

## **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

**Oakland County**  
**MEDICATION SECTION**  
**CYANOKIT® (HYDROXOCOBALAMIN)**

Initial Date: 9/19/2022

Section 11-15

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