

## PillCam COLON 2® as a pan-enteroscopic test in Crohn's disease

### Revisions:

#### Minor revisions:

**Q:** Interesting work on the topic of pan-endoscopy. It is important to clarify the choice of CECDAI, and not Lewis score.

**A:** There are two capsule scoring systems which have been developed to assess the extent and severity of small bowel Crohn's disease. These have been designed to largely negate intra-observer error. Both the Lewis score (LS) and the capsule endoscopy Crohn's disease activity index (CECDAI) base severity on three main criteria; villous oedema, ulceration and presence of stenosis. The LS has been shown to increase positive predictive value, sensitivity and specificity of SBCE findings in the suspected CD cohort although it has never been prospectively validated<sup>1</sup>. The CECDAI, however, has relatively recently been validated for clinical use<sup>2</sup>. Unfortunately, the validation did not set values for what constitutes mild, moderate or severe disease activity. However, Koulaouzidis et al did compare the LS with CECDAI using a retrospective study design<sup>3</sup>. The performance of both scoring systems was assessed by correlating the findings with faecal calprotectin levels in 49 patients. There was good correlation between the two scoring systems; a LS of 135 and 790 correlating with a CECDAI of 3.8 and 5.8, respectively. Our own data on prospective small bowel mucosal healing also utilised these same cut-off values for CECDAI use with good effect, hence our preference for this system<sup>4</sup>.

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<sup>1</sup> Rosa B, Moreira MJ, Rebelo A, et al. Lewis score: a useful clinical tool for patients with suspected Crohn's disease submitted to capsule endoscopy. *J Crohn's Colitis* 2012; 6:692-697

<sup>2</sup> Niv Y, Ilani S, Levi Z, et al. Validation of the Capsule Endoscopy Crohn's Disease Activity Index (CECDAI or Niv score): a multicenter prospective study. *Endoscopy* 2012; 44:21-26

<sup>3</sup> Anastasios Koulaouzidis, Sarah Douglas, John N. Plevris. Lewis Score Correlates More Closely with Fecal Calprotectin Than Capsule Endoscopy Crohn's Disease Activity Index. *Digestive Diseases and Sciences* April 2012, Volume 57, Issue 4, pp 987-993

<sup>4</sup> Hall B, Holleran G, Smith S, Chin JL, Ryan B, Mahmud N, McNamara D. A prospective 52 week mucosal healing assessment as detected by capsule endoscopy. *J Crohns Colitis*. 2014;8:1601-09