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Summary

ENHANCING CALPROTECTIN'S PREDICTIVE POWER AS A BIOMARKER OF ENDOSCOPIC

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A machine learning model combining fecal calprotectin with other clinical data achieved 85% accuracy in predicting endoscopic disease activity in ulcerative colitis, improving upon calprotectin alone which achieved 70% accuracy.

KEY POINTS

- A prospective single-center study of 103 ulcerative colitis patients used multilayer perceptron models to predict endoscopic disease activity non-invasively
- Fecal calprotectin as a sole predictor achieved 70% accuracy and 0.68 area under the curve
- Combining calprotectin with selected clinical predictors improved test set accuracy to 85% and area under the curve to 0.93
- The authors state this is the first study proposing calprotectin use in a machine learning model to estimate ulcerative colitis endoscopic disease activity
- The model may provide doctors and patients with a non-invasive alternative to endoscopy for evaluating disease activity in individuals requiring long-term ulcerative colitis management

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