

## SERUM CALPROTECTIN [CPA9-HNE], A BIOMARKER OF NEUTROPHIL ACTIVITY, IS ASSOCIATED WITH HISTOLOGICAL INFLAMMATION AND FIBROSIS BURDEN

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Poster

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**In 62 patients with stenotic Crohn's disease requiring bowel resection, serum CPa9-HNE correlated with histological inflammation and submucosal fibrosis in resected specimens.**

### KEY POINTS

- CPa9-HNE showed positive correlation with the D'Haens histological inflammation score ( $p=0.279$ ,  $p<0.005$ ) and with the presence of neutrophils in both the epithelium ( $p=0.309$ ) and lamina propria ( $p=0.349$ ).
- CPa9-HNE correlated with epithelial damage ( $p=0.262$ ,  $p<0.005$ ) and with submucosal fibrosis burden ( $p=0.294$ ,  $p<0.005$ ).
- This is the first study to investigate the association of CPa9-HNE, a calprotectin fragment released during NETosis, with histological grading of inflammation and fibrosis.
- The authors suggest CPa9-HNE may serve as a complementary tool for histological grading and may help explore the role of neutrophil extracellular traps in intestinal fibrosis.
- Several authors are employees or shareholders of Nordic Bioscience.

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