

IMPACT OF TEXTURE AND COLOR ENHANCEMENT IMAGING (TXI) ON ENDOCYTOSCOPIC DIAGNOSIS OF EARLY GASTRIC CANCER

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Poster

Oesophagus

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A prospective study of 30 gastric cancers found that Texture and Color Enhancement Imaging (TXI) significantly improved endocytoscopy diagnostic accuracy compared to conventional imaging (85.2% vs. 79.0%, $p = 0.0027$).

KEY POINTS

- TXI with endocytoscopy significantly enhanced visualization of nuclear atypia with higher numerical rating scores (6.88 vs. 5.88, $p < 0.0001$) compared to conventional endocytoscopy imaging.
- Overall endocytoscopy diagnostic performance by two endoscopists showed 82.5% accuracy, 84.3% sensitivity, 80.7% specificity, with high interobserver agreement ($\kappa = 0.797$).
- TXI did not significantly affect visualization of structural atypia, with similar scores between TXI and non-TXI images (4.90 vs. 4.87, $p = 0.61$).
- The study enrolled 28 patients with 30 gastric cancers, using blinded assessment of 580 total endocytoscopy images with crystal violet and methylene blue double staining.
- This prospective study may be relevant to endoscopists seeking to improve optical biopsy capabilities for early gastric cancer diagnosis.

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