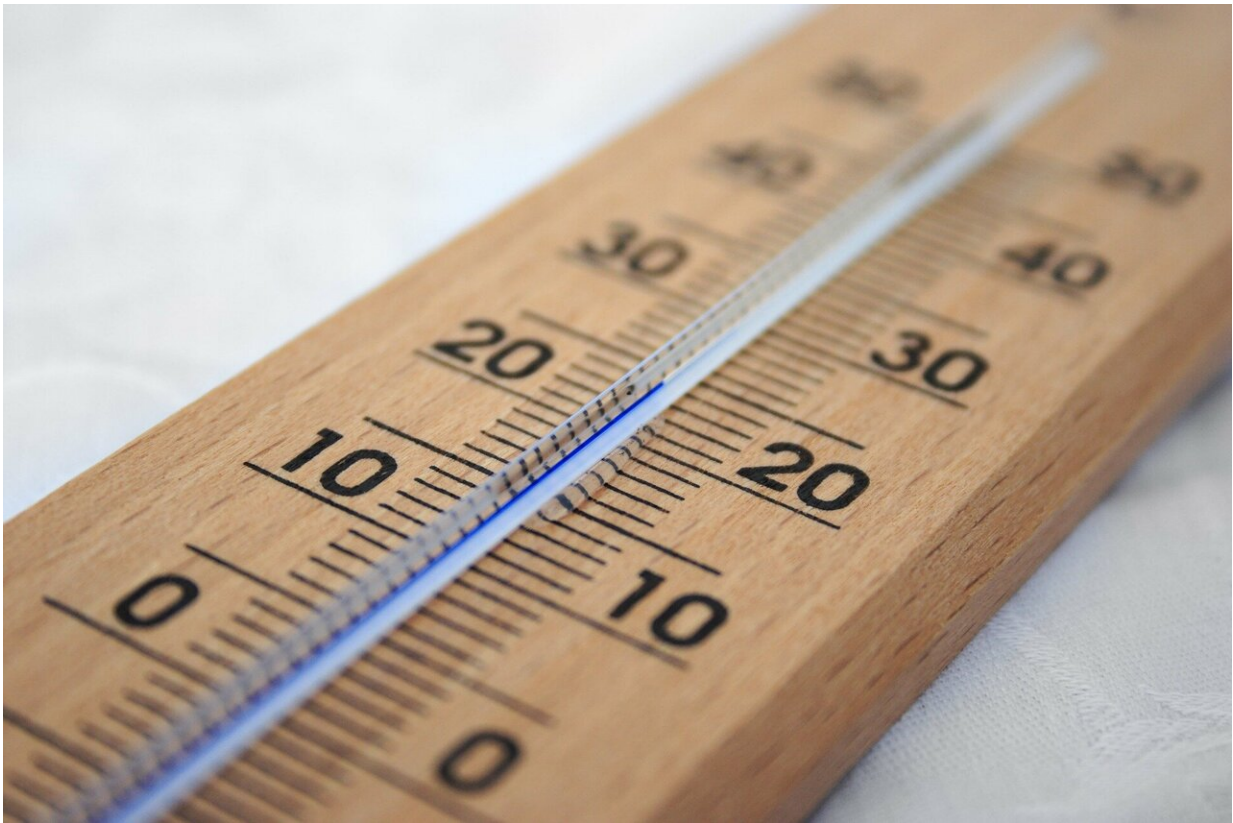


Global warming boosts heat-related cardiovascular hospitalizations, study finds

July 21 2020



Credit: CC0 Public Domain

The impact of high temperatures on hospitalizations due to cardiovascular diseases has increased over the past two decades in Queensland, Australia, according to a new study published this week in

PLOS Medicine by Shanshan Li and Yuming Guo of Monash University, Australia, and colleagues.

Extreme temperatures—both cold and hot—are known risk factors for [cardiovascular morbidity](#) and mortality. Global climate change is increasing the duration and intensity of such [extreme temperatures](#). Previous studies have found a decrease in the association between hot temperatures and cardiovascular deaths, suggesting that people may have adapted to the warming climate. In the new study, researchers used data on 1,855,717 cardiovascular hospitalizations in Queensland, Australia between 1995 and 2016 to study the association between temperature and hospitalizations.

Between 1995 and 2016, the daily mean temperature in Queensland increased from 20.9°C to 21.7°C and the annual number of cardiovascular hospitalizations increased from 46,730 to 123,477. In all ages, sexes and climate zones, the relative risk of cardiovascular hospitalizations associated with high temperatures increased over time but the impact of cold temperatures decreased over time. The increasing magnitude of heat impacts was larger in men than in women ($p=0.002$) and larger in people aged less than 70 years compared to people aged 70 years and over (p

Citation: Global warming boosts heat-related cardiovascular hospitalizations, study finds (2020, July 21) retrieved 30 April 2024 from <https://medicalxpress.com/news/2020-07-global-boosts-heat-related-cardiovascular-hospitalizations.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.