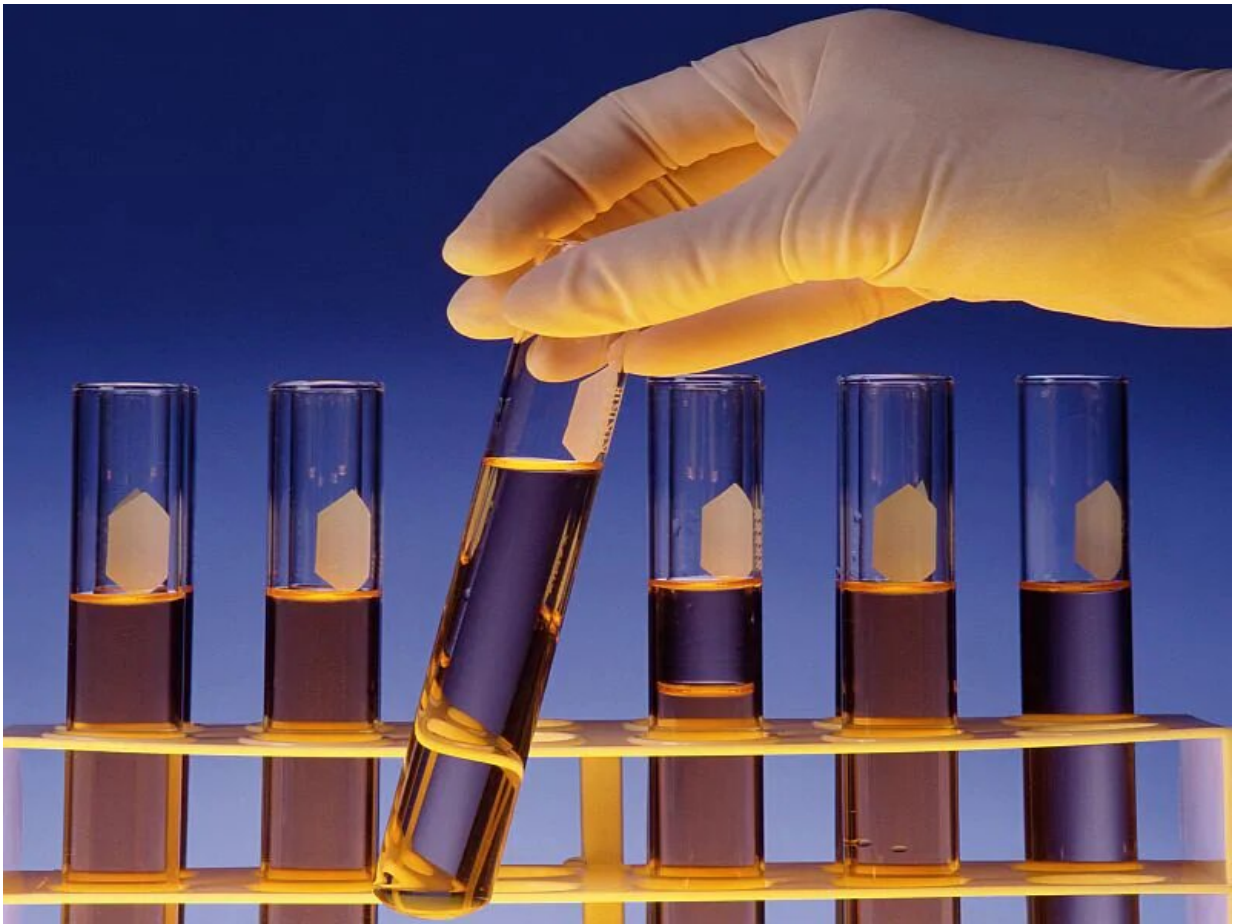


# Biomarker test predicts mild, serious IBD in newly diagnosed

May 9 2019

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(HealthDay)—A new test can predict the course of inflammatory bowel

disease (IBD) in patients, according to a study published online April 27 in *Gut*.

Daniele Biasci, Ph.D., from the University of Cambridge in the United Kingdom, and colleagues performed transcriptomic analyses on purified CD8 T cells and/or whole blood from patients with active IBD.

Consensus clustering of CD8 T cell transcriptomes was used to identify IBD1/IBD2 patient subgroups. Machine learning identified groups of genes that could classify IBD1/IBD2 subgroups. The best classifying genes were optimized for a quantitative polymerase chain reaction (qPCR) test that was validated in 66 patients with Crohn disease (CD) and 57 patients with [ulcerative colitis](#) (UC).

The researchers found that in both validation cohorts, a 17-gene qPCR-based classifier organized patients into two distinct subgroups.

Regardless of the underlying diagnosis, the poor-prognosis IBD1 subgroup (IBDhi patients) experienced significantly more aggressive disease than IBDlo patients (IBD2 subgroup). The IBDhi group needed earlier treatment escalation (hazard ratios, 2.65 [CD] and 3.12 [UC]) and more escalations over time. For multiple escalations within 18 months, the test yielded a sensitivity of 72.7 percent (CD) and 100 percent (UC) and a negative predictive value of 90.9 percent (CD) and 100 percent (UC).

"This is the first validated prognostic biomarker that can predict prognosis in newly diagnosed [patients](#) with IBD and represents a step towards personalized therapy," the authors write.

Several authors disclosed financial ties to PredictImmune, which partially funded the study.

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

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