

# Early-life exposure to antibiotics linked to atopic dermatitis

5 May 2021



percent confidence interval [CI], 1.09 to 1.22). No association was seen in the sibling-control analysis (aHR, 0.96; 95 percent CI, 0.92 to 1.00). The risk for atopic dermatitis was also increased with exposure to antibiotics during the first year of life (aHR, 1.52; 95 percent CI, 1.50 to 1.55), with associations attenuated in the sibling-control analysis (aHR, 1.24; 95 percent CI, 1.20 to 1.29).

"Further research should be conducted to determine the underlying mechanisms and the atopic dermatitis phenotypes that are more likely to be associated with other conditions, such as asthma and [allergic rhinitis](#)," the authors write.

One author disclosed financial ties to the biopharmaceutical industry.

**More information:** [Abstract/Full Text](#)  
[Editorial](#)

Exposure to antibiotics in utero and during the first year of life is associated with an increased risk for atopic dermatitis, with the correlation partially attenuated after adjustment for familial factors, according to a study published online April 29 in *JAMA Network Open*.

Mwenya Mubanga, M.D., Ph.D., from the Karolinska Institutet in Stockholm, and colleagues examined the correlation of exposure to antibiotics in the [prenatal period](#) and [early childhood](#) with the risk for [atopic dermatitis](#). Data were analyzed for 722,767 singleton children born between March 1, 2006, and Dec. 31, 2010. To account for shared familial factors, a sibling-control analysis was conducted.

The researchers found that 21.2 and 23.8 percent of children were exposed to antibiotics in utero and during the first year of life, respectively. Compared with unexposed children, children exposed to prenatal antibiotics had a greater risk for atopic dermatitis (adjusted hazard ratio [aHR], 1.10; 95

Copyright © 2021 [HealthDay](#). All rights reserved.

APA citation: Early-life exposure to antibiotics linked to atopic dermatitis (2021, May 5) retrieved 2 August 2022 from <https://medicalxpress.com/news/2021-05-early-life-exposure-antibiotics-linked-atopic.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.*