

These temperature cycles continue through the winter, but the bears' metabolism remains low during the whole period.

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When the bears emerged from their dens in mid-April, their body temperatures returned to normal and the researchers expected their metabolism to do the same. Intriguingly, metabolism remained at only about 50 percent of normal for nearly a month before finally returning to summertime levels, the researchers found. "That was very surprising," said co-author Oivind Toien of the Institute of Arctic Biology.

One of the female bears was pregnant when she entered hibernation, and her body temperature did not decrease. The fetus died, however, because of a congenital deformity, and after it was stillborn, the female's body assumed the same pattern as that of the other bears in the study.



If researchers could figure out how to trigger the condition in humans, experts said, it would provide a good way to preserve life following accidents or a medical emergency and, in the longer term, might make it easier for humans to endure long voyages in space.

Reducing metabolism following a heart attack or stroke might extend the "golden hour" for treatment to a "golden day" or even longer, Barnes said.

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