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Summary

NEUTROPHIL-ONLY HISTOLOGICAL ASSESSMENT OF ULCERATIVE COLITIS CORRELATES WITH ENDOSCOPIC ACTIVITY AND PREDICTS LONG-TERM OUTCOMES IN A MULTICENTER STUDY

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The PICaSSO Histological Remission Index, a neutrophil-only histological score for ulcerative colitis, correlates with endoscopy and predicts clinical relapse as well as established histological indices in a two-year prospective study of 192 patients.

KEY POINTS

- PHRI showed comparable correlation with endoscopic scores (MES, UCEIS, PICaSSO) to Nancy and Robarts indices, with Spearman coefficients ranging from 0.69 to 0.75
- Endoscopic scores detected PHRI remission with high accuracy (ROC AUC 0.88-0.91) and significantly better precision than Robarts remission (ROC AUC 0.63-0.67, $p<0.005$)
- Patients not in histological remission by PHRI had 2.87-fold higher hazard of negative clinical outcomes over two years, similar to Nancy (2.71) and Robarts (2.75) indices
- The study enrolled 192 consecutive UC patients across all endoscopic severity grades at two referral centers in Birmingham and Milan with two-year follow-up
- Neutrophil-only histological assessment offers a simplified alternative to complex scoring systems for monitoring mucosal healing and stratifying relapse risk in ulcerative colitis

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