A Desert Rash

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A 29-year-old man presented to the emergency department (ED) with a rash across his chest and abdomen. The rash began 2 hours before his arrival and was initially pruritic, but subsequently became painful. The patient also complained of acute onset of aching pain in both hips and his left arm. He denied associated chest pain or dyspnea, and had no paresthesias or disequilibrium. Routine laboratory studies and chest radiograph were normal. Earlier in the day, the patient had completed a dive to 235 feet in depth in Lake Mead, Nevada, but reported a very controlled ascent with appropriate decompression stops. Two days earlier, he had completed a dive to 315 feet in Lake Mead without any problems. [West J Emerg Med. 2011;12(4):563–564.]

DIAGNOSIS

Type I Decompression Sickness

Although decompression sickness (DCS) is commonly seen in coastal regions, it is uncommon in an inland desert community. As the ambient pressure around the diver’s body decreases during ascent, inert gas (primarily nitrogen) dissolved in the blood and tissues can come out of solution and form bubbles if the rate of ascent is not well controlled with appropriate staging. The classic signs and symptoms of DCS occur as these bubbles enter and affect various body tissues. DCS is typically categorized as Type I (musculoskeletal, nonsystemic) or Type II (systemic involvement). The symptoms of Type I DCS include joint pain (the bends), cutaneous manifestations (pruritis, burning, or a marbling rash), or, less commonly, lymphatic involvement with painless edema. Type II DCS is characterized by neurologic symptoms (numbness, paraesthesias, progressing to motor weakness), vestibular symptoms (the staggers), and/or pulmonary symptoms (the chokes). As in this case, DCS can often occur despite taking appropriate decompression stops during ascent.¹

The skin manifestation of DCS shown in the Figure (cutis marmorata) may precede the more serious Type II symptoms and should be treated with hyperbaric recompression. The patient received intravenous morphine for pain. The Hyperbaric Medicine service was consulted, and the patient underwent recompression per protocol. All

Figure. Skin manifestations of decompression sickness.
signs and symptoms abated after therapy, and he was discharged home.

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REFERENCES