

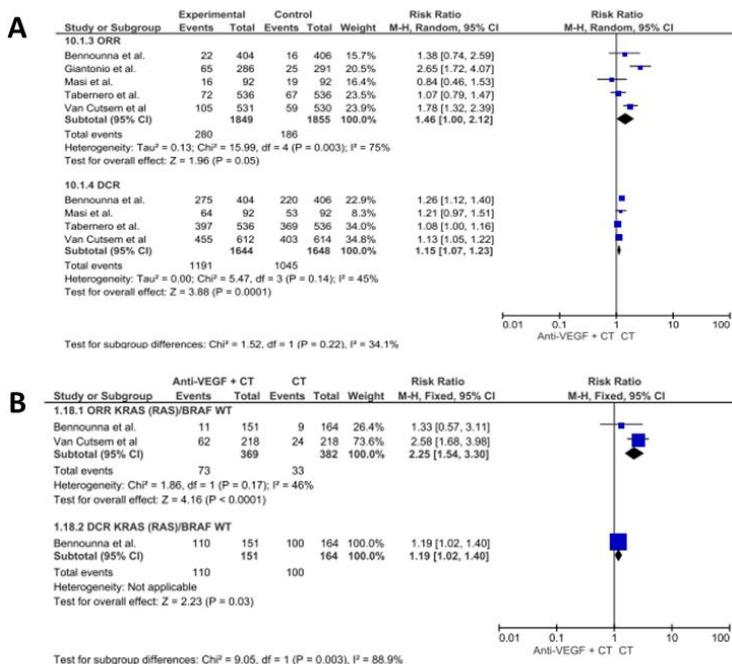
TableS1.Characteristics of trials included in our indirect comparisons.

Study (reference)	n1/n2	Drug	ORR n. (%)	DCR n(%)	PFS HR (95% CI)	OS HR (95% CI)
Giantonio et al 2007	286/291	Folfox + Bevacizumab Folfox	65/286(22.7%) 25/291(8.6%)	N/A	0.61 (0.48-0.78)	0.75 (0.63-0.89)
Bennouna et al 2013	409/411	Doublet + Bevacizumab Doublet	22/404 (6%) 16/406 (4%)	275/404 (69%) 220/406 (54%)	0.68 (0.59-0.58)	0.81 (0.69-0.94)
Masi et al 2015	92/92	Doublet + Bevacizumab Doublet	19/92 (21%) 16/92 (17%)	64/92 (70%) 53/92 (58%)	0.70 (0.52-0.95)	0.77 (0.56-1.06)
Van Cutsem et al 2012	612/614	Folfiri + Afiblercept Folfiri	105/531 (19.8%) 59/530(11.2%)	455/531(85.7%) 403/530(76%)	0.76 (0.67-0.87)	0.82 (0.71-0.94)
Tabernero et al 2015	536/536	Folfiri + Ramucirumab Folfiri	72/536 (13.4%) 67/536 (12.5%)	397/536(74.1%) 369/536(68.8%)	0.79 (0.70-0.90)	0.84 (0.73-0.98)
Sobrero et al 2008	648/650	Irinotecan+Cetuximab Irinotecan	106/648(16.4%) 27/650 (4.2%)	398/648 (61.5%) 298/650 (45.9%)	0.69 (0.62-0.78)	0.97 (0.85-1.11)
Peeters et al 2010	591/595	Folfiri+Panitumumab Folfiri	134/529(25.3%) 61/522(11.7%)	378/529(71.5%) 334/522(64%)	N/A	N/A
Seymour et al 2013	230/230	Irinotecan+Panitumumab Paniumumab	79/230(34.3%) 27/230(11.7%)	135/230(58.7%) 118/230(51.3%)	0.78(0.64-0.95)	1.01(0.83-1.23)

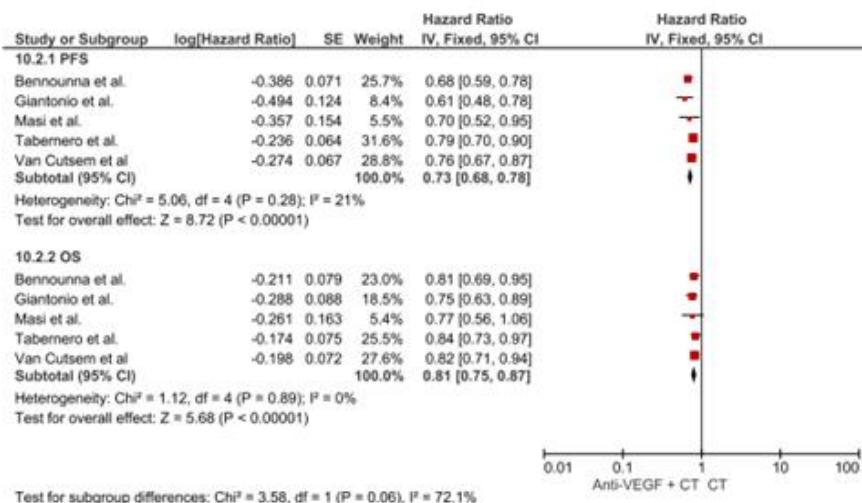
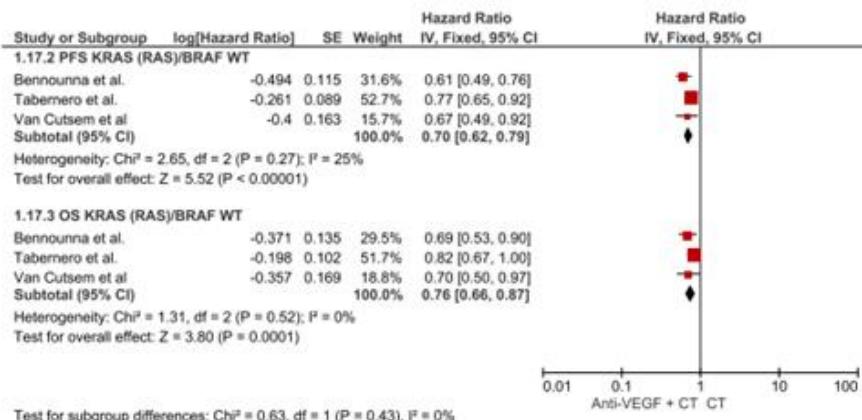
Study (reference)	KRAS WT/mut	PFS (RAS WT) HR(95% CI)	PFS (RAS Mut) HR(95% CI)	OS (RAS WT) HR(95% CI)	OS (RAS Mut) HR(95% CI)	ORR (RAS WT) n.(%)	ORR (RAS Mut) n.(%)
Giantonio et al 2007	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bennouna et al 2013	151/164 165/136	0.61 (0.49-0.77)	0.70 (0.56-0.89)	0.69 (0.53-0.90)	0.92 (0.71-1.18)	11/151 (7.3%) 9/164(5.5%)	6/164(3.7%) 4/134 (3%)
Masi et al 2015	32/40 36/32	N/A	N/A	N/A	N/A	N/A	N/A
Van Cutsem et al 2012	218/264	0.67(0.49-0.93)	0.80(0.60-1.07)	0.70(0.50-0.97)	0.93(0.7-1.23)	N/A	34/264(12.9%) 36/264(13.6%)
Tabernero et al 2015	267/269 275/261	0.77(0.65-0.92)	084(0.70-1.00)	0.82(0.67-1.00)	0.89(0.73-1.09)	N/A	N/A
Sobrero et al 2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Peeters et al 2010	303/238 294/248	0.70 (0.54-0.91)	0.86 (0.71-1.05)	0.81 (0.63-1.03)	0.91 (0.76-1.10)	105/297 (35%) 28/285 (10%)	30/232 (13%) 33/237 (14%)
Seymour et al 2013	N/A	0.68(0.53-0.87)	1.20(0.83-1.74)	0.92(0.73-1.16)	1.64(1.15-2.35)	70/160(43.8%) 20/163(12.3%)	9/70(12.9%) 7/67(10.4%)

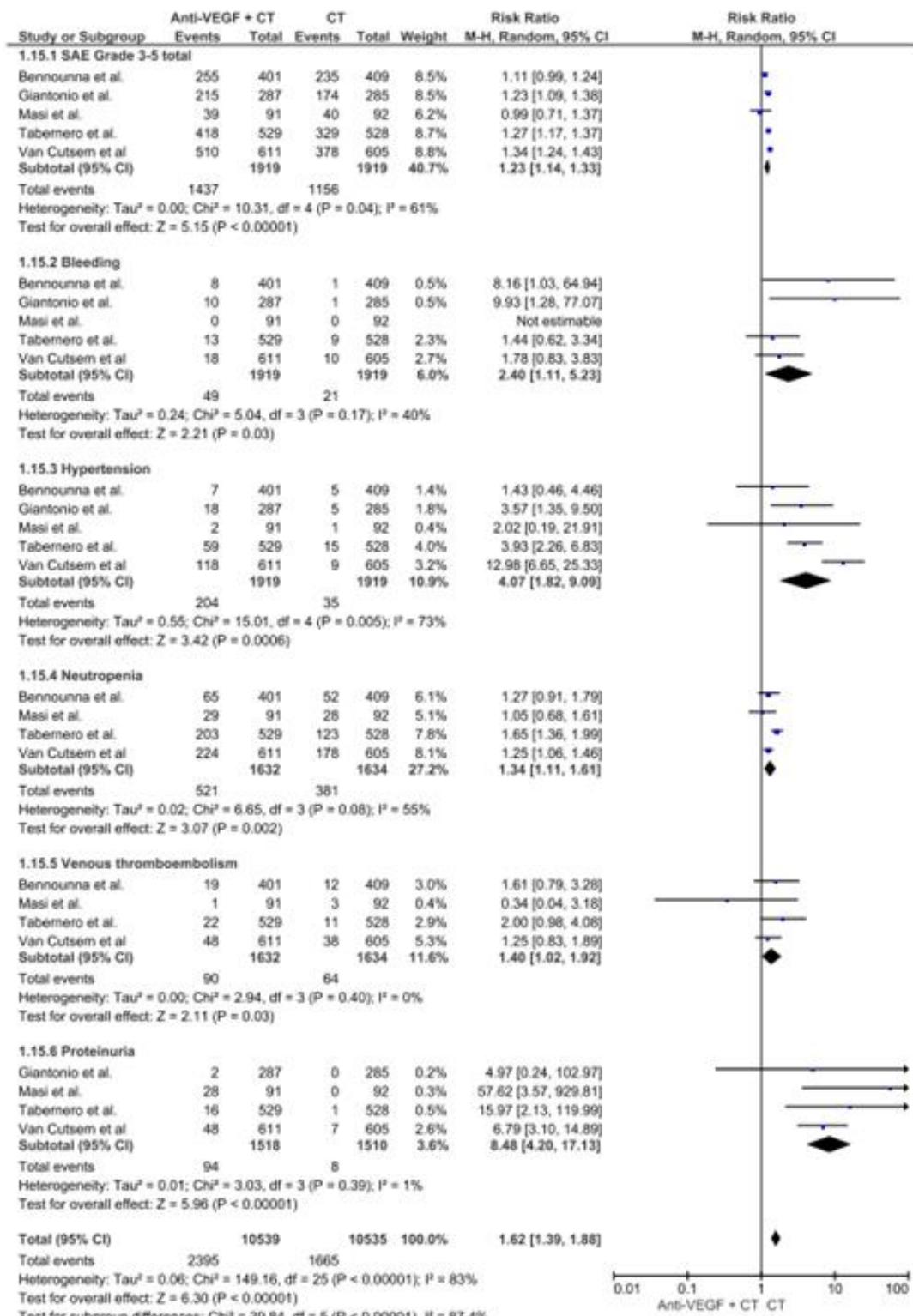
Study (reference)	DCR (RAS WT) n.(%)	DCR (RAS Mut) n.(%)	BRAF WT/mut	OS BRAF WT HR(95% CI)	OS BRAF Mut HR(95% CI)	PFS BRAF WT HR(95% CI)	PFS BRAF Mut HR(95% CI)
Giantonio et al 2007	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benounna et al 2013	110/151 (72,85%) 100/164 (61%)	114/164 (69,5%) 75/134 (56%)	N/A	N/A	N/A	N/A	N/A
Masi et al 2015	N/A	N/A	65/7 64/3	N/A	N/A	N/A	N/A
Van Cutsem et al 2012	N/A	N/A	446/36	0.84(0.67-1.05)	0.42(0.16-1.09)	0.76(0.61-0.94)	0.59(0.22-1.58)
Tabernero et al 2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sobrero et al 2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Peeters et al 2010	220/297 (74%) 185/285 (65%)	162/232 (68%) 149/237 (63%)	186/22 190/23	0.83(0.70-0.98)	0.64(0.32-1.28)	0.68(0.51-0.90)	0.69(0.32-1.49)
Seymour et al 2013	N/A	N/A	N/A	N/A	1.84(1.16-2.92)	N/A	1.40(0.82-2.39)

FigureS2

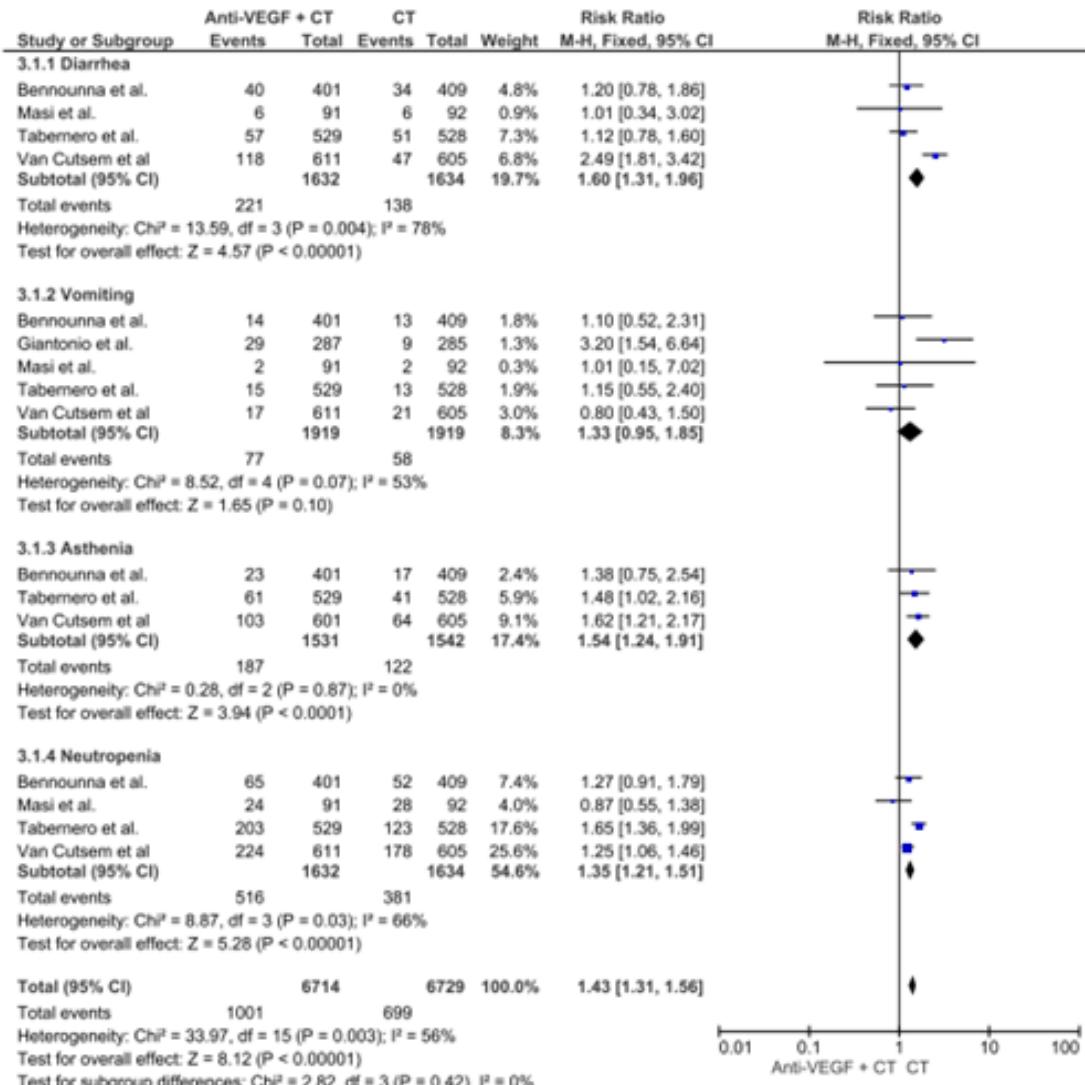


FigureS3

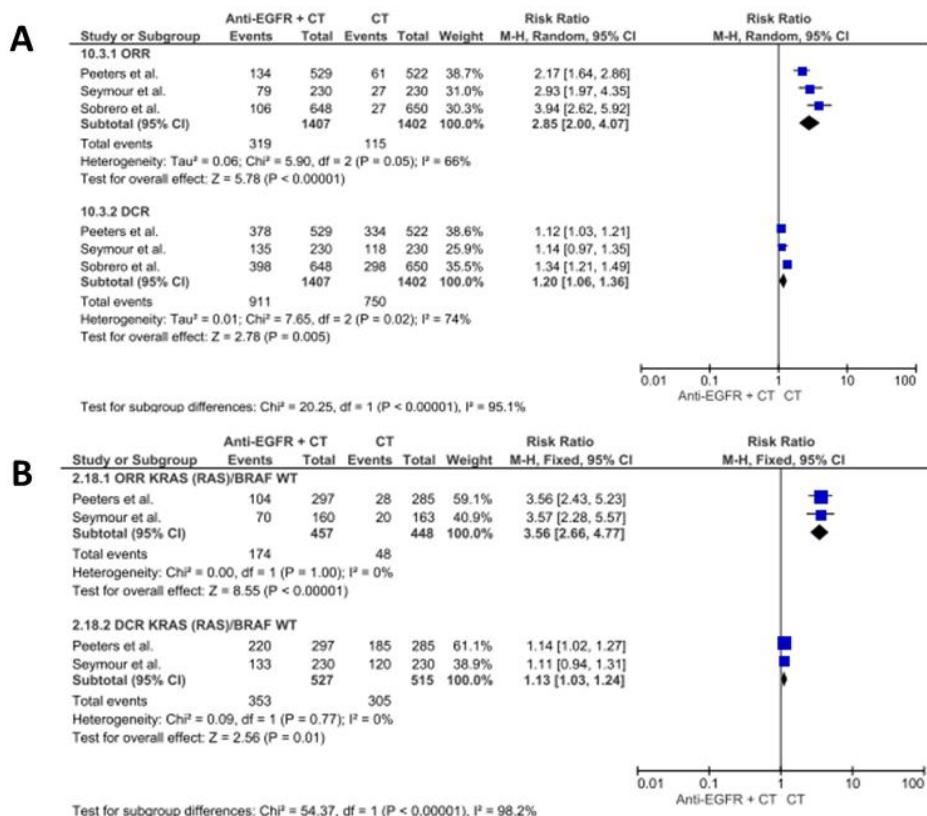
A**B****FigureS4**



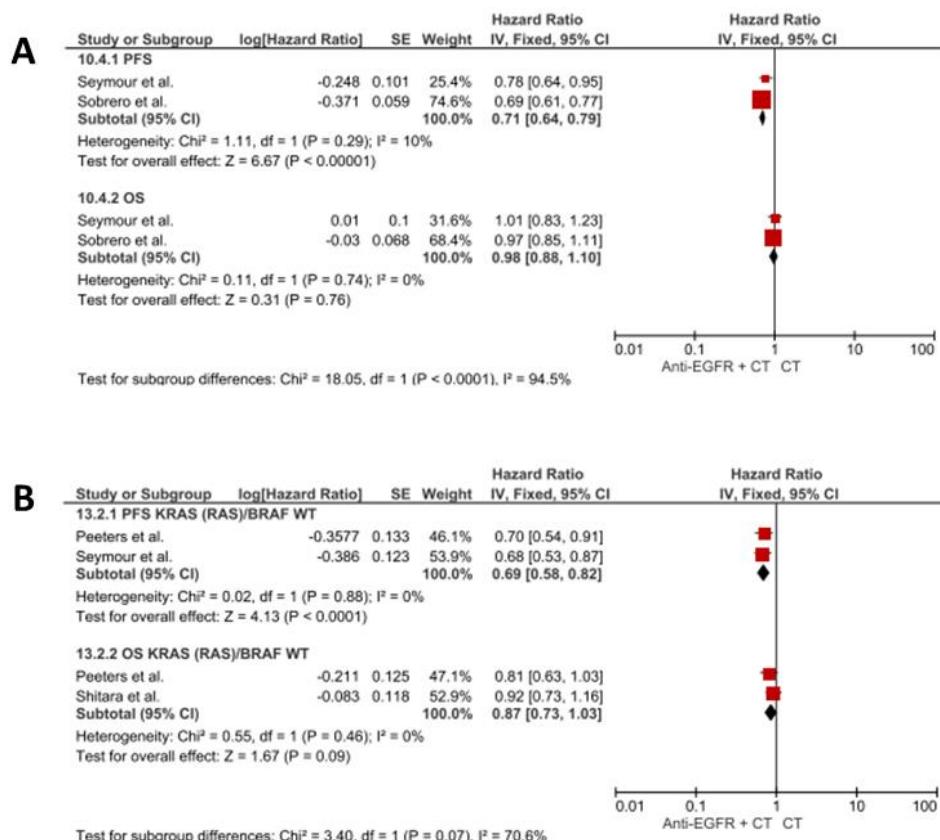
FigureS5



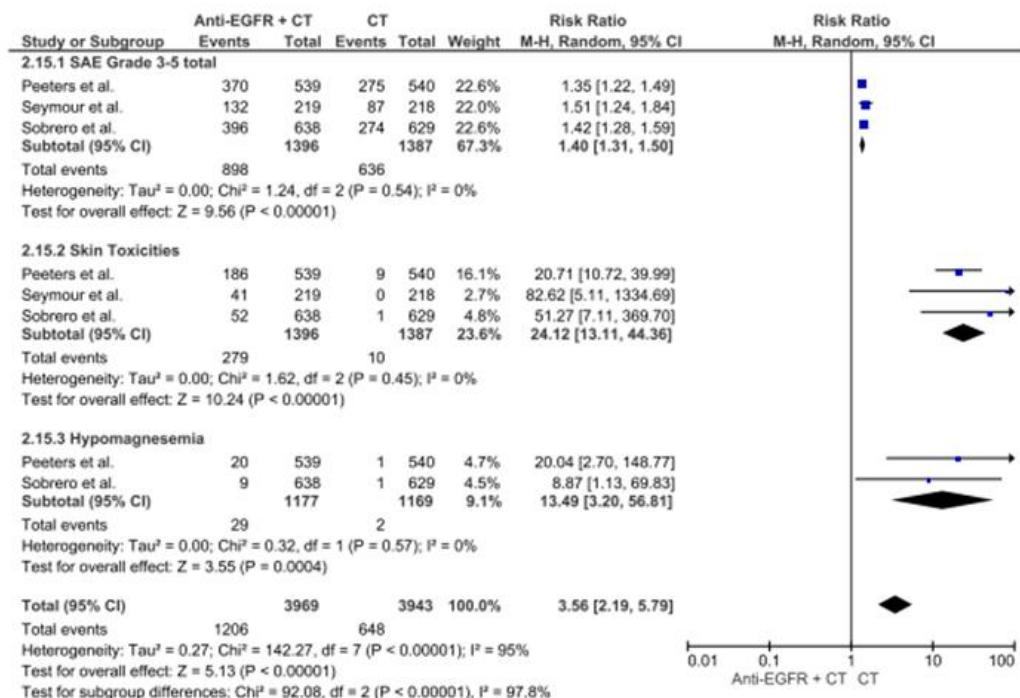
FigureS6



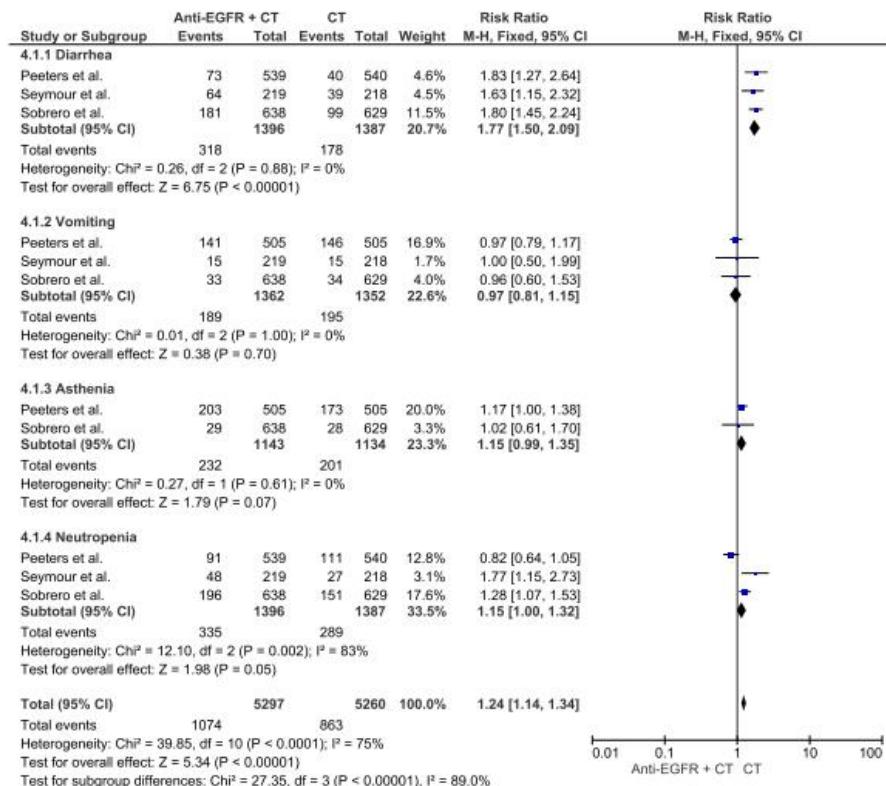
FigureS7



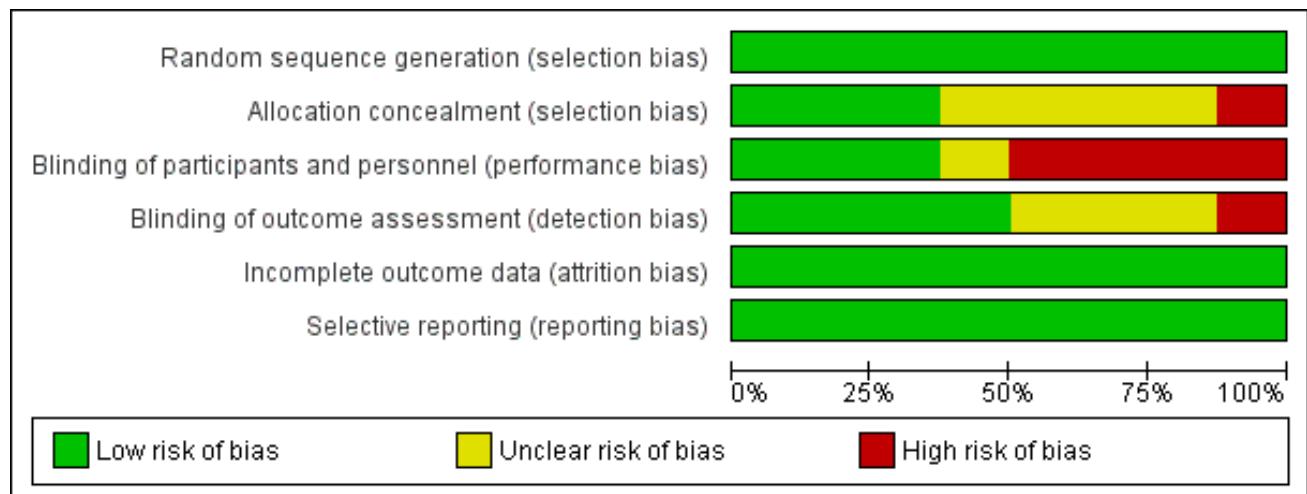
FigureS8



FigureS9



FigureS10



FigureS11

Search Strategy

ELECTRONIC SEARCH

1. We used a search strategy Medline through Pubmed. The same search was then modified for searches in other databases (EMBASE, Controlled Cochrane Trial Register - CCTR).

The query was adapted from Robinson & coll: [Robinson KA, Dickersin K. Development of a highly sensitive search strategy for the retrieval of reports of controlled trials using PubMed. International journal of epidemiology 2002;31:150-153].

2. ("Colorectal Neoplasms"[Mesh] OR "colorectal cancer"[tiab] OR "CRC"[tiab]) AND ("second line"[tiab] OR "beyond first"[tiab] OR "progressing"[tiab]) AND ("bevacizumab"[tiab] OR "cetuximab"[tiab] OR "panitumumab"[tiab] OR "ramucirumab"[tiab] OR "afiblerecept"[tiab]))
3. We used the free text strategy

Second line- advancedcolorectal cancer – Bevacizumab – Cetuximab – Panitumumab – Aflibercept - Ramucirumab

for trials on-line searches in Clinical Trials registers (www.clinicaltrials.gov)

3. We searched meta-analyses for any other published data concerning second line or advanced colorectal cancer OR The strategy in Pubmed for meta-analysis searching was:

"second line"[tiab] AND meta-analysis[pt]

"advanced colorectal cancer"[tiab] AND meta-analysis[pt]

("Colorectal Neoplasms"[Mesh] OR "CRC"[tiab] OR "colorectal"[tiab]) AND meta-analysis[pt]

FigureS12

Search Strategy

ELECTRONIC SEARCH

1. We used a search strategy Medline through Pubmed. The same search was then modified for searches in other databases (EMBASE, Controlled Cochrane Trial Register - CCTR).

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