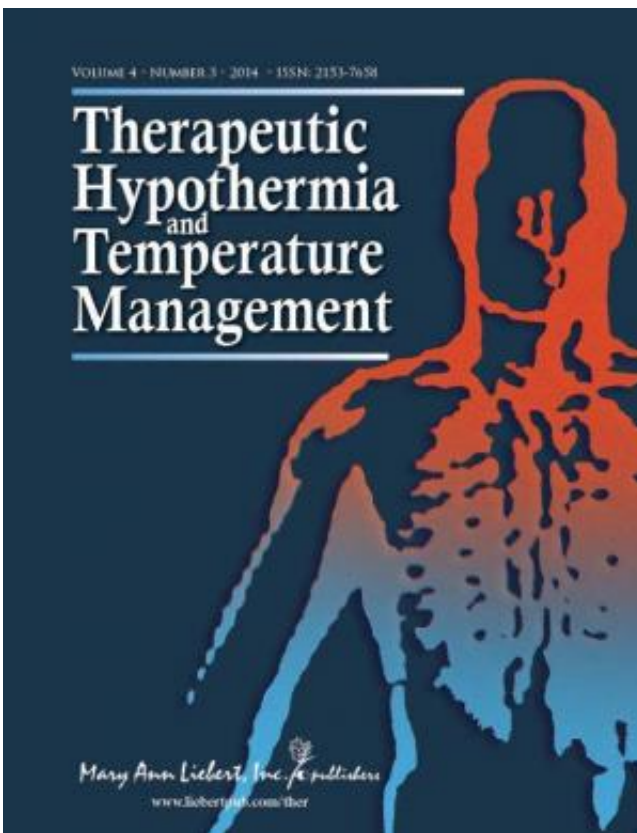


# New, faster therapeutic hypothermia techniques

October 23 2014

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Rapid lowering of body temperature following an acute myocardial infarction (MI) can be an effective therapeutic strategy to minimize damage to the heart muscle caused by the loss and restoration of blood flow to the heart. While hypothermia shows clinical promise, current

methods to cool the heart are insufficient. Faster, more effective techniques are needed to realize the full cardioprotective potential of this emerging intervention, as described in an article in *Therapeutic Hypothermia and Temperature Management*.

In the article "[Hypothermia in the Setting of Experimental Acute Myocardial Infarction: A Comprehensive Review](#)", Michael J. Herring and coauthors from Good Samaritan Hospital and Keck School of Medicine, University of Southern California (Los Angeles, CA) and Harbor-UCLA Medical Center (Torrance, CA) examine the benefits and limitations of past and current methods of delivering [hypothermia](#). These include topical regional hypothermia, an open-chest method of cooling the heart; endovascular cooling using a heat exchange balloon catheter to cool the blood that flows through the heart; surface cooling with blankets or convective-immersion therapy; and other methods.

"This timely review on the use of [therapeutic hypothermia](#) targeting myocardial necrosis emphasizes the need for additional investigations to maximize the benefits of this experimental therapy in promoting recovery in this patient population," says W. Dalton Dietrich, PhD, Editor-in-Chief of *Therapeutic Hypothermia and Temperature Management* 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://online.liebertpub.com/doi/full/10.1089/ther.2014.0016> until November 23, 2014.

Provided by Mary Ann Liebert, Inc

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