

1 **Supplementary material**

2 **Second generation Pillcam Colon Capsule (PCCE2)**

3 The second generation Pillcam colon capsule (PCCE-2) measures 11.6 x 31.5 mm and has two
4 cameras, one at each side with a wide angle of view of 172 degrees, allowing 344 degrees coverage of
5 the mucosa. It has an adaptive frame rate, alternating between 4 frames per second when stationary,
6 to 35 images per second when in motion. This adaptation allows preserving batteries, optimizing
7 video length and coverage. No delay mode is used with the PCCE 2. In addition, there is cross-talk
8 between the capsule and the data recorder, by which the capsule identifies its presence in the small
9 bowel, thus allowing both change in frame rate, as well as transmitting instruction to the patient
10 which are displayed on an LCD display on the recorder.

12 **Bowel preparation regimen**

13 Two days before the procedure, patients took 10 mg bisacodyl and were restricted to a low
14 fiber diet. The next day, patients used a liquid diet and drank 1.5 L of a polyethylene glycol
15 preparation (PEG) in the evening. In the morning before the test, patients drank another 1.5 L PEG
16 solution. When the duodenum was visualized on the display, and three hours thereafter, patients
17 drank a dose of phosphoral (sodiumphosphate) or picoprep (sodium picosulfate and magnesium
18 citrate) and 1 to 2 L of clear liquid afterwards. The bowel preparation quality was assessed for six
19 segments: the terminal ileum, ascending colon, transverse colon, descending colon, sigmoid and
20 rectum.

Supplementary table 1. Pan-CE SES-CD and CDEIS before and after biologic treatment

	Baseline pan-CE			Follow-up pan-CE			Difference		
	Median	IQR	n	Median	IQR	n	Median	IQR	p
CDEIS total (all pts)	7.1	(4.6 - 11.2)	22	3.0	(0.9 - 6.0)	22	2.6	(0.4 - 7.6)	<i>0.001</i>
CDEIS total*	7.8	(3.6 - 11.5)	15	2.9	(0.8 - 4.6)	15	2.9	(1.9 - 8.5)	<i>0.001</i>
SES-CD total (all pts)	16.0	(10.0 - 24.0)	22	6.0	(2.8 - 12.0)	22	9.3	(2.8 - 16.5)	<i>0.001</i>
SES-CD total*	20.0	(11.0 - 27.0)	15	5.0	(2.0 - 12.0)	15	12.0	(5.0 - 20.0)	<i>0.001</i>
Small bowel SES-CD**	3.5	(0.0 - 7.0)	22	0.0	(0.0 - 3.8)	22	0.0	(-0.3 - 5.3)	<i>0.023</i>
Colon SES-CD***	12.0	(6.8 - 22.0)	22	4.0	(2.0 - 11.5)	21	8.0	(1.5 - 14.5)	<i>0.001</i>

*patients excluded if not all segments were explored in both procedures, **jejunum, pre-terminal ileum and terminal ileum, *** ascending colon, transverse colon, descending colon and rectum