

Preface

Heat stroke or heatstroke, also known as sun-stroke, is a severe heat illness that results in a body temperature greater than 40.0 °C (104.0 °F), along with red skin, headache, dizziness, and confusion. Sweating is generally present in exertional heatstroke, but not in classic heatstroke. The start of heat stroke can be sudden or gradual. Heatstroke is a life-threatening condition due to the potential for multi-organ dysfunction, with typical complications including seizures, rhabdomyolysis, or kidney failure.

Heat stroke occurs because of high external temperatures and/or physical exertion. It usually occurs under preventable prolonged exposure to extreme environmental or exertional heat.^[6] However, certain health conditions can increase the risk of heat stroke, and patients, especially children, with certain genetic predispositions are vulnerable to heatstroke under relatively mild conditions.ⁱ

In the present book, thirteen typical literatures about heatstroke published on international authoritative journals were selected to introduce the worldwide newest progress, which contains reviews or original researches on heatstroke. We hope this book can demonstrate advances in heatstroke as well as give references to the researchers, students and other related people.

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ⁱ https://en.wikipedia.org/wiki/Heat_stroke