

# Mindfulness practice reduces cortisol blunting during chemo

April 10 2017

---



(HealthDay)—Mindfulness practice during chemotherapy can reduce the

blunting of neuroendocrine profiles typically observed in cancer patients, according to a study published online April 7 in *Cancer*.

David S. Black, Ph.D., M.P.H., from University of Southern California in Los Angeles, and colleagues assigned 57 English- or Spanish-speaking colorectal [cancer patients](#) to either mindfulness, attention-control, or resting exposure at the start of chemotherapy. Four [saliva samples](#) were collected at the start of chemotherapy and at 20-minute intervals during the first 60 minutes of chemotherapy. Self-reported biobehavioral assessments after [chemotherapy](#) included distress, fatigue, and mindfulness

An area-under-the-curve analysis showed a relative increase in cortisol reactivity in the mindfulness group, after adjustments for biological and clinical measures ( $P = 0.03$ ). From baseline to 20 minutes, more than twice as many patients in the mindfulness group displayed a cortisol rise, compared to controls (69 versus 34 percent;  $P = 0.02$ ). Mindfulness scores were inversely correlated with fatigue ( $P$

"Implications include support for the use of mindfulness practice in integrative oncology," the authors write.

Several authors disclosed financial ties to the pharmaceutical industry.

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

Copyright © 2017 [HealthDay](#). All rights reserved.

Citation: Mindfulness practice reduces cortisol blunting during chemo (2017, April 10) retrieved 28 April 2024 from  
<https://medicalxpress.com/news/2017-04-mindfulness-cortisol-blunting-chemo.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.