

# New model IDs inflammatory asthma without sputum

January 4 2017

---



(HealthDay)—A new prediction model identifies eosinophilic asthma

without the need for sputum induction, according to a study published online Dec. 28 in *Allergy*.

Bart Hilvering, M.D., from University Medical Centre Utrecht in the Netherlands, and colleagues compared the activation state of eosinophils and neutrophils in peripheral blood to sputum analysis to assess asthma phenotype and monitor disease. The training cohort included 115 adult asthma [patients](#), while the validation cohort included 34 patients.

The researchers found that a combination of data from multiple sources (blood eosinophil count, fractional exhaled nitric oxide, an asthma control questionnaire, medication use, nasal polyposis, aspirin sensitivity, and neutrophil/eosinophil responsiveness upon stimulation with formyl-methionyl-leucyl phenylalanine) identified sputum eosinophilia with 90.5 percent sensitivity and 91.5 percent specificity in the training cohort. Sensitivity and specificity were 77 and 71 percent, respectively, in the validation cohort, which had a relatively high percentage of patients on [oral corticosteroids](#).

"The proposed [prediction model](#) identifies eosinophilic asthma without the need for sputum induction," the authors write. "The model forms a non-invasive and externally validated test to assess eosinophilic [asthma](#) in patients not on oral corticosteroids."

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

Copyright © 2016 [HealthDay](#). All rights reserved.

Citation: New model IDs inflammatory asthma without sputum (2017, January 4) retrieved 25 April 2024 from <https://medicalxpress.com/news/2017-01-ids-inflammatory-asthma-sputum.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.