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Summary

CPA9-HNE: A NEUTROPHIL-DERIVED FRAGMENT OF CALPROTECTIN MEASURED IN SERUM CAN MONITOR ENDOSCOPIC AND CLINICAL DISEASE ACTIVITY IN ULCERATIVE COLITIS

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UEG Week Vienna 2024 | Poster

IBD

October 13, 2024

Serum calprotectin [CPa9-HNE], a neo-epitope biomarker of neutrophil activity, was significantly elevated in patients with active ulcerative colitis compared to healthy controls and correlated with both endoscopic and clinical disease severity.

KEY POINTS

- In a cohort of 49 patients with active UC and 50 healthy controls, CPa9-HNE was significantly elevated in UC patients (32.4 vs. 26.0 ng/ml, $p<0.0001$) with acceptable discriminative capability (AUC 0.77).
- CPa9-HNE showed moderate positive correlations with the Ulcerative Colitis Endoscopic Index of Severity (UCEIS, $\rho=0.42$) and full Mayo score ($\rho=0.48$).
- CPa9-HNE accurately discriminated between mild and severe endoscopic disease based on UCEIS (28.9 vs. 55.6 ng/ml, $p<0.01$) and between mild, moderate, and severe clinical disease activity according to the full Mayo score.
- The authors conclude that CPa9-HNE has potential as a non-invasive serological tool to monitor disease activity in UC, which may align better with patient preferences than fecal biomarkers.

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