

Pediatric Vehicular Heatstroke Literature Summary

(Updated 5/31/2024)

General

Multi Discipline Assessment of NOAA National Weather Service Methods to Warn for Extreme Heat Events

<https://ui.adsabs.harvard.edu/abs/2017WCS.....9....5H/abstract>

Children Left Unattended in Parked Vehicles in India: An Analysis of 40 Fatalities from 2011 to 2020

<https://academic.oup.com/tropej/article/67/3/fmaa075/5905603>

Evaluating the impact of solar radiation on pediatric heat balance within enclosed, hot vehicle

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6204985/pdf/ktmp-05-03-1468205.pdf>

Forgotten children in parked vehicles a review of Italian fatalities.

<https://pubmed.ncbi.nlm.nih.gov/29381013/#:~:text=Abstract,families%2C%20communities%20and%20public%20opinion>

Heat related deaths to young children in parked cars: an analysis of 171 fatalities in the United States, 1995-2002

<https://injuryprevention.bmj.com/content/11/1/33>

Heat Stress from Enclosed Vehicles: Moderate Ambient Temperatures Cause Significant Temperature Rise in Enclosed Vehicles <https://www.noheatstroke.org/s/Null-Pediatrics.pdf>

Hyperthermia deaths among children in parked vehicles

<https://pubmed.ncbi.nlm.nih.gov/20204546/> Impact of ambient temperature on children's health
<https://pubmed.ncbi.nlm.nih.gov/22831555/>

Impact of dangerous microclimate conditions within an enclosed vehicle on pediatric thermoregulation

<https://link.springer.com/article/10.1007/s00704-015-1636-2>

Not-in-Traffic Surveillance 2007

<https://rosap.ntl.bts.gov/view/dot/6415>

Pediatric Heatstroke Fatalities Caused by Being Left in Motor Vehicles

https://journals.lww.com/pec-online/abstract/2021/12000/pediatric_heatstroke_fatalities_caused_by_being.158.aspx

Preventing children's death by heatstroke: How alternative accident theories affect policy design and evaluation

<https://journals.sagepub.com/doi/10.1177/1356389021999408>

Threat of paediatric hyperthermia in an enclosed vehicle: a year-round study

<https://injuryprevention.bmj.com/content/20/4/220>

Unintentional nontraffic injury and fatal events

<https://pubmed.ncbi.nlm.nih.gov/28933560/>

Weather Geography and Vehicle Related Hyperthermia in Children

<https://pubmed.ncbi.nlm.nih.gov/22164877/>

Paediatric hyperthermia-related deaths while entrapped and unattended inside vehicles: The Canadian experience and anticipatory guidance for prevention

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7147705/pdf/pxz087.pdf>

Legal

A Case Examination of Factors Impacting Charges in Vehicular Heat

<https://scholarcommons.sc.edu/cgi/viewcontent.cgi?article=1002&context=scurs>

Crime and Parenthood: The Uneasy Case for Prosecution of Negligent Parents

https://scholar.smu.edu/law_faculty/546/

Hot-Car Deaths and Forgotten-Baby Syndrome A Case Against Prosecution

https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3641716

Vehicular Heat Stroke Fatalities - Tragic Accident or Murder?

<https://books.apple.com/pl/book/vehicular-heat-stroke-fatalities-tragic-accident-or/id516791776>

When a child dies of heatstroke after a parent or caretaker unknowingly leaves the child in a car: How does it happen and is it a crime?

<https://journals.sagepub.com/doi/10.1177/0025802419831529>

Child Vehicular Heatstroke Deaths: How the Criminal Legal System Punishes Grieving Parents Over a Neurobiological Response

<https://cardozolawreview.com/child-vehicular-heatstroke-deaths-how-the-criminal-legal-system-punishes-grieving-parents-over-a-neurobiological-response/>

Medical

Environmental Hyperthermic Infant and Early Childhood Death

https://journals.lww.com/amjforensicmedicine/abstract/2001/12000/environmental_hyperthermic_infant_and_early.8.aspx

Evaluating infant core temperature response in a hot car using a heat balance model

<https://pubmed.ncbi.nlm.nih.gov/25332172/>

Fatal heat stroke in children found in parked cars: autopsy findings

<https://pubmed.ncbi.nlm.nih.gov/27438022/>

Heat stroke in children - UpToDate

<https://www.uptodate.com/contents/heat-stroke-in-children>

Thermoregulation during heat exposure of young children compared to their mothers

<https://pubmed.ncbi.nlm.nih.gov/8789564/>

NEW - Certification of Vehicular Hyperthermia Deaths in the Pediatric Population

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6474485/#:~:text=Up%20to%2040%25%20of%20children,arrhythmia%2C%20seizures%2C%20or%20shock>

NEW -The National Association of Medical Examiners Position Paper on the Investigation and Certification of Pediatric Deaths From Environmental Neglect

<https://pubmed.ncbi.nlm.nih.gov/38215052/>

Psychology, Human Factors

Assessing parental awareness and attitudes toward leaving children unattended inside locked cars and the risk of vehicular heat strokes

<https://www.sciencedirect.com/science/article/pii/S2352646719302170>

Children Forgotten in Hot Cars - A Mental Models Approach for Improving Public Health Messaging

<https://pubmed.ncbi.nlm.nih.gov/28794064/>

Forgotten or never consciously processed? A comparison of immediate and delayed recall of driving details

<https://www.sciencedirect.com/science/article/pii/S2590198220300609>

They Forgot Their “Baby” ?!: Factors That Lead Students to Forget Their Cell Phone

<https://psycnet.apa.org/fulltext/2023-70258-001.html>

US caregivers' attitudes and risk perceptions towards pediatric vehicular heatstroke: A national survey

<https://pubmed.ncbi.nlm.nih.gov/37352613/>

Technology

Are Parents Willing to Use Technology to Prevent the Tragedy of Forgetting Children Inside Cars?

<https://opentransportationjournal.com/VOLUME/13/PAGE/162/FULLTEXT/>

Feasibility Study of Vehicular Heatstroke Avoidance System for Children

https://www.researchgate.net/publication/286002022_Feasibility_Study_of_Vehicular_Heatstroke_Avoidance_System_for_Children

Guide to Rear-Seat Reminder Systems

<https://www.consumerreports.org/car-safety/guide-to-rear-seat-reminder-systems/>

Functional Assessment of Unattended Child Reminder Systems

<https://www.nhtsa.gov/document/functional-assessment-unattended-child-reminder-systems-0>

Pediatric Vehicular Heatstroke: Evaluation of Preventative Technologies

<https://vtechworks.lib.vt.edu/handle/10919/102958>

Vehicle Heating

Cabin air temperature of parked vehicles in summer conditions: life-threatening environment for children and pets calculated by a dynamic model

<https://ui.adsabs.harvard.edu/abs/2017ThApC.130..107H/abstract>

Drugs, dogs, and driving: the potential for year-round thermal stress in UK vehicles

<https://www.x-mol.net/paper/article/1304350971609190400>

Effect of Open-Window Gaps on the Thermal Environment inside Vehicles Exposed to Solar Radiation

<https://www.mdpi.com/1996-1073/15/17/6411>

Experimental analysis of a car incorporating phase change material

<https://www.sciencedirect.com/science/article/abs/pii/S2352152X16300615>

Experimental and simulation study of thermal accumulation in an enclosed vehicle

<https://journals.sagepub.com/doi/abs/10.1177/0954407019827691?journalCode=pidb>

Maximum vehicle cabin temperatures under different meteorological conditions

<https://pubmed.ncbi.nlm.nih.gov/19234721/>

Quantifying the Heat-Related Hazard for Children in Motor Vehicles

<https://www.jstor.org/stable/26232983>

Study of Excessive Cabin Temperatures of the Car Parked in Oman and its Mitigation

<https://www.semanticscholar.org/paper/Study-of-Excessive-Cabin-Temperatures-of-the-Car-in-Dhali/8585817d7ef5ed4f40a333602e89aada07f103ca>

Temperature variations in a parked vehicle

https://www.academia.edu/18128938/Temperature_variations_in_a_parked_vehicle

Experimental study of the Cabin Temperature of a parked Vehicle under Scorching Sunlight in Nsukka

https://www.researchgate.net/publication/338829646_Experimental_study_of_the_Cabin_Temperature_of_a_parked_Vehicle_under_Scorching_Sunlight_in_Nsukka#fullTextFileContent