

EVALUATION OF RECTAL WALL THICKNESS MEASUREMENT SENSITIVITY VIA TRANSABDOMINAL ULTRASOUND TO ASSESS MUCOSAL ACTIVITY IN ULCERATIVE COLITIS: COULD THIS BE A USEFUL NON-INVASIVE TOOL?

Elisa Marabotto

UEG Week Berlin 2025

Presentation

IBD

Radiology & Imaging

October 6, 2025

Transabdominal ultrasound measurement of rectal wall thickness at a cut-off of 5.55 mm showed good accuracy for detecting endoscopic and histological activity in ulcerative colitis, with performance comparable to fecal calprotectin and superior to CRP.

KEY POINTS

- In 74 patients with UC, TAUS rectal wall thickness ≥ 5.55 mm discriminated endoscopic activity with AUC 0.725, sensitivity 0.80, and specificity 0.71, comparable to fecal calprotectin (AUC 0.717, $p=0.256$) and superior to CRP (AUC 0.511, $p<0.0001$).
- For histological activity, the same 5.55 mm cut-off achieved AUC 0.794, sensitivity 0.76, and specificity 0.80, closely matching fecal calprotectin (AUC 0.744, $p=0.425$) and outperforming CRP (AUC 0.631, $p<0.0001$).
- Patients with endoscopic remission (MAYO 0-1) had median rectal wall thickness of 4.95 mm versus 6.15 mm in those with active disease (MAYO 2-3, $p=0.003$).
- Inter-observer agreement was excellent with an intraclass correlation coefficient of 0.923 ($p<0.0001$), supporting reproducibility of the measurement.
- TAUS was technically feasible in the majority of patients; combined with clinical and biochemical data, it may reduce the need for repeated endoscopy in routine UC monitoring.
- This was a monocentric study and external validation is planned to confirm generalizability of the findings.

VIEW THIS CONTENT ON GUTFLIX

<https://gutflix.eu/search/d/49746438-a815-11f0-9003-0242ac140006>



AI-generated summary

This summary was generated by an AI large language model based on the content transcript. It is for informational purposes only and should not be considered a substitute for clinical judgment. Always rely on your professional expertise and the full clinical context when making clinical decisions.