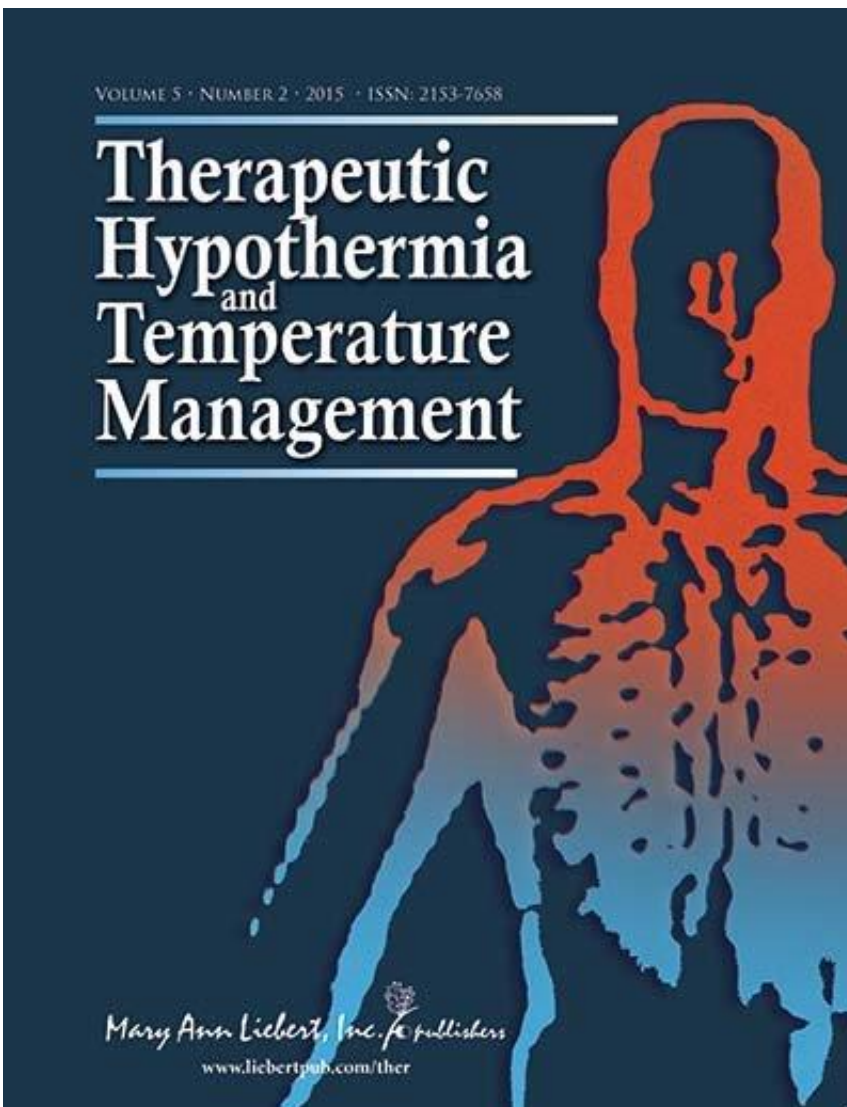


# New study data show reduced intracranial pressure

July 28 2015

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Credit: Mary Ann Liebert, Inc., publishers

Results from a European clinical trial comparing therapeutic hypothermia to standard treatment for patients with elevated intracranial pressure (ICP) as a result of severe traumatic brain injury demonstrate a significant mean decrease in ICP with body cooling to 32-35°C, which did not occur in the absence of therapeutic hypothermia. The study design and preliminary data are reported in *Therapeutic Hypothermia and Temperature Management*.

Liam Flynn, BMBS, Jonathan Rhodes, MBChB, PhD, and Peter Andrews, MBChB, MD, University of Edinburgh and Western General Hospital, Edinburgh, UK, use a strategy of lowering the body temperature to affect increases in pressure and blood flow in and around the brain that cause much of the damage associated with [traumatic brain injury](#). Among the patients with increased ICP in this study, who did not respond to initial therapy, a mean reduction in ICP of 4.3 ± 1.6 mmHg was recorded at the first hour the target body temperature was reached, and the decrease in pressure continued throughout the 6 hours of hypothermia therapy.

The authors report the results in the article ["Therapeutic Hypothermia Reduces Intracranial Pressure and Partial Brain Oxygen Tension in Patients with Severe Traumatic Brain Injury: Preliminary Data from the Eurotherm3235 Trial"](#).

"These preliminary findings from an ongoing clinical trial are important to the field and support the beneficial effects of [therapeutic hypothermia](#) on controlling ICP elevations in severe TBI patients," says W. Dalton Dietrich, PhD, Editor-in-Chief 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 until August 28, 2015.

Provided by Mary Ann Liebert, Inc

Citation: New study data show reduced intracranial pressure (2015, July 28) retrieved 8 July 2023 from <https://medicalxpress.com/news/2015-07-intracranial-pressure.html>

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