfer spike



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Figure 3: Using a rocking or swirling motion to mix solution. (60 seconds)



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Figure 4/5: Attach tubing, 3-way stopcock and 30mL syringe to complete setup. Use the push/pull method truning the stopcock in the necessary manner to deliver 5 grams of medication over 15 minutes.

