

Case Report

Heat Stroke: A Medical Emergency Appearing in New Regions

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Heat stroke is an acute, life-threatening emergency characterized clinically by elevated body temperature and central nervous system dysfunction. Early recognition and treatment including aggressive cooling and management of life-threatening systemic complications are essential to reduce morbidity and mortality. This case report describes two Danish patients diagnosed with heat stroke syndrome during a heat wave in the summer of 2014. Both patients were morbidly obese and had several predisposing illnesses. However since heat stroke is a rare condition in areas with temperate climate, they were not diagnosed until several days after admittance; hence treatment with cooling was delayed. Both patients were admitted to the intensive care unit, where they were treated with an external cooling device and received treatment for complications. Both cases ended fatally. As global warming continues, more heat waves will occur in previously cooler regions. Therefore it is important to raise awareness of heat stroke since outcome depends on early recognition and rapid cooling.

1. Introduction

Classic heat stroke (HS) is an unusual diagnosis in countries with temperate climate. However, as global warming has resulted in a higher frequency of heat waves, an increase in weather-related heat deaths is seen [1–5].

Heat illnesses cover a spectrum of syndromes culminating with the acute, life-threatening emergency of HS that carries a high mortality [2, 3, 6–12]. HS is traditionally defined as a high core temperature accompanied by encephalopathy [6, 10–13]. An alternative definition that takes into consideration the pathophysiology is gaining recognition. This defines HS as hyperthermia associated with a systemic inflammatory response leading to multiorgan dysfunction in which encephalopathy predominates [11, 14].

Two forms of HS are recognized. Exertional HS primarily affects young and healthy athletic patients exercising vigorously in hot and humid climates until the body's normal thermoregulatory mechanisms are overwhelmed. Exertional

HS is characterized by rapid onset and is frequently associated with a high core temperature [2, 3, 6, 7, 9, 10, 12, 13, 15].

Classic (passive or nonexertional) HS is caused by environmental exposure and occurs in young children, in elderly patients or in patients with underlying chronic illnesses, who are exposed to extreme environmental conditions. Classic HS can develop slowly over several days [2, 3, 7, 9, 10, 12, 13, 15].

HS occurs when the body ceases to dissipate heat adequately because of extreme environmental conditions or increased endogenous heat production [15]. When the body's thermoregulatory mechanisms are exceeded and fail, a variable degree of organ failure may occur [15]. Furthermore complex immunological and inflammatory processes that resemble SIRS (systemic inflammatory response syndrome) contribute to the illness [2, 3, 6, 10–14]. Rapid diagnosis and prompt cooling are pivotal, since the condition triggers a cascade of metabolic events that may progress to irreversible injury or death [2, 4, 6, 13]. In-hospital mortality for classical HS ranges from 10 to 65% [2].

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