

Assessing symptoms, blood, stool markers best for identifying pediatric IBD

July 21 2020



(HealthDay)—For pediatric patients with nonbloody diarrhea, evaluating

symptoms plus blood and stool markers is the optimal test strategy for predicting inflammatory bowel disease (IBD), according to a study published online July 21 in *Pediatrics*.

Els Van de Vijver, M.D., from University Hospital Antwerp in Edegem, Belgium, and colleagues conducted a [prospective cohort study](#) involving 193 patients aged 6 to 18 years who presented with chronic nonbloody diarrhea and abdominal pain. Patients were assessed for symptoms, C-reactive protein, hemoglobin, and fecal calprotectin. The primary outcome at six months was IBD confirmed by endoscopy or ruled out by endoscopy or uneventful clinical follow-up.

The researchers found that 11 percent of the children had IBD. The basic model for prediction was based only on symptoms. The area under the receiver operating characteristic curve (AUC) increased from 0.718 to 0.930 and 0.967 by adding blood or stool markers, respectively. All other strategies were outperformed by combining symptoms with blood and stool markers (AUC, 0.997). Triaging with a strategy involving symptoms, blood markers, and calprotectin would result in 14 percent of children being exposed to endoscopy; three would not have IBD, while no child affected by IBD would be missed.

"Prompt and accurate prediction of IBD enables pediatricians to efficiently allocate resources in [endoscopy](#) units, by reassuring those with a low risk for IBD, and at the same time prioritize those with a high risk for IBD," the authors write.

Two authors disclosed financial ties to BÜHLMANN Laboratories AG; the study was supported by a grant from CisBio Bioassay.

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

Copyright © 2020 [HealthDay](#). All rights reserved.

Citation: Assessing symptoms, blood, stool markers best for identifying pediatric IBD (2020, July 21) retrieved 26 April 2024 from <https://medicalxpress.com/news/2020-07-symptoms-blood-stool-markers-pediatric.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.