Age	Elderly	
Environmental	High ambient temperature and	
	humidity	
	Heat waves	
	Poor ventilation	
Behavioural	Lack of acclimatization	
	Salt and water deprivation	
	Obesity	
Underlying conditions	Infection/fever	
	Diabetes	
	Malnutrition	
	Alcoholism	
	Hyperthyroidism	
	Impaired sweat production	
	Healed burns	
	Ectodermal dysplasia	
	Impaired sweating	
	Cardiovascular disease	
	Fatigue	
	Potassium deficiency	
Drugs	Anticholinergics	
	Antiparkinsonians	
	Antihistamines	
	Butyrophenones	
	Phenothiazines	
	Tricyclics	
	Diuretics	

factors predisposing to heatstroke

> classic vs exertional heatstroke

hyperthermia

causes of hyperthermia

	Classic heat stroke	Exertional heat stoke
Arterial gases	Mixed respiratory alkalosis	Severe metabolic acidosis
Serum electrolytes	Na+, Mg+, Ca ²⁺ , Mg ²⁺ are usually normal	Hyperkalaemia
		Hypocalcaemia
	Hypophosphataemia	Hyperphosphataemia
Blood glucose	Hyperglycaemia	Hypoglycaemia
Creatinine kinase	Moderately increased	Markedly increased
Hepatic enzymes	Markedly increased	Moderately increased
Acute phase proteins	Markedly increased	Moderately increased

Heat stroke (exertional) heat production Malignant hyperthermia Neuroleptic malignant syndrome Lethal catatonia Thyrotoxicosis Phaeochromocytoma Salicylate intoxication Sympathomimetic drug abuse Delirium tremens Seizures Tetanus Heat stroke (classic) Disorders of diminished Dehydration heat dissipation Autonomic dysfunction Anticholinergic poisoning Neuroleptic malignant syndrome Cerebrovascular accidents Disorders of hypothalamic function Encephalitis Trauma Granulomatous diseases Neuroleptic malignant syndrome

Disorders of excessive

Exertional hyperthermia