

Hydroxocobalamin (Cyano-Kit®) – 20.190

CLASS: A

PROTOCOLS USED IN: Hydrogen Cyanide

PHARMACOLOGY AND ACTIONS:

Hydroxocobalamin (vitamin B12) is an effective antidote in the treatment of cyanide poisoning based on its ability to bind cyanide ions.

INDICATIONS:

Cyanide poisoning or smoke inhalation with suspected cyanide poisoning due to the presence of coma, persistent hypotension or cardiorespiratory arrest.

PRECAUTIONS:

Hydroxocobalamin has physical (particulate) and chemical incompatibilities with many medications and it is best to administer other drugs or products (e.g. blood) through a separate intravenous line.

SIDE EFFECTS AND NOTES:

- A. Can cause dark red or purple discoloration of the skin, mucosal membranes, blood, and urine.
- B. Because of its deep red color, Hydroxocobalamin has also been found to interfere with certain laboratory tests based on light absorption including co-oximetric measurements or carboxyhemoglobin, methemoglobin and oxyhemoglobin.

ADULT DOSING:

Cyanide poisoning or smoke inhalation with suspected cyanide poisoning - 5 grams IV or IO over 15 minutes. Vial should be reconstituted with 200 ml of normal saline. Contact OLMC regarding second dose. Monitor for clinical response.

PEDIATRIC DOSING:

Cyanide poisoning or smoke inhalation with suspected cyanide poisoning - 70 mg / kg IV or IO over 15 minutes. Vial should be reconstituted with 200 ml of normal saline. Contact OLMC regarding second dose. Monitor for clinical response.