

## Even the poorest handheld umbrellas can block UV rays

March 26 2013



MONDAY, March 25 (HealthDay News) -- Handheld umbrellas are effective at blocking ultraviolet radiation, according to a study published online March 20 in *JAMA Dermatology*.

(HealthDay)—Handheld umbrellas are effective at blocking ultraviolet radiation (UVR), according to a study published online March 20 in *JAMA Dermatology*.

Josette R. McMichael, M.D., from Emory University in Atlanta, and colleagues used a meter at 11 a.m. on a sunny April day (UV index 8) to measure UVR (both UV-A and UV-B) in microwatts per square centimeter. Measurements were taken without an umbrella three times and twice for each of 23 handheld unbrellas. Measurements were taken



holding the meter aimed toward the sun both holding the meter 1 cm beneath the umbrella fabric and holding the meter approximately 1 cm from the researcher's nose.

The researchers found that the majority of umbrella canopies had a diameter between 81 and 99 cm, and 14 of the 23 were black. Without an umbrella, the UVR measurements were 6,563, 6,783, and 6,913  $\mu\text{W/cm}^2$ . For UVR readings taken from 1 cm under the umbrella fabric, measurements ranged from 26 to 1,714  $\mu\text{W/cm}^2$ . For measurements taken 1 cm from the researcher's nose while holding the umbrella overhead, UVR ranged from 67 to 1,256  $\mu\text{W/cm}^2$ . The umbrellas blocked between 77 percent (white Totes) and 99 percent (silver Coolibar) of UVR.

"The poorest performing umbrella still blocked an average of 77 percent of UVR," the authors write.

One author disclosed <u>financial ties</u> to <u>pharmaceutical companies</u> and collects <u>royalty payments</u> for evaluating products.

**More information:** <u>Full Text (subscription or payment may be required)</u>

<u>Health News</u> Copyright © 2013 <u>HealthDay</u>. All rights reserved.

Citation: Even the poorest handheld umbrellas can block UV rays (2013, March 26) retrieved 23 April 2024 from

https://medicalxpress.com/news/2013-03-poorest-handheld-umbrellas-block-uv.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.