ACCURACY AND FEASIBILITY OF A NOVEL 'SIMPLE SCORING SYSTEM' FOR ENDOSCOPIC DIAGNOSIS OF SUPERFICIAL DUODENAL TUMORS

Yohei Minato

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A novel Simple Scoring System for superficial non-ampullary duodenal epithelial tumors achieved 80.8% diagnostic accuracy in distinguishing low grade adenoma from high grade adenoma or adenocarcinoma in a prospective study of 319 lesions.

KEY POINTS

- The Simple Scoring System uses a 5-point scale based on four features: tumor diameter, redness on white light imaging, and irregular surface and vascular patterns on magnifying endoscopy with narrow band imaging, with a score of 3 or more indicating high grade adenoma or adenocarcinoma.
- In 319 preoperatively evaluated lesions, the system achieved 80.8% overall diagnostic accuracy, 80.7% sensitivity, and 81.2% specificity when compared with postoperative pathology.
- Diagnostic accuracy varied by histological type: 83.3% for gastric type (10/12), 80.3% for intestinal type (241/300), and 100% for mixed type (7/7).
- In a separate study of 26 gastroenterologists evaluating 20 lesions, mean diagnostic accuracy improved significantly from 71% to 79% after a lecture on the scoring system, with significant improvement in both beginner and expert groups ($p<0.01$ for both).
- The authors conclude the system can be easily understood and used by gastroenterologists of varying experience levels for endoscopic diagnosis of these duodenal tumors.

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