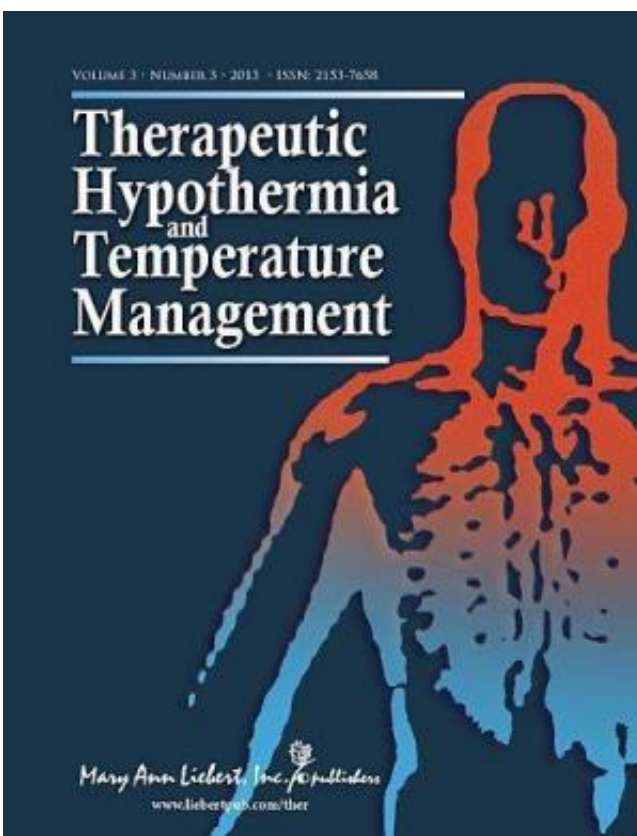


Can mild hypothermia treatment improve neuron survival after traumatic brain injury?

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Moderate reductions in body temperature can improve outcomes after a person suffers a traumatic brain injury (TBI). New research that identifies positive effects of mild hypothermia on brain tissue is

presented in an article published in *Therapeutic Hypothermia and Temperature Management*.

The article "Effects of Mild Hypothermia Treatment on Rat Hippocampal β -Amyloid Expression Following Traumatic Brain Injury" coauthored by Shi-Xiang Cheng, Sai Zhang, Hong-Tao Sun, and Yue Tu, Logistics College of the Chinese People's Armed Police Forces, Tianjin, China, is part of a special issue of *Therapeutic Hypothermia and Temperature Management* highlighting research conducted in China. Ji-Yao Jiang, PhD, MD, Jiaotong University School of Medicine, Shanghai, is Guest Editor of the special issue.

Cheng et al. compared the effects of normal temperature and hypothermia on rats with TBI. The animals treated with hypothermia had significantly improved behavioral scores and a greater number of surviving neurons compared to the normothermia group. The hypothermia-treated group also had significantly reduced levels of proteins that are produced by hippocampal tissue in the brain following TBI and that have been linked to increased severity of brain injury and subsequent cognitive dysfunction and possibly central [nervous system disorders](#).

"This interesting manuscript provides new information underlying the beneficial effects of [mild hypothermia](#) on cellular responses to TBI and identifies an important target for therapeutic treatments," says W. Dalton Dietrich, III, PhD, Editor-in-Chief of the Journal and Kinetic Concepts Distinguished Chair in Neurosurgery, Professor of Neurological Surgery, Neurology and Cell Biology, University of Miami Leonard M. Miller School of Medicine.

More information: The article is available free on the *Therapeutic Hypothermia and Temperature Management* website at <http://www.liebertpub.com/ther>.

Provided by Mary Ann Liebert, Inc

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