Supplementary material

Table A1 Search strategy for the systematic literature search.

Categories [AND]	Search terms [OR]
Colon	Colon[MeSH], colon[Title/Abstract], colorectal[Title/Abstract], rectum[Title/Abstract]
Polyps	Colonic polyps[MeSH], polyps[MeSH], polyp*[Title/Abstract], lesion[Title/Absract], adenoma[MeSH], adenoma[Title/Abstract], adenomatous[Title/Abstract], neoplasia[Title/Abstract], Neoplasm*[MeSH]
Colon capsule endoscopy	Colon capsule endoscopy[Title/Abstract], capsule endoscopy[Title/Abstract], capsule endoscopy[MeSH]

Table A2 Risk of bias inf included studies.

Author, year	Risk of bias			
	Patient selection	Index test	Reference standard	Flow and Timing
Rex, 2015	☹	☺	☺	☹
Voska, 2019	😐	☺	☺	☺
Holleran, 2014	☺	☺	☺	☺
Rondonotti, 2014	😐	☺	☺	☺
Kobaek-Larsen, 2017	☺	☺	☺	☺
Pecere, 2019	☺	☺	☺	☺
Parodi, 2018	☺	☺	☺	☺
Kroijer, 2019	☺	☺	☹	☹
Eliakim, 2009	😐	☺	☺	☺
Spada, 2011	😐	☺	☺	☺
Hagel, 2014	😐	☺	☺	☺
Morgan, 2016	😐	☺	☺	☺

The study of Adrian-de-Ganzo et al was not evaluated with QUADAS-2 as it was not a diagnostic accuracy study.
☺, Low risk of bias.
☹, High risk of bias.
😐, Unclear risk of bias.

Supplementary material

Table A3 Study-related adverse events for CCE and OC examinations.

Author, year	Mild adverse events (n, %)	Related to (n, %)			Moderate/ serious adverse events (n)	Related to (n, %)	
		Bowel preparation	CCE	OC		CCE	OC
Rex, 2015 [19]	142 (20.6)	128 (90.1)	3 (2.1)	11 (7.7)	0	-	-
Voska, 2019 [22]	6 (2.7)	2 (33.3)	-	4 (66.6)	0	-	-
Holleran, 2014 [14]	0 (0)	-	-	-	1	-	1 (100)
Rondonotti, 2014 [24]	0 (0)	-	-	-	0	-	-
Kobaek-Larsen, 2017 [21]	0 (0)	-	-	-	7	-	7 (100)
Pecere, 2019 [23]	45 (25.3)	45 (100)	-	-	0	-	-
Adrian-de-Ganzo, 2015 [25]	4 (1.7)	-	1 (25.0)	3 (75.0)	0	-	-
Parodi, 2018 [26]	15 (8.5)	-	9 (60)	6 (40)	0	-	-
Kroijer, 2019 [27]	12 (6.7)	12 (100)	-	-	0	-	-
Eliakim, 2009 [20]	7 (7.1)	7 (100)	-	-	0	-	-
Spada, 2011 [28]	8 (7.3)	5 (62.5)	2 (25.0)	1 (12.5)	0	-	-
Hagel, 2014 [18]	1 (4.2)	1 (100)	-	-	0	-	-
Morgan, 2016 [29]	0 (0)	-	-	-	0	-	-
Total	240 (10.3)	200 (83.3)	15 (6.3)	25 (10.4)	8	-	8 (100)

CCE, colon capsule endoscopy; OC, optical colonoscopy.

Supplementary material

Table A4 Sensitivity and specificity of CCE in included studies.

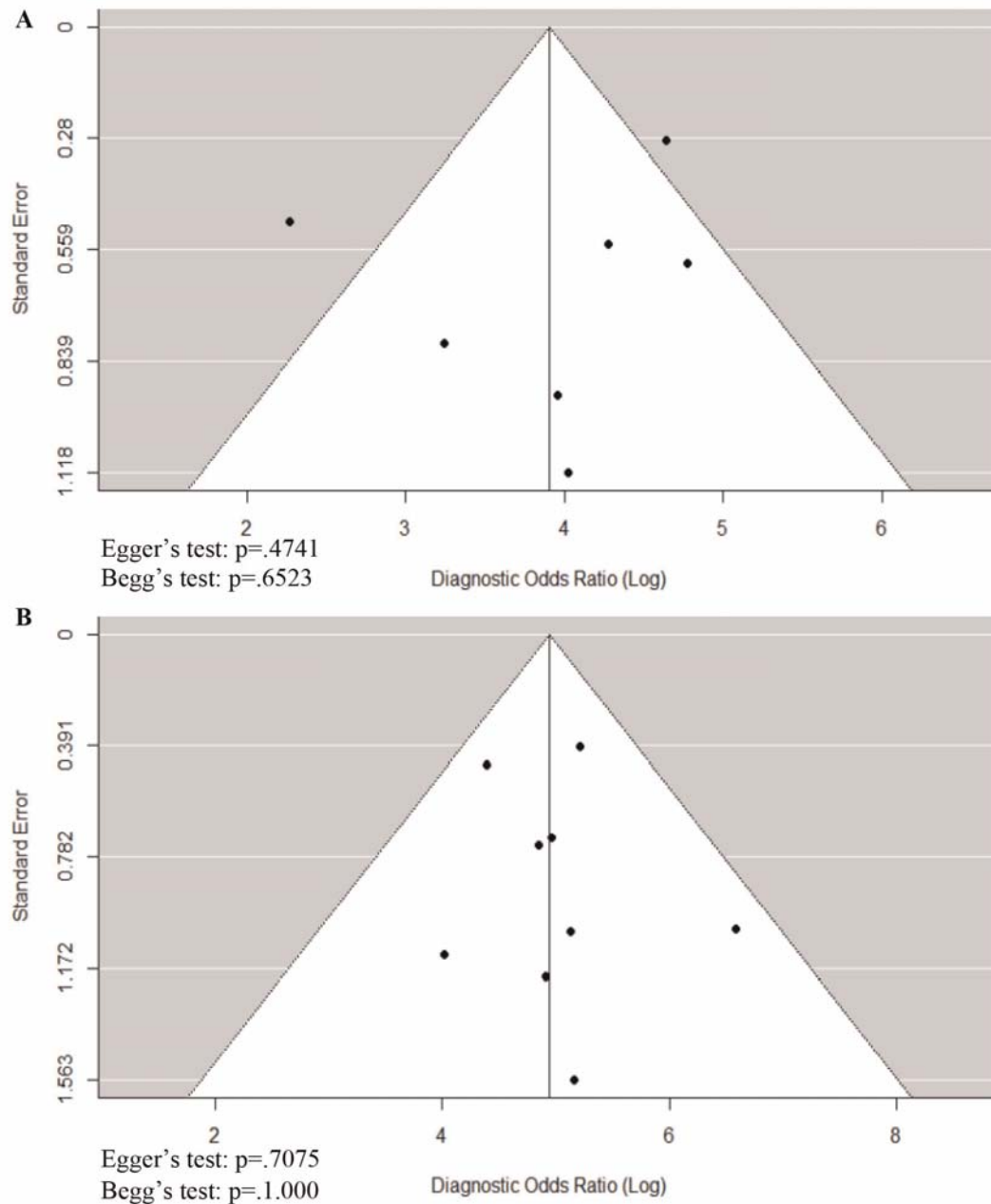| Author, year	Sensitivity (%)					Specificity (%)				
	Any polyps	Polyps ≥ 6 mm	Polyps ≥ 10 mm	Adenoma ≥ 6 mm	Adenoma ≥ 10 mm	Any polyps	Polyps ≥ 6 mm	Polyps ≥ 10 mm	Adenoma ≥ 6 mm	Adenoma ≥ 10 mm
Rex, 2015 [19]	-	87	85	91	92	-	94	97	83	95
Voska, 2019 [22]	82	79	88	-	100	86	97	99	-	98
Holleran, 2014 [14]	95	-	89	-	-	65	-	96	-	-
Rondonotti, 2014 [24]	-	88	93	-	-	-	88	92	-	-
Kobaek-Larsen, 2017 [21]*	-	-	87[a]	-	-	-	-	92[a]	-	-
Pecere, 2019 [23]	-	-	-	81	85	-	-	-	-	-
Adrian-de-Ganzo, 2015 [25]†	-	-	-	-	-	-	-	-	-	-
Parodi, 2018 [26]	-	91	89	95	91	-	88	95	80	92
Kroijer, 2019 [27]	88[§]	-	-	-	-	-	-	-	-	-
Eliakim, 2009 [20]	-	89	88	-	-	-	76	89	-	-
Spada, 2011 [28]	-	84	88	90	93	-	64	95	-	-
Hagel, 2014 [18]	82	72[c]	75[c]	-	-	86	91[‡]	100[‡]	-	-
Morgan, 2016 [29]	-	93	100	-	-	-	80	93	-	-

* Polyps > 9 mm.
† Parallel study groups for CCE & OC, no per-patient or per-polyp analysis possible.
‡ Per-polyp analysis.

Supplementary material

Fig. A1 Funnel plots for publication bias of studies with polyps ≥ 6 mm (A, n=7) and ≥ 10 mm (B, n=9).

Möllers Tobias et al. Second-generation colon capsule... Endosc Int Open 2021; 09: E1–E5 | 2021 The Author(s).

E4

Supplementary material

Fig. A2 Pooled diagnostic odds ratios for polyps ≥ 6 mm (A) and ≥ 10 mm (B).

Möllers Tobias et al. Second-generation colon capsule… Endosc Int Open 2021; 09: E1–E5 | 2021 The Author(s).

E5