

# Air pollution tied to psoriasis occurrence

January 23 2023, by Lori Solomon

---



Short-term air pollutant exposures are associated with psoriasis, according to a study published online Dec. 22 in *Frontiers in Public Health*.

Ting Wang, from the School of Public Health at Anhui Medical University in Hefei, China, and colleagues examined the short-term effects of air pollutants on outpatients with psoriasis in China between 2015 and 2019. Patients of different ages and genders were included in the stratified analyses.

The researchers found that an increase of  $10 \mu\text{g}/\text{m}^3$  of [nitrogen dioxide](#) was associated with a 2.1 percent increase in outpatients with psoriasis, while a decrease of  $10 \mu\text{g}/\text{m}^3$  of ozone was associated with a 0.8 percent increase in outpatients with psoriasis. Male patients were more sensitive to a change in meteorological factors, while [female patients](#) and outpatients with psoriasis aged 17 years or younger were more sensitive to a change in air pollutants.

"In conclusion, short-term air pollutant exposures were correlated with the occurrence of psoriasis in outpatients. Females, and outpatients with psoriasis aged 0 to 17 years old, were more sensitive to the changes in air pollutants," the authors write. "This finding suggests that patients and people at high risk of psoriasis should reduce their time outdoors and improve the quality of their protective gear when the air quality is poor."

**More information:** Ting Wang et al, Short-term effects of air pollutants on outpatients with psoriasis in a Chinese city with a subtropical monsoon climate, *Frontiers in Public Health* (2022). [DOI: 10.3389/fpubh.2022.1071263](https://doi.org/10.3389/fpubh.2022.1071263)

Copyright © 2023 [HealthDay](#). All rights reserved.

Citation: Air pollution tied to psoriasis occurrence (2023, January 23) retrieved 23 April 2024 from <https://medicalxpress.com/news/2023-01-air-pollution-psoriasis-occurrence.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.