

ENVIRONMENTAL DISORDERS: PRACTICE CLINICAL SCENARIOS

Answers immediately follow the practice clinical scenarios.

Scenario A

Presentation: A middle-aged antique dealer presents complaining of hand discoloration and weakness. His symptoms started after using a rust and glass cleaner on some newly purchased glass sculptures and metal etchings. Laboratory studies are normal except for hypocalcemia.



Source: Dr. Watchorn (Wikimedia Commons: http://en.wikipedia.org/wiki/File:61569264_jamesheilman-224x2991.jpg)

What is the diagnosis?

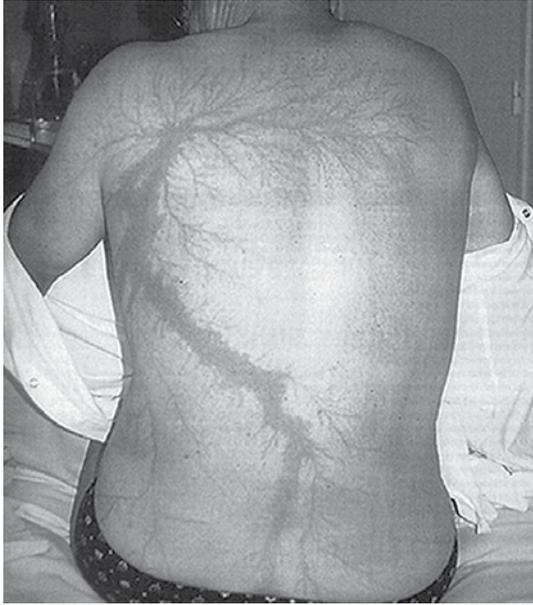
Scenario B

Presentation: A 4-year-old boy bites a household electrical cord and receives burn care at a local urgent care that day. Three days later, his parents bring him to the local emergency department with profuse lip bleeding with arterial pulsations. ABCs are started, and an emergent plastic surgery consult is obtained.

What is the diagnosis?

Scenario C

Presentation: A grandfather flies a kite with his grandson on a warm summer day when a storm rolls in. The grandfather attempts to rapidly bring down the kite when he is hit by lightning. He thinks he tripped while bringing the kite down but only recalls waking up on a grassy knoll. He is asymptomatic other than Lichtenberg figures.



Source: United States Department of Health and Human Services (Wikimedia: http://commons.wikimedia.org/wiki/File:Rear_view_of_a_lightning-strike_survivor_displaying_Lichtenberg_figure_on_skin.png)

What is the diagnosis?

Scenario D

Presentation: A licensed California marijuana farmer brings in a dead snake. He states the snake bit him on the hand while he was trying to harvest his crop. The snake has wide red bands next to narrow black bands.

What is the diagnosis?

Scenario E

Presentation: An emergency medicine physician from Ohio takes a morning flight into Denver after working all night. He and his wife drive immediately to a large ski resort a few hours outside of Denver. He begins to notice severe headache and nausea as he rides up the chairlift. His symptoms seem to improve as he descends the slope and recur as he rides back up the chairlift.

What is the diagnosis?

ANSWERS TO PRACTICE CLINICAL SCENARIOS

Scenario A

Diagnosis: hydrofluoric acid burn

Scenario B

Diagnosis: electrical lip burn

Management: Acutely, do not debride these wounds. Cleanse and apply a petroleum-based antibiotic ointment. Observe closely and refer to a plastic or oral surgeon for splinting and further care. Complications include delayed hemorrhage from the labial artery (10%–15% of patients) 3–14 days after injury, when the eschar separates, which is what occurred in this patient.

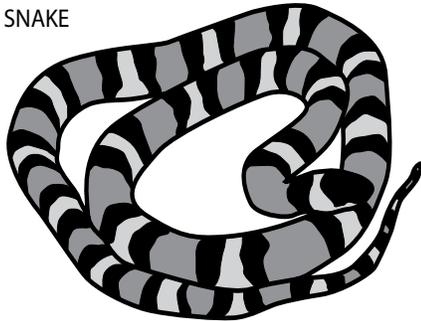
Scenario C

Diagnosis: lightning strike

Scenario D

Diagnosis: snake bite: “red on black, venom lack”

LOUISIANA MILK SNAKE

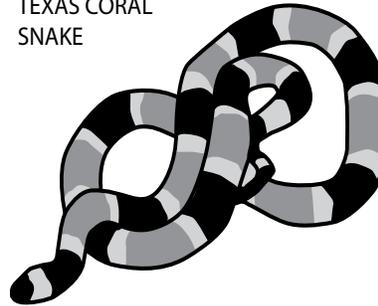


Red and Black
VENOM LACK



red | black | yellow | black | red

TEXAS CORAL SNAKE



Red and Yellow
KILL A FELLOW



yellow | red | black | red | yellow

Scenario E

Diagnosis: acute mountain sickness