

Study shows improved health, reduced overweight and obesity in Pacific-region children

October 30 2018, by Kelli Abe Trifonovitch



Credit: CC0 Public Domain

A community-randomized clinical trial of the Children's Healthy Living Program (CHL), based at the University of Hawai'i at Mānoa, seeking to sustainably prevent and decrease overweight and obese young children and to improve health in the U.S.-affiliated Pacific region, has decreased

overweight and obesity prevalence among Pacific Island children.

The rates of obesity and type 2 diabetes among adults in the Pacific are among the highest in the world. Prevention is needed, and starting in childhood is the best time for prevention because [childhood obesity](#) and type 2 diabetes track into adulthood. Obesity among [young children](#) in the U.S.-affiliated Pacific region jurisdictions was 14 percent in 2013.

CHL researchers aimed to change the context in which child overweight and obesity occurs by building strong partnerships for action within communities. Nineteen activities addressed policy, environment, messaging, training and targeted six behaviors (sleep time, screen time, [physical activity](#), fruits and vegetables, water and sugar-sweetened beverages).

Among 27 communities and 8,371 children in the community-randomized clinical trial, the CHL decreased overweight and [obesity prevalence](#) by 3.95 percent among children ages 2 to 8 years.

Primary outcomes measured were community prevalence of overweight and obesity of young children. Secondary outcomes were prevalence of acanthosis nigricans (a skin condition that can indicate diabetes), sleep quality and duration, changes in dietary intake and increased physical activity.

"The intervention reduced the prevalence of young child overweight and [obesity](#) and acanthosis nigricans," said Rachel Novotny, principal investigator of the CHL trial and director of the Children's Healthy Living Center of Excellence in the College of Tropical Agriculture and Human Resources. "Programs that strengthen community networks for healthy living are needed to improve child health in the U.S.-affiliated Pacific region."

More information: Effect of the Children's Healthy Living Program on Young Child Overweight, Obesity, and Acanthosis Nigricans in the US-Affiliated Pacific Region. A Randomized Clinical Trial *JAMA Network Open*. 2018;1(6):e183896. [DOI: 10.1001/jamanetworkopen.2018.3896](https://doi.org/10.1001/jamanetworkopen.2018.3896)

Provided by University of Hawaii at Manoa

Citation: Study shows improved health, reduced overweight and obesity in Pacific-region children (2018, October 30) retrieved 28 April 2024 from <https://medicalxpress.com/news/2018-10-health-overweight-obesity-pacific-region-children.html>

<p>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.</p>
--