HEAT RELATED ILLNESS

CREATED BY STRATA5.CO.UK

THOSE AT EXTREMES OF AGE AND INDIVIDUALS WHO PARTICIPATE IN STRENUOUS EXERCISE ARE MORE VULNERABLE

IN BRITAIN MOST DEATHS ARE IN PEOPLE OVER THE AGE OF 70 AND OCCUR IN THE FIRST FEW DAYS OF A HEAT WAVE







MORTALITY INCREASES DURING HEAT WAVES BUT ALSO DECREASES IN THE WEEK FOLLOWING A HEAT WAVE

HEAT STROKE

ENCEPHALOPATHY. ANHYDROSIS. **CORE BODY TEMP ABOVE**

SYSTEM / CLINICAL FEATURE

SKIN - OFTEN HOT AND DRY (ANHYDROSIS), OCCASIONALLY SWEATING

MUSCULOSKELETAL - RHABDOMYOLYSIS

RENAL - OLIGURIA AND RENAL FAILURE

CARDIOVASCULAR - HIGH OUTPUT CARDIAC FAILURE, DYSRHYTHMIA, HYPOTENSION

COAGULATION - DISSEMINATED INTRAVASCULAR COAGULATION WITH HAEMORRHAGE

GASTROINTESTINAL - VOMITING, HEPATIC NECROSIS, PANCREATITIS

RESPIRATORY - ACUTE RESPIRATORY DISTRESS SYNDROME

NEUROLOGICAL - CONFUSION, HALLUCINATION, ATAXIA, SEIZURES, COM

A PATIENT MAY PRESENT WITH HEAT STROKE AND A BODY TEMPERATURE BELOW 40°C, PARTICULARLY IF COOLING HAS OCCURRED DURING TRANSPORT TO HOSPITAL







DIFFERENTIAL DIAGNOSIS

SEPSIS E.G. PNEUMONIA, UTI, MENINGITIS, ENDOCARDITIS TROPICAL INFECTION, E.G. MALARIA, TYPHOID ENDOCRINOPATHY, E.G. THYROID STORM, PHAEOCHROMOCYTOMA STATUS EPILEPTICUS

INTRACEREBRAL HAEMORRHAGE ESP. THALAMIC HAEMORRHAGE

ALCOHOL WITHDRAWAL

ANTICHOLINERGIC TOXICITY

SALICYLATE TOXICITY

ILLICIT DRUG USE, E.G. COCAINE, AMPHETAMINE

NEUROLEPTIC MALIGNANT SYNDROME

MALIGNANT HYPERPYREXIA

MANAGEMENT

INVOLVES ACTIVE COOLING. INTRAVENOUS FLUIDS, INVASIVE MONITORING & FULL SUPPORTIVE CARE IN AN ICU SETTING

TARGET CORE TEMPERATURE WHEN COOLING



SOURCE RCEMLEARNING / SPONSORED BY AD PRAC