

## Case Report

# Heat Stroke: A Medical Emergency Appearing in New Regions

Sofie Søndergaard Mørch,<sup>1</sup> Johnny Dohn Holmgren Andersen,<sup>2</sup>  
and Morten Heiberg Bestle<sup>3</sup>

<sup>1</sup>Department of Anaesthesiology and Intensive Care, Bispebjerg Hospital, Bispebjerg Bakke 23, 2400 København NV, Denmark

<sup>2</sup>Department of Anaesthesiology and Intensive Care, Hvidovre Hospital, Kettegård Allé 30, 2650 Hvidovre, Denmark

<sup>3</sup>Department of Anaesthesiology and Intensive Care, Norddjurs Hospital, Dyrhøvsvej 29, 8400 Hillerød, Denmark

Correspondence should be addressed to Sofie Søndergaard Mørch; [sofiesmorch@gmail.com](mailto:sofiesmorch@gmail.com)

Received 12 June 2017; Revised 25 July 2017; Accepted 6 August 2017; Published 13 September 2017

Academic Editor: Kenneth S. Waxman

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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].

# Neuropathological Report For Heat Stroke

**N Colangelo**



## **Neuropathological Report For Heat Stroke:**

*Forensic Neuropathology and Associated Neurology* Manfred Oehmichen, Roland N. Auer, Hans Günter König, 2006 The present volume deals with specific aspects of neuropathology for forensic and clinical neuropathologists with particular emphasis on their relevance to everyday practice Each chapter includes an overview of the literature as well as specific references and features a wealth of figures graphs and tables

**Forensic Neuropathology** Hideo H. Itabashi MD, John M. Andrews MD, Uwamie Tomiyasu MD, Stephanie S. Erlich MD, Lakshmanan Sathyavagiswaran, 2011-08-29 Forensic Neuropathology provides superior visual examples of the more commonly encountered conditions in forensic neuropathology and answers questions that arise regarding neuropathological findings The work includes values for frequently encountered clinical assessments and contains a more comprehensive summary of aging dating of various neuropathological processes than is available in any other single current source General pathology residents forensic pathology and neuropathology fellows and general pathologists and clinicians involved in referred cases will find this book extremely useful as will individuals in allied fields such as law enforcement officers and attorneys Forensic Neuropathology aims to 1 provide a concise summary of practical information frequently needed in forensic neuropathology cases 2 include selected material previously known but perhaps not significantly emphasized in current literature and 3 where possible to suggest aging dating parameters for certain neuropathological findings relevant to forensic neuropathology testimony As a selective reference the volume emphasizes practical issues and focuses on the most commonly encountered issues among neuropathology and medical examiner professionals Over 800 high quality full color photographs gross and microscopic as well as illustrative line drawings Use of actual cases briefly summarized and illustrated to emphasize key principles Focuses on the most commonly encountered cases as relate to forensic incident and covers these aspects in depth and detail

**Journal of Neuropathology and Experimental Neurology**, 1945 **United States Naval Medical Bulletin** United States. Department of the Navy. Bureau of Medicine and Surgery, 1928

*Neurobiology of Hyperthermia* Hari Shanker Sharma, 2011-09-22 The effects of global warming on human health factors with special regards to our brain function are still not well understood There is an urgent need to expand our knowledge on the effects of hot environment on our brain functions in healthy and in diseased populations It is still unclear whether infectious events traumatic injuries metabolic diseases carcinogenic events cardiovascular and respiratory functions will be adversely affected by the rise in global temperature or whether environmental pollutants such as nanoparticles entered into our body system will produce more damage at high ambient temperatures This book aims to answer these questions based on recent research carried out by top experts in the field from the USA 11 chapters Europe 8 chapters the Middle East 3 chapters Asia 2 chapters and Canada 1 These chapters are written in review style and embedded with the author's new and original data in relation to the current knowledge in the field The book is highly interesting to the first time readers beginners and students alike as well as provides

in depth knowledge to the professionals In addition prospects for future research and recommendations are clearly indicated in each chapter for future growth of the subject in this highly emerging new discipline Describes the importance of brain temperature and hyperthermia in disease processes Presents research on the first observations on Nanoparticles that worsen the outcome of hyperthermia Discusses the effects of hyperthermia on the blood brain and blood cerebrospinal fluid barriers

**Greenfield's Neuropathology Eighth Edition 2-Volume Set** Seth Love,David Louis,David W Ellison,2008-02-29

Greenfield s Neuropathology the worlds leading neuropathology reference provides an authoritative comprehensive account of the pathological findings in neurological disease their biological basis and their clinical manifestations This account is underpinned throughout by a clear description of the molecular and cellular processes and reactions that are relevant to the development and normal and abnormal functioning of the nervous system While this scientific content is of paramount importance however care has been taken to ensure that the information is presented in a way that is accessible to readers working within a range of disciplines in the clinical neurosciences and that also places the neuropathological findings within the context of a broader diagnostic process The new eighth edition incorporates much new information new illustrations and many new authors while retaining the depth breadth and quality of content so praised in previous editions Each chapter opens with an introductory section designed to offer an integrated approach to diagnosis taking account of clinical manifestations neuroradiological and laboratory findings as well as the neuropathological and molecular genetic features of the diseases being considered Strong emphasis has been placed on facilitating the retrieval of neuropathological information by non neuropathologists grappling with differential diagnoses or seeking information on broad categories of neurological disease and boxes and tables are used to present important symptoms and signs patterns of disease and other features for ease of reference High quality line and photographic illustrations the majority in full colour are all available on a companion CD to complete the offering *Greenfield's Neuropathology, 2-Volume Set, Eighth Edition* Seth Love,David Louis,David W Ellison,2008-02-29 Greenfield s Neuropathology the worlds leading neuropathology reference provides an authoritative comprehensive account of the pathological findings in neurological disease their biological basis and their clinical manifestations This account is underpinned throughout by a clear description of the molecular and cellular processes and reactions that are relevant to the development and normal and abnormal functioning of the nervous system While this scientific content is of paramount importance however care has been taken to ensure that the information is presented in a way that is accessible to readers working within a range of disciplines in the clinical neurosciences and that also places the neuropathological findings within the context of a broader diagnostic process The new eighth edition incorporates much new information new illustrations and many new authors while retaining the depth breadth and quality of content so praised in previous editions Each chapter opens with an introductory section designed to offer an integrated approach to diagnosis taking account of clinical manifestations neuroradiological and laboratory findings as well as the neuropathological and

molecular genetic features of the diseases being considered Strong emphasis has been placed on facilitating the retrieval of neuropathological information by non neuropathologists grappling with differential diagnoses or seeking information on broad categories of neurological disease and boxes and tables are used to present important symptoms and signs patterns of disease and other features for ease of reference High quality line and photographic illustrations the majority in full colour are all available on a companion CD to complete the offering

Developmental Neuropathology Reinhard L. Friede, 2012-12-06 I was gratified by the most favorable reception and wide usage received by the first edition of this book A decade seems to be a short period for a book on pathology and yet it witnessed many important changes of concepts along with a formidable growth of knowledge The second edition required extensive reorganization There are new chapters on mitochondriopathies on peroxisomal diseases and on spongy myelino pathies Major revisions and new additions were necessary in many chapters for instance those on the dysplasias of the cerebral and of the cerebellar hemispheres which were largely reorganized The chapters on perinatal pathology were reordered and reorganized to give a more logical sequence of prenatal perinatal and postnatal lesions The entire text was worked over for brevity A wealth of new references was added with the aim of staying abreast with the literature up to summer 1988 All refer ences were double checked for errors My gratitude goes to Mrs Gisela Ropte and Mrs Cynthia Bunker for their untiring diligent help As a result this second edition is an essentially rewritten text Advance in the prevention of human suffering is based on a thorough understand ing of the nature of disease I hope that this text will continue to be of service in this behalf Perhaps it may also reflect and foster the intellectual curiosity which makes the reading of brains so interesting an occupation Gottingen 1989 Reinhard L

**Global Excellence in Cellular Neuropathology: Ukraine** Oleg Krishtal, Elena A. Lukyanetz, Dirk M. Hermann, Andrii O. Cherninskyi, 2024-01-22 Global collaboration is the cornerstone of scientific advancement Frontiers in Cellular Neuroscience has organized a series of special edition Research Topics with the goal of highlighting the latest advancements in Neuropathology across the globe showcasing the academic excellence and high quality work of internationally recognized researchers These collections aim to shed light on the recent progress made across the entire breadth of the Cellular Neuropathology field and reflect on the future challenges faced by researchers across borders

**Nanomedicine and Neuroprotection in Brain Diseases** Hari Shanker Sharma, Aruna Sharma, 2021-09-22 Progress in Brain Research series highlights new advances in the field with this new volume presenting interesting chapters Each chapter is written by an international board of authors Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Progress in Brain Research series Updated release includes the latest information on the Neuropharmacology of Neuroprotection

Neurologic Complications of Critical Illness Eelco F. M. Wijdicks, 2002 This is a thoroughly revised and expanded second edition of the definitive volume on the diagnosis and management of neurologic complications during critical illness originally published under the title Critical Illness by FA Davis in 1995 Among the new features for the second

edition are chapters on the evaluation of coma focused on structural causes neurologic complications in the critically ill pregnant patient and withdrawal of life support The book is intended for neurologists intensivists anesthesiologists pulmonologists neurology and ICU nurses neurosurgeons and transplant surgeons working in surgical and medical intensive care units including transplant units     Hearings and Reports on Atomic Energy United States. Congress. Joint Committee on Atomic Energy,1957     Greenfield's Neuropathology 10e Set Colin Smith,Arie Perry,Gabor Kovacs,Thomas Jacques,2024-11-07 Greenfield s is the world s leading neuropathology reference It provides a comprehensive account of the pathological findings in neurological disease their biological basis and their clinical manifestations The two volume work provides a remarkable text which is clear comprehensive and precise with exceptional illustrations The tenth edition features fully updated sections covering CNS tumours neurodegeneration skeletal muscle epilepsy paediatric and forensic neuropathology Expert coverage from an international team of Editors and contributors ensures authoritative and up to date content The two volume set includes a downloadable and easily used e version This is a tried and tested reference for scientists clinicians researchers and students who wish to learn more about neurological disease     **JRCALC Clinical Guidelines 2022** Joint Royal Colleges Ambulance Liaison Committee,Association of Ambulance Chief Executives,2022-11-07 Combining expert advice with practical guidance the Joint Royal Colleges Ambulance Liaison Committee Clinical Guidelines are the essential resource for paramedics The guidelines are written specifically for the ambulance paramedic role providing a comprehensive overview of the principle areas they may encounter and supporting them in providing excellent patient care This 2022 edition has been updated with the latest evidence and developments in clinical practice Key reviews have taken place on guidelines within the Resuscitation and Special Situations sections as well as updates to Maternity guidelines such as Care of the Newborn and Newborn Life Support Medicine guidelines have been removed but are available on the iCPG and JRCALC Plus apps where they are regularly updated to ensure that the most up to date guidance is available to clinicians The JRCALC Clinical Guidelines 2022 now contains crucial guidance on topics including Acute Behavioural Disturbance Alcohol use disorders Low Back Pain Non Traumatic Patients with Communication Difficulties Steroid Dependent patients Vascular Emergencies Medicine information and updates to guidelines are published on the JRCALC apps iCPG and JRCALC Plus as required The JRCALC apps contain the complete and most current information     Cumulated Index Medicus ,1994     *JRCALC Clinical Guidelines 2019* Association of Ambulance Chief Executives,Joint Royal Colleges Ambulance Liaison Committee,2019-08-05 The Joint Royal Colleges Ambulance Liaison Committee guidelines are the essential resource for paramedics The 2019 edition of the book has been brought up to date with the latest evidence and developments in clinical practice JRCALC combines expert advice with practical guidance to help paramedics in their challenging roles with the overall objective of improving patient care Key updates are Resuscitation and cardiac arrest The pathophysiology of cardiac arrest checklist use and pulseless electrical activity is discussed extensively within the context of every day out of hospital

practice A new guideline on tracheostomy and laryngectomy is included alongside clinical skills photographs Consent and patient confidentiality The guideline is brought up to date with the Data Protection Act 2018 following the General Data Protection Regulations Mental health presentation crisis distress and disordered behaviour A reviewed guideline supports the clinician with practical help on the assessment and management of different mental health illnesses Major complex and high risk Incidents A revision by the National Ambulance Resilience Unit covers poisons rail incidents and police incapacitants New medicines are included Activated charcoal duodote and morphine sulfate for end of life care Other reviews and updates include head injury hyperventilation syndrome stroke respiratory illness in children and acute coronary syndrome

*Forensic Neuropathology* Helen Whitwell, Christopher Milroy, Daniel du Plessis, 2021-08-09 Forensic neuropathology is an important specialty within forensic pathology In addition to traumatic brain injury in the adult and child forensic neuropathologists must also consider the role of natural disease within the forensic setting such as cerebrovascular disease as well as neurotoxicology Focusing on difficulties that arise in the medico legal context the chapters include techniques for the post mortem examination of the brain and related structures Forensic pathologists neuropathologists general pathologists clinical forensic specialists as well as neuroscientists neurologists and neurosurgeons will all find useful information In addition members of the legal profession have found this an important reference work Chapters have been extensively revised and new content includes Chronic traumatic encephalopathy related pathology Sudden unexplained death in epilepsy Biomechanics of head injury Updates on pathological aspects of head injury including infant head injury with ocular pathology Clinical aspects of head injury and spinal injury including a new chapter on neuroradiology Reviews of the First Edition This outstanding book is unique Well illustrated with high quality colour photographs and line drawings it reads well Strongly recommended for trainees in histopathology neuropathology paediatric pathology and forensic pathology as well as for consultants practising in these fields

Report Saint Elizabeths Hospital (Washington, D.C.), 1921

Developmental Neuropathology Homa Adle-Biassette, Brian N. Harding, Jeffrey A. Golden, 2018-02-22 A definitive clinically oriented guide to the pathology of genetics of developmental neuropathology Developmental neuropathology relates to the wide range of disorders affecting the developing brain or pre and post natal life with emphasis on the genetic and molecular mechanisms involved This book provides a practical guide to diagnosing and understanding these disorders affecting this vulnerable population and potentially stimulates further advances in this exciting area It also addresses the controversies in inflicted head injury in infants The fourth major title to be approved by the International Society of Neuropathology ISN Developmental Neuropathology offers in depth chapter coverage of brain development chromosomal changes malformations secondary malformations and destructive pathologies developmental vascular disorders acquired metabolic and exogenous toxins metabolic disorders Rett syndrome and autism and infectious diseases The text provides Clinical disease oriented approach to the pathology and genetics developmental neuropathology Fuses classical and

contemporary investigative approaches Includes genetic and molecular biological pathogenesises Fully illustrated Approved and endorsed by International Society of Neuropathology Developmental Neuropathology is the perfect book for practicing neuropathologists pediatric pathologists general pathologists neurologists and geneticists in deciphering the pathology and pathogenesis of these complex disorders affecting the nervous system of the embryo fetus and child *Brain Protection Strategies and Nanomedicine* ,2021-10-22 Brain Protection Strategies and Nanomedicine Volume 266 in the Progress in Brain Research serial highlights new advances in the field with this new volume presenting interesting chapters on a variety of topics including Histamine H3 and H4 receptors modulate Parkinson s disease induced brain pathology Neuroprotective effects of nanowired BF 2649 and clobenpropit with anti histamine antibody therapy Ultra Early Molecular Biologic Diagnosis Of Malignant And Neurodegenerative Diseases By The Immunospecific Profiles Of The Proteins Markers Of The Surface Of The Mobilized Autologous Hematopoietic Stem Cells Neuroprotective effects of Insulin like growth factor 1 on Engineered metal Nanoparticles Ag Cu and Al induced blood brain barrier breakdown and more Other chapters cover how Methamphetamine exacerbates pathophysiology of traumatic brain injury at high altitude Neuroprotective effects of nanodelivery of a potent antioxidant compound H 290 51 Effectiveness of bortezomib and temozolomide for eradication of recurrent human glioblastoma cells resistant to radiation and more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in Progress in Brain Research serials Includes the latest information on brain protection strategies and nanomedicine



## Reviewing **Neuropathological Report For Heat Stroke**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Neuropathological Report For Heat Stroke**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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