

# Dual-hormone system may lower time in hypoglycemia in T1DM

16 May 2018



[hypoglycemia](#) in physically active adults with type 1 diabetes," the authors write.

Two authors disclosed financial ties to Pacific Diabetes Technologies.

**More information:** [Abstract/Full Text \(subscription or payment may be required\)](#)

Copyright © 2018 [HealthDay](#). All rights reserved.

(HealthDay)—For physically active adults with type 1 diabetes, the addition of glucagon delivery to a closed-loop system using wearable sensors with automated exercise detection is associated with reduced hypoglycemia, according to a study published online May 11 in *Diabetes Care*.

Jessica R. Castle, M.D., from the Oregon Health & Science University in Portland, and colleagues enrolled 20 participants with type 1 [diabetes](#). Participants underwent dual-hormone, single-hormone, predictive low glucose suspend, and continuation of current care over four days in a randomized order. Three moderate-intensity aerobic exercise sessions were included in each arm.

The researchers found that the lowest mean time in hypoglycemia was seen with dual-hormone during the exercise period (3.4 percent versus 8.3 [P = 0.009], 7.6 [P

"The addition of glucagon delivery to a closed-loop system with automated [exercise](#) detection reduces

APA citation: Dual-hormone system may lower time in hypoglycemia in T1DM (2018, May 16) retrieved 20 February 2019 from <https://medicalxpress.com/news/2018-05-dual-hormone-hypoglycemia-t1dm.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.*