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Colonic lesion characterization in IBD: A Systematic Review and Meta-analysis

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Abstract

AIM

Optical imaging is increasingly advocated for real-time characterization of lesions during colonoscopy. Accuracy of these techniques during surveillance colonoscopy in colonic inflammatory bowel disease (IBD) is unclear. We performed a systematic review and meta-analysis for the diagnostic accuracy of in-vivo lesion characterization in colonic IBD, using optical imaging techniques, including virtual chromoendoscopy (VCE), dye-based chromoendoscopy (DBC), magnification endoscopy and confocal laser endomicroscopy (CLE).

METHODS

We searched Medline, Embase and the Cochrane library. We performed a bivariate meta-analysis to calculate the pooled estimate sensitivities, specificities, positive and negative likelihood ratios (+LHR, -LHR), diagnostic odd ratios (DOR), and area under the

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