

Disclaimer: These quizzes may be used in conjunction with the Cyanokit® Training DVD, if desired. Passing these quizzes, however, is not intended to be used to verify or certify a participant's knowledge of, or ability to address, events that may involve cyanide poisoning, and Dey, L.P. and the Florida Department of Health disclaims any and all liability for any such use. These quizzes are provided as a courtesy in response to customer requests.

Quiz 1.1

1. Cyanide can exist in all of the following forms except...
d. concrete
2. Cyanide can cause human toxicity by multiple routes. *Circle all that apply*
a. dermal contact
b. conjunctive contact
c. ingestion
d. inhalation
3. The most common cause of cyanide poisoning in industrialized countries is...
d. smoke inhalation from structural fires
4. Some foods containing cyanogenic glycosides can cause cyanide toxicity when they are...
c. ingested and/or metabolized in the body
5. Cyanide has been intentionally used in all of the following except...
e. professional wrestling

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Quiz 1.2

1. Smoke inhalation causes up to 80% of the approximately.....
b. 20,000 civilian and firefighter injuries and 4000 fire related deaths each year
2. Fire related morbidity and mortality have....
d. not declined although structural fires in the U.S. have
3. Hydrogen Cyanide is produced when materials containing these two elements are burned...
b. nitrogen and carbon
4. Common materials that produce cyanide gas when burned are... **Circle all that apply**
a. nylon
b. styrofoam
c. paper
d. plastic
5. Cyanide toxicity that causes death indirectly due to incapacitation is often referred to as the...
c. knock-down effect
6. Cyanide poisoning can be a more important determinant of smoke-inhalation mortality than...
e. all of the above

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Quiz 1.3

1. The annual production capacity of hydrogen cyanide for the U.S. in 2004 was...
c. 1.8 billion pounds
2. The use of cyanide in industry is associated with the risk of cyanide exposure through...
c. industrial or occupational accidents
3. Cyanide is transported by all of the following except...
c. airway

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Quiz 1.4

1. Cyanide is well suited as a terrorist weapon because...**Circle all that apply**
 - a. versatile delivery modalities**
 - b. abundant**
 - d. can cause mass incapacitation and casualties**

2. **True** or False - A probable outcome of a terrorist attack in which a fire occurs is that cyanide gas will be produced from burning materials.

3. **True** or False – Terrorist have intended to use cyanide as a weapon in several recently planned attacks

4. In order for an individual to use cyanide as a weapon, they...
 - c. do not need any special education or training**

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Quiz 1.5

1. Immediate intervention on the basis of a presumptive diagnosis for cyanide poisoning is almost always necessary because....
c. it takes too long to get blood test results back from the lab
2. Cyanide preparedness recommendations entail all of the following except...
c. stocking of cyanide antidote kits in the house
3. The best word to describe hospital preparedness regarding a cyanide emergency is...
d. inadequate
4. ALS providers' assessment of the likelihood of poisoning from known sources of cyanide exposure in their service areas was...
c. underestimated even in areas of higher risk and/or overestimated in areas of low risk
5. New pre-hospital protocols should be created to encourage...
d. empiric treatment of suspected cyanide poisoning
6. Cyanide antidote stockpiling guidelines should reflect...
b. community wide, coordinated emergency response plans

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Quiz 2.0

1. True or False

Cyanide causes toxicity by disrupting the ability of cells to use oxygen to produce adenosine triphosphate (ATP). The binding of cyanide to the enzyme mitochondrial cytochrome oxidase, inhibits the production of ATP which is needed as source of energy for the cells of the body. The lack of ATP results in cellular dysfunction and death.

2. Mild or early symptoms of cyanide poisoning include all of the following except...

c. hypotension

3. Symptoms of severe cyanide toxicity include... **Circle all that apply**

a. seizures

b. coma

c. respiratory depression

e. cardiac arrest

4. The treatment window for acute cyanide poisoning...

b. depends on the form of cyanide, route, concentration and duration of exposure

5. Cyanide poisoning is diagnosed on the basis of...

c. signs and symptoms and index of suspicion

6. Acute cyanide poisoning is a strong possibility when...

b. the victim has soot in the mouth, altered mental status and hypotension

7. Management of acute cyanide poisoning is treated by all of the following except...

d. inhaled corticosteroids

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Quiz 2.1

1. Until now, the only cyanide antidote available in the US was called...**Circle all that apply**
 - a. Lilly Kit
 - b. Taylor Kit
 - c. Cyanide Antidote Kit
 - e. Pasadena Kit

2. The Cyanide Antidote Package has three components...**Circle all that apply**
 - b. Sodium Nitrate
 - c. Sodium Thiosulfate
 - d. Amyl Nitrate

3. The cyanide antidote package can not be utilized based on a presumptive diagnosis of cyanide poisoning because...
 - b. nitrates form methemoglobin, reducing the ability of the blood to carry oxygen

4. Cyanide poisoning victims may be experiencing hypotension, nitrates...
 - a. may lower blood pressure, leading to cardiovascular failure

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Quiz 3.1

1. Vitamin B_{12a} is the hydroxylated (**Hydroxylation** is any chemical process that introduces one or more hydroxyl groups (-OH) into a compound (or radical) thereby [oxidising](#) it.) form of vitamin B₁₂ and is called...

d. Hydroxocobalamin

2. The mechanism of antidotal activity is that....

b. hydroxocobalmin binds with cyanide to form cyanocobalamin or B₁₂

3. Cyanocobalamin or B₁₂...

c. is stable and non-toxic and is excreted in the urine

4. Hydroxocobalamin may increase....

a. blood pressure

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Quiz 3.2

1. The efficacy of hydroxobolamin was tested using...
c. a canine model utilizing beagle dogs
2. The number of dogs receiving hydroxocobalamin 75 mg/kg, 150 mg/kg or saline were...
b. 19,18 and 17 respectively
3. The infusion period for all arms of the study was...
d. 7.5 min
4. All of the animals in this arm of the study survived....
c. the 150 mg/kg group
5. In the study by Borron et al., 2005, Study in Smoke Inhalation-Associated with Cyanide Poisoning, this many people survived after treatment with hydroxocobalamin...
c. 50
6. In the study regarding Non-Smoke Associated Cyanide Poisoning by Inhalation or Ingestion, this many patients survived after treatment with hydroxocobalamin....
d. 10

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Quiz 3.3

1. The most common drug related event reported in a study of hydroxocobalamin in healthy volunteers was...

d. self-limiting chromaturia and reddening of the skin

2. Infusion of hydroxocobalamin can cause...

c. an allergic reaction

3. Hydroxocobalamin may interfere with....

a. clinical laboratory evaluations

4. The pregnancy category for hydroxocobalamin is...

c. C

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Quiz 3.4

1. Hydroxocobalamin is indicated for the treatment of....
c. known or suspected cyanide poisoning

2. In addition to administration of an antidote, treatment of cyanide poisoning includes all of the following except...
c. Vitamin B₁₂ replenishment

3. Cyanokit® for intravenous infusion is supplied in a colorless, 250 mL glass vial containing 2.5 g lyophilized hydroxocobalamin that is pH adjusted with hydrochloric acid. The term lyophilized means....
d. freeze-dried

4. The recommended initial dose of Cyanokit® for adults is....
c. 5 g (2 vials) administered intravenous over 15 minutes