

# Pancreatic Cancer in adults: diagnosis and management

*Appendix H*

*Forest Plots and Summary ROC Curves*

*31 July 2017*

*Draft for Consultation*

*Developed by the National Guideline Alliance, hosted  
by the Royal College of Obstetricians and  
Gynaecologist*



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The recommendations in this guideline represent the view of NICE, arrived at after careful consideration of the evidence available. When exercising their judgement, professionals are expected to take this guideline fully into account, alongside the individual needs, preferences and values of their patients or service users. The recommendations in this guideline are not mandatory and the guideline does not override the responsibility of healthcare professionals to make decisions appropriate to the circumstances of the individual patient, in consultation with the patient and/or their carer or guardian.

Local commissioners and/or providers have a responsibility to enable the guideline to be applied when individual health professionals and their patients or service users wish to use it. They should do so in the context of local and national priorities for funding and developing services, and in light of their duties to have due regard to the need to eliminate unlawful discrimination, to advance equality of opportunity and to reduce health inequalities. Nothing in this guideline should be interpreted in a way that would be inconsistent with compliance with those duties.

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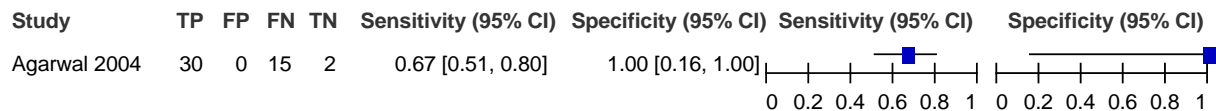
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# 1 Appendix H: Forest plots and Summary 2 ROC curves

## H.13 People with jaundice

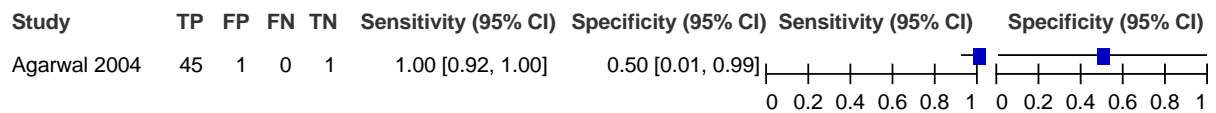
4

### 5 Figure 1: Forest plot of spiral CT



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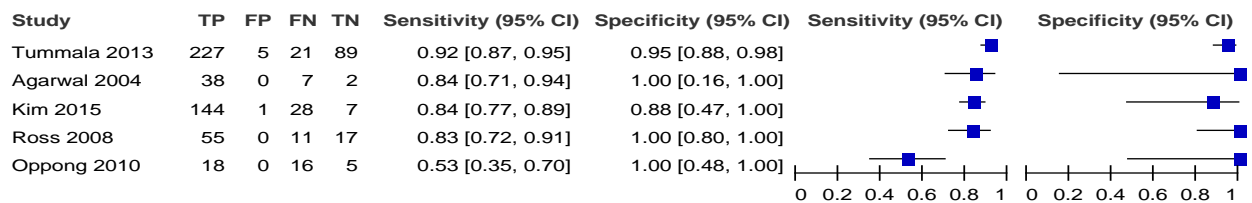
### 7 Figure 2: Forest plot of EUS



8

### 9 Figure 3: Forest plots for EUS-FNA

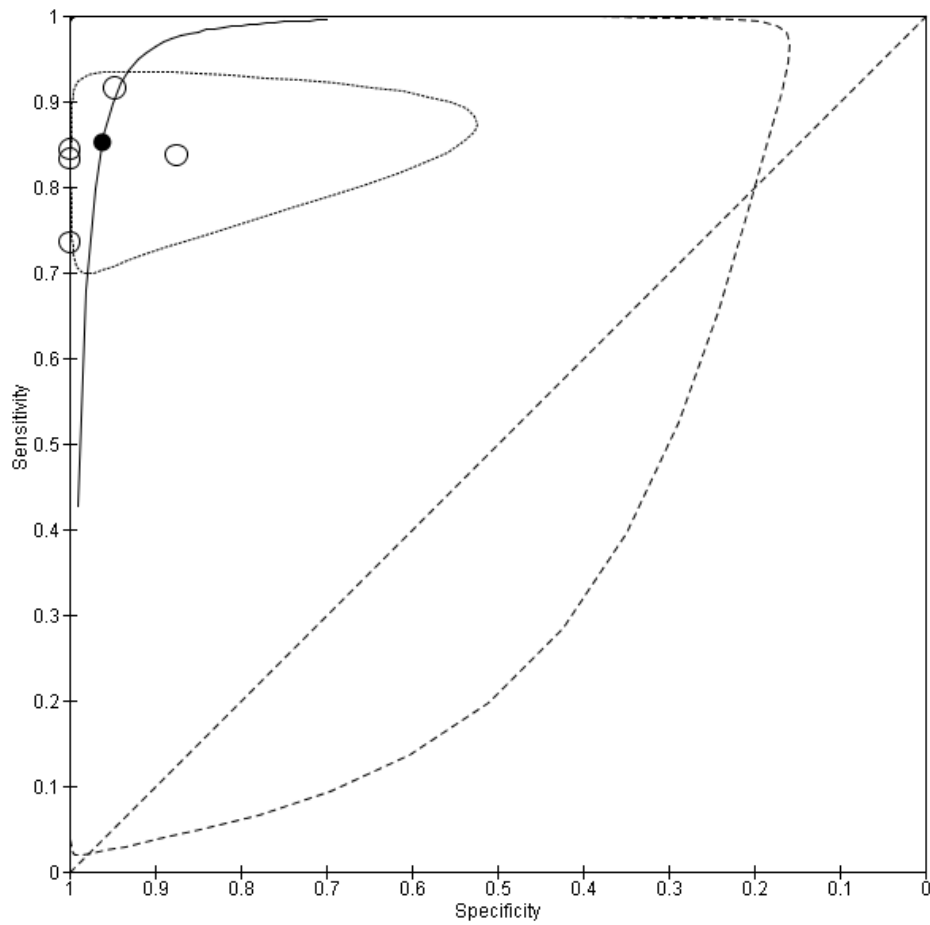
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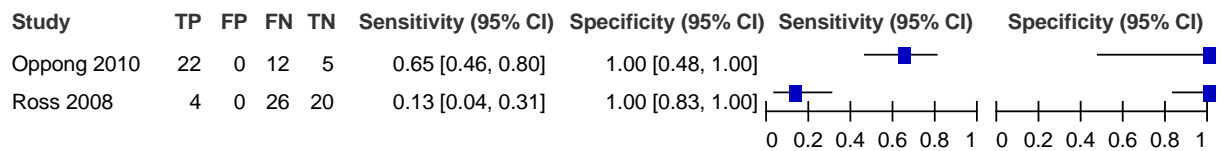
1 **Figure 4: EUS-FNA - Summary ROC curve**



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4 **Figure 5: Forest plot of ERCP + BB.**



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6

## H.21 People without jaundice but with a pancreatic abnormality

### 2 Figure 6: Forest plot of computer tomography

Study	TP	FP	FN	TN	Type of observational study	Index test type	Sensitivity (95% CI)	Specificity (95% CI)	Sensitivity (95% CI)	Specificity (95% CI)
Tamm 2007 CT	96	5	3	13	Retrospective cohort	Not applicable	0.97 [0.91, 0.99]	0.72 [0.47, 0.90]		

3

### 4 Figure 7: Forest plot of EUS

Study	TP	FP	FN	TN	Type of study	Index test type	Sensitivity (95% CI)	Specificity (95% CI)	Sensitivity (95% CI)	Specificity (95% CI)
Krishna 2009	110	35	0	68	Prospective cohort	Cytology	1.00 [0.97, 1.00]	0.66 [0.56, 0.75]		
Tamm 2007 EUS	98	9	1	9	Retrospective cohort	Histology	0.99 [0.95, 1.00]	0.50 [0.26, 0.74]		

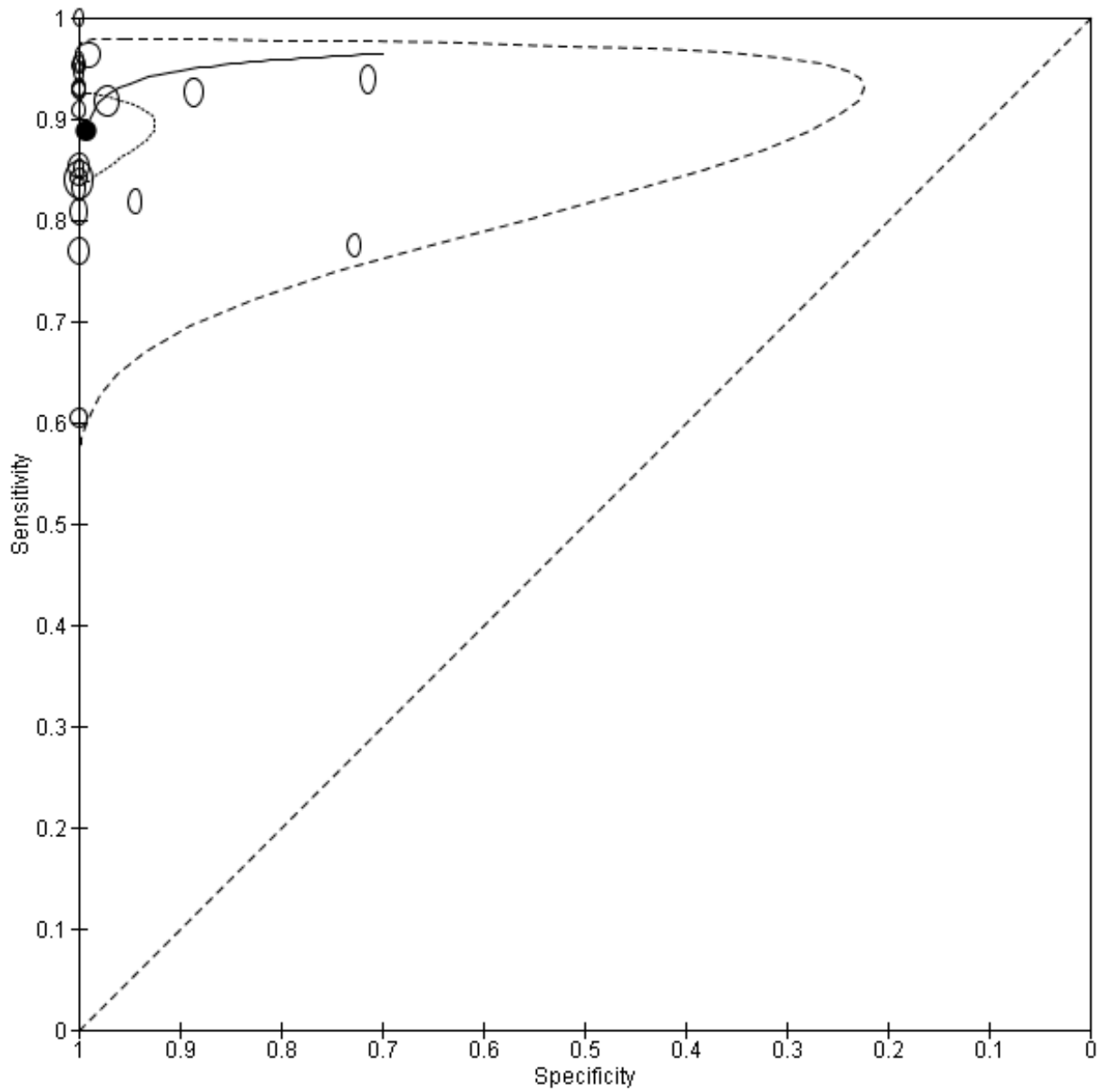
5

### 6 Figure 8: Forest plot of EUS-FNA

Study	TP	FP	FN	TN	Type of study	Index test type	Sensitivity (95% CI)	Specificity (95% CI)	Sensitivity (95% CI)	Specificity (95% CI)
Bang 2012	25	0	0	3	RCT	Cytology	1.00 [0.86, 1.00]	1.00 [0.29, 1.00]		
Fabbri 2011	44	0	2	4	Prospective cohort	Cytology	0.96 [0.85, 0.99]	1.00 [0.40, 1.00]		
Ramesh 2015 19-gauge	41	0	2	7	RCT	Cytology	0.95 [0.84, 0.99]	1.00 [0.59, 1.00]		
Lee 2014	53	0	3	2	RCT	Histology + Cytology	0.95 [0.85, 0.99]	1.00 [0.16, 1.00]		
Hikichi 2009 Group 2	27	0	2	6	Retrospective cohort	Cytology	0.93 [0.77, 0.99]	1.00 [0.54, 1.00]		
Wakatsuki 2005	39	0	3	11	Retrospective cohort	Cytology	0.93 [0.81, 0.99]	1.00 [0.72, 1.00]		
Hikichi 2009 Group 1	26	0	2	10	Retrospective cohort	Cytology	0.93 [0.76, 0.99]	1.00 [0.69, 1.00]		
Ramesh 2015 25-gauge	40	0	4	6	RCT	Cytology	0.91 [0.78, 0.97]	1.00 [0.54, 1.00]		
Fritscher-Ravens 2002	99	0	17	84	Retrospective cohort	Cytology	0.85 [0.78, 0.91]	1.00 [0.96, 1.00]		
Mishra 2006	40	0	7	5	Prospective cohort	Cytology	0.85 [0.72, 0.94]	1.00 [0.48, 1.00]		
Iglesias-Garcia 2007	32	0	6	24	Prospective cohort	Cytology	0.84 [0.69, 0.94]	1.00 [0.86, 1.00]		
Yusuf 2009 22-gauge	314	0	60	166	Retrospective cohort	Cytology	0.84 [0.80, 0.88]	1.00 [0.98, 1.00]		
Seicean 2016	89	0	18	11	Prospective cohort	Histology	0.83 [0.75, 0.90]	1.00 [0.72, 1.00]		
Bourmet 2009	122	0	29	27	Prospective cohort	Cytology	0.81 [0.74, 0.87]	1.00 [0.87, 1.00]		
Bourmet 2015	97	0	29	60	Prospective cohort	Histology + Cytology	0.77 [0.69, 0.84]	1.00 [0.94, 1.00]		
Wittmann 2006	29	0	19	36	Prospective cohort	Histology + Cytology	0.60 [0.45, 0.74]	1.00 [0.90, 1.00]		
Krishna 2009	106	1	4	102	Prospective cohort	Cytology	0.96 [0.91, 0.99]	0.99 [0.95, 1.00]		
Yusuf 2009 25-gauge	180	3	16	103	Retrospective cohort	Cytology	0.92 [0.87, 0.95]	0.97 [0.92, 0.99]		
Tamm 2007 EUS-FNA	81	1	18	17	Retrospective cohort	Unclear	0.82 [0.73, 0.89]	0.94 [0.73, 1.00]		
Kliment 2010	151	5	12	39	Prospective cohort	Cytology	0.93 [0.87, 0.96]	0.89 [0.75, 0.96]		
Touchefeu 2009	62	3	18	8	Prospective cohort	Histology + Cytology	0.78 [0.67, 0.86]	0.73 [0.39, 0.94]		
Harewood 2002	154	6	10	15	Prospective cohort	Cytology	0.94 [0.89, 0.97]	0.71 [0.48, 0.89]		

7

1 **Figure 9: EUS-FNA - Summary ROC curve**

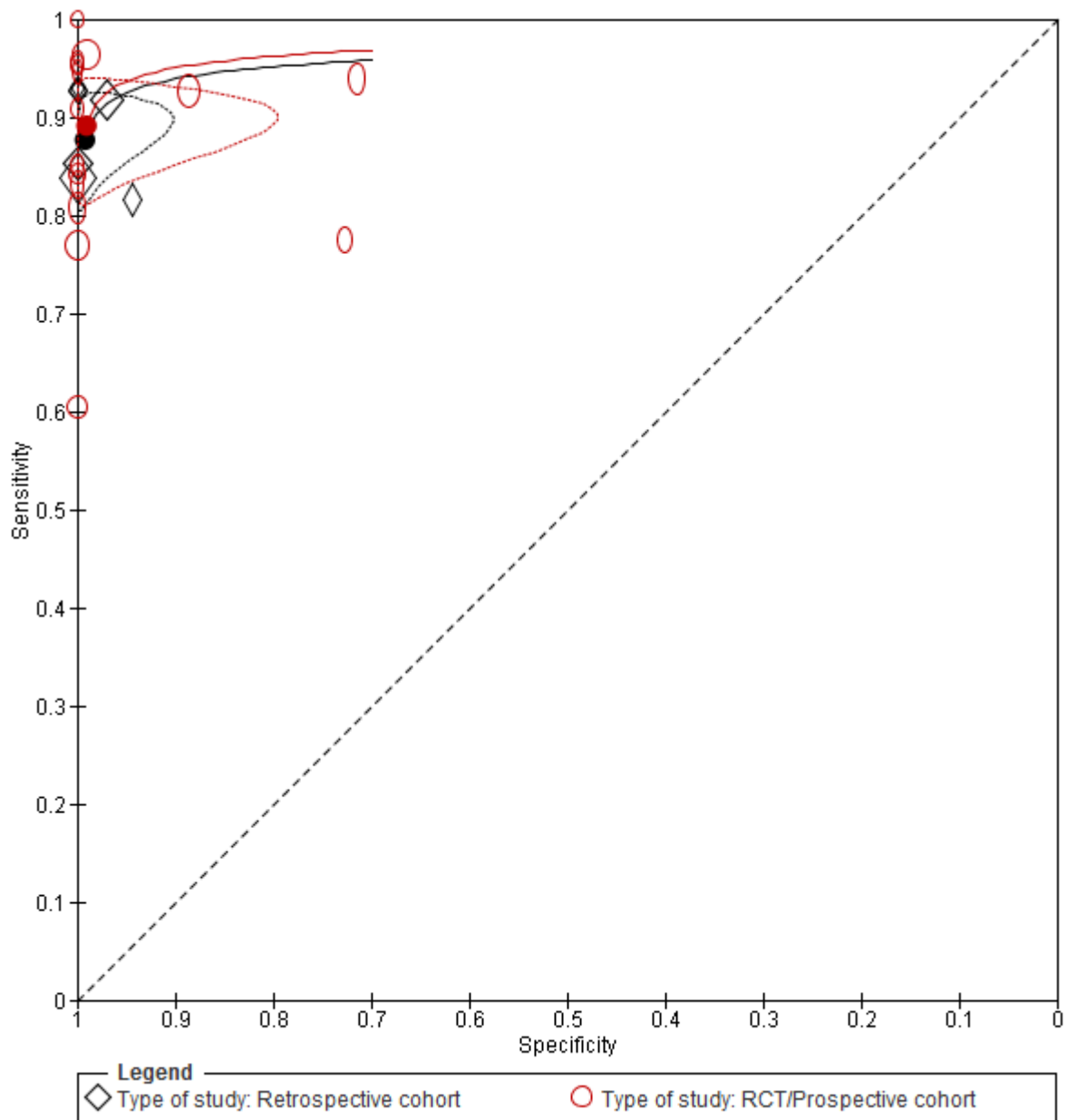


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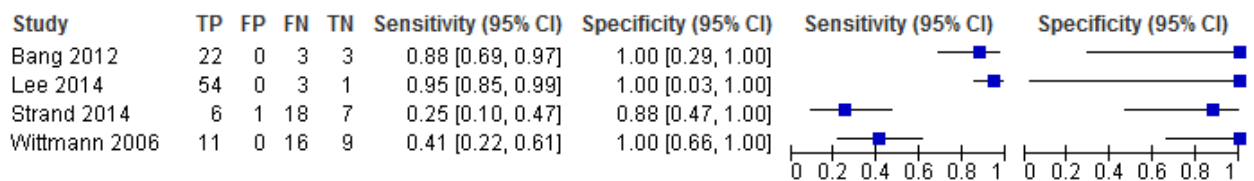
1 **Figure 10: EUS-FNA - Summary ROC curve (subgroup analysis by type of study)**



2

3 Note: Red and black dotted line represent the 95% confidence region for, respectively, the RCT/prospective  
4 cohort and retrospective cohort study groups.

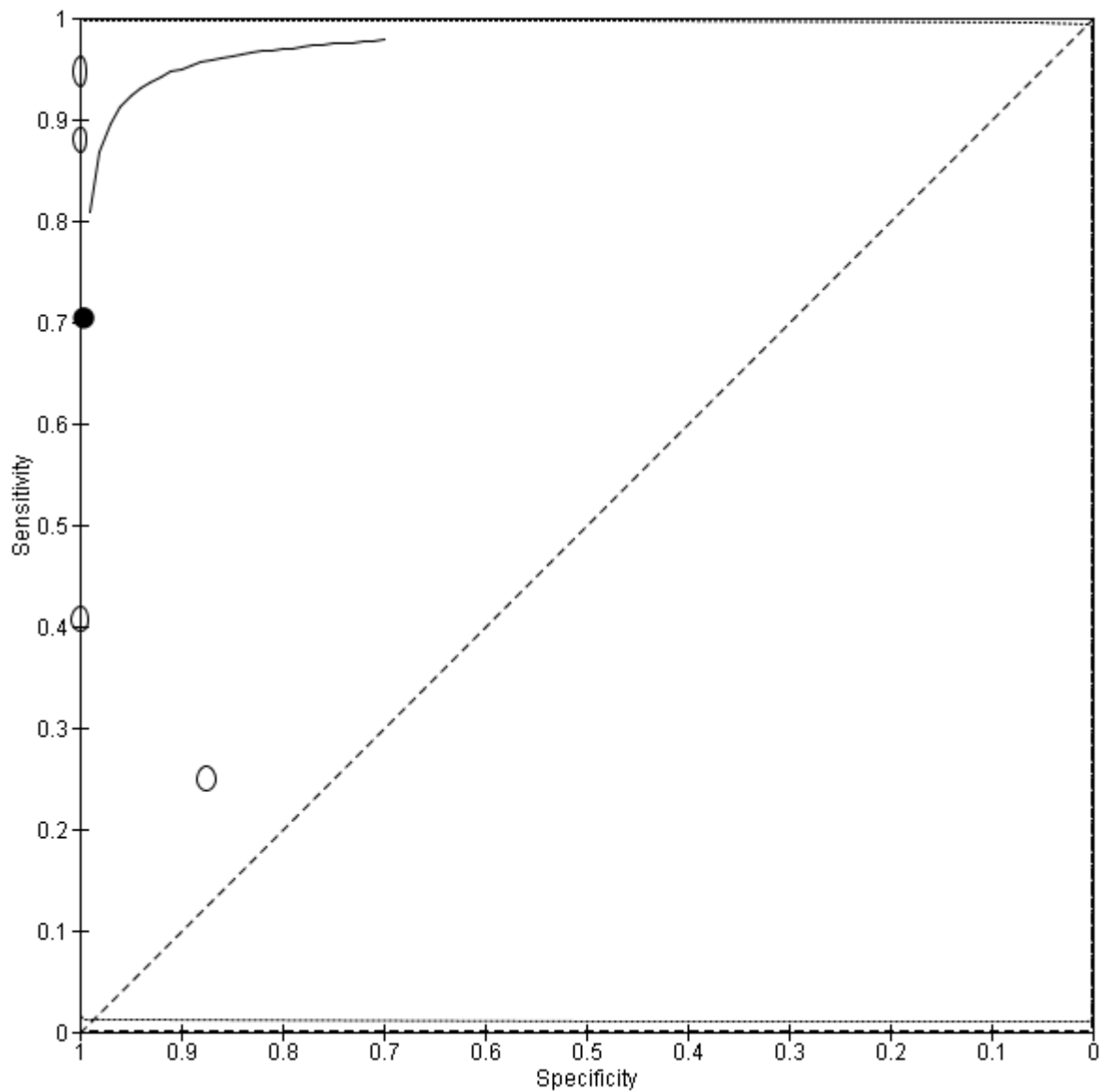
5 **Figure 11: Forest plot of EUS-Core**



6

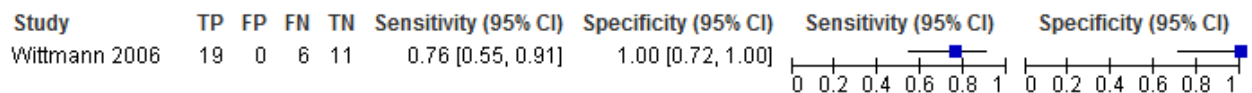
1

2 **Figure 12: EUS-Core Biopsy - Summary ROC curve**



3

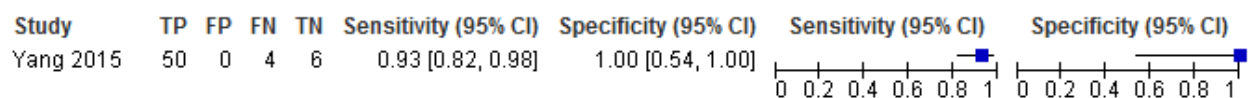
4 **Figure 13: Forest plot of EUS-FNA + Core**



5

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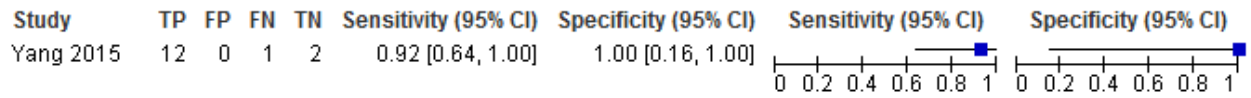
7 **Figure 14: Forest plot of PUS-Core**



8

1 **Figure 15: Forest plot of PUS-FNA + Core**

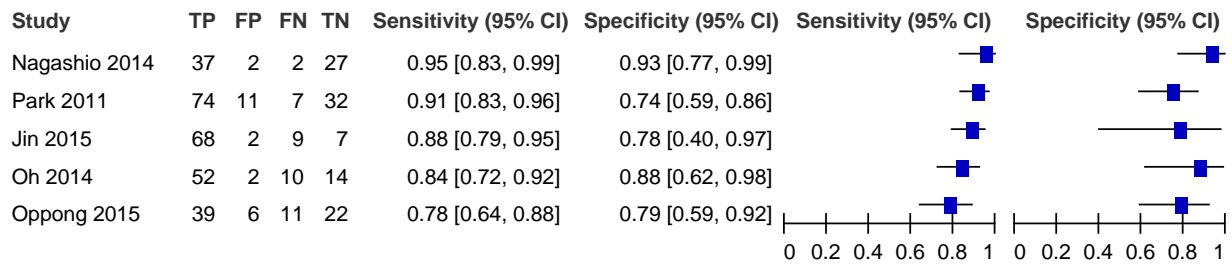
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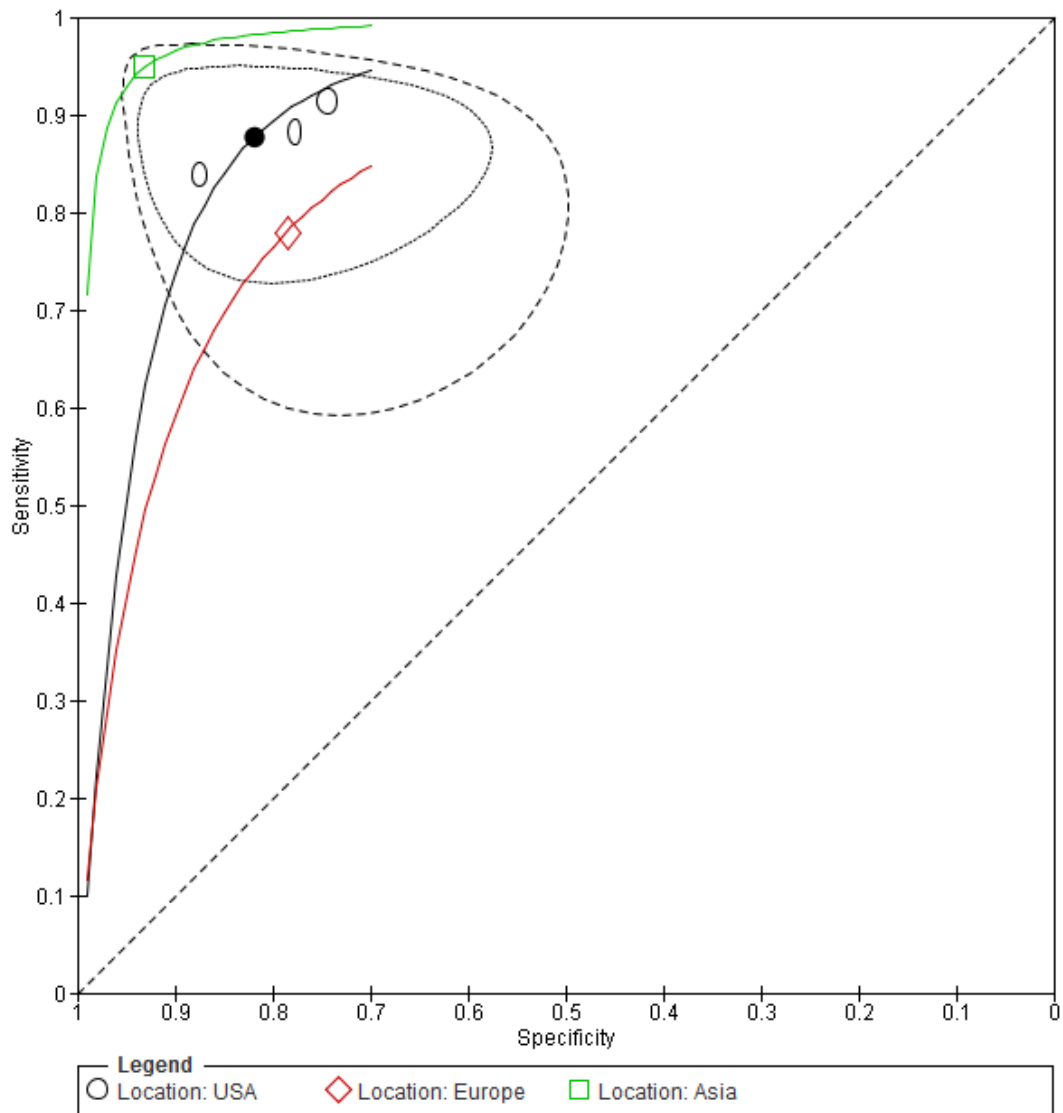
### H.3.4 Pancreatic Cysts

5 **Figure 16: Forest plot for Cystic fluid CEA at cut-off level of <30-<70 ng/ml for**  
6 **differentiating between MCNs and NMCNs of pancreas**



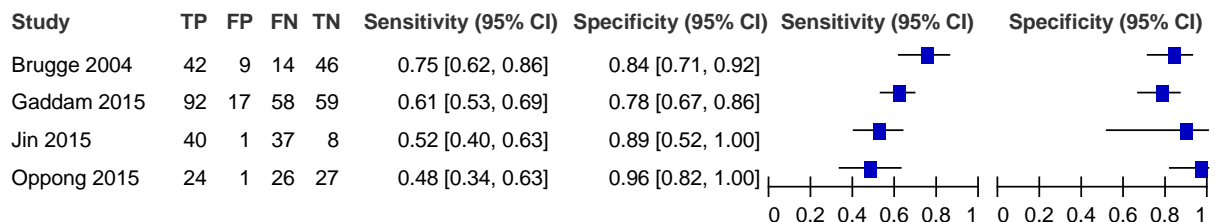
7

1 **Figure 17: Summary ROC curve of cystic fluid CEA at cut-off level of <30-<70 ng/ml for**  
 2 **differentiating between MCNs and NMCNs of pancreas**



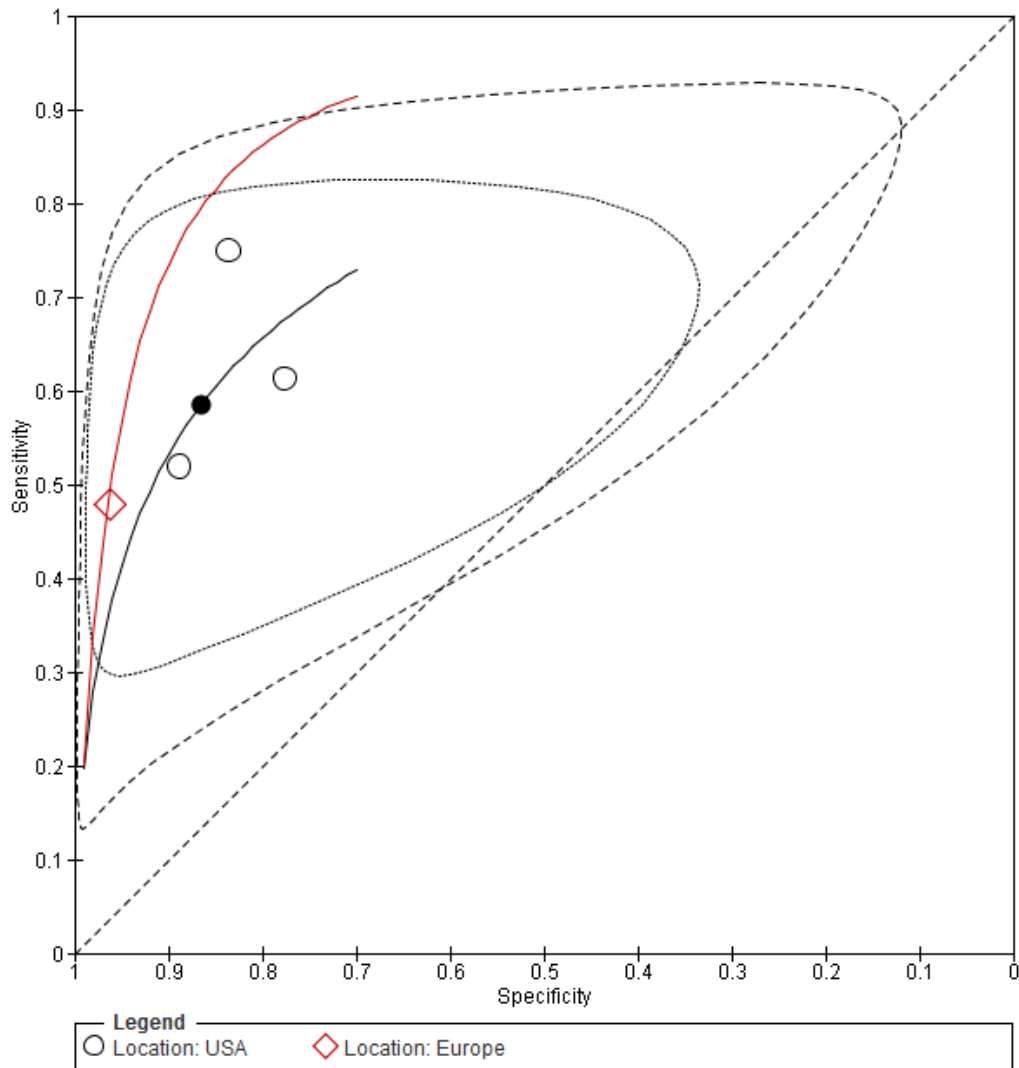
3

4 **Figure 18: Forest plot for cystic fluid CEA at cut-off level of <192 ng/ml for**  
 5 **differentiating between MCNs and NMCNs of pancreas**



6

1 **Figure 19: Summary ROC curve of cystic fluid CEA [192 ng/ml] for differentiating**  
2 **between MCNs and NMCNs of pancreas**

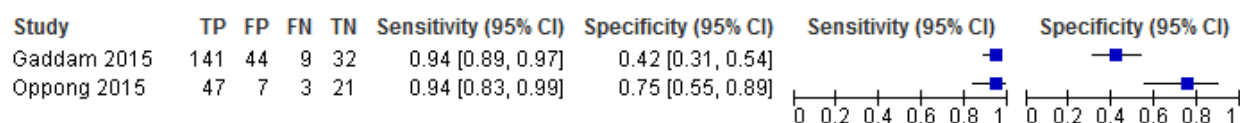


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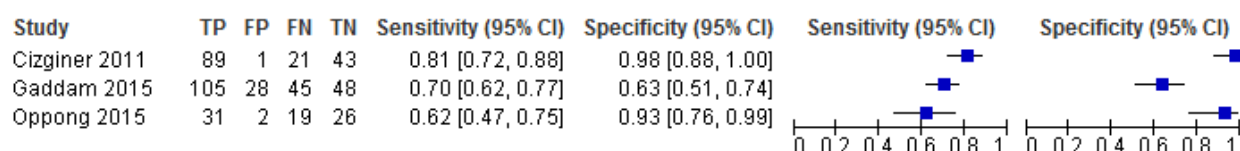


1 **Figure 20: Forest plots for other studies on cystic fluid CEA at various cut-off levels**  
2 **for differentiating between MCNs and NMCNs of pancreas**

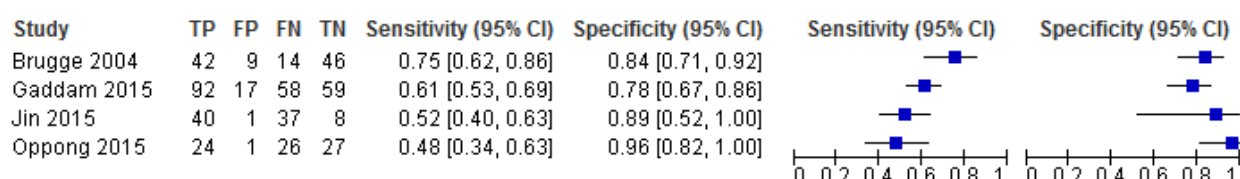
**Cystic fluid CEA [ $<30$  ng/ml]**



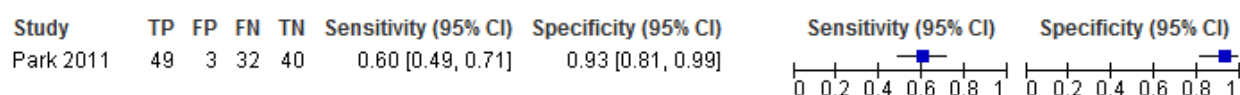
**Cystic fluid CEA [105 -110 ng/ml]**



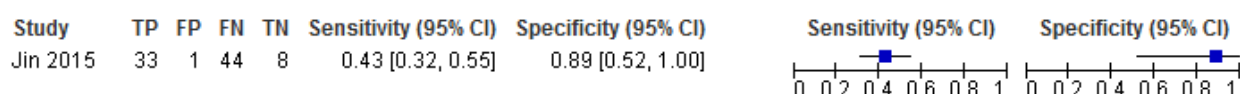
**Cystic fluid CEA [192 ng/ml] - M vs NM**



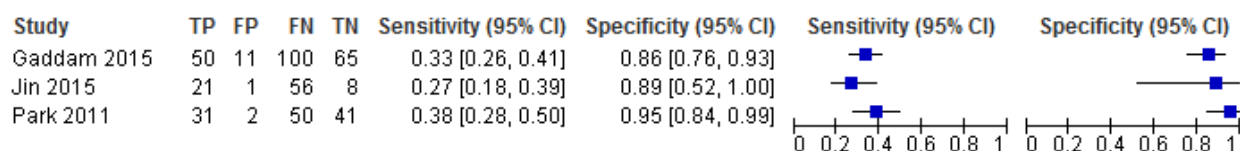
**Cystic fluid CEA [200 ng/ml] - M vs NM**



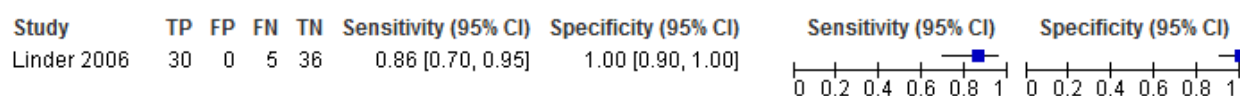
**Cystic fluid CEA [300 ng/ml] - M vs NM**



**Cystic fluid CEA [800 ng/ml] - M vs NM**

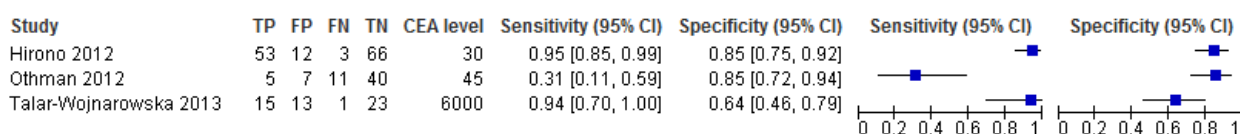


**Cystic fluid CEA [6000 ng/ml] - M vs NM**



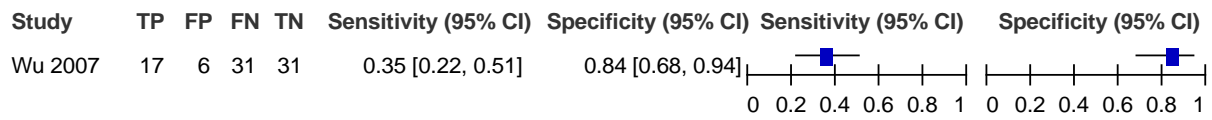
3

4 **Figure 21: Forest plot for cystic fluid CEA in differentiating between (potentially)**  
5 **malignant and benign PCLs**



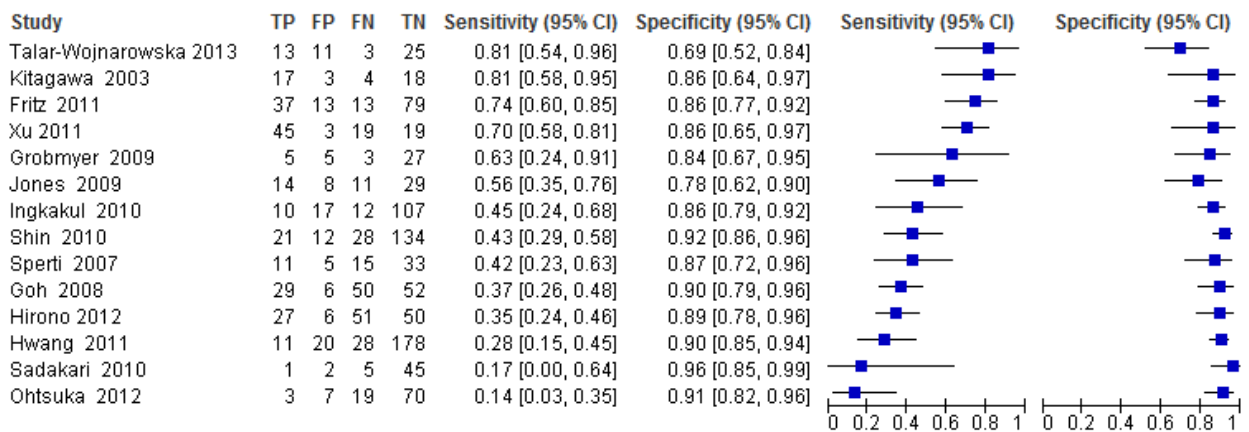
6

1 **Figure 22: Forest plot for serum CEA at unspecified cut-off level for differentiating**  
2 **between (potentially) malignant and benign PCLs**



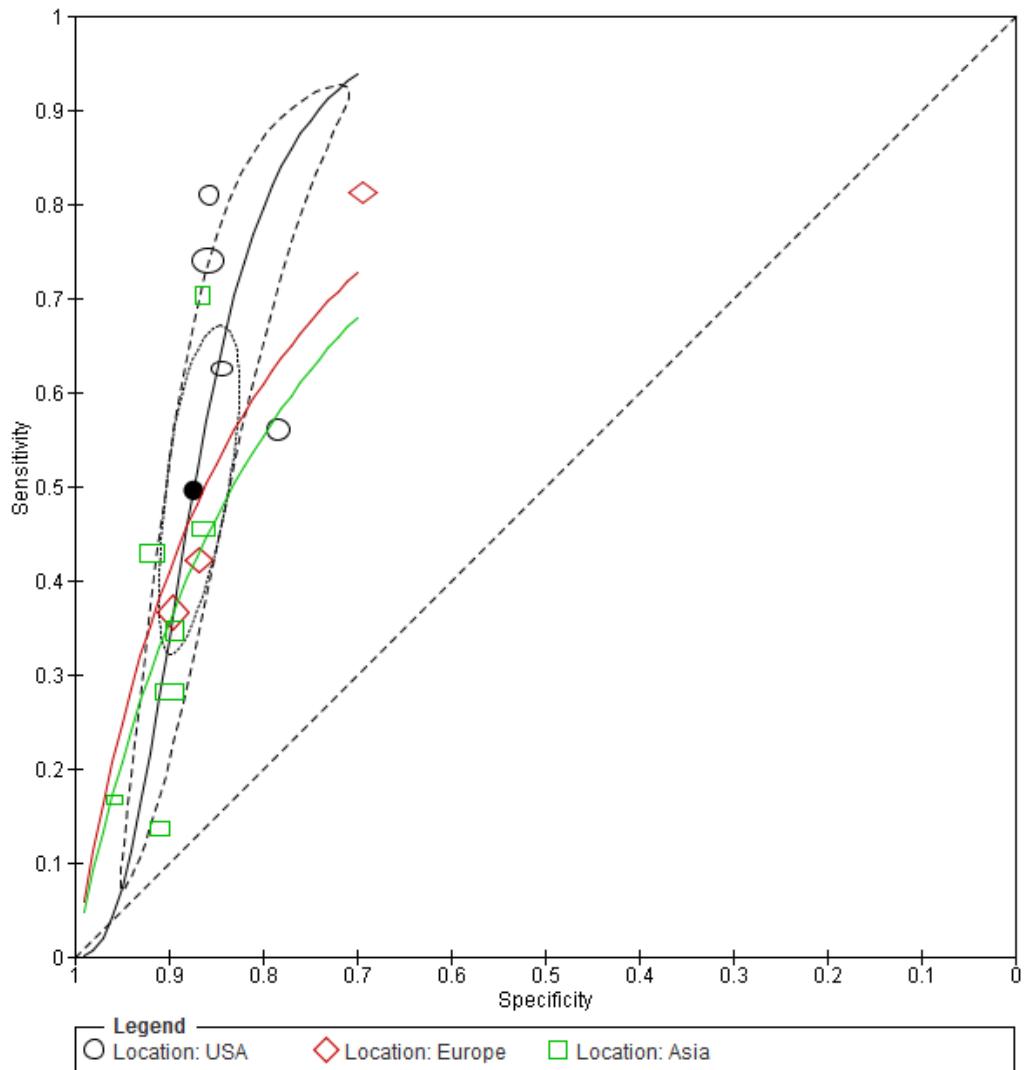
3

4 **Figure 23: Forest plot for cystic fluid CA 19-9 at cut-off level of <35-<45 ng/ml] for**  
5 **differentiating between (potentially) malignant and benign PCLs**



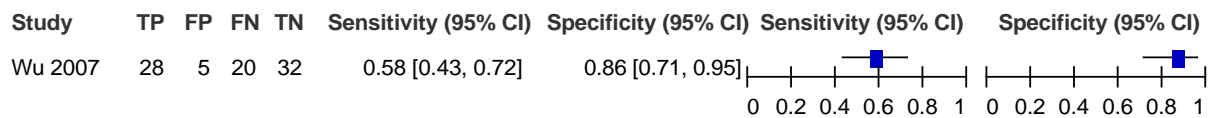
6

1 **Figure 24: Summary ROC curve for cystic fluid CA 19-9 at cut-off level of <35-45**  
 2 **ng/ml] for differentiating between (potentially) malignant and benign PCLs**



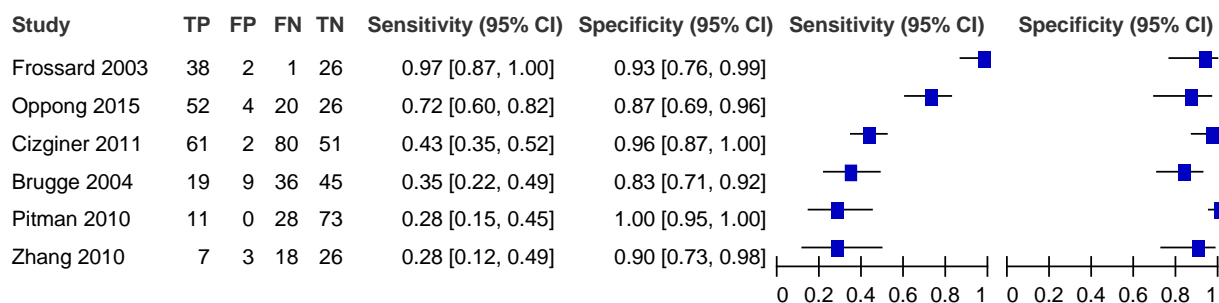
3

4 **Figure 25: Forest plot for serum CA 19-9 at unspecified cut-off level for differentiating**  
 5 **between (potentially) malignant and benign PCLs**



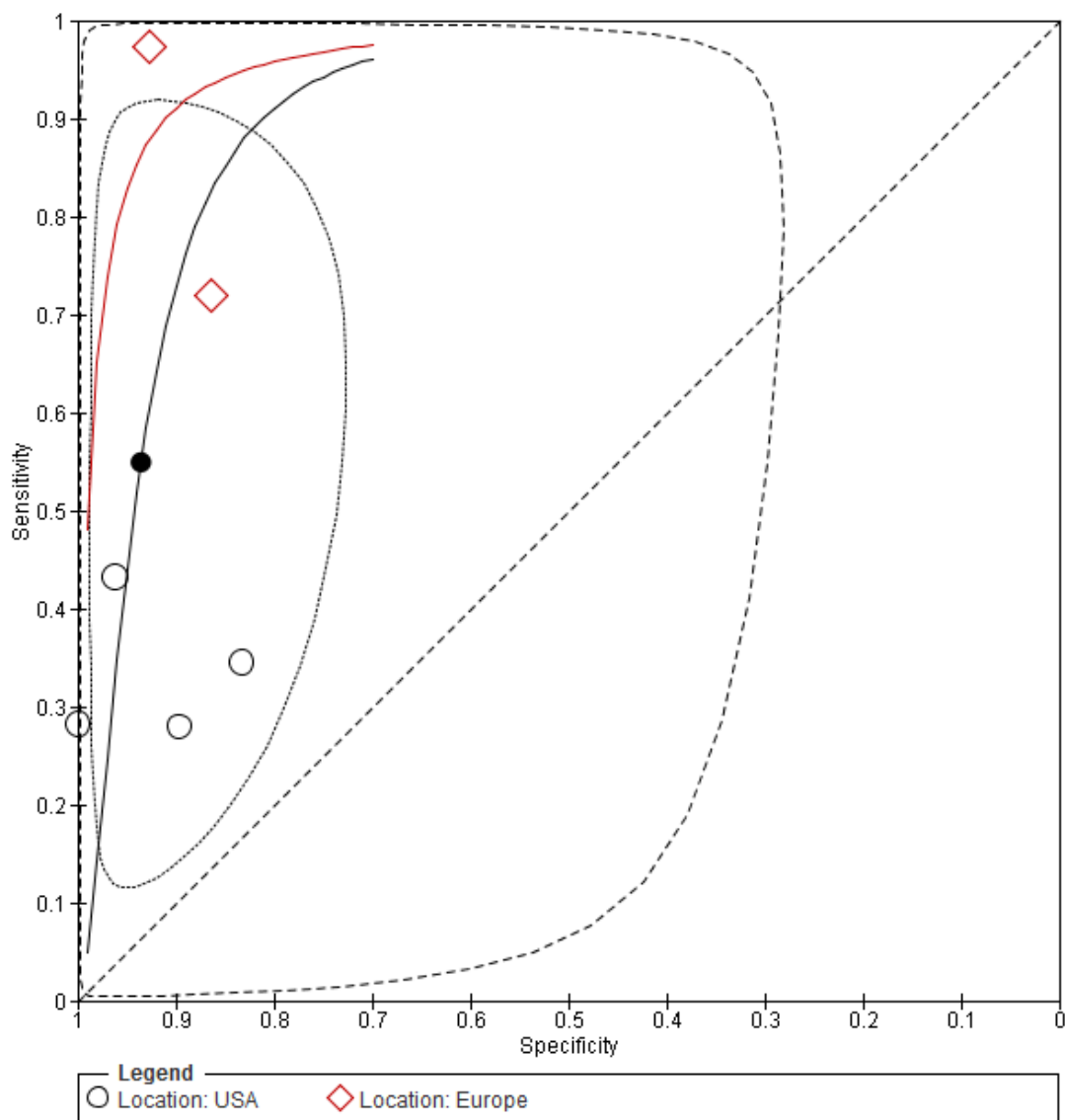
6

1 **Figure 26: Forest plot for EUS-FNA-based cytology for differentiating between MCNs**  
2 **and NMCNs of pancreas**



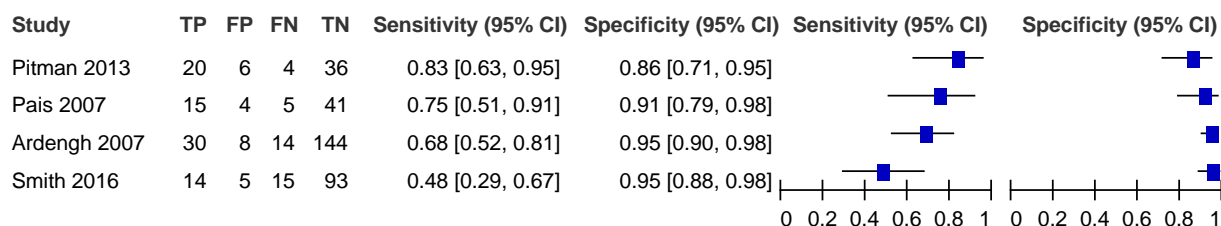
3

4 **Figure 27: Summary ROC curve for EUS-FNA-based cytology for differentiating**  
5 **between MCNs and NMCNs of pancreas**



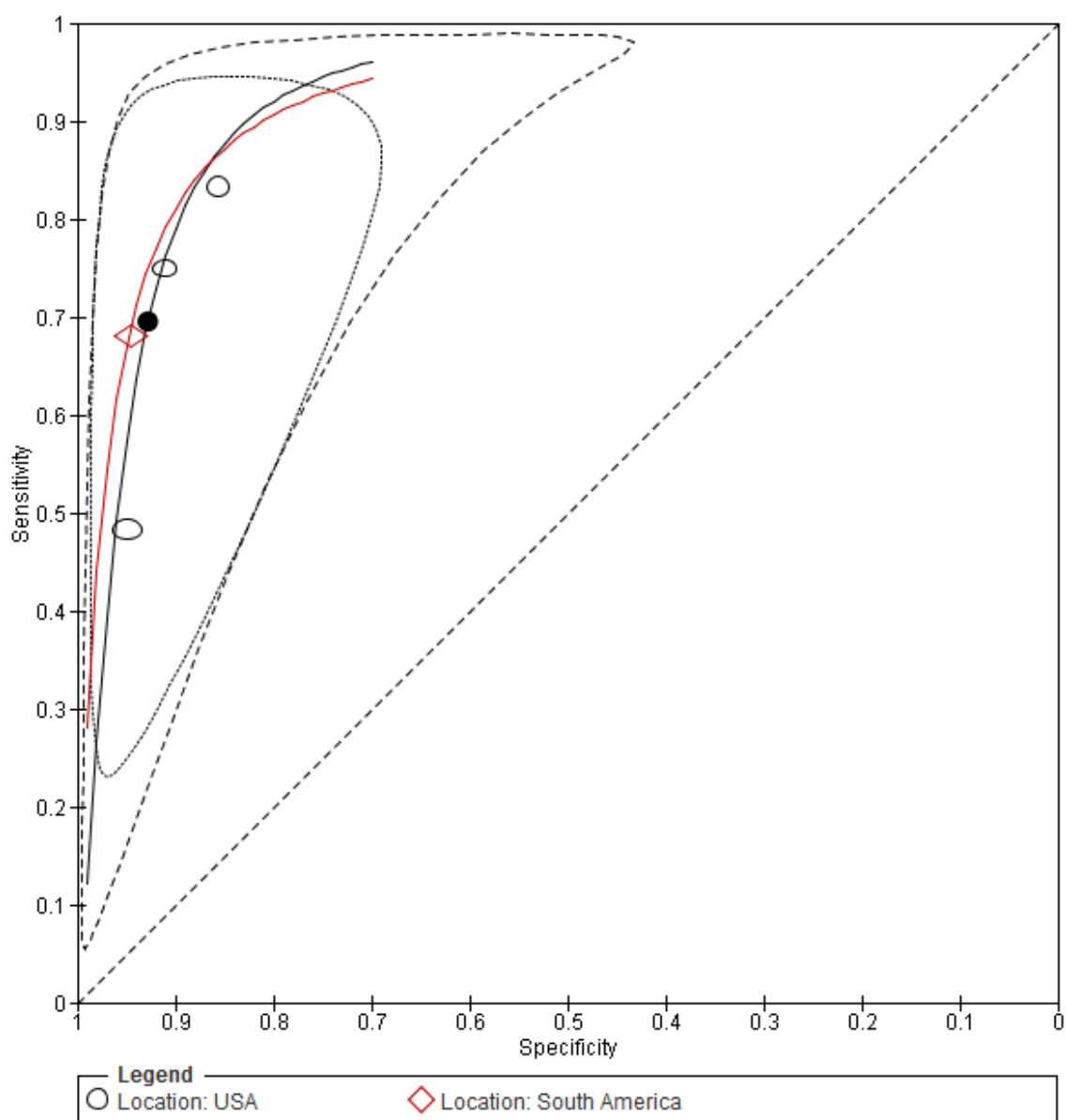
6

1 **Figure 28: Forest plot for EUS-FNA-based cytology to differentiate between**  
2 **(potentially) malignant and benign PCLs**



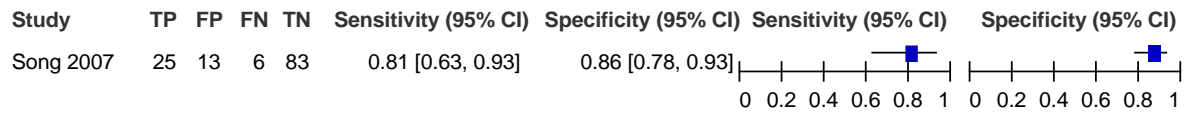
3

4 **Figure 29: Summary ROC curve for EUS-FNA-based cytology to differentiate between**  
5 **(potentially) malignant and benign PCLs**



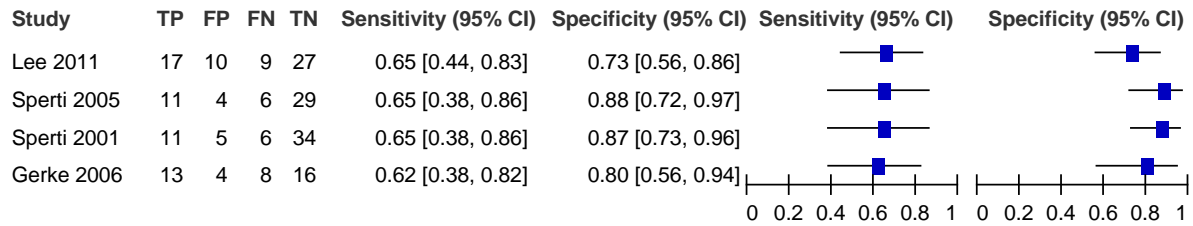
6

1 **Figure 30: Forest plot for CT to differentiate between benign from (potentially)**  
2 **malignant PCLs**



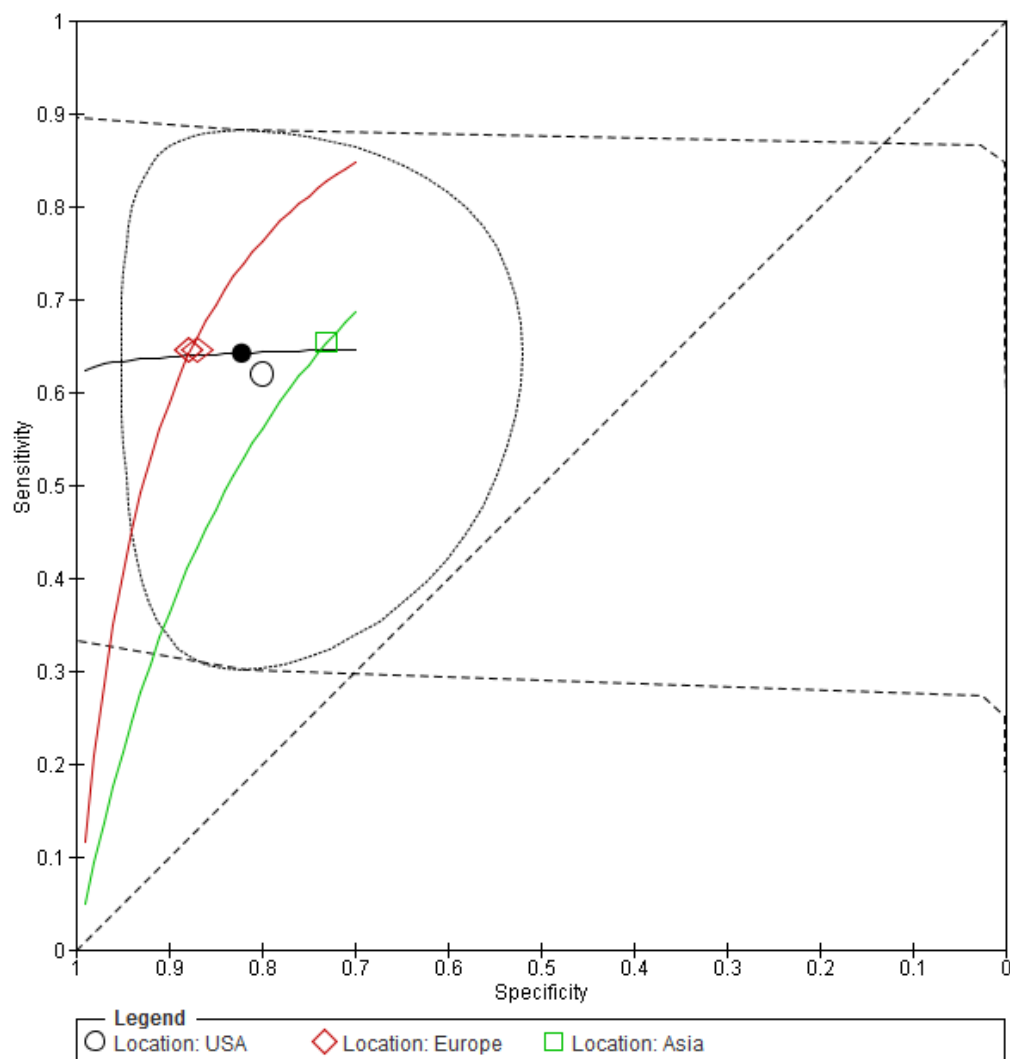
3

4 **Figure 31 Forest plot for CT to differentiate between benign from (potentially)**  
5 **malignant PCLs**



6

1 **Figure 32: Summary ROC curve for CT to differentiate between MCNs and NMCNs of pancreas**  
2



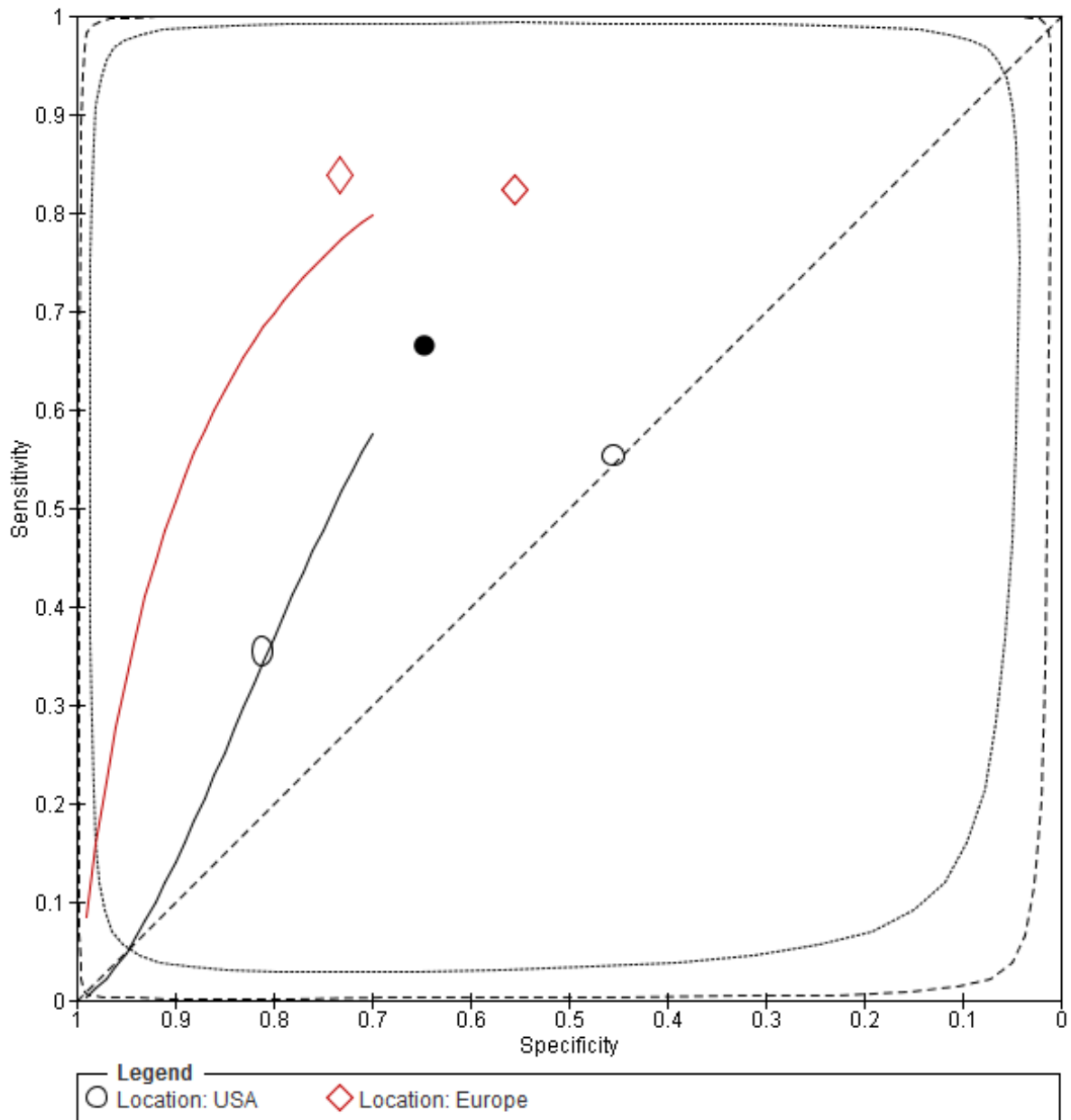
3

4 **Figure 33: Forest plot for EUS to differentiate between MCNs and NMCNs of pancreas**

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)	Sensitivity (95% CI)	Specificity (95% CI)
Oppong 2015	68	8	13	22	0.84 [0.74, 0.91]	0.73 [0.54, 0.88]		
Frossard 2003	33	12	7	15	0.82 [0.67, 0.93]	0.56 [0.35, 0.75]		
Brugge 2004	31	30	25	25	0.55 [0.41, 0.69]	0.45 [0.32, 0.59]		
Cizginer 2011	50	10	91	43	0.35 [0.28, 0.44]	0.81 [0.68, 0.91]		

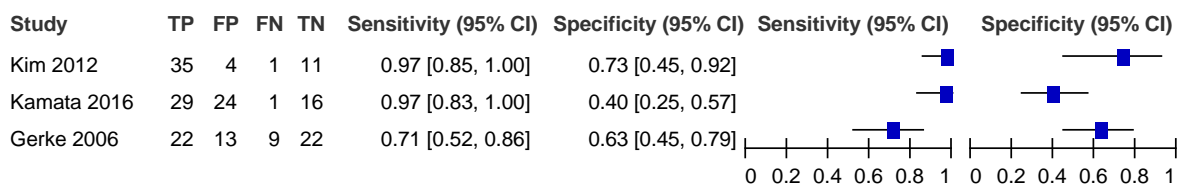
5

1 **Figure 34: Summary ROC curve for EUS to differentiate between MCNs and NMCNs of**  
2 **pancreas**



3

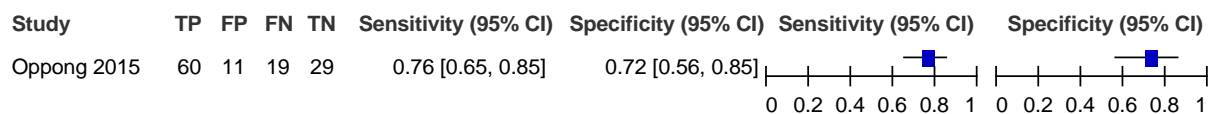
4 **Figure 35: Forest plot for EUS to differentiate between (potentially) malignant and**  
5 **benign PCLs**



6

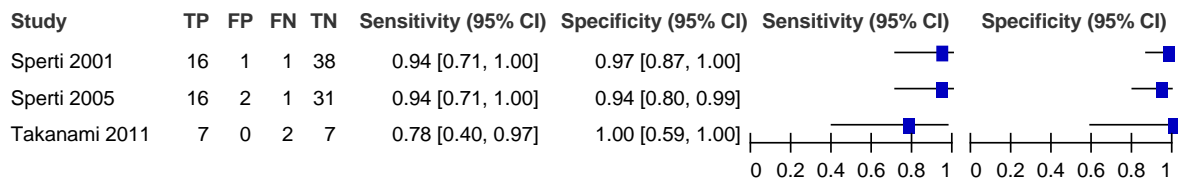


1 **Figure 36: Forest plot for EUS-FNA to differentiate between MCNs and NMCNs of**  
2 **pancreas**



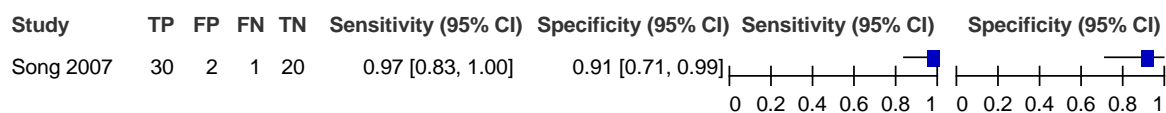
3

4 **Figure 37: Forest plot for F-18 PET/CT to differentiate between (potentially) malignant**  
5 **and benign PCLs**



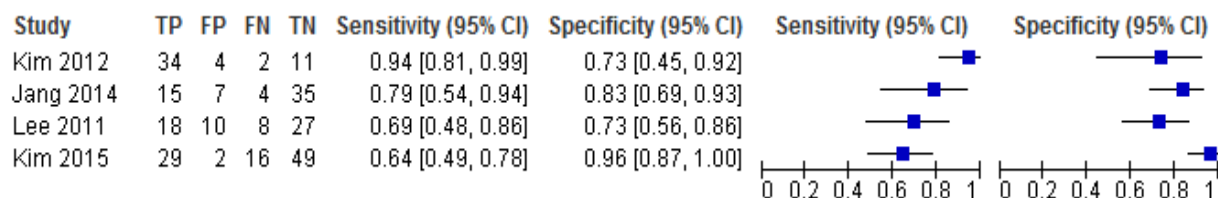
6

7 **Figure 38: Forest plot for MRI differentiating between MCNs and NMCNs of pancreas**



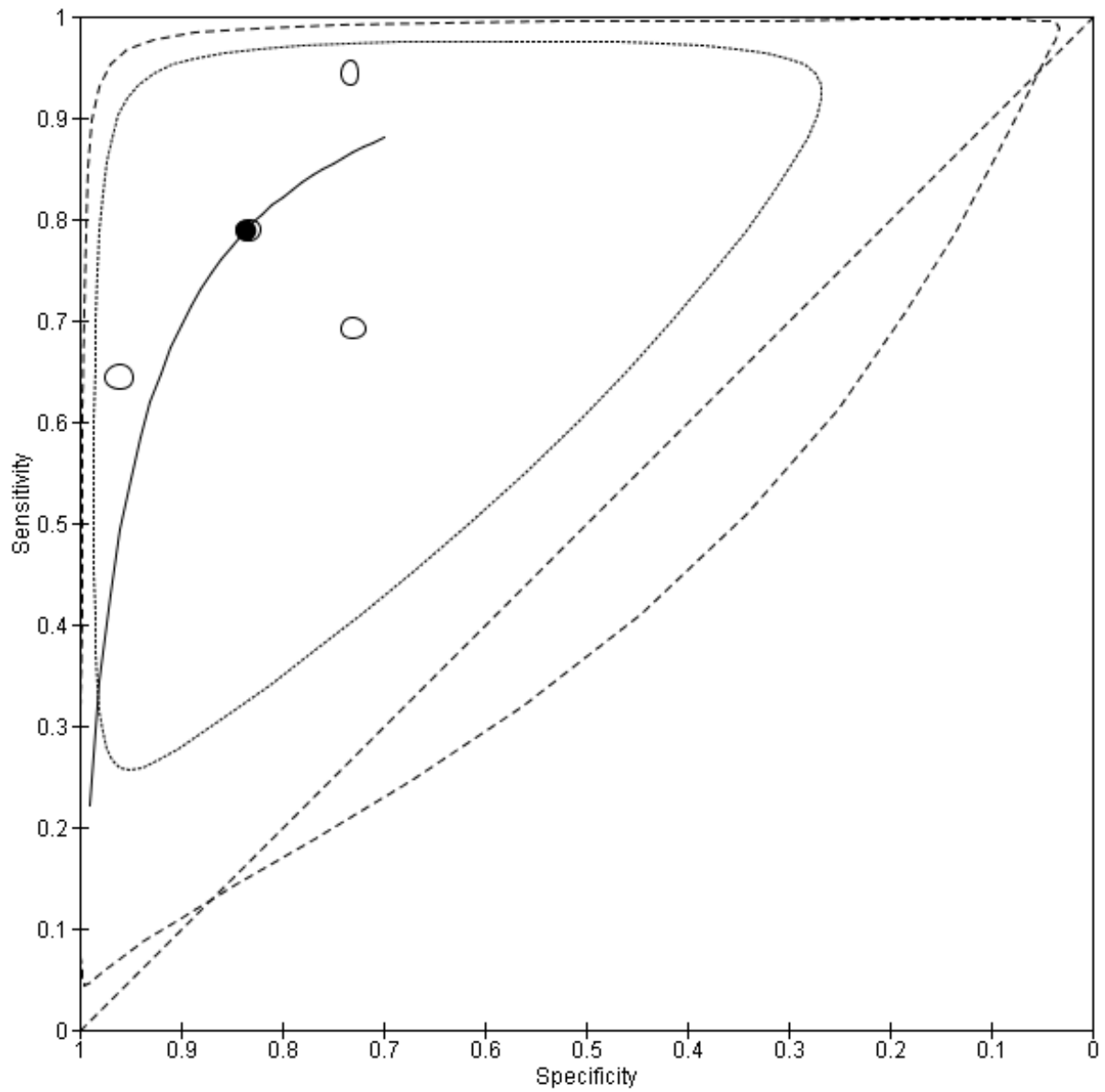
8

9 **Figure 39: Forest plot for MRI differentiating between (potentially) malignant and**  
10 **benign PCLs**



11

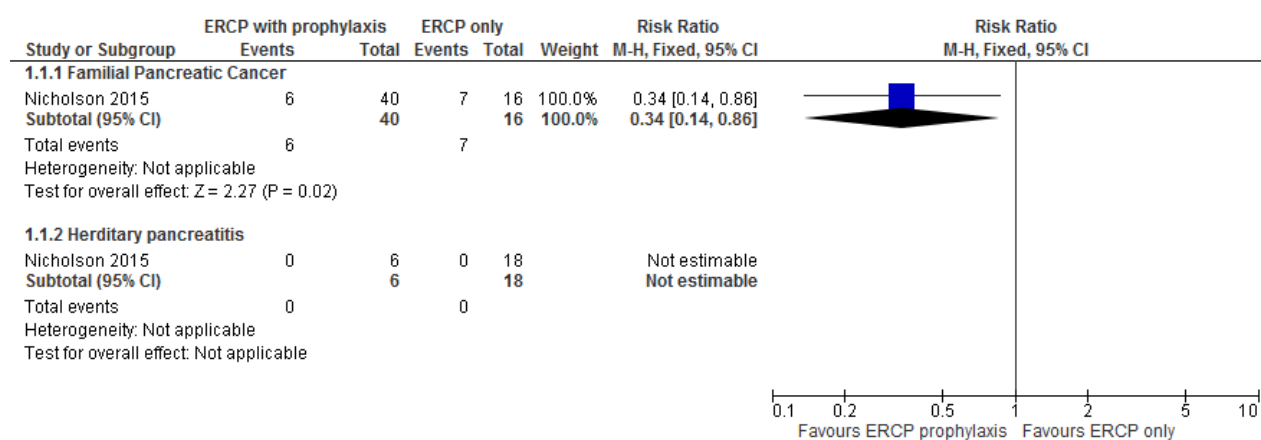
1 **Figure 40: Summary ROC curve for MRI to differentiate between (potentially)**  
2 **malignant and benign PCLs**



3

## H.4.1 People with inherited high risk of pancreatic cancer

### 2 Figure 41: # ERCP procedures with post-ERCP pancreatitis



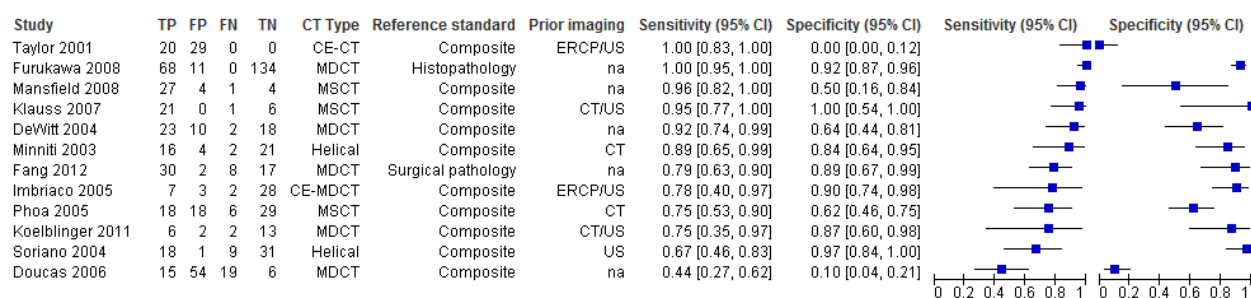
3

## H.5.4 Referral to specialist multidisciplinary teams

5 Not applicable for this review.

## H.6.6 Staging

### 7 Figure 42: CT for resectability - Forest plots

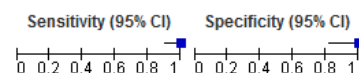


8

## 1 Figure 43: Other types of imaging for resectability - forest plots

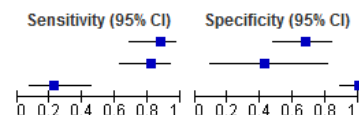
### CT-3D for resectability

Study	TP	FP	FN	TN	Reference standard	Prior imaging	Sensitivity (95% CI)	Specificity (95% CI)
Fang 2012	38	0	0	19	Surgical pathology	na	1.00 [0.91, 1.00]	1.00 [0.82, 1.00]



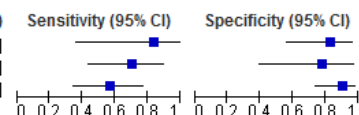
### EUS for resectability

Study	TP	FP	FN	TN	Reference standard	Prior imaging	Sensitivity (95% CI)	Specificity (95% CI)
DeWitt 2004	22	9	3	19	Composite	na	0.88 [0.69, 0.97]	0.68 [0.48, 0.84]
Mansfield 2008	23	4	5	3	Composite	na	0.82 [0.63, 0.94]	0.43 [0.10, 0.82]
Soriano 2004	5	0	17	30	Composite	US	0.23 [0.08, 0.45]	1.00 [0.88, 1.00]



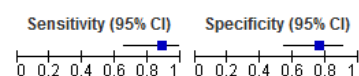
### MRI for resectability

Study	TP	FP	FN	TN	Reference standard	Prior imaging	Sensitivity (95% CI)	Specificity (95% CI)
Koelblinger 2011	5	3	1	14	Composite	CT/US	0.83 [0.36, 1.00]	0.82 [0.57, 0.96]
Fischer 2002	12	2	5	7	Surgical pathology	CT/US	0.71 [0.44, 0.90]	0.78 [0.40, 0.97]
Soriano 2004	13	3	10	27	Composite	US	0.57 [0.34, 0.77]	0.90 [0.73, 0.98]



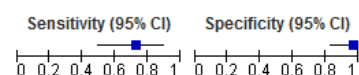
### Abdominal US for resectability

Study	TP	FP	FN	TN	Reference standard	Prior imaging	Sensitivity (95% CI)	Specificity (95% CI)
Minniti 2003	16	6	2	19	Composite	CT	0.89 [0.65, 0.99]	0.76 [0.55, 0.91]



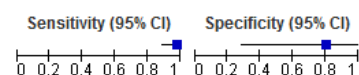
### CT+EUS (all)

Study	TP	FP	FN	TN	Reference standard	Prior imaging	Sensitivity (95% CI)	Specificity (95% CI)
Soriano 2004	16	1	6	29	Composite	US	0.73 [0.50, 0.89]	0.97 [0.83, 1.00]



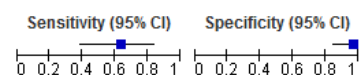
### CT + EUS if CT-resectable

Study	TP	FP	FN	TN	Reference standard	Prior imaging	Sensitivity (95% CI)	Specificity (95% CI)
Soriano 2004	46	1	1	4	Composite	US	0.98 [0.89, 1.00]	0.80 [0.28, 0.99]



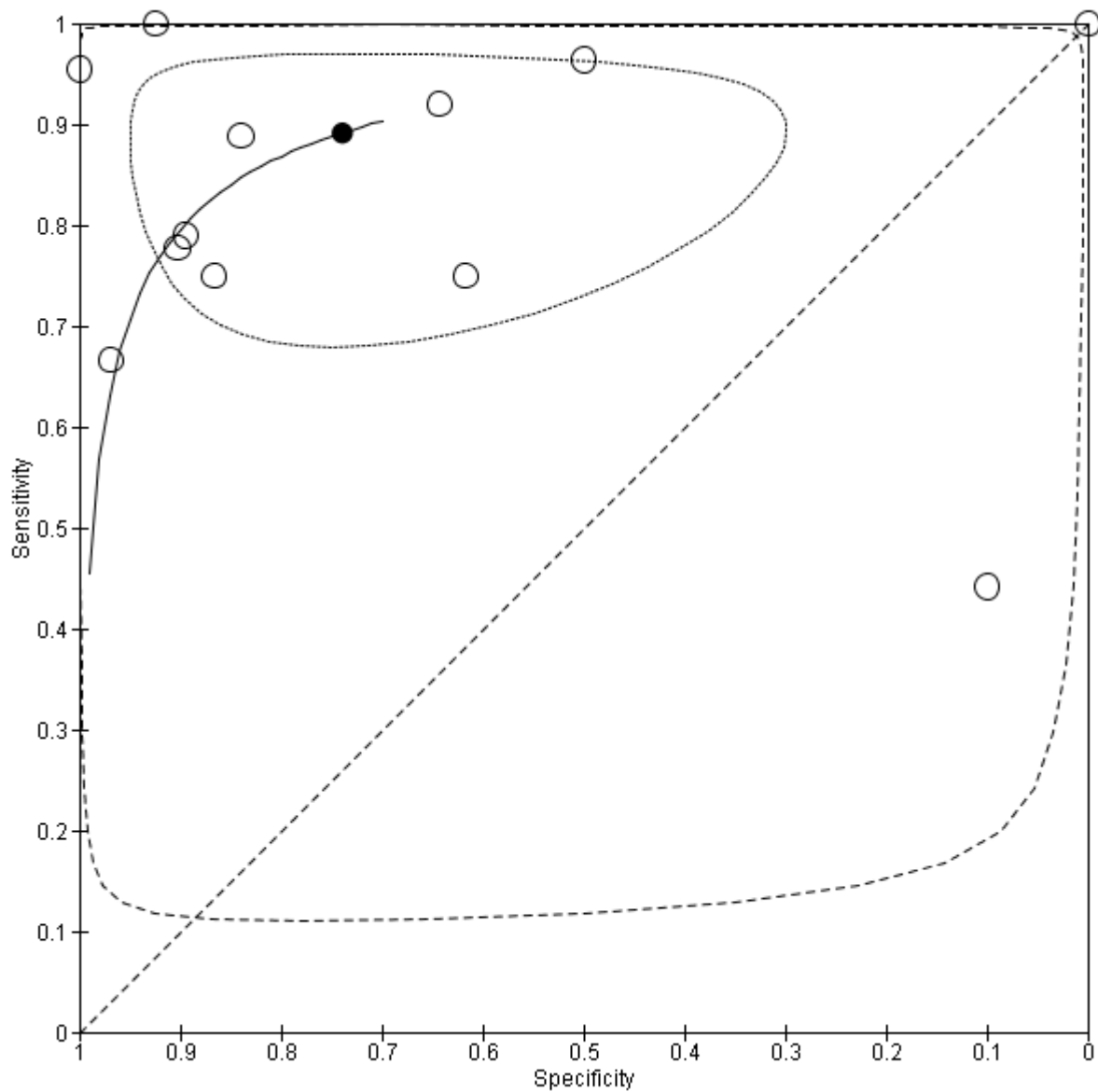
### EUS+CT if EUS-resectable

Study	TP	FP	FN	TN	Reference standard	Prior imaging	Sensitivity (95% CI)	Specificity (95% CI)
Soriano 2004	12	1	7	32	Composite	US	0.63 [0.38, 0.84]	0.97 [0.84, 1.00]



2

1 **Figure 44: CT for Resectability - Summary ROC curve**



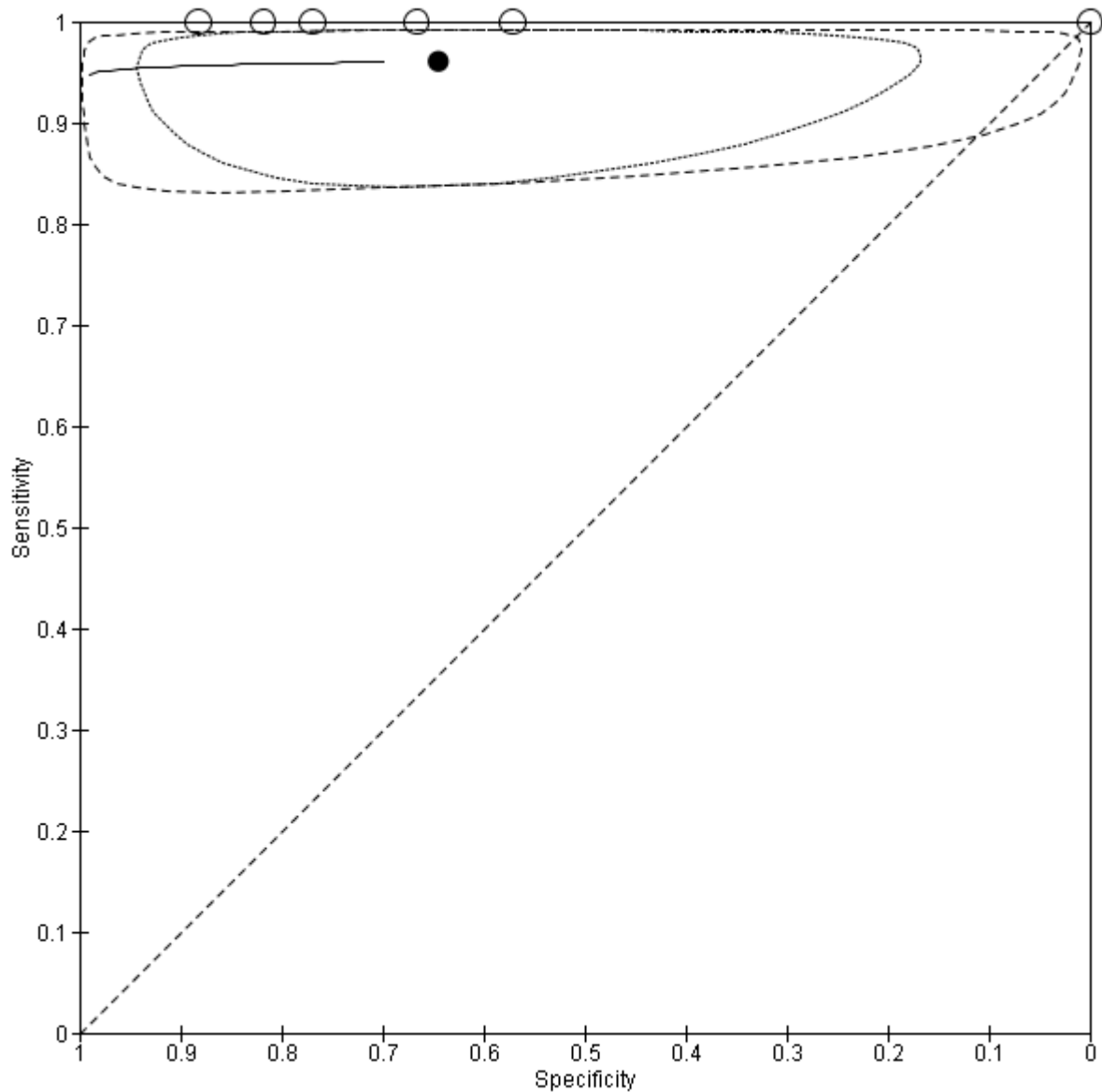
2

3 **Figure 45: Laparoscopy with laparoscopic ultrasonography for resectability in**  
4 **patients with potentially resectable pancreatic cancer – forest plots**

Study	TP	FP	FN	TN	US Type	Reference standard	Prior imaging	Sensitivity (95% CI)	Specificity (95% CI)	Sensitivity (95% CI)	Specificity (95% CI)
Shah 2008	6	2	0	9	Routine	Surgical pathology	CT	1.00 [0.54, 1.00]	0.82 [0.48, 0.98]		
Taylor 2001	20	2	0	4	Doppler	Composite	CT	1.00 [0.83, 1.00]	0.67 [0.22, 0.96]		
Kwon 2002	39	3	0	10	Doppler	Composite	US/CT/ERCP/EUS	1.00 [0.91, 1.00]	0.77 [0.46, 0.95]		
Schacter 2000	33	4	0	30	Doppler	Laparotomy	US/CT/ERCP/EUS	1.00 [0.89, 1.00]	0.88 [0.73, 0.97]		
Doucas 2006	15	21	0	28	Routine	Surgical pathology	CT	1.00 [0.78, 1.00]	0.57 [0.42, 0.71]		
Fristrup 2006	38	14	0	0	Routine	Composite	CT/US	1.00 [0.91, 1.00]	0.00 [0.00, 0.23]		

5

1 **Figure 46: Laparoscopy with laparoscopic ultrasonography for resectability in patients with potentially resectable pancreatic cancer – summary ROC curve**  
2



3

4 **Figure 47: CT for N Staging – forest plots**

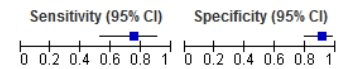
Study	TP	FP	FN	TN	CT Type	Reference standard	Prior imaging	Sensitivity (95% CI)	Specificity (95% CI)	Sensitivity (95% CI)	Specificity (95% CI)
Klek 2004	10	3	3	54	Helical	Histopathology	na	0.77 [0.46, 0.95]	0.95 [0.85, 0.99]		
Mansfield 2008	2	0	3	26	MSCT	Composite	na	0.40 [0.05, 0.85]	1.00 [0.87, 1.00]		
Soriano 2004	9	7	15	27	Helical	Composite	US	0.38 [0.19, 0.59]	0.79 [0.62, 0.91]		
Furukawa 2008	12	3	26	27	MDCT	Histopathology	na	0.32 [0.18, 0.49]	0.90 [0.73, 0.98]		
DeWitt 2004	9	11	23	12	MDCT	Composite	na	0.28 [0.14, 0.47]	0.52 [0.31, 0.73]		
Lemke 2004	8	4	23	12	MSCT	Composite	na	0.26 [0.12, 0.45]	0.75 [0.48, 0.93]		

5

## 1 Figure 48: N Staging for other types of imaging - Forest plots

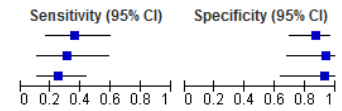
### Abdominal US for N Staging

Study	TP	FP	FN	TN	Reference standard	Prior imaging	Sensitivity (95% CI)	Specificity (95% CI)
Klek 2004	18	4	6	42	Histopathology	na	0.75 [0.53, 0.90]	0.91 [0.79, 0.98]



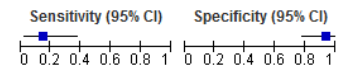
### EUS for N staging

Study	TP	FP	FN	TN	Reference standard	Prior imaging	Sensitivity (95% CI)	Specificity (95% CI)
Soriano 2004	8	4	14	26	Composite	US	0.36 [0.17, 0.59]	0.87 [0.69, 0.96]
Mansfield 2008	5	1	11	14	Composite	na	0.31 [0.11, 0.59]	0.93 [0.68, 1.00]
DeWitt 2004	8	1	24	12	Composite	na	0.25 [0.11, 0.43]	0.92 [0.64, 1.00]



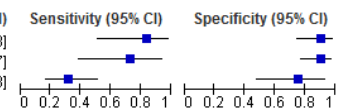
### MRI for N staging

Study	TP	FP	FN	TN	Reference standard	Prior imaging	Sensitivity (95% CI)	Specificity (95% CI)
Soriano 2004	3	2	17	28	Composite	US	0.15 [0.03, 0.38]	0.93 [0.78, 0.99]



### PET/CT for N staging

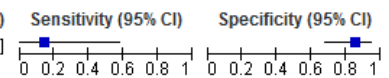
Study	TP	FP	FN	TN	Reference standard	Prior imaging	Sensitivity (95% CI)	Specificity (95% CI)
Yoneyama 2014 CE Group	10	3	2	28	Composite	na	0.83 [0.52, 0.98]	0.90 [0.74, 0.98]
Yoneyama 2014 non-CE Group	8	4	3	37	Surgical pathology	na	0.73 [0.39, 0.94]	0.90 [0.77, 0.97]
Lemke 2004	10	4	21	12	Composite	na	0.32 [0.17, 0.51]	0.75 [0.48, 0.93]



2

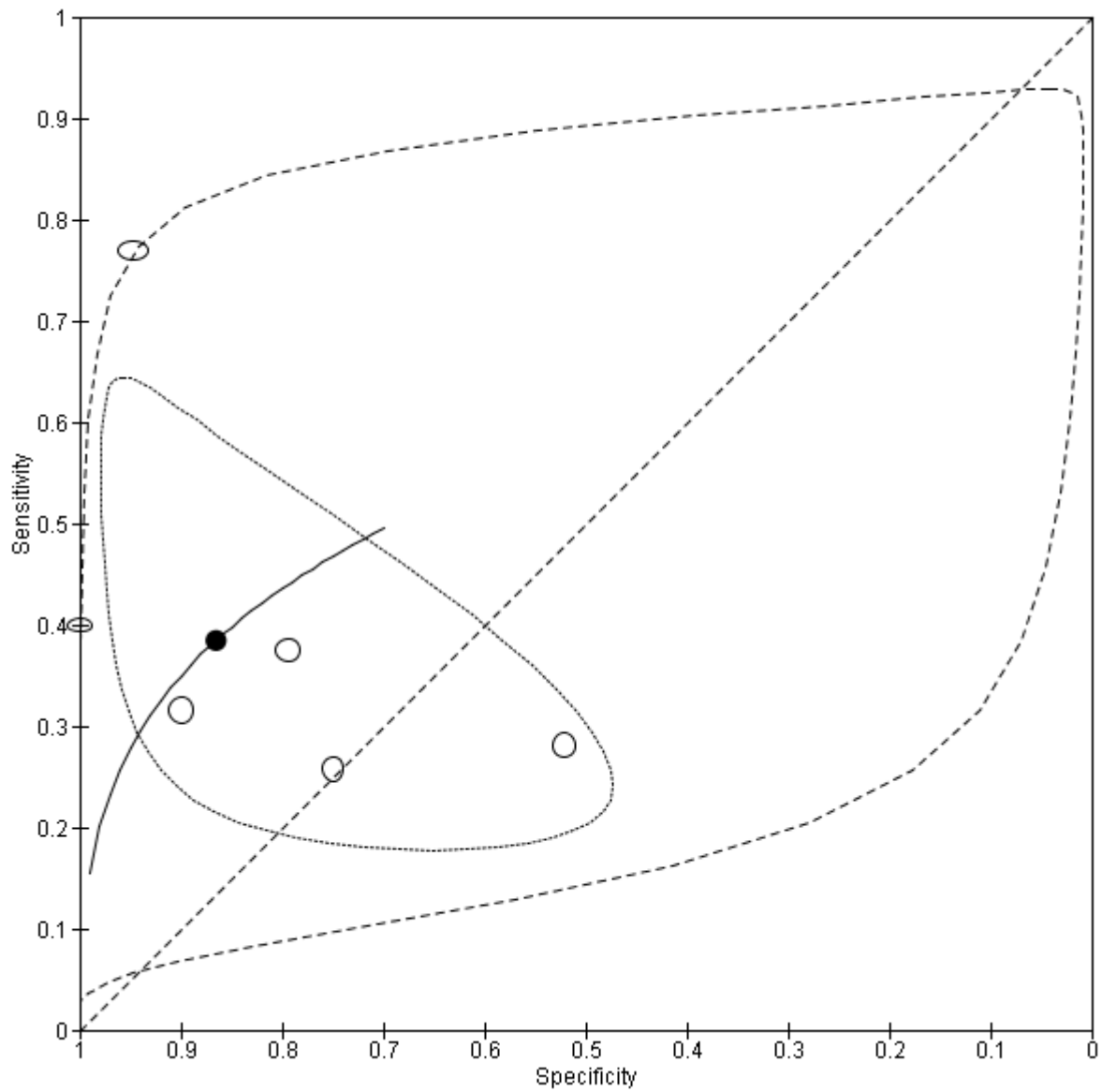
## 3 Figure 49: N Staging by number of lymph nodes - forest plot

Study	TP	FP	FN	TN	Reference standard	Prior test	Sensitivity (95% CI)	Specificity (95% CI)
Roche 2003	1	5	6	28	Histopathology	No	0.14 [0.00, 0.58]	0.85 [0.68, 0.95]



4

### 1 Figure 50: CT for N Staging - Summary ROC curve



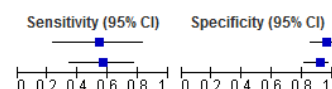
2



## 1 Figure 51: M Staging - Forest plots

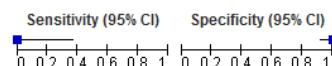
### CT for M staging

Study	TP	FP	FN	TN	Reference standard	Prior imaging	Sensitivity (95% CI)	Specificity (95% CI)
Soriano 2004	6	2	5	46	Composite	US	0.55 [0.23, 0.83]	0.96 [0.86, 0.99]
Farna 2008	13	5	10	54	Composite	na	0.57 [0.34, 0.77]	0.92 [0.81, 0.97]



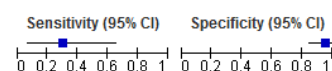
### EUS for M staging

Study	TP	FP	FN	TN	Reference standard	Prior imaging	Sensitivity (95% CI)	Specificity (95% CI)
Soriano 2004	0	0	8	44	Composite	US	0.00 [0.00, 0.37]	1.00 [0.92, 1.00]



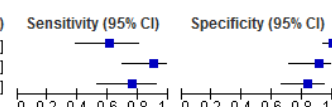
### MRI for M staging

Study	TP	FP	FN	TN	Reference standard	Prior imaging	Sensitivity (95% CI)	Specificity (95% CI)
Soriano 2004	3	2	7	41	Composite	US	0.30 [0.07, 0.65]	0.95 [0.84, 0.99]



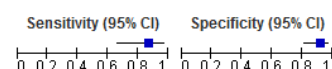
### PET/CT for M Staging

Study	TP	FP	FN	TN	Reference standard	Prior imaging	Sensitivity (95% CI)	Specificity (95% CI)
Farna 2008	14	0	9	59	Composite	na	0.61 [0.39, 0.80]	1.00 [0.94, 1.00]
Yoneyama 2014 CE Group	19	2	2	20	Composite	na	0.90 [0.70, 0.99]	0.91 [0.71, 0.99]
Yoneyama 2014 non-CE Group	16	5	5	26	Surgical pathology	na	0.76 [0.53, 0.92]	0.84 [0.66, 0.95]



### CT + PET/CT for M Staging

Study	TP	FP	FN	TN	Reference standard	Prior imaging	Sensitivity (95% CI)	Specificity (95% CI)
Farna 2008	20	5	3	54	Composite	na	0.87 [0.66, 0.97]	0.92 [0.81, 0.97]

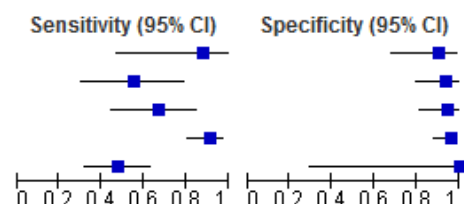


2

## 3 Figure 52: Vascular invasion - forest plots

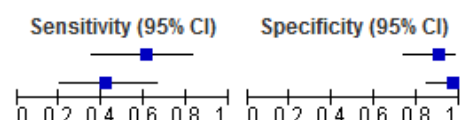
### CT for vascular invasion

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)
Klauss 2007	7	2	1	18	0.88 [0.47, 1.00]	0.90 [0.68, 0.99]
Tellez-Avila 2012	10	2	8	30	0.56 [0.31, 0.78]	0.94 [0.79, 0.99]
Soriano 2004	16	2	8	33	0.67 [0.45, 0.84]	0.94 [0.81, 0.99]
Klek 2004	51	3	5	67	0.91 [0.80, 0.97]	0.96 [0.88, 0.99]
Lemke 2004	21	0	23	3	0.48 [0.32, 0.63]	1.00 [0.29, 1.00]



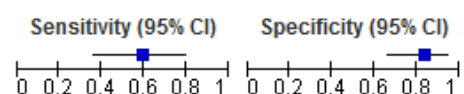
### EUS for vascular invasion

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)
Tellez-Avila 2012	11	3	7	27	0.61 [0.36, 0.83]	0.90 [0.73, 0.98]
Soriano 2004	8	1	11	32	0.42 [0.20, 0.67]	0.97 [0.84, 1.00]



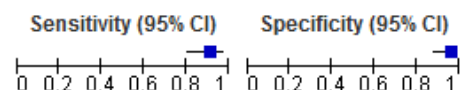
### MRI for vascular invasion

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)
Soriano 2004	13	5	9	26	0.59 [0.36, 0.79]	0.84 [0.66, 0.95]



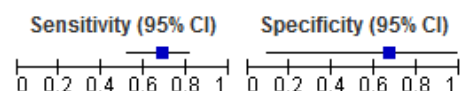
### Abdominal US for vascular invasion

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)
Klek 2004	50	3	5	68	0.91 [0.80, 0.97]	0.96 [0.88, 0.99]



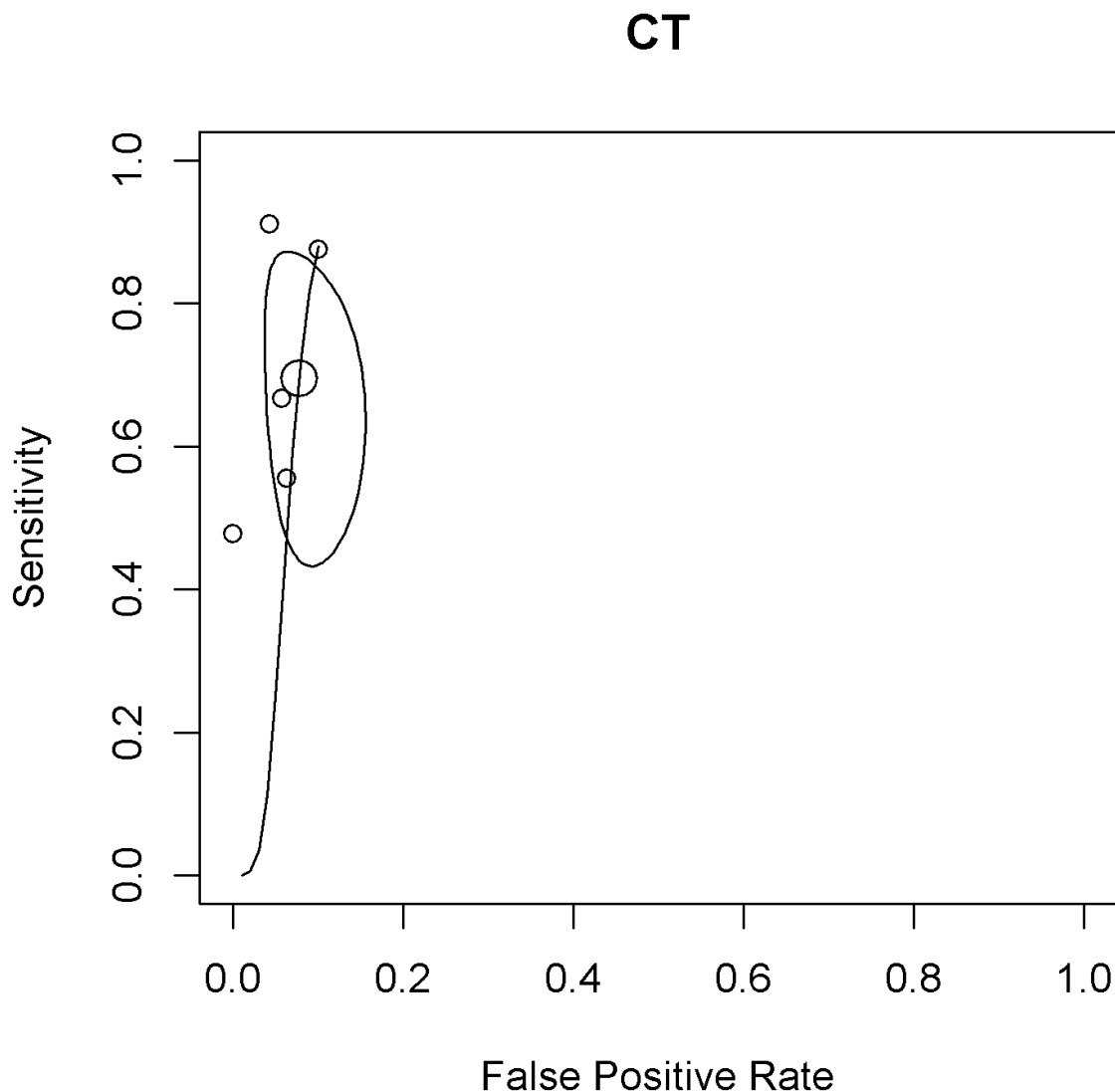
### PET/CT for vascular invasion

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)
Lemke 2004	30	1	14	2	0.68 [0.52, 0.81]	0.67 [0.09, 0.99]



4

1 **Figure 53: CT for vascular invasion - Summary ROC curve**



2

3 **Figure 54: CA 19-9 for improving staging laparoscopy – forest plots**

Study	TP	FP	FN	TN	CA 19-9 level	Reference standard	Prior imaging	Sensitivity (95% CI)	Specificity (95% CI)	Sensitivity (95% CI)	Specificity (95% CI)
Maithel 2008	105	13	106	38	less than/= $\leq$ 130 kU/l	Laparoscopy	CT/MRI	0.50 [0.43, 0.57]	0.75 [0.60, 0.86]		
Connor 2005	60	3	75	21	less than/= $\leq$ 150 kU/l	Surgical pathology	CT	0.44 [0.36, 0.53]	0.88 [0.68, 0.97]		

4

5

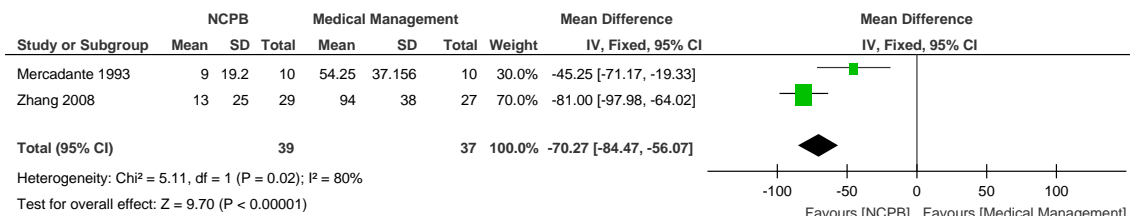
## H.7.6 Psychological support needs

7 Not applicable for this review.

## H.8<sub>1</sub> Pain

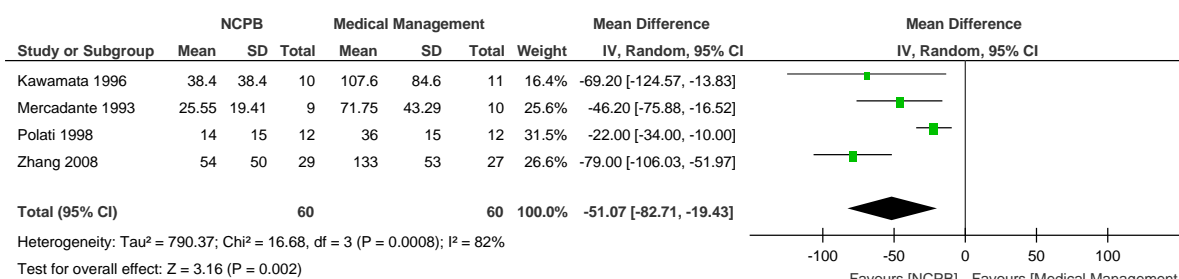
### H.8.12 NCPB versus medical management alone

#### 3 Figure 55: Opioid use at 2 weeks



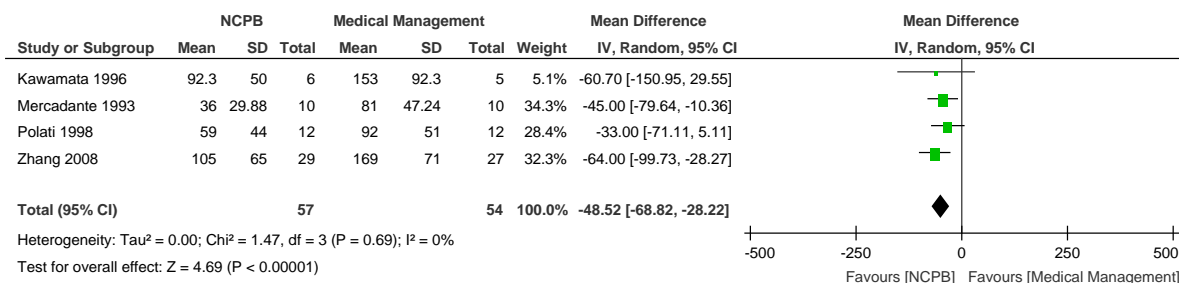
4

#### 5 Figure 56: Opioid use at 4 weeks



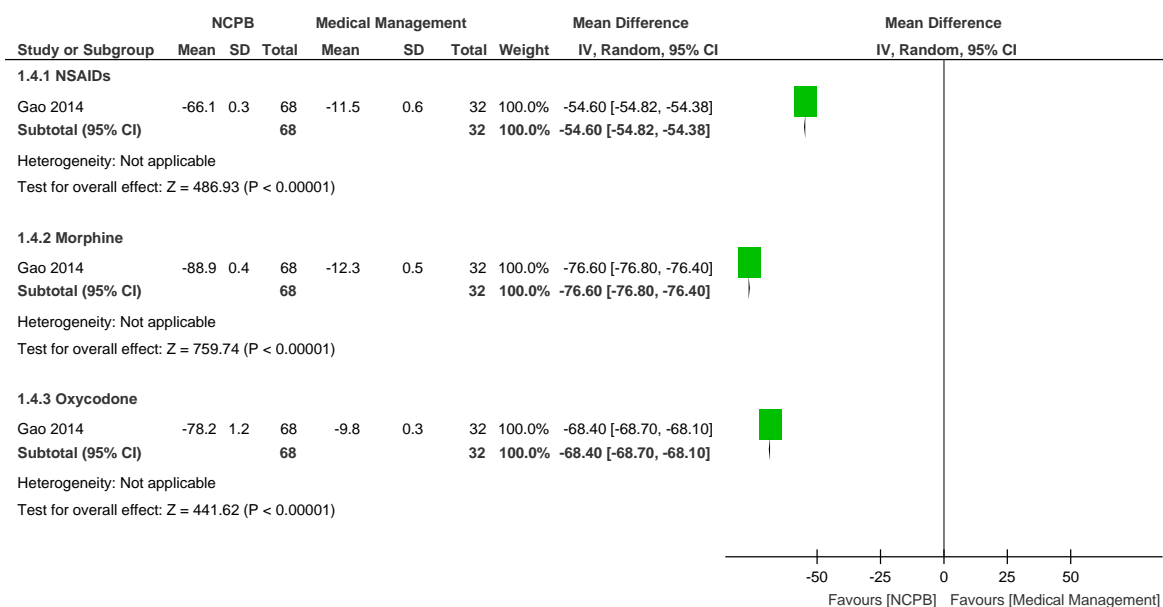
6

#### 7 Figure 57: Opioid use the day before to death



8

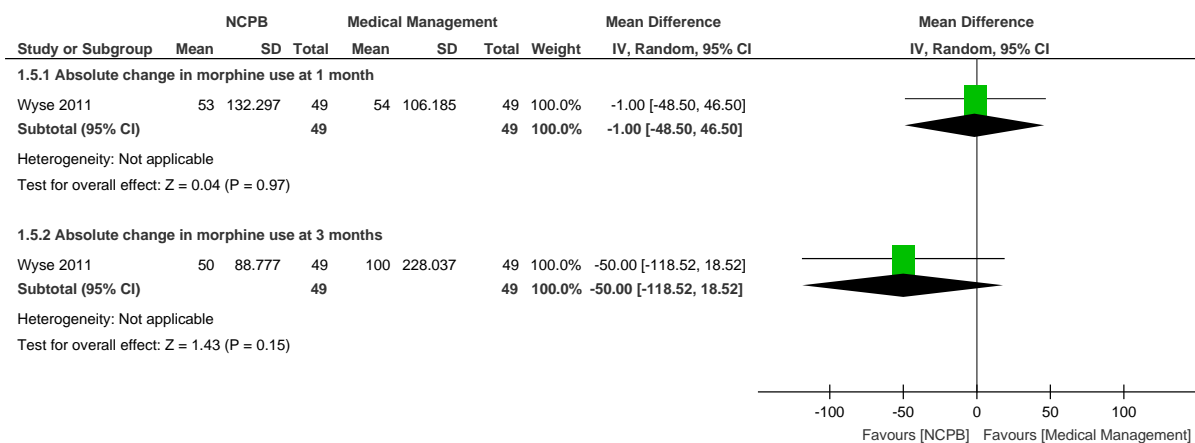
### 1 Figure 58: Percentage change in analgesic medications use and 3 months



2

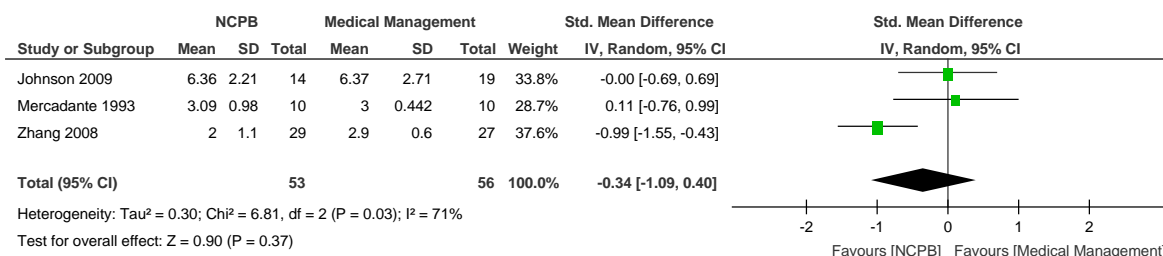
### 3 Figure 59: Reduction in opioid medication: Absolute change in morphine use at 1 and 3 months

4



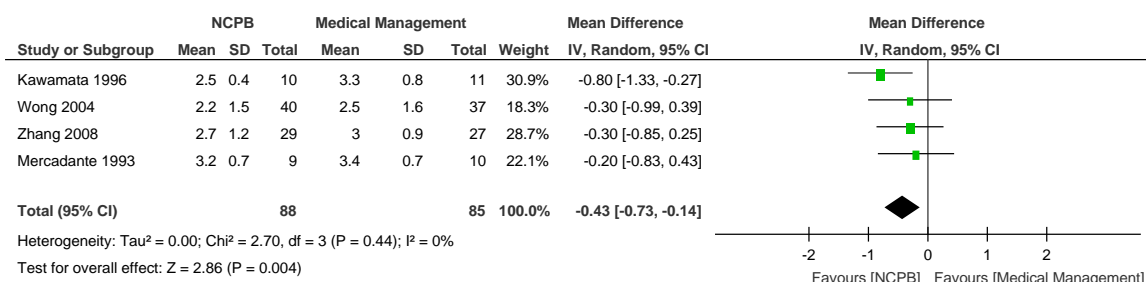
5

### 6 Figure 60: Pain scores at 2 weeks



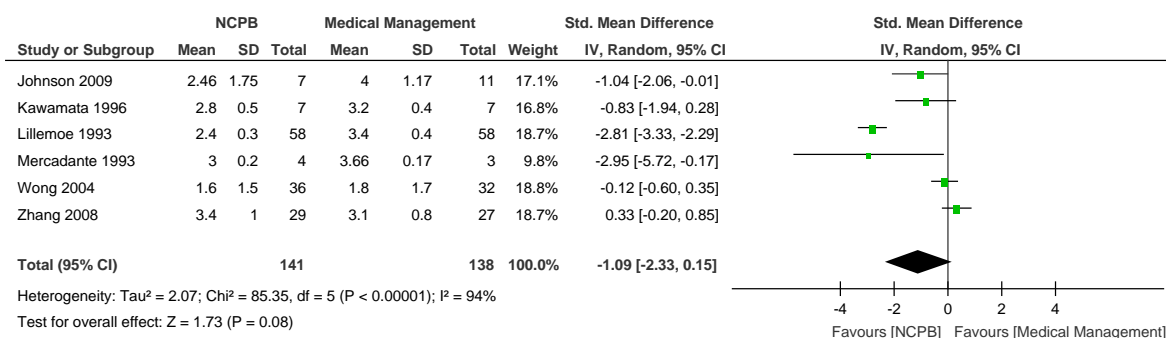
7

## 1 Figure 61: Pain scores at 4 weeks



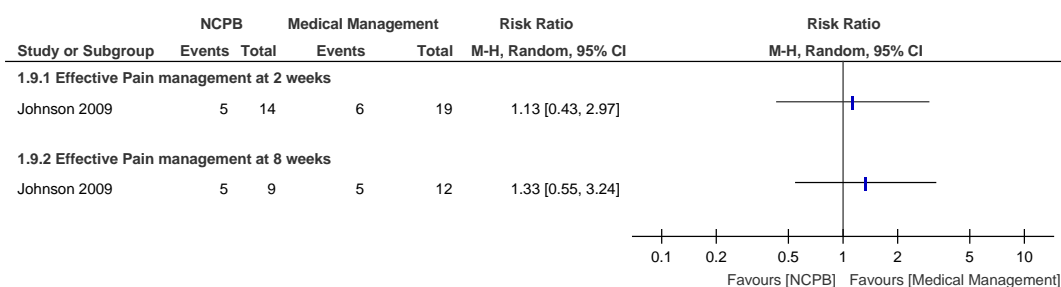
2

## 3 Figure 62: Pain scores at 8 weeks



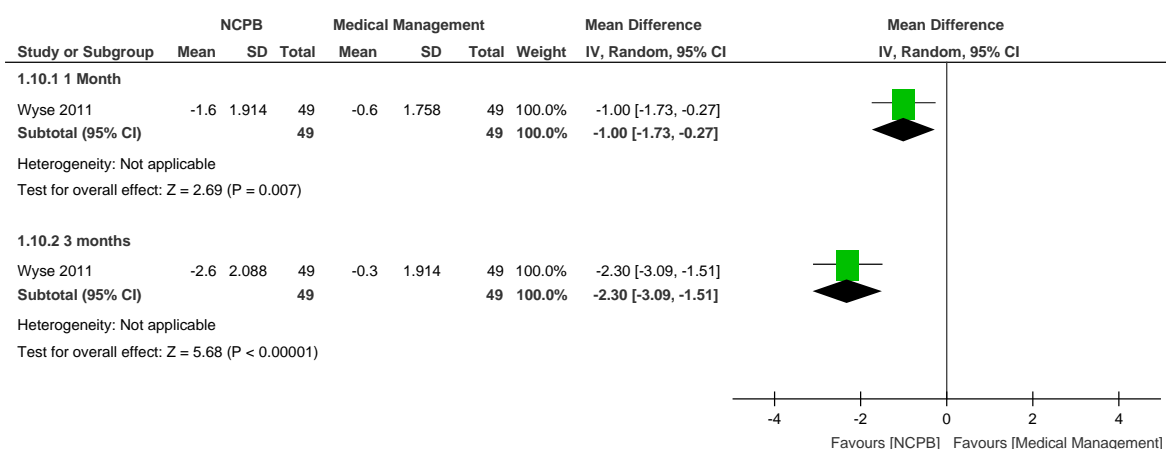
4

## 5 Figure 63: Patients reporting effective pain management at 2 and 8 weeks



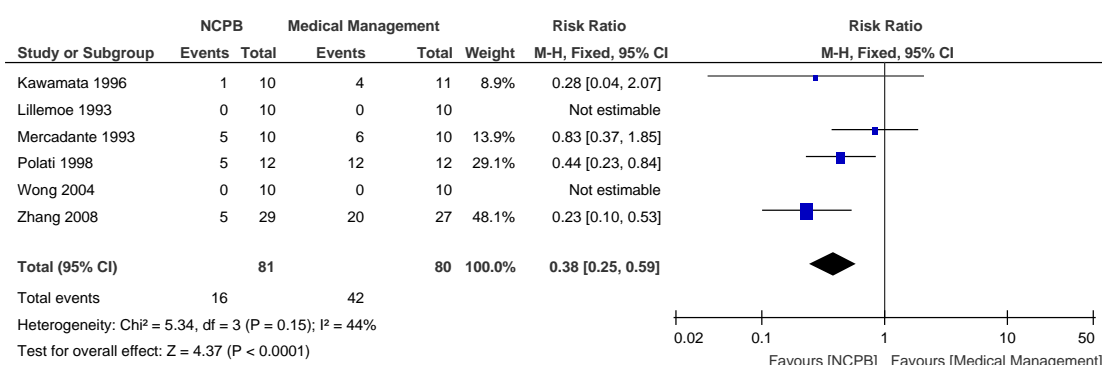
6

## 7 Figure 64: Absolute Change in Pain score at 1 and 3 months



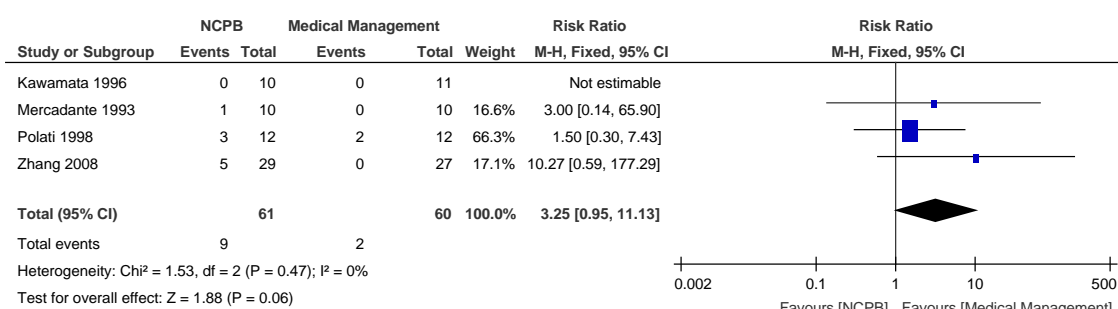
8

## 1 Figure 65: Adverse effects – constipation



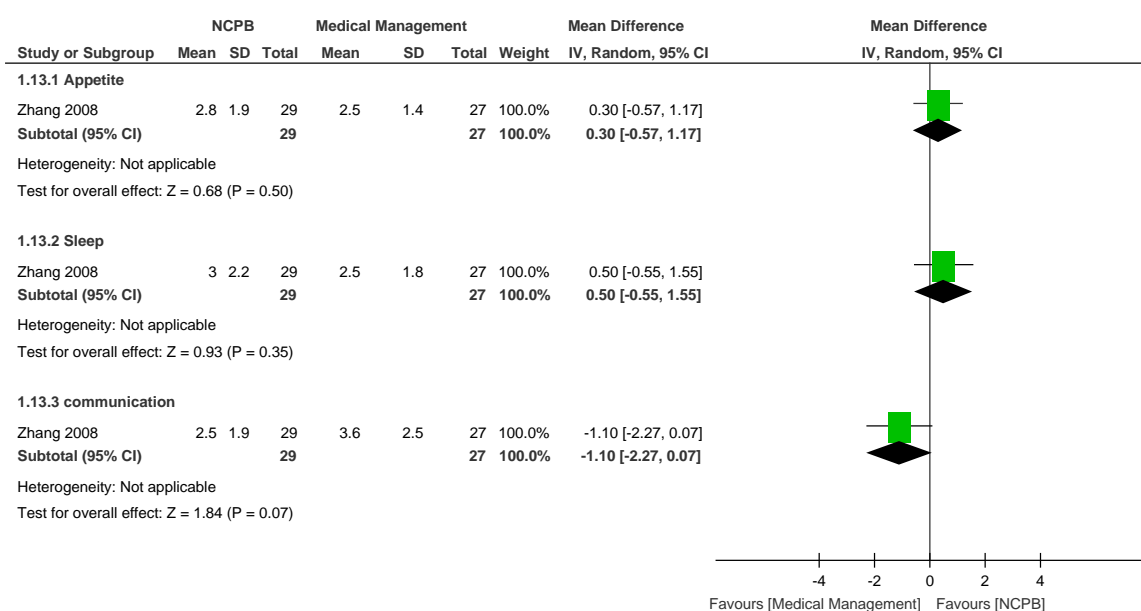
2

## 3 Figure 66: Adverse effects: diarrhoea



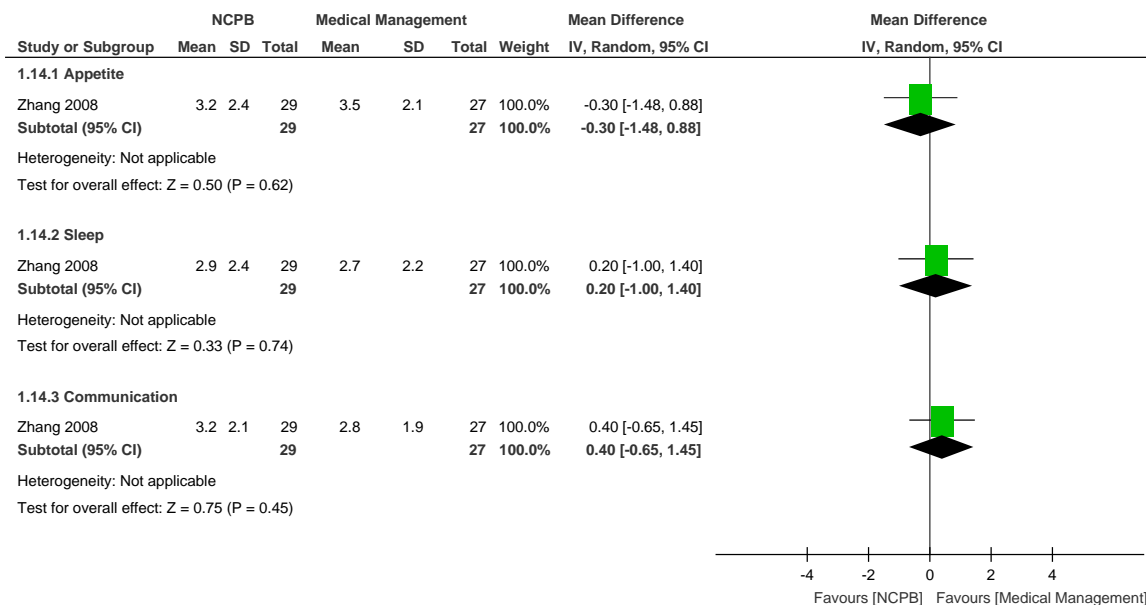
4

## 5 Figure 67: QOL scores (as interference with appetite, sleep, communication) at 1 month



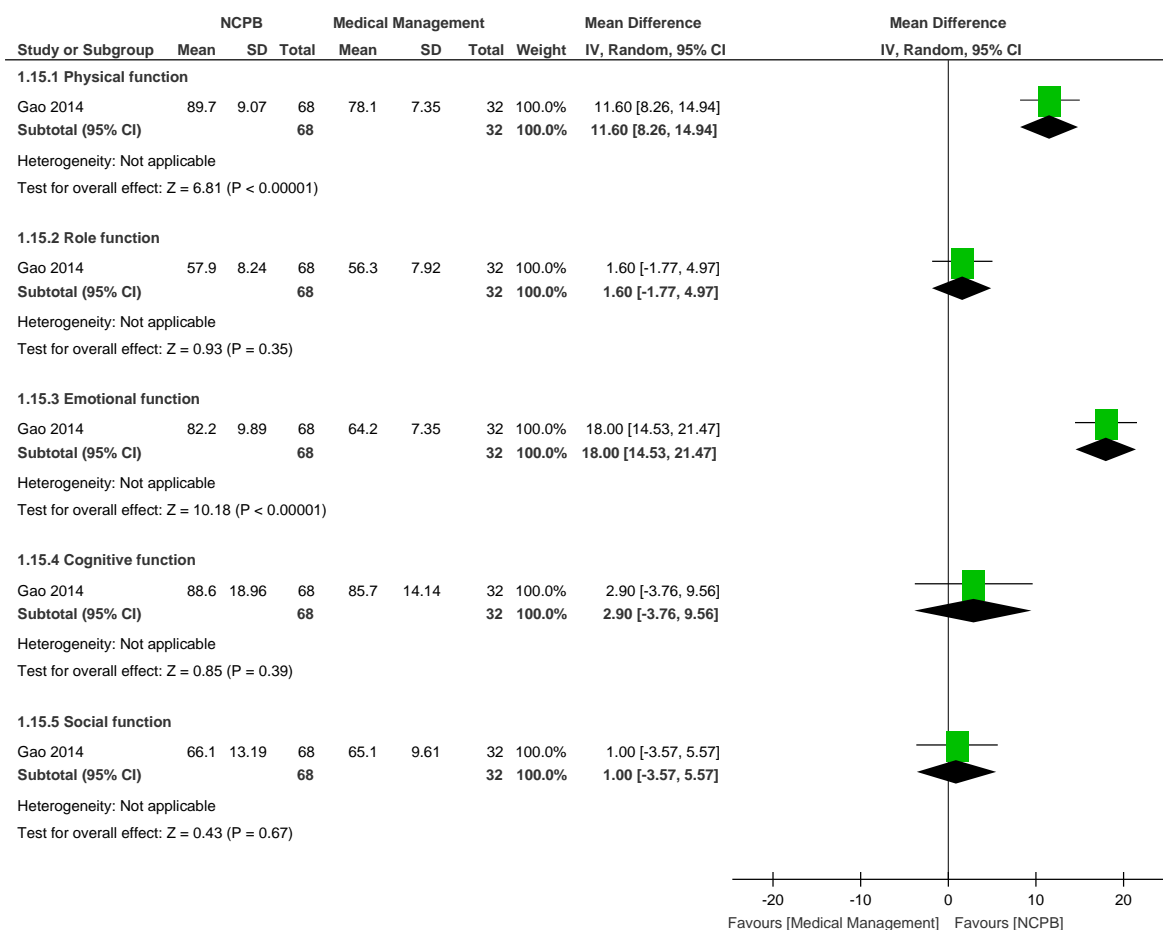
7

1 **Figure 68: QOL scores (as interference with appetite, sleep, communication) 3**  
2 **months**



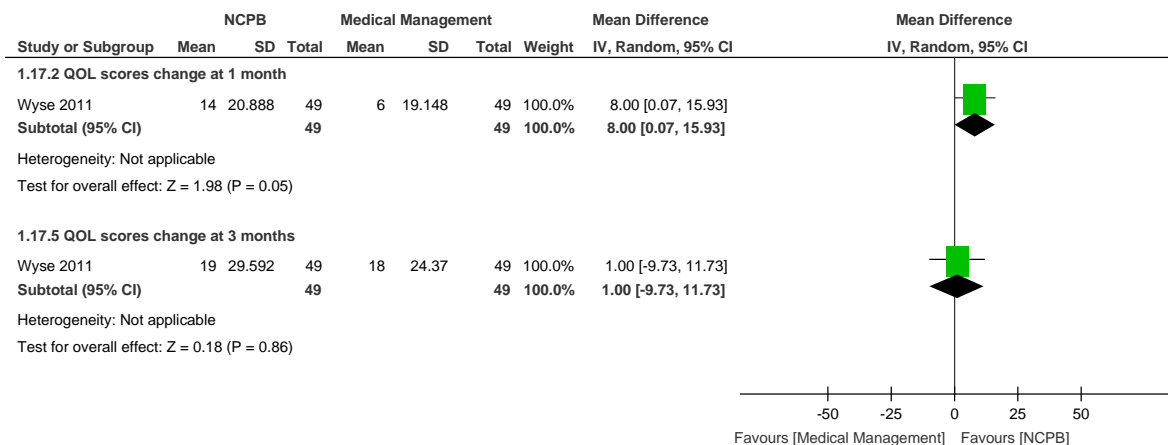
3

4 **Figure 69: QOL scores (Functional scales: physical; role; emotional; cognitive and**  
5 **social) at 3 months**



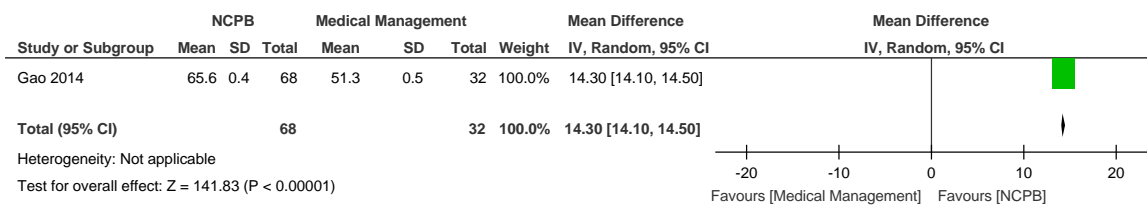
6

1 **Figure 70: QOL scores - Digestive Disease questionnaire-15: Percentage change at 1 and 3 months**



3

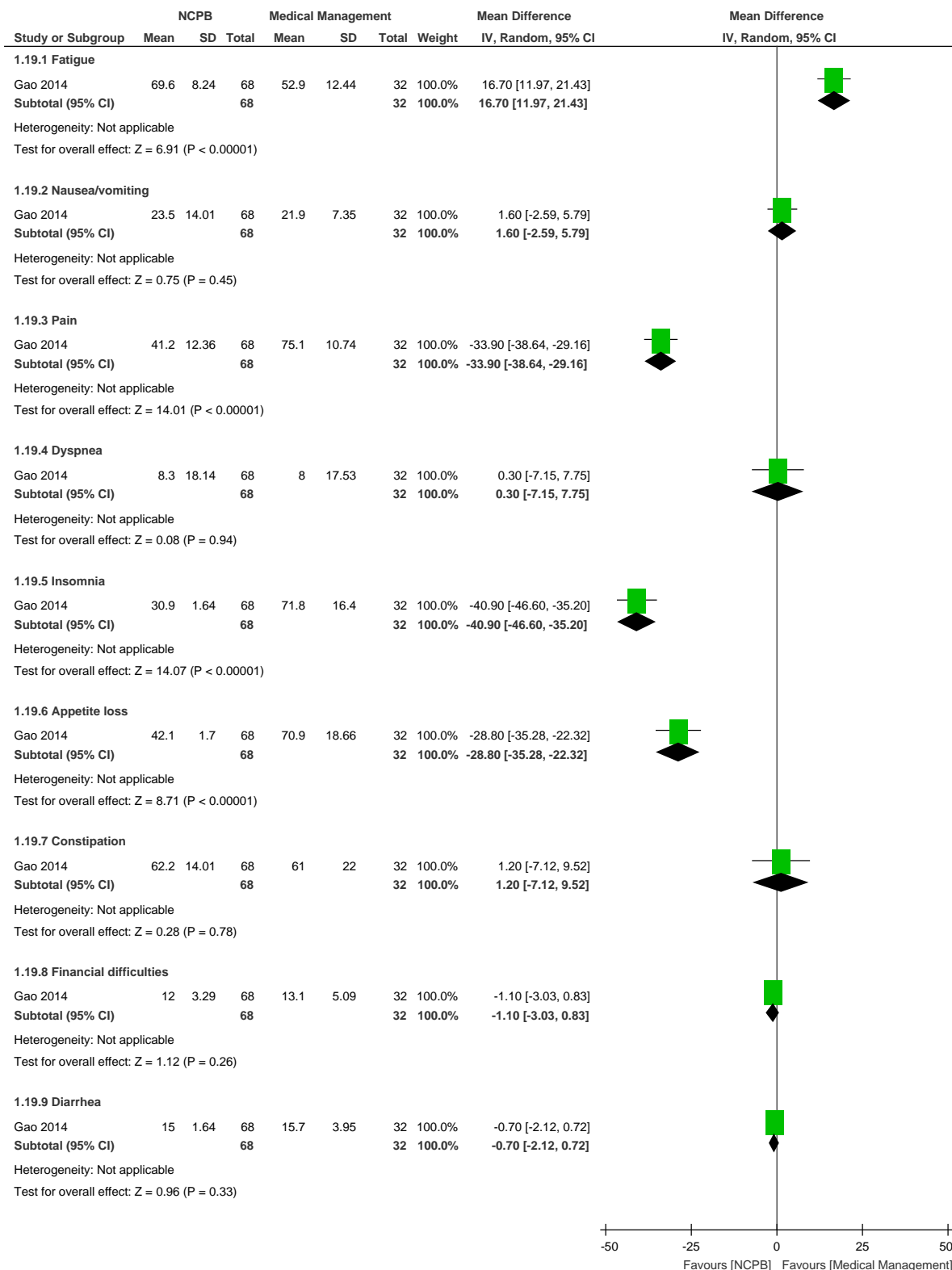
4 **Figure 71: QOL scores – Global quality of life at 3 month**



5

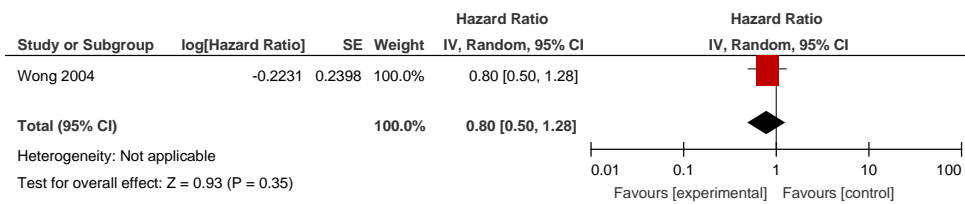


**1 Figure 72: QOL scores – Symptom (Fatigue; Nausea/vomiting; Pain; Dyspnea;  
2 Insomnia; Appetite loss; Constipation and financial difficulties) at 3 months**



3

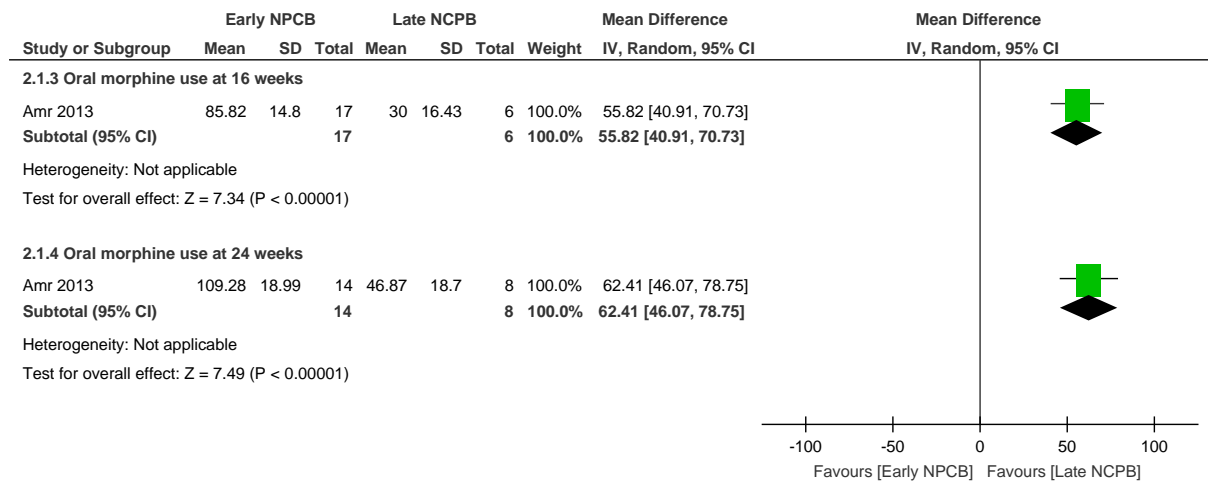
1 **Figure 73: Overall survival**



2

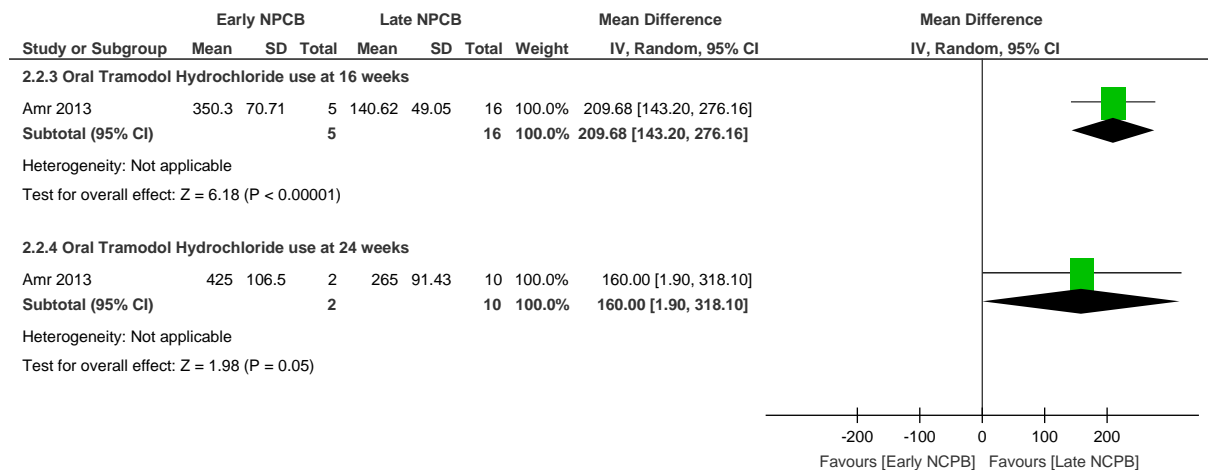
H.8.23 **Early NCPB versus late NCPB**

4 **Figure 74: Oral morphine use at 16 and 24 weeks follow-up**



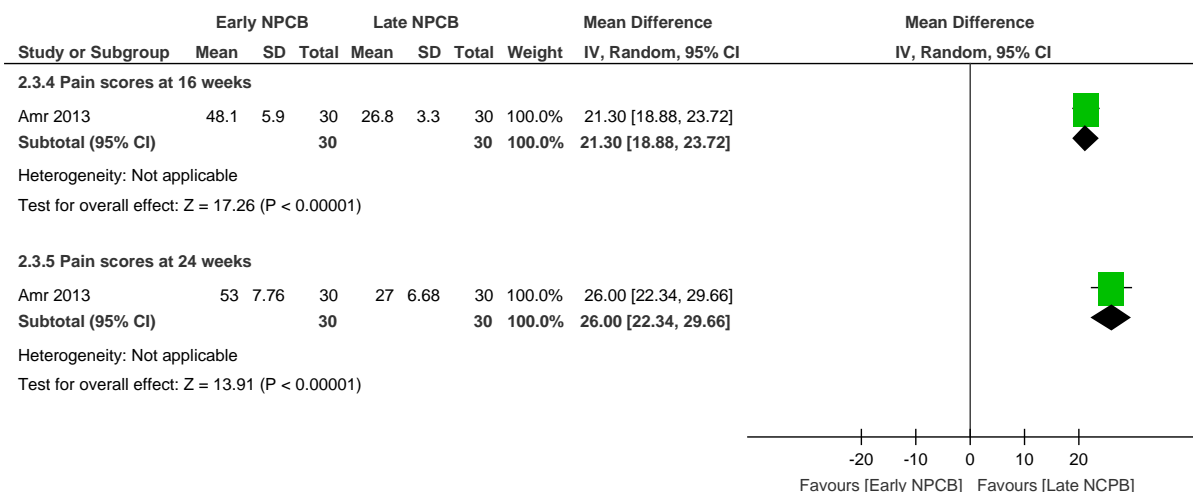
5

6 **Figure 75: Oral Tramadol Hydrochloride use at 16 and 24 weeks follow-up.**



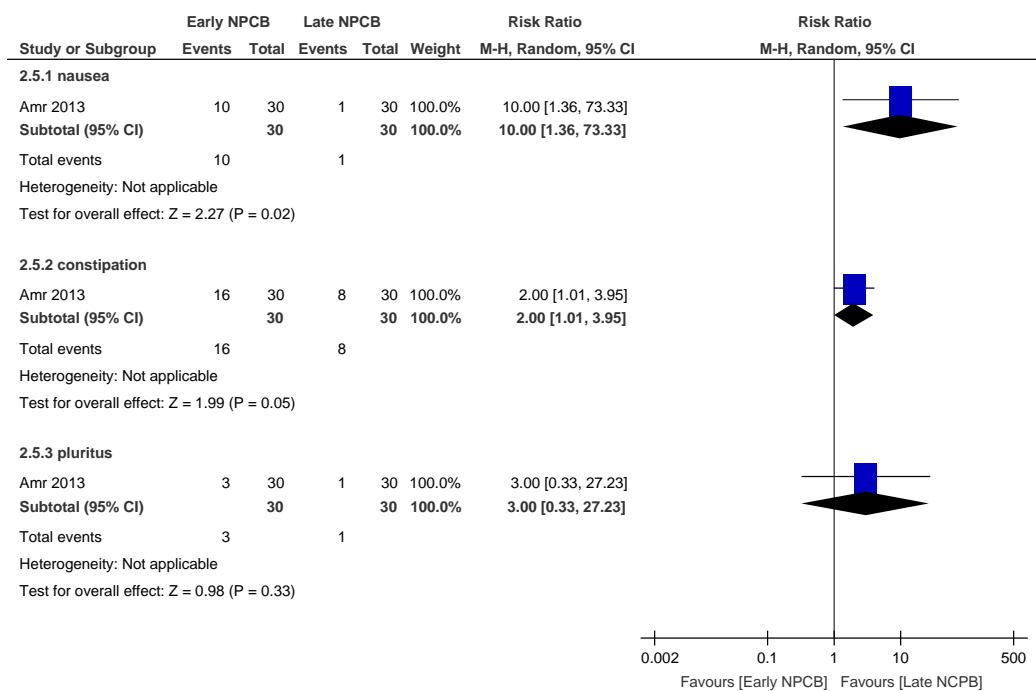
7

### 1 Figure 76: Pain scores at 16 and 24 weeks follow-up.



2

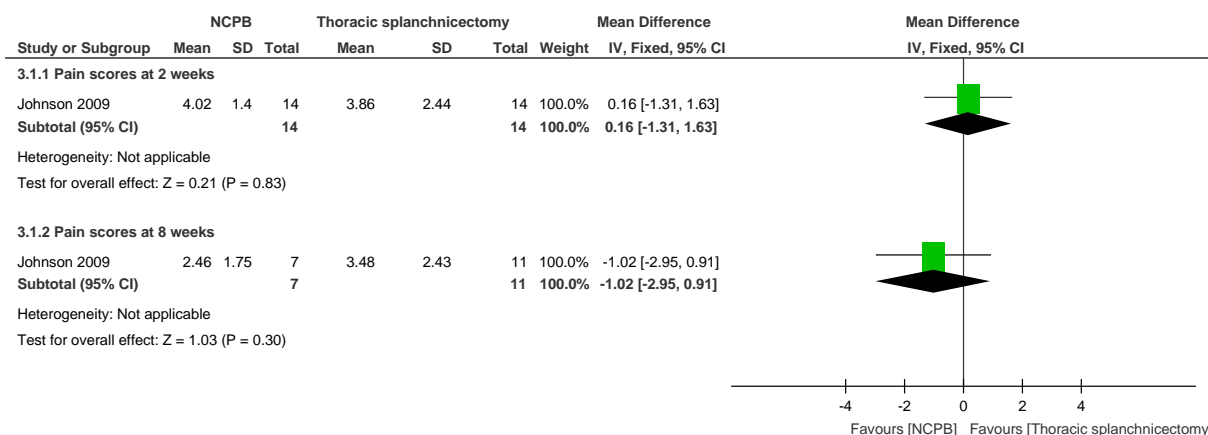
### 3 Figure 77: Adverse effects - nausea, constipation, pleritus



4

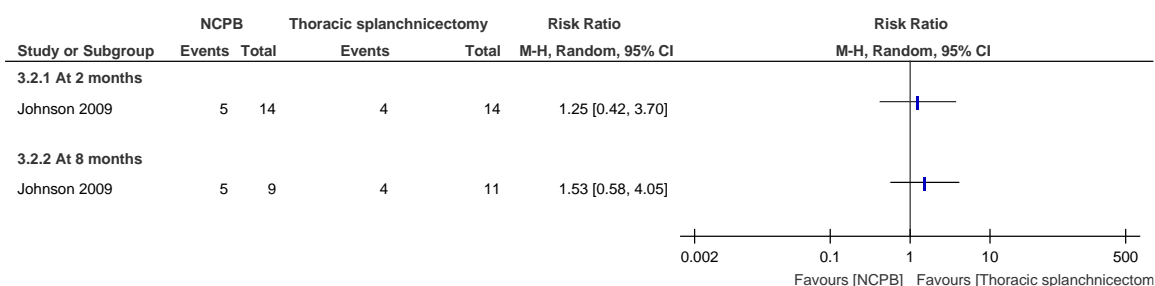
## H.8.31 NCPB plus medical management versus thoracic splanchnicectomy plus medical management

### 3 Figure 78: Pain scores at 2 and 8 weeks



4

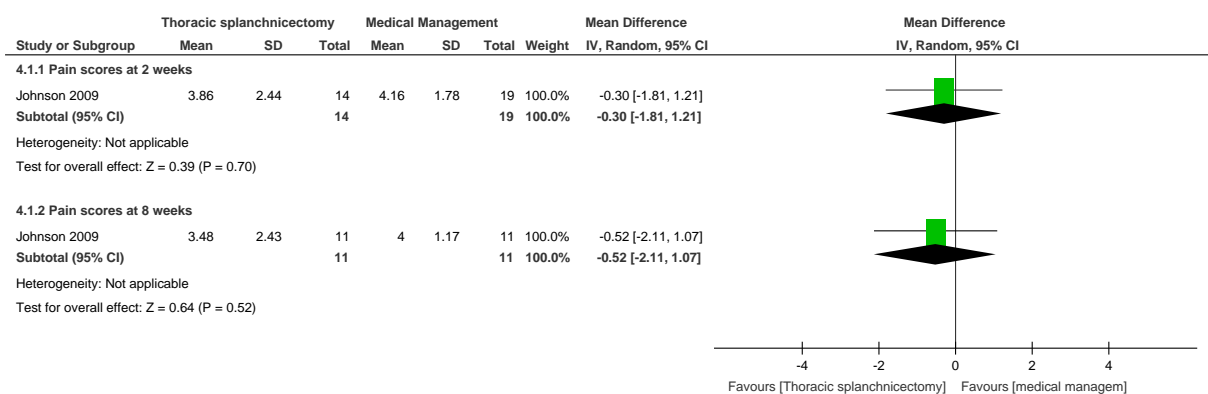
### 5 Figure 79: Patients reporting effective pain management at 2 and 8 weeks



6

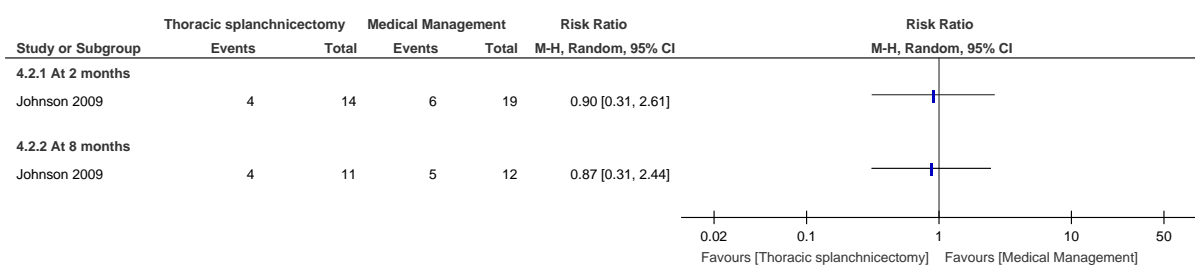
## H.8.47 Thoracic splanchnicectomy + medical management versus medical management alone

### 9 Figure 80: Pain scores at 2 and 8 weeks



10

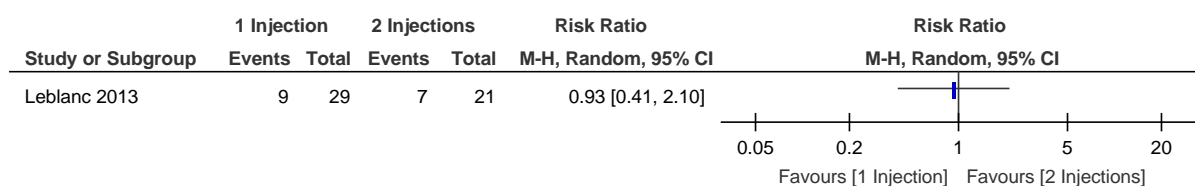
## 1 Figure 81: Patients reporting effective pain management at 2 and 8 weeks



2

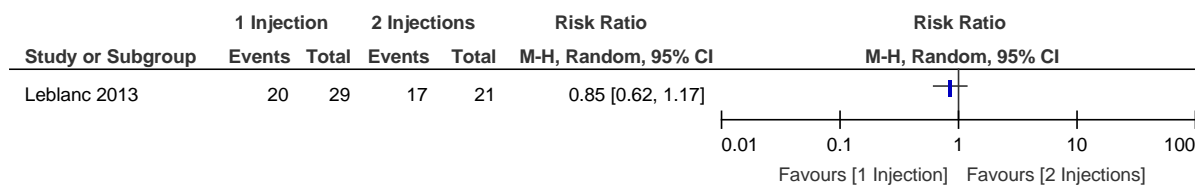
## H.8.53 EUS- guided NCPB: 1 injection versus EUS- guided NCPB: 2 injections

### 4 Figure 82: Reduction in pain medication



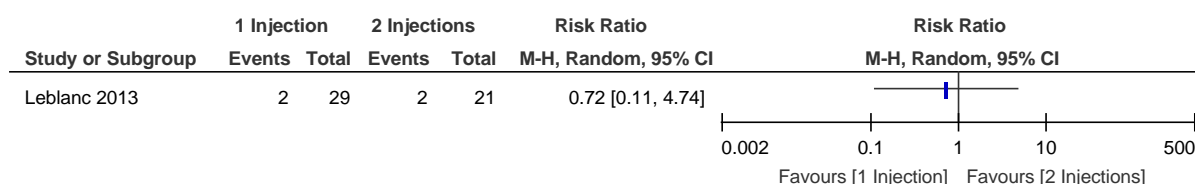
5

### 6 Figure 29: Patients with pain relief



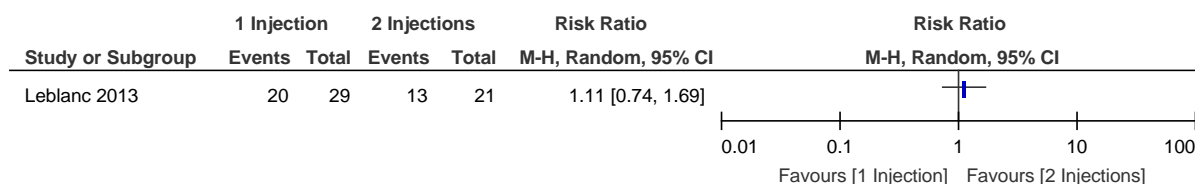
7

### 8 Figure 83: Patients with a complete pain relief



9

### 10 Figure 84: Patients reporting a block effective (subjective)



11

## H.8.62 NCPB versus splanchnic nerve blocks

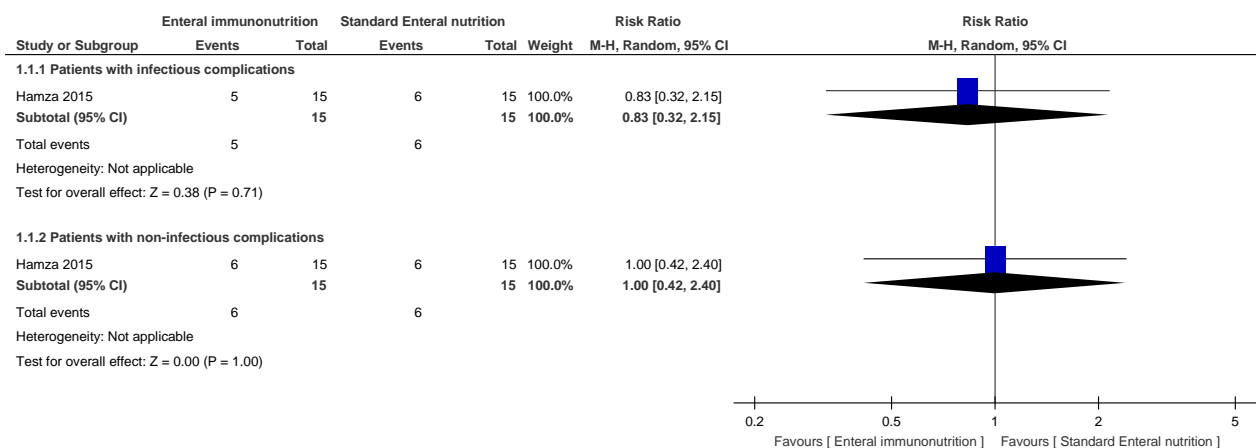
13 None

14

## H.9<sub>1</sub> Nutritional Interventions

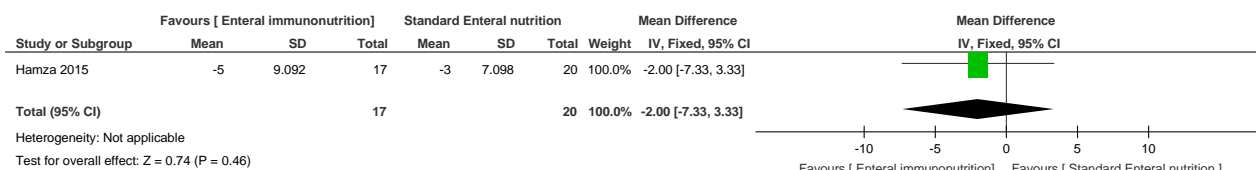
### H.9.1<sub>2</sub> Standard Enteral nutrition versus enteral immunonutrition before and after surgery

#### 4 Figure 85: Treatment related morbidity - postoperative complications



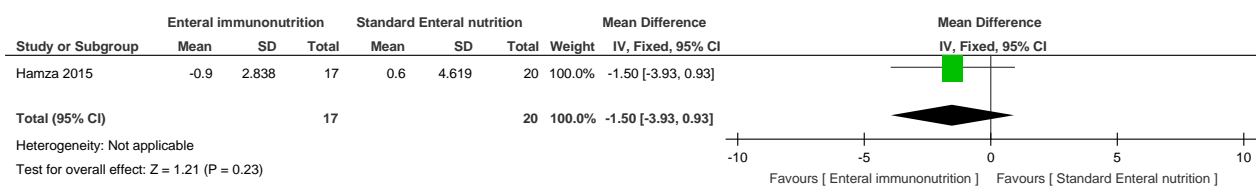
5

#### 6 Figure 86: Health Related Quality of Life - Karnofsky score at 2 weeks after surgery, change from baseline



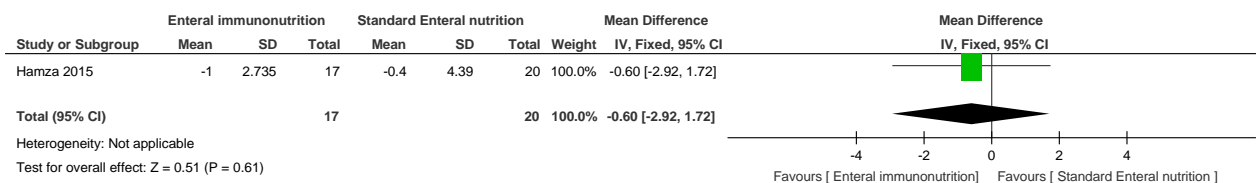
8

#### 9 Figure 87: Nutritional status at 2 weeks after surgery - BMI (kg/m<sup>2</sup>), change from baseline



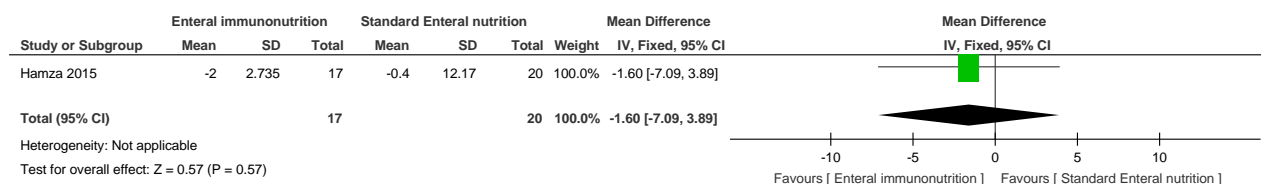
11

#### 12 Figure 88: Nutritional status at 2 weeks after surgery - mid-arm circumference (cm), change from baseline



14

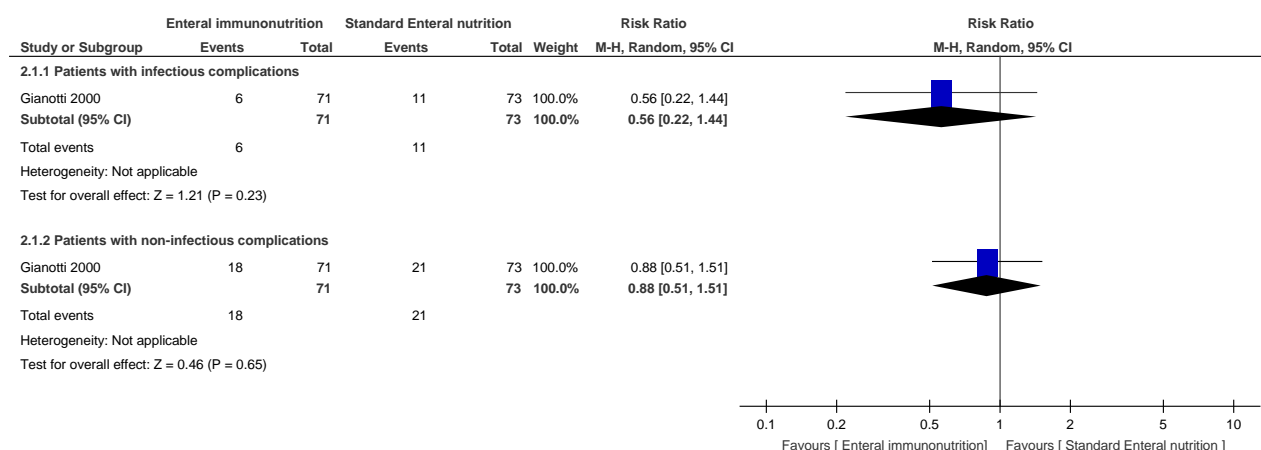
1 **Figure 89: Nutritional status at 2 weeks after surgery - corrected arm muscle area (cm<sup>2</sup>), change from baseline**



3

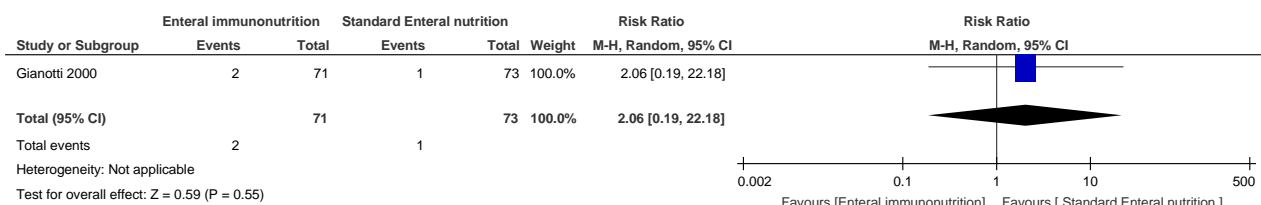
H.9.24 **Standard Enteral nutrition (versus enteral immunonutrition after surgery**

5 **Figure 90: Treatment related morbidity - postoperative complications**



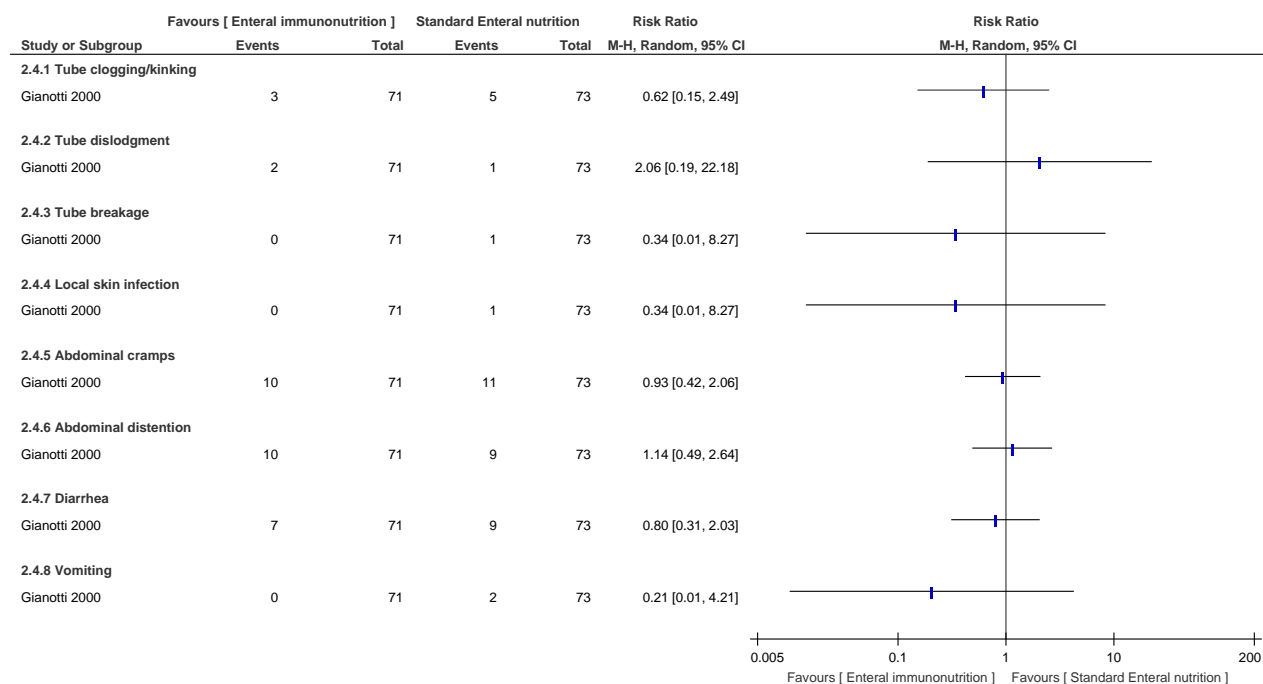
6

7 **Figure 91: Treatment related morbidity - postoperative mortality**



8

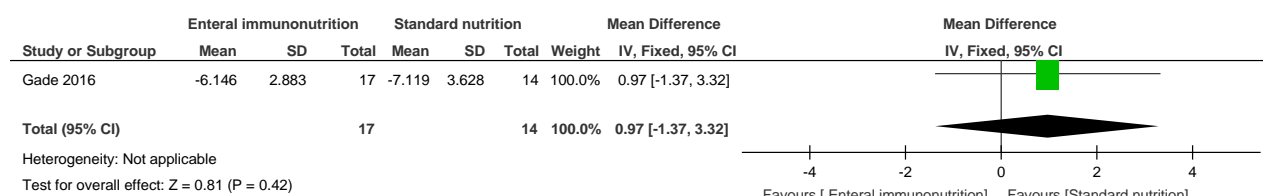
1 **Figure 92: Treatment related morbidity - Jejunostomy and enteral nutritional**  
2 **related complications**



3

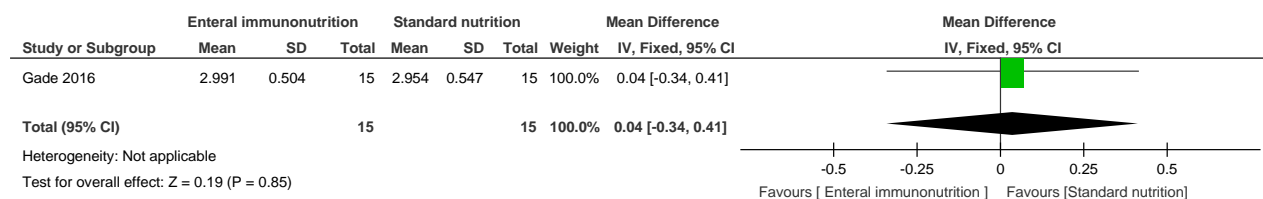
**H.9.34 Enteral immunonutrition versus Standard nutrition (no intervention)**

5 **Figure 93: Nutritional status at 30 days after surgery - Absolute change in weight**  
6 **(kg) from baseline**



7

8 **Figure 10: PROMS - Satisfaction with nutritional treatment at 1 month after surgery**

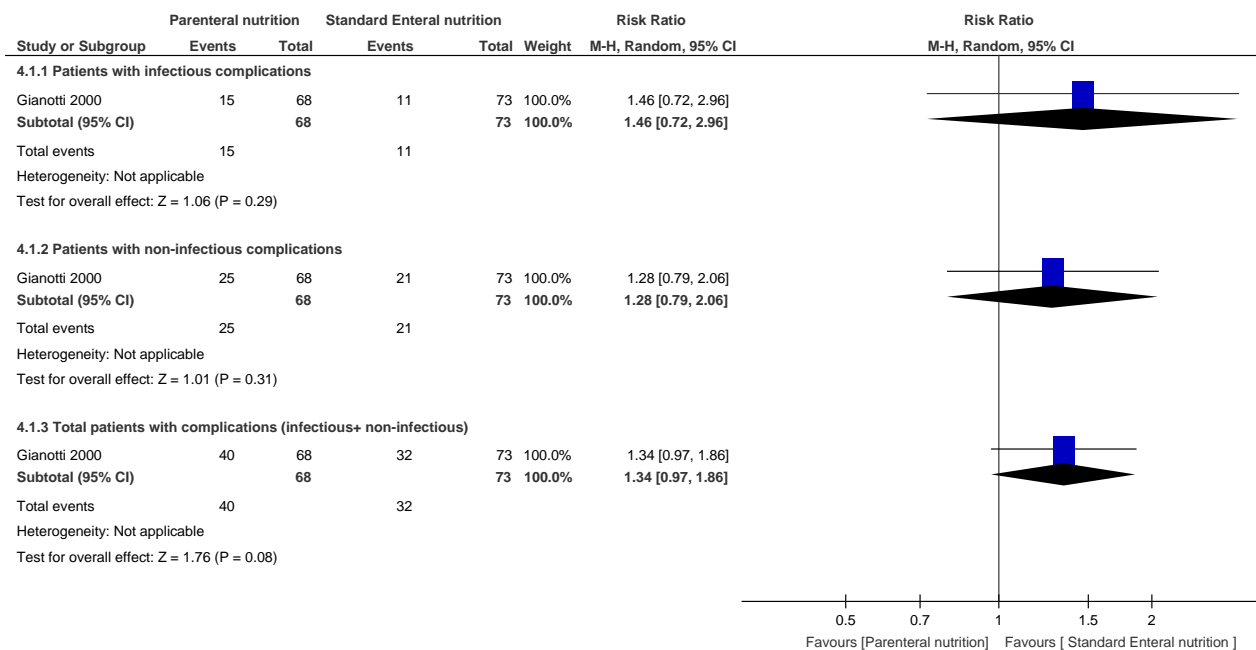


9



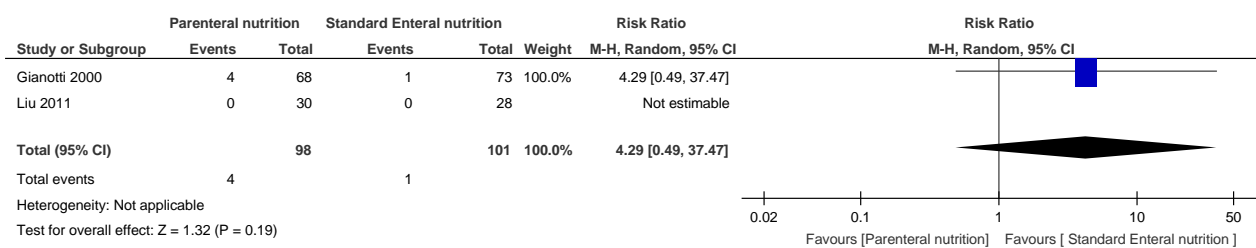
## H.9.41 Parenteral nutrition versus standard enteral nutrition after surgery

### 2 Figure 94: Treatment related morbidity - postoperative complications



3

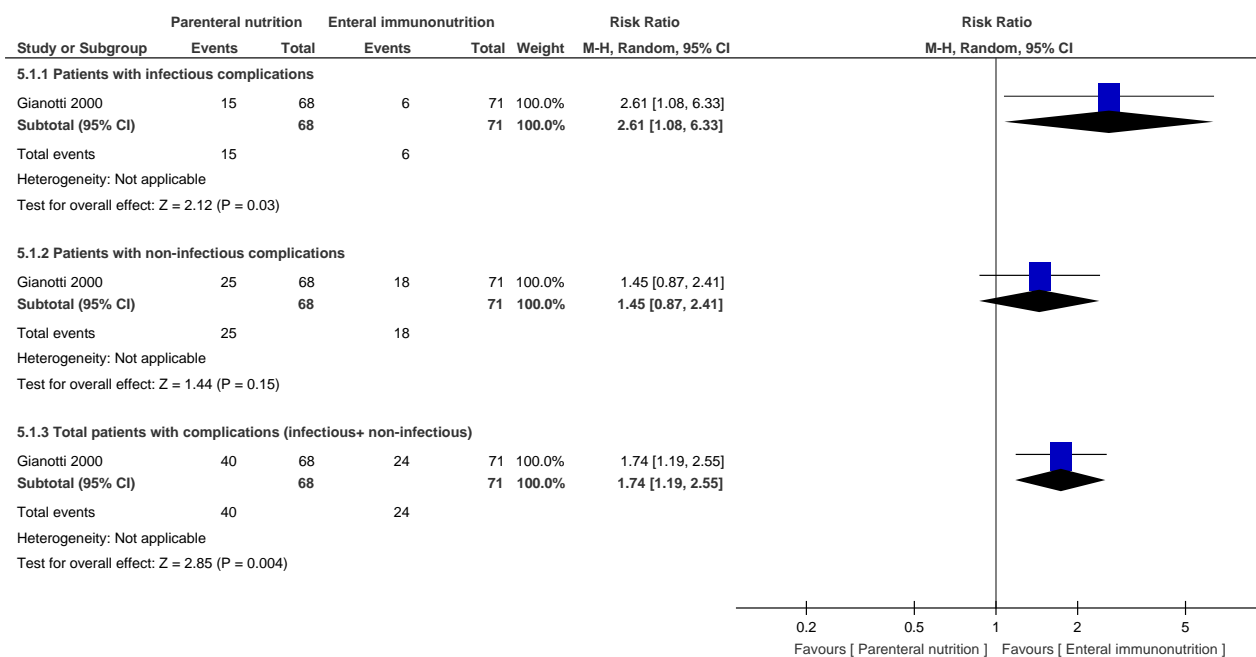
### 4 Figure 95: Treatment related morbidity - postoperative mortality



5

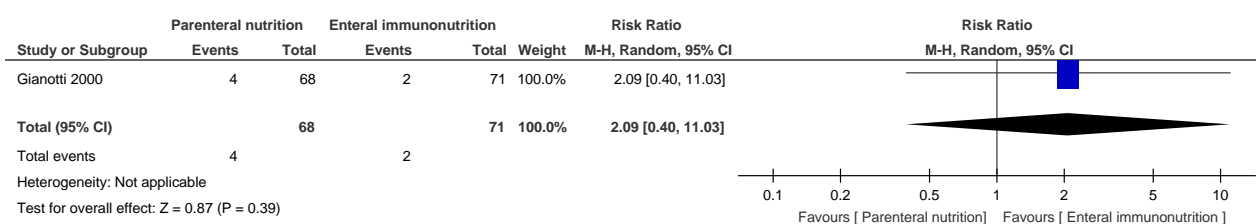
## H.9.51 Parenteral nutrition versus enteral immunonutrition after surgery

### 2 Figure 96: Treatment related morbidity - postoperative complications



3 Test for subgroup differences: Chi<sup>2</sup> = 1.29, df = 2 (P = 0.52), I<sup>2</sup> = 0%

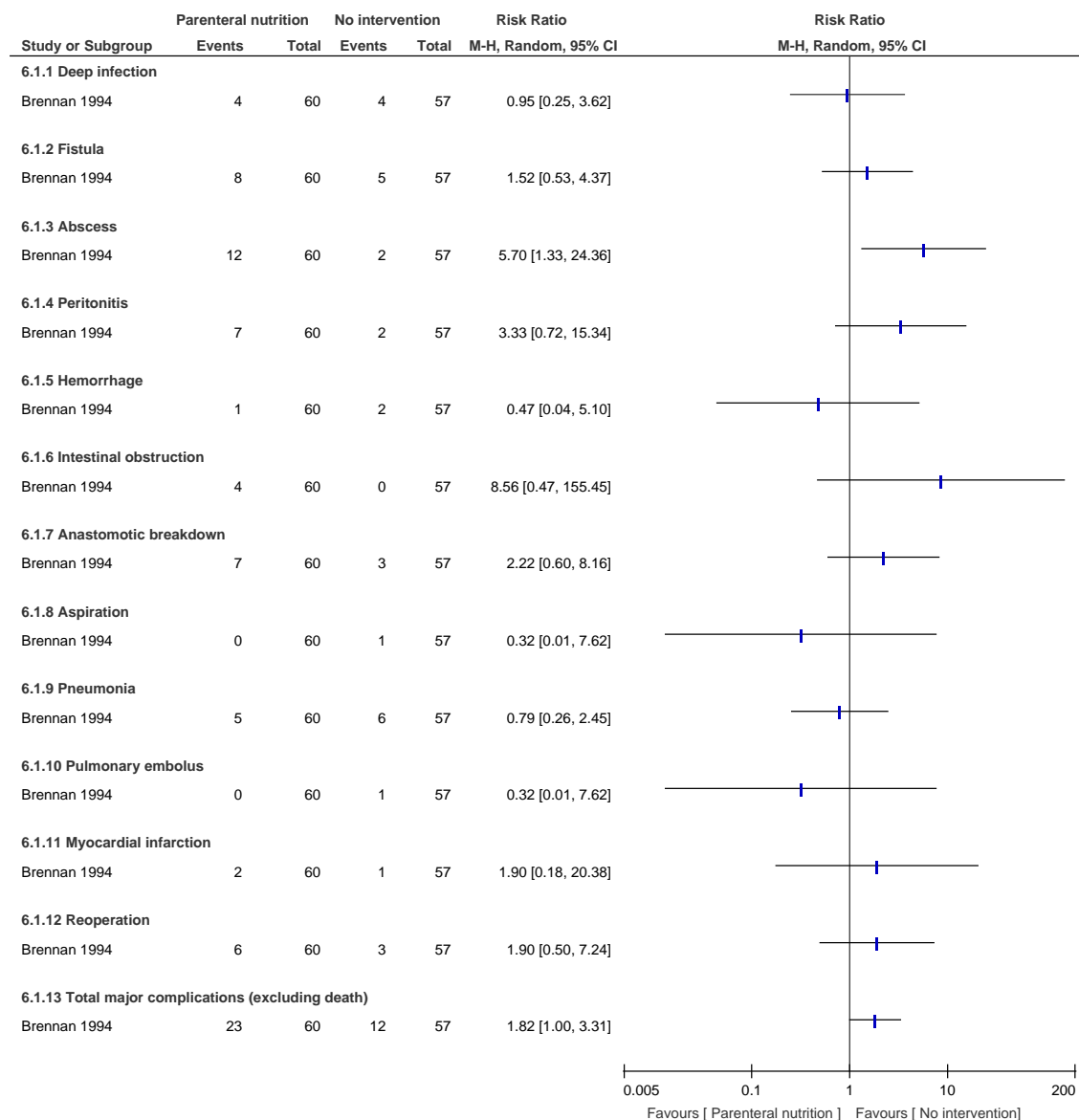
### 4 Figure 97: Treatment related morbidity - postoperative mortality



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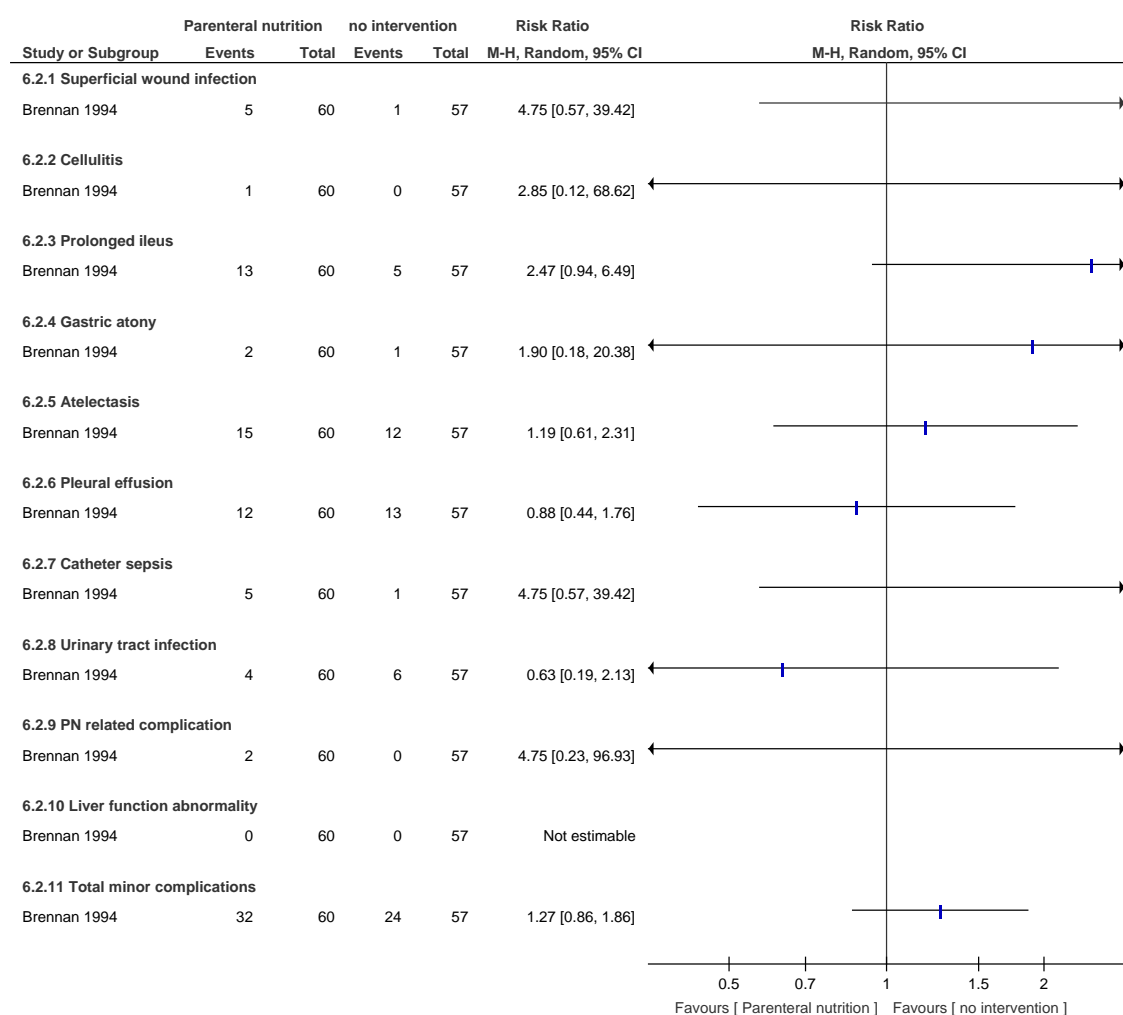
## H.9.61 Parenteral nutrition versus no intervention after surgery

### 2 Figure 98: Treatment related morbidity - major complications



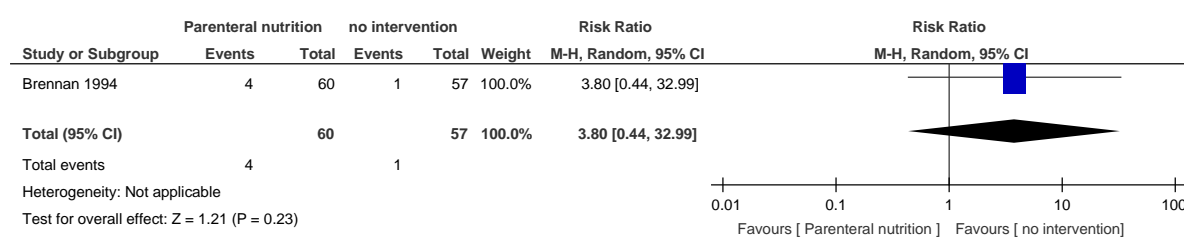
3

### 1 Figure 99: Treatment related morbidity - minor complications



2

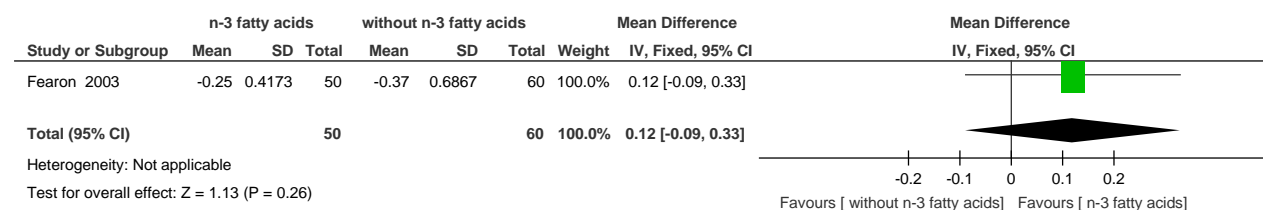
### 3 Figure 100: Treatment related morbidity - postoperative mortality



4

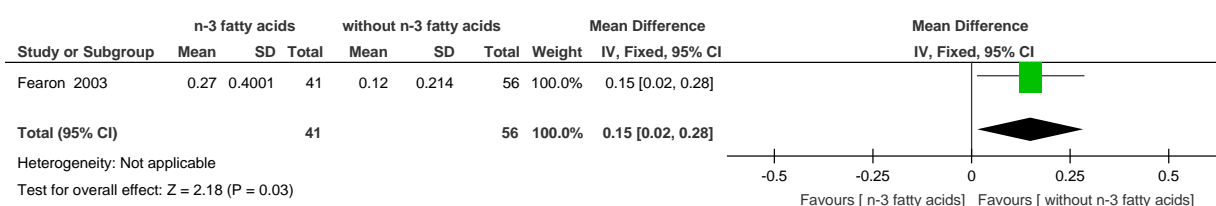
## H.9.75 Oral nutritional supplements (n-3 fatty acids) versus isocaloric-isonitrogenous supplement (without n-3 fatty acids)

### 7 Figure 101: Nutritional status - Change in weight (kg/month) at 8 weeks



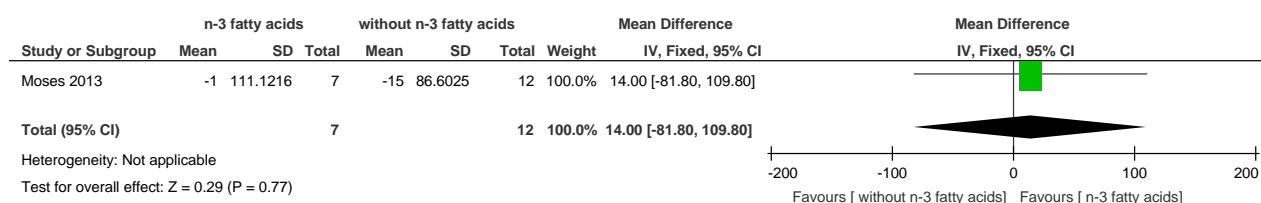
8

### 1 Figure 102: Nutritional status - Change in lean body mass (kg) at 8 weeks



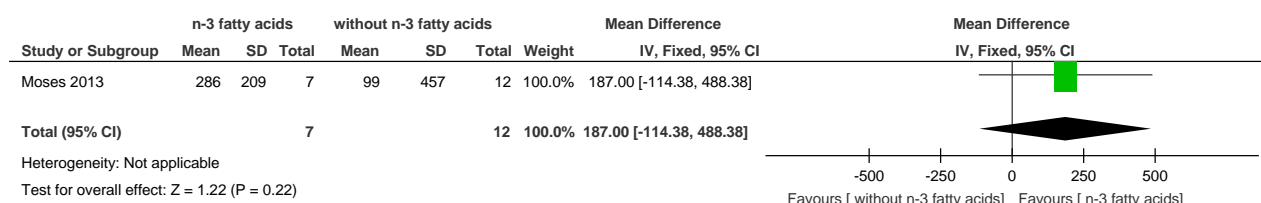
2

### 3 Figure 103: Change in resting energy expenditure at 8 weeks



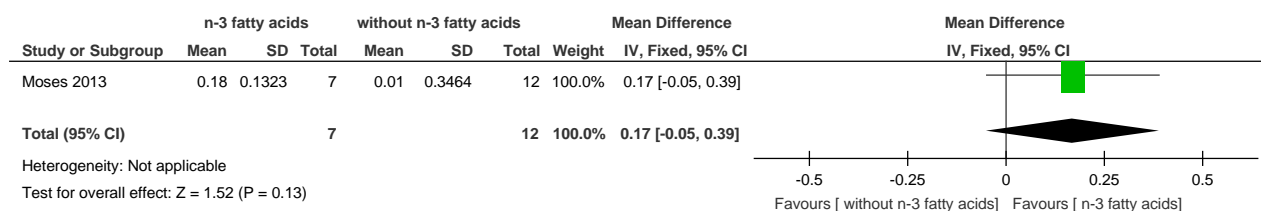
4

### 5 Figure 104: Change in total energy expenditure at 8 weeks



6

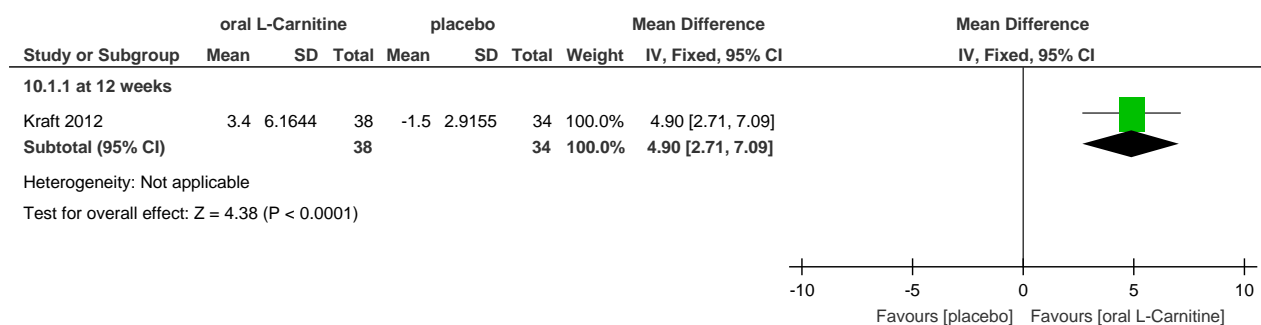
### 7 Figure 105: Change in physical activity level at 8 weeks



8

## H.9.89 Oral nutritional supplements (oral L-Carnitine therapy) versus placebo

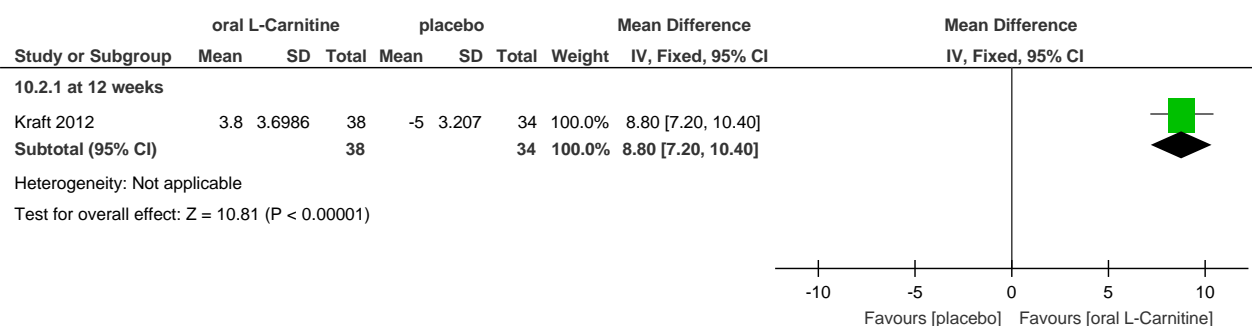
### 10 Figure 106: Nutritional status - % change of BMI at 12 weeks



11

Test for subgroup differences: Not applicable

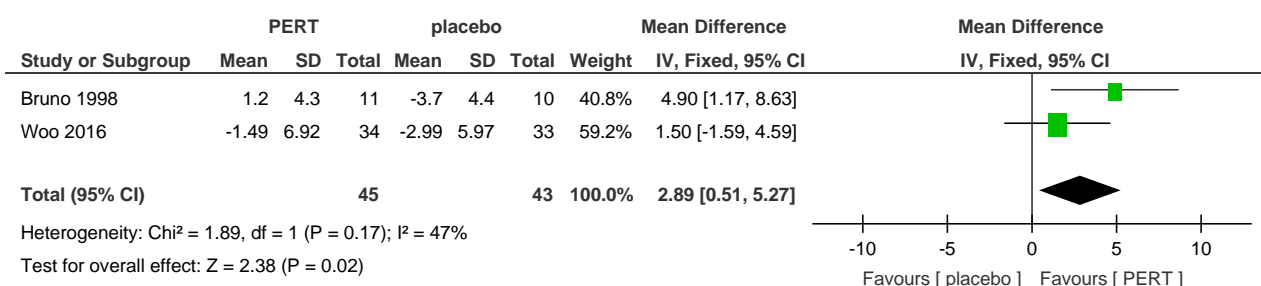
### 1 Figure 107: Nutritional status - % change of body fat and BCM at 12 weeks



2 Test for subgroup differences: Not applicable

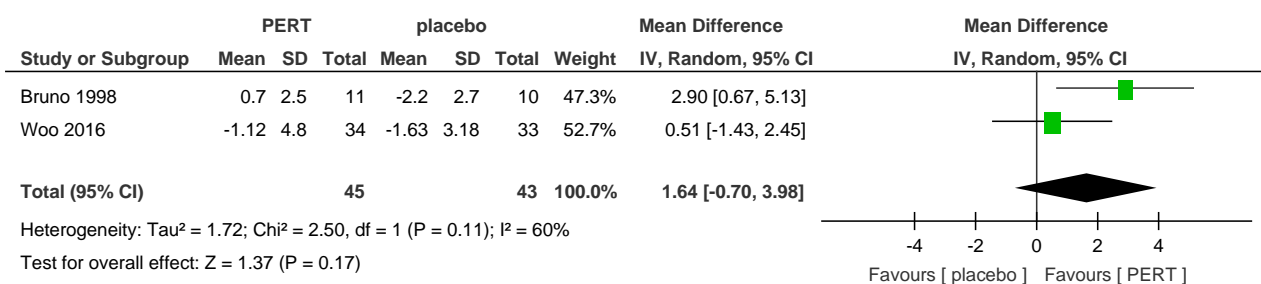
## H.9.93 Pancreatic enzyme replacement therapy (PERT) versus placebo

### 4 Figure 108: Nutritional status - Percentage change in body weight (%) at 8 weeks follow-up



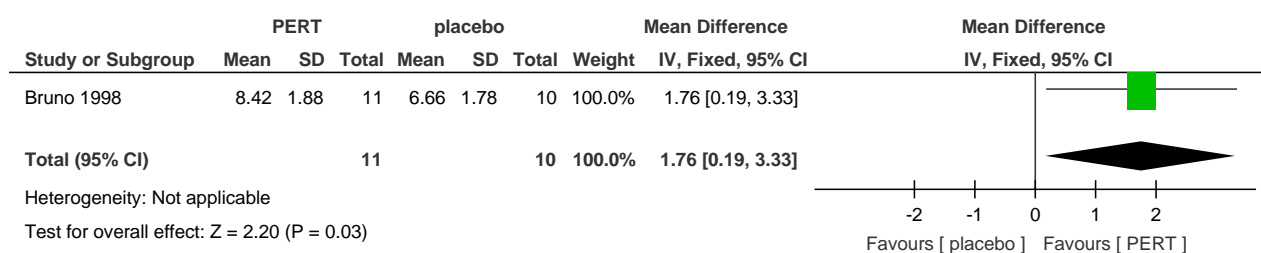
6

### 7 Figure 109: Nutritional status - Absolute change in body weight (Kg) at 8 weeks follow-up



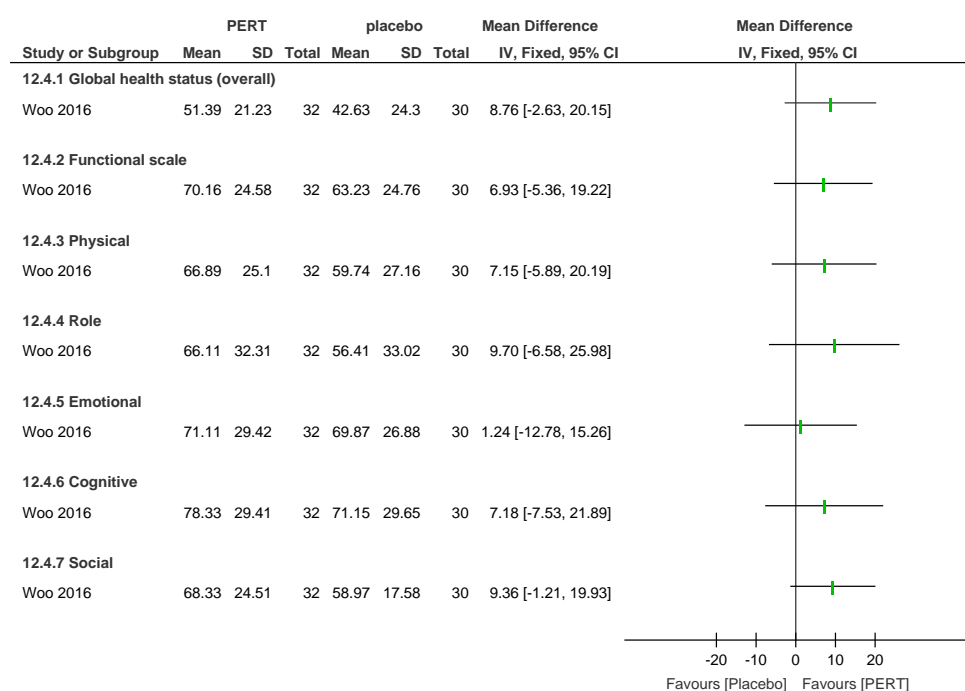
9

### 10 Figure 110: Nutritional status - Daily dietary intake of total calories at 8 weeks follow-up



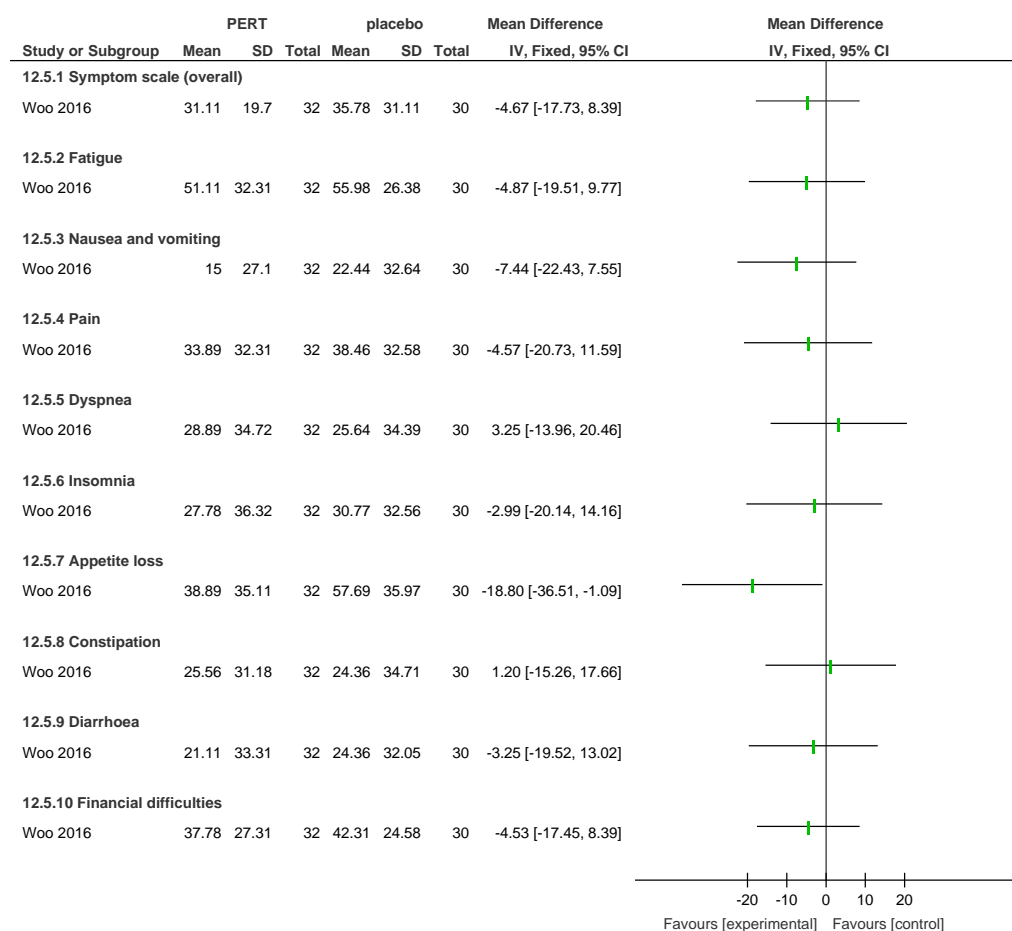
12

### 1 Figure 111: Health related quality of life - Global Health status at 8 weeks follow-up



2

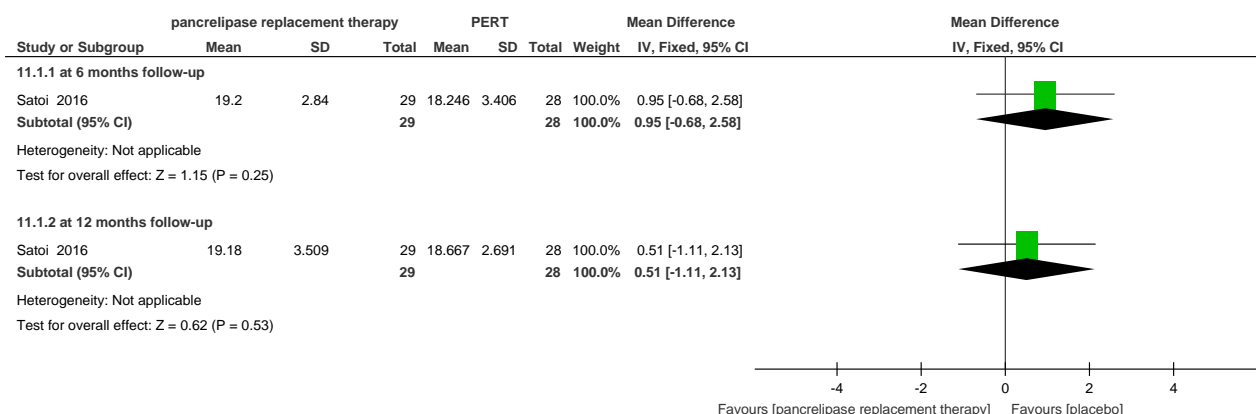
### 3 Figure 112: Health related quality of life - Symptom scale at 8 weeks follow-up



4

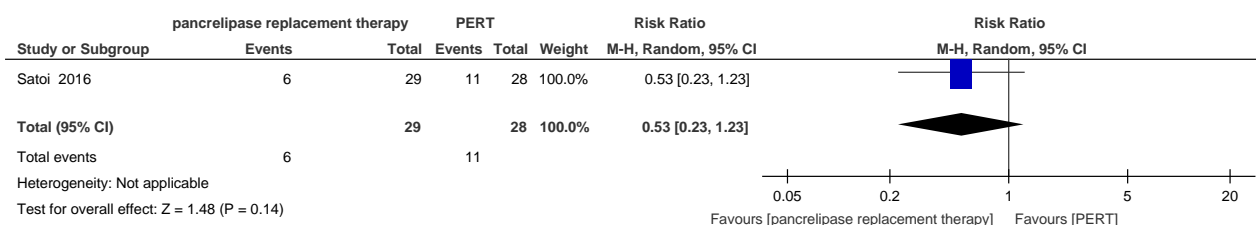
## H.9.101 PERT versus pancrelipase replacement therapy

### 2 Figure 113: Nutritional status - BMI (kg/m<sup>2</sup>) at 6 and 12 months follow-up



3 Test for subgroup differences: Chi<sup>2</sup> = 0.14, df = 1 (P = 0.71), I<sup>2</sup> = 0%

### 4 Figure 114: Treatment related morbidity - NAFLD at 1 year follow-up

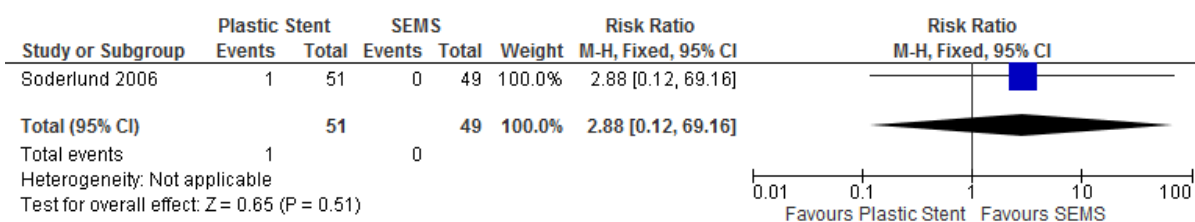


5  
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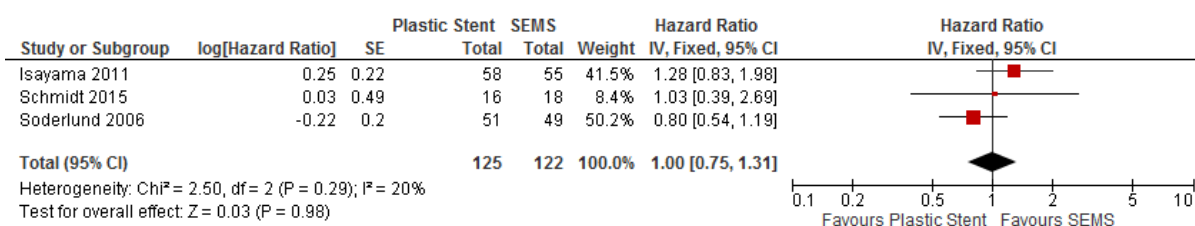
## H.10.7 Biliary obstruction

### H.10.18 Plastic stent versus self-expanding metal stent in adults with pancreatic cancer

#### Figure 115: Treatment-related mortality

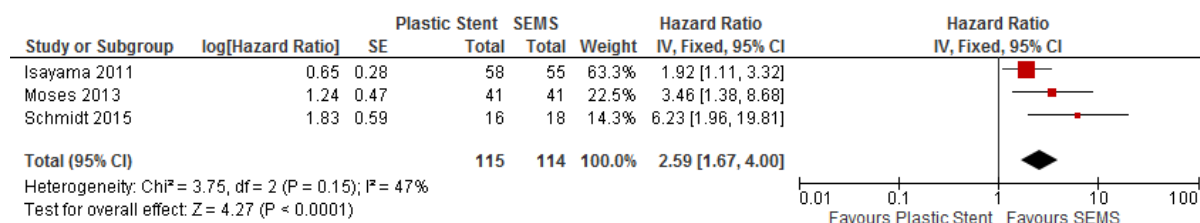


#### Figure 116: Overall survival

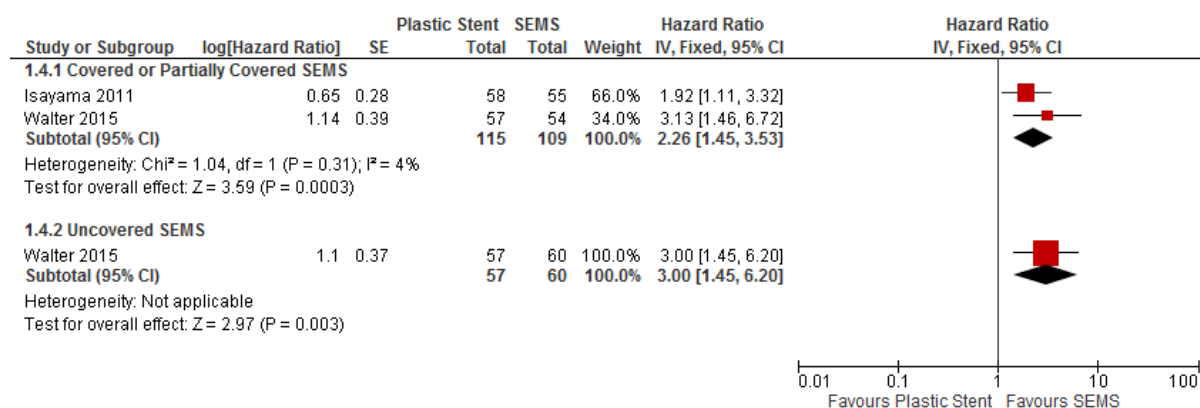




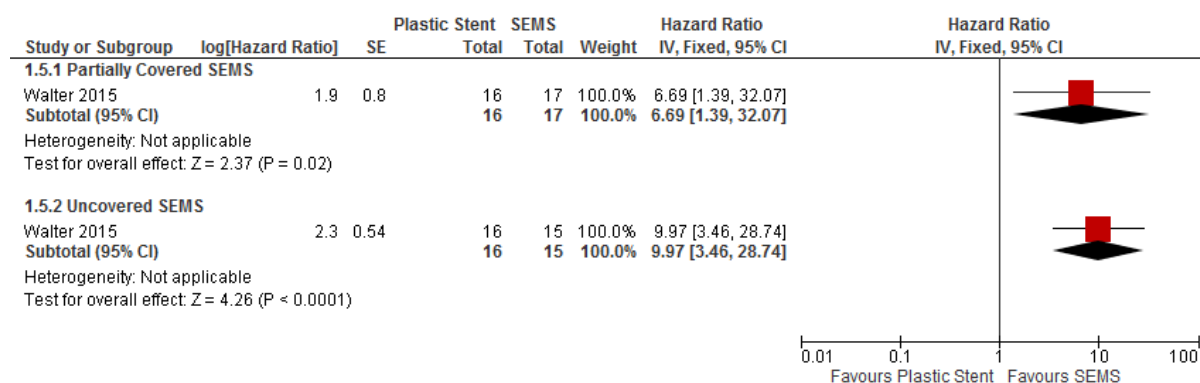
**Figure 117: Time to stent dysfunction – primary and/or secondary stent**



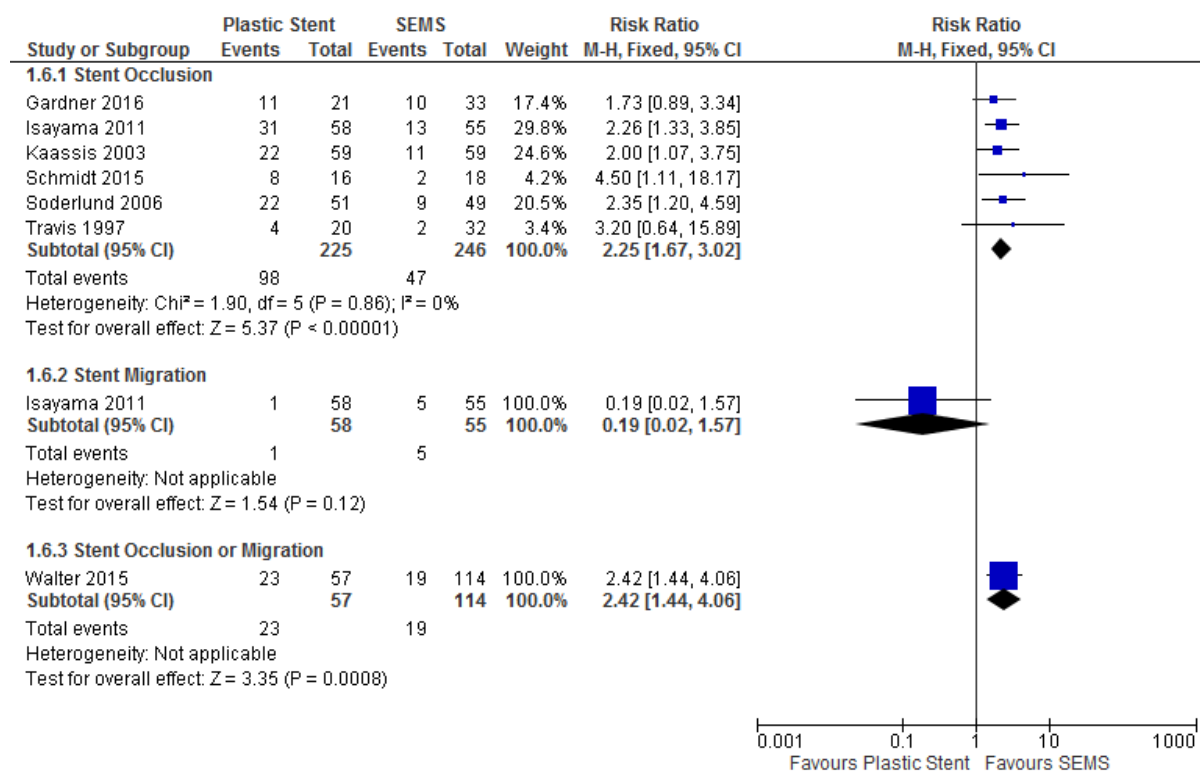
**Figure 118: Time to stent dysfunction – primary stent subgroup analysis by covered status**



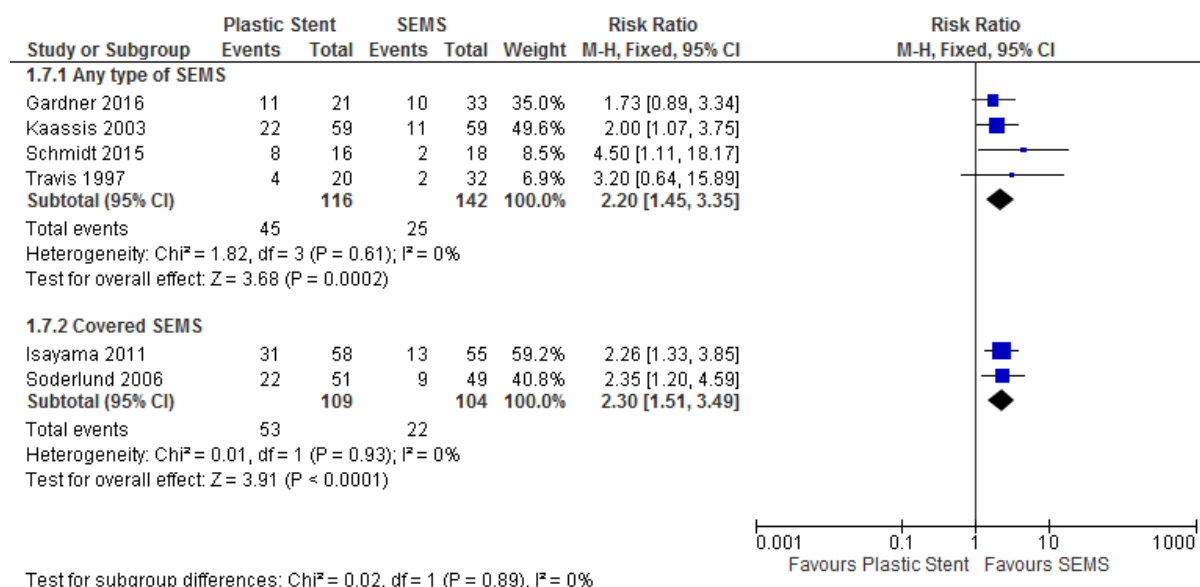
**Figure 119: Time to stent dysfunction – secondary stent subgroup analysis by covered status**



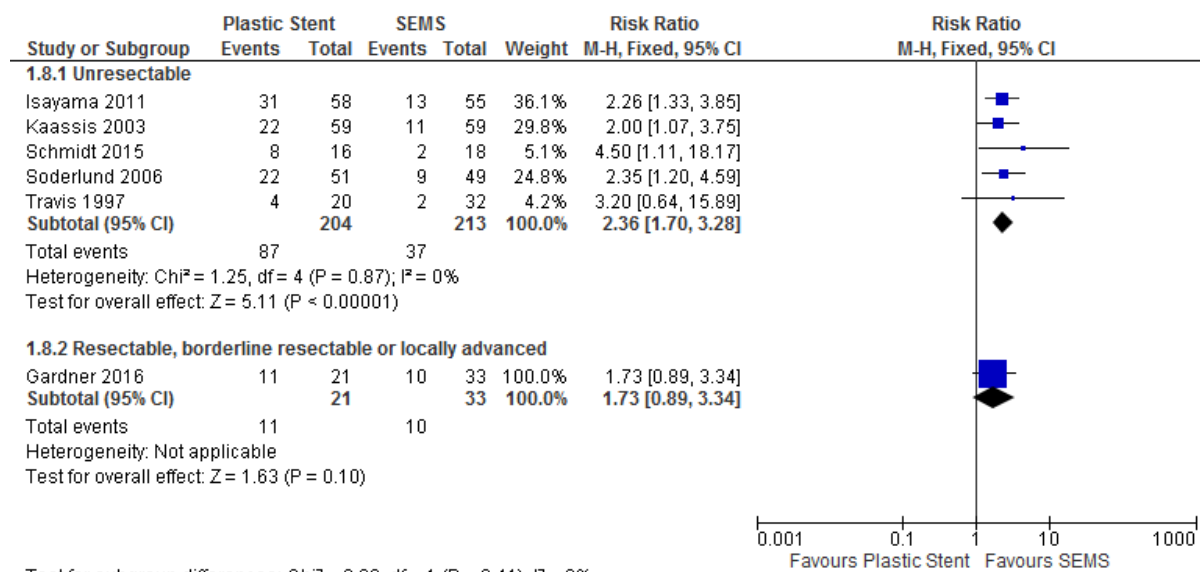
**Figure 120: Number of patients with stent dysfunction**



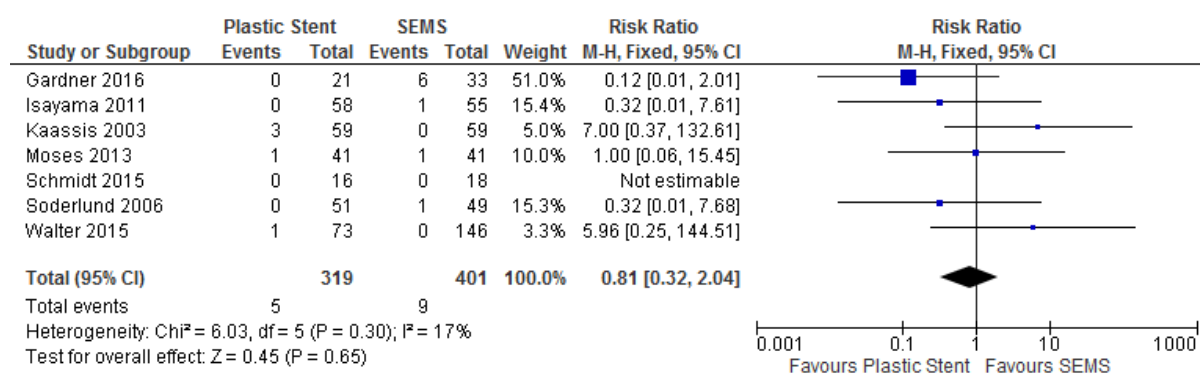
**Figure 121: Number of patients with stent occlusion – subgroup analysis by covered status**



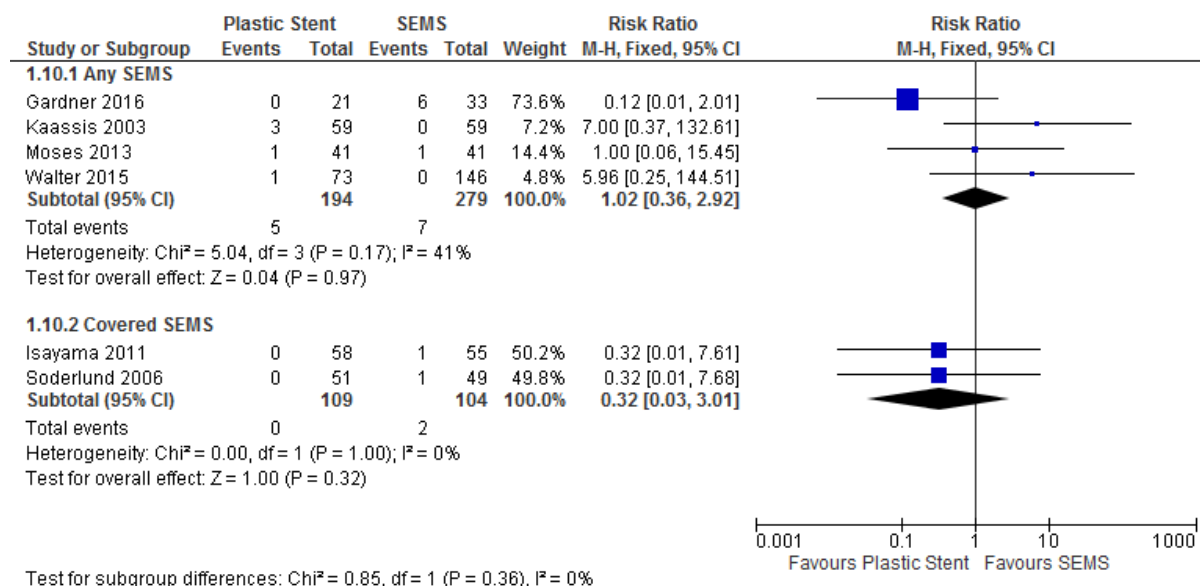
**Figure 122: Number of patients with stent occlusion – subgroup analysis by resectability status**



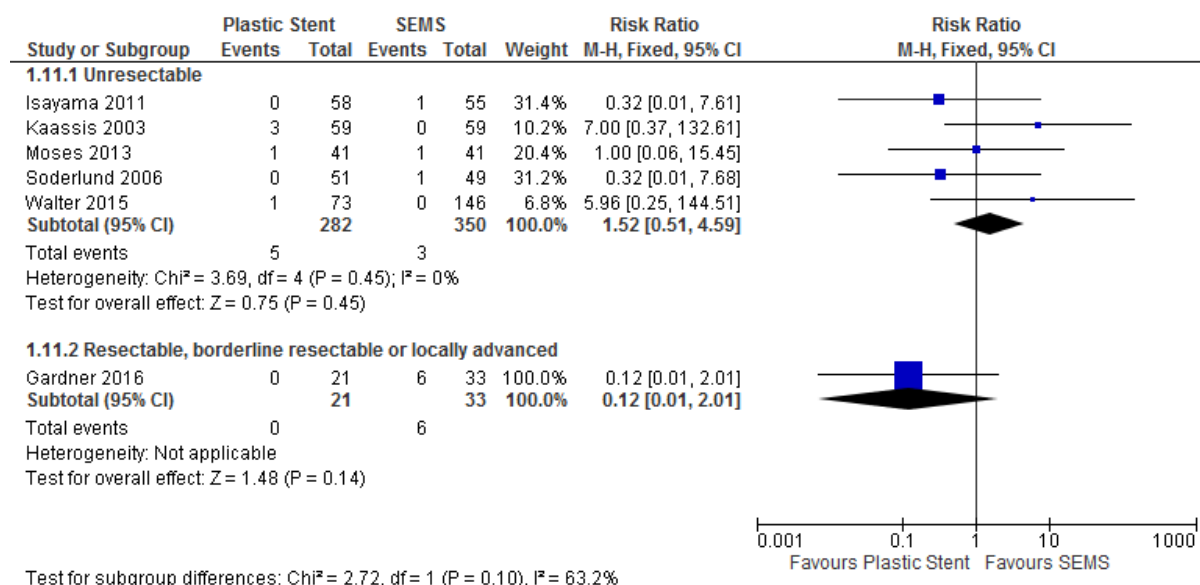
**Figure 123: Number of patients with pancreatitis**



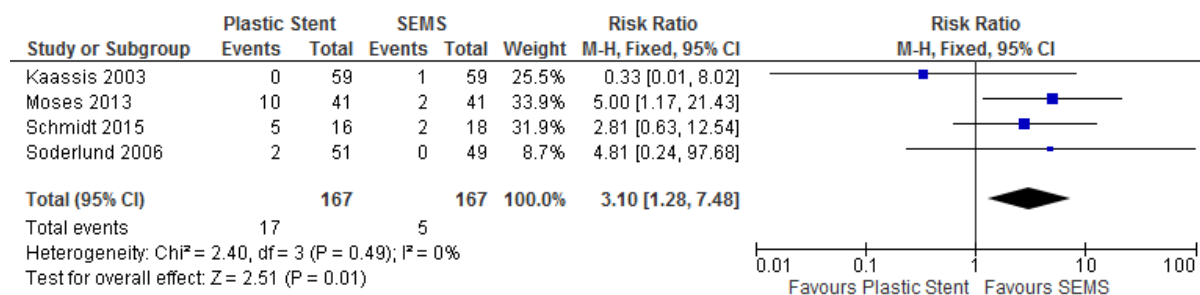
**Figure 124: Number of patients with pancreatitis – subgroup analysis by covered status**



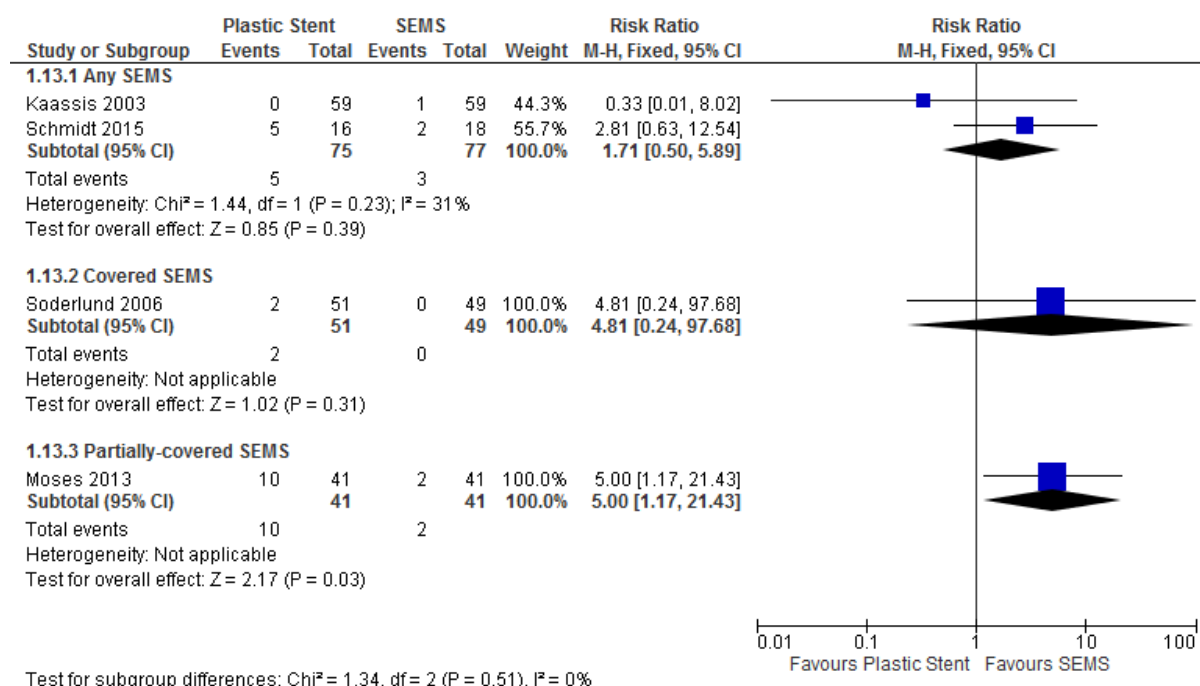
**Figure 125: Number of patients with pancreatitis – subgroup analysis by resectability status**



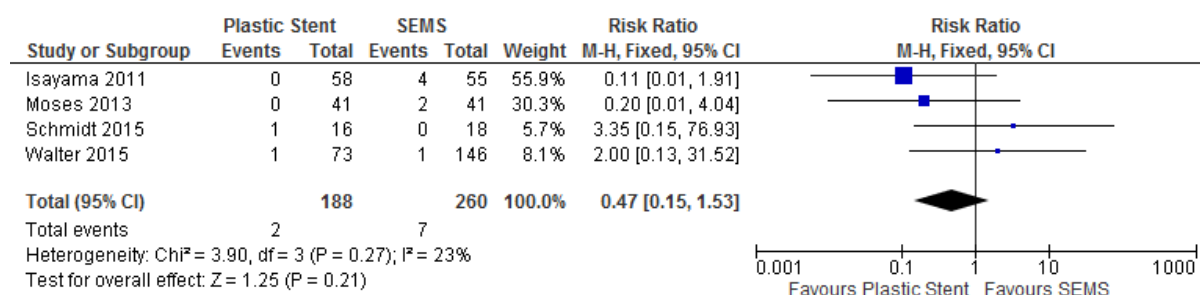
**Figure 126: Number of patients with cholangitis – unresectable patients**



**Figure 127: Number of patients with cholangitis – subgroup analysis by covered status**



**Figure 128: Number of patients with cholecystitis – unresectable patients**



**Figure 129: Number of patients with cholecystitis – subgroup analysis by covered status**

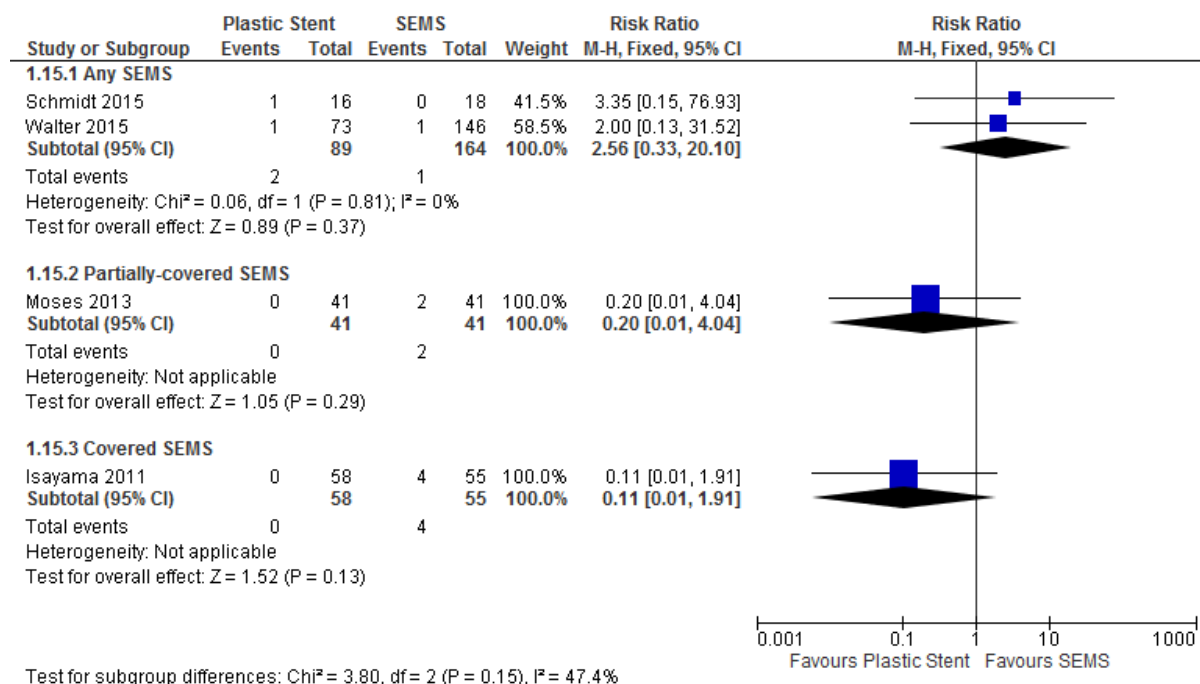


Figure 130: Number of patients with cholestatic symptoms to 2-year follow up

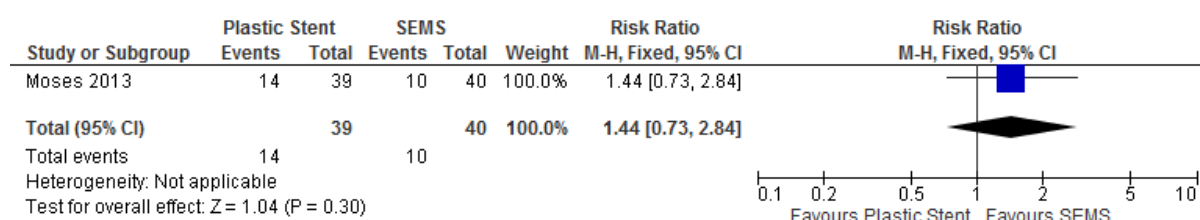


Figure 131: Number of patients with post-endoscopic sphincterotomy haemorrhage

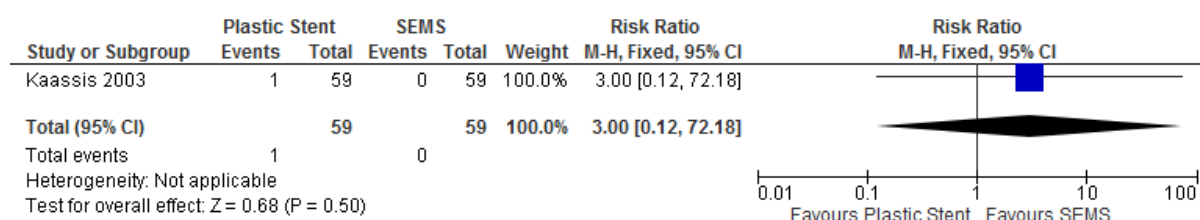
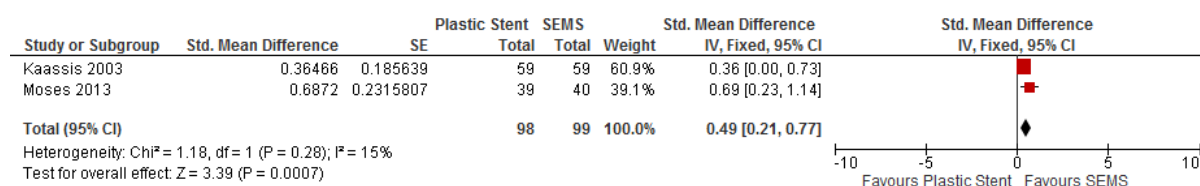
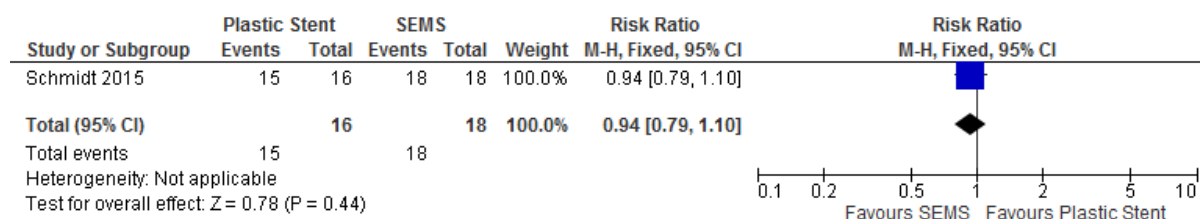


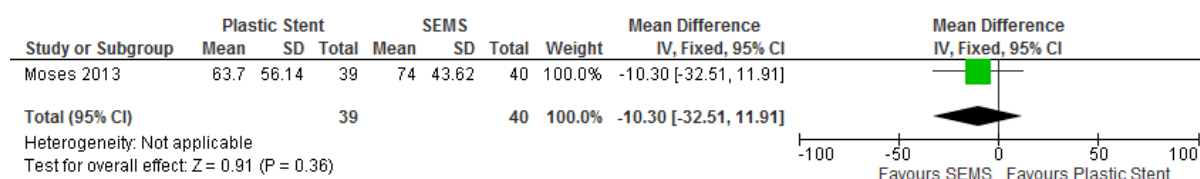
Figure 132: Number of days hospitalised



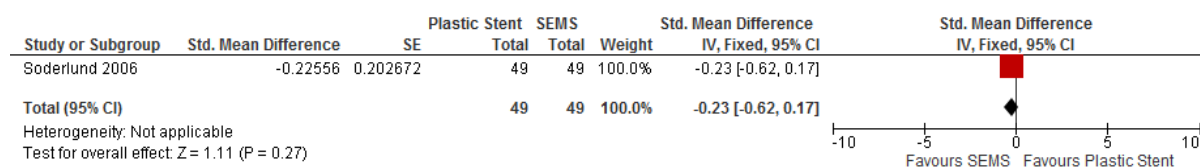
**Figure 133: Number of patients with  $\geq 30\%$  decrease in total serum bilirubin**



**Figure 134: Percentage reduction in total serum bilirubin**

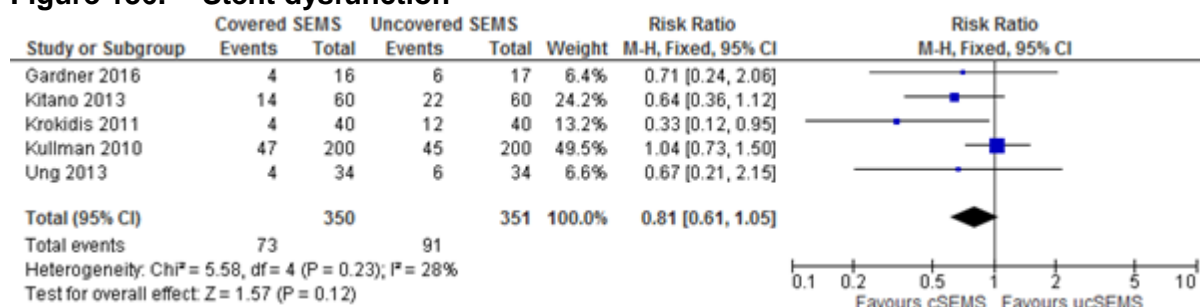


**Figure 135: Total serum bilirubin – rate of change**

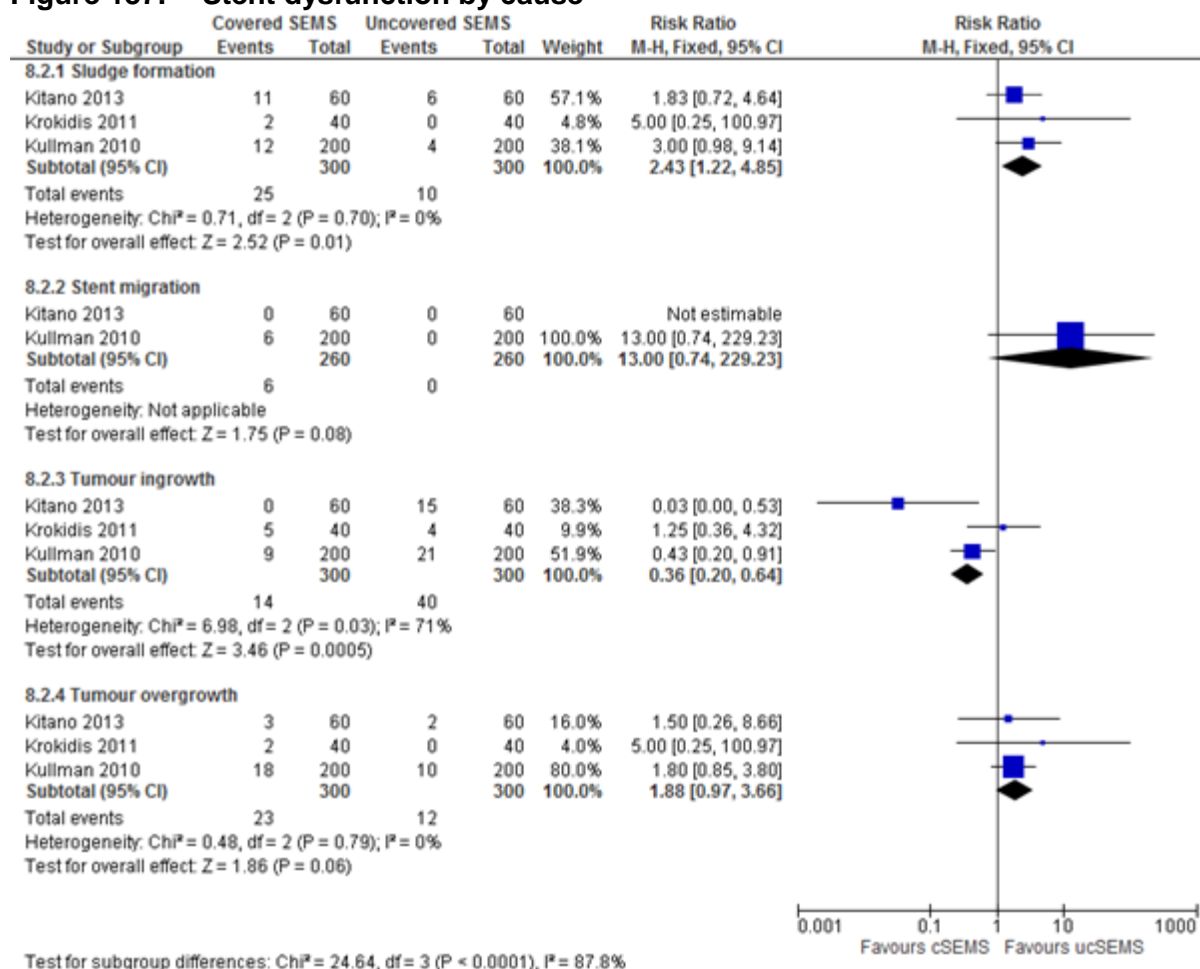


## H.10.21 Covered self-expanding metal stent versus uncovered self-expanding metal stent

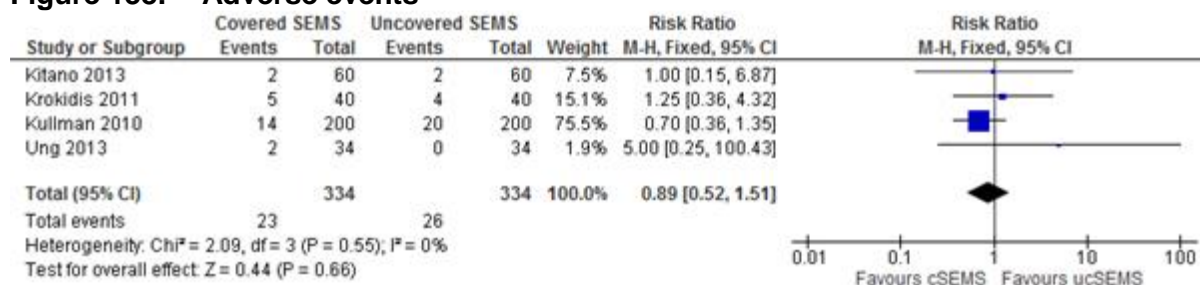
**Figure 136: Stent dysfunction**



**Figure 137: Stent dysfunction by cause**



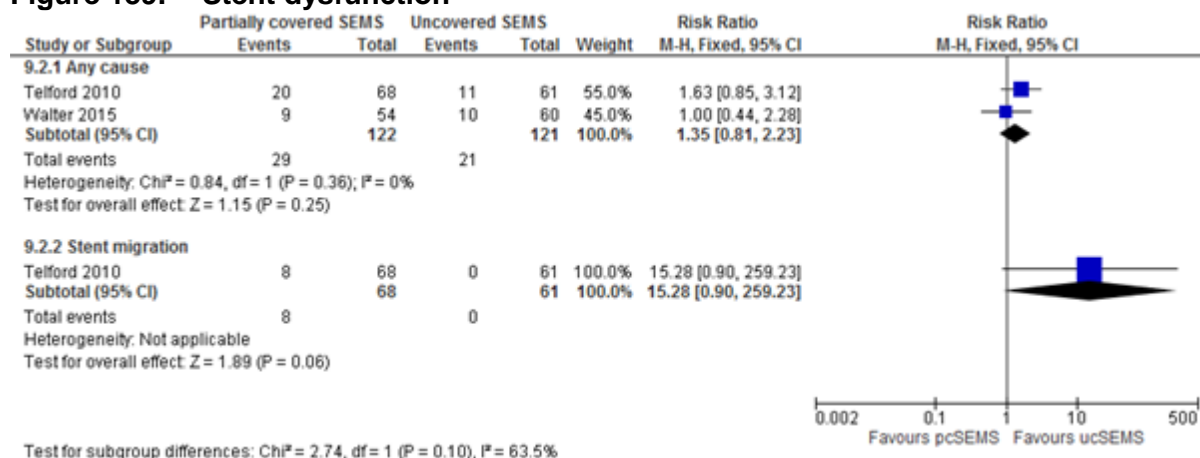
**Figure 138: Adverse events**



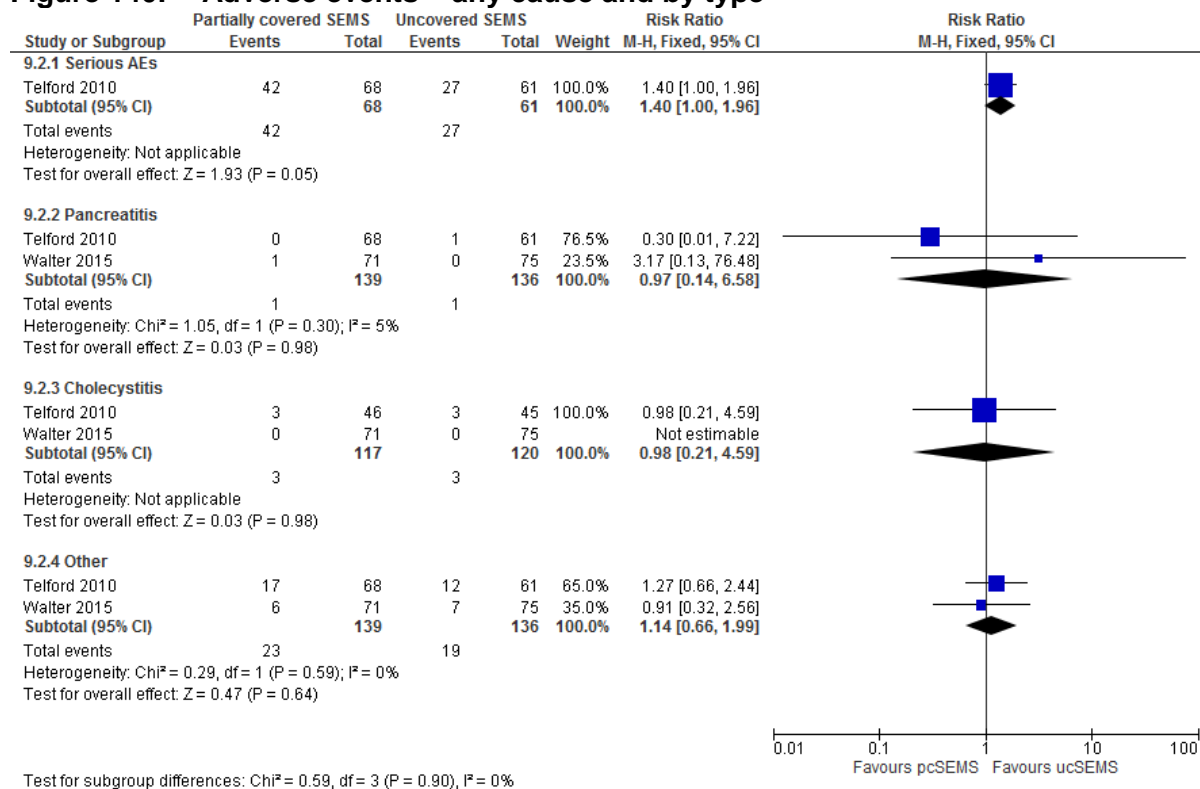


## H.10.31 Partially covered self-expanding metal stent versus uncovered self-expanding metal stent

**Figure 139: Stent dysfunction**

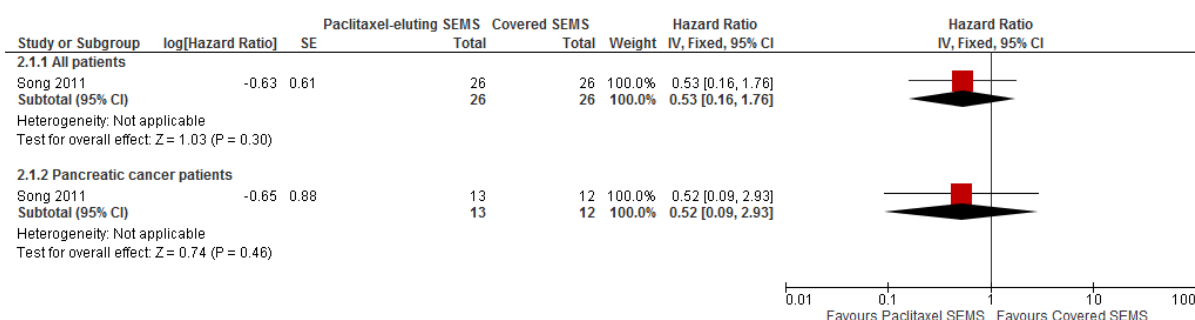


**Figure 140: Adverse events – any cause and by type**



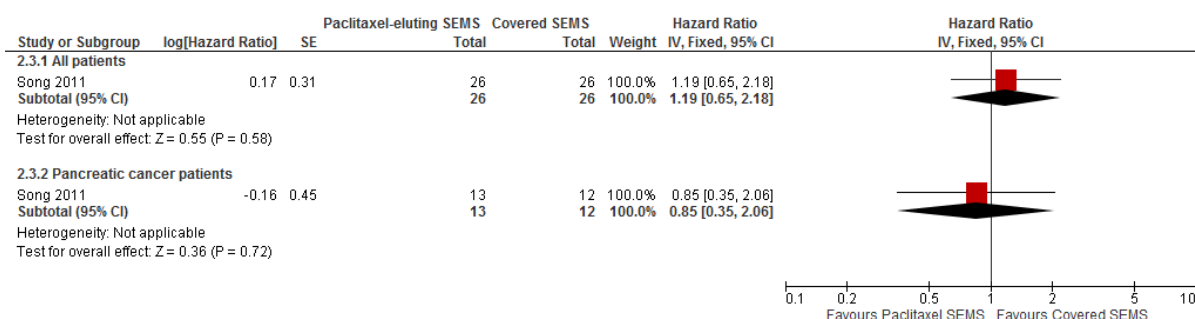
## H.10.41 Paclitaxel-eluting self-expanding metal stent versus covered SEMS in adults with unresectable distal malignant biliary obstruction

### 3 Figure 141: Time to stent dysfunction



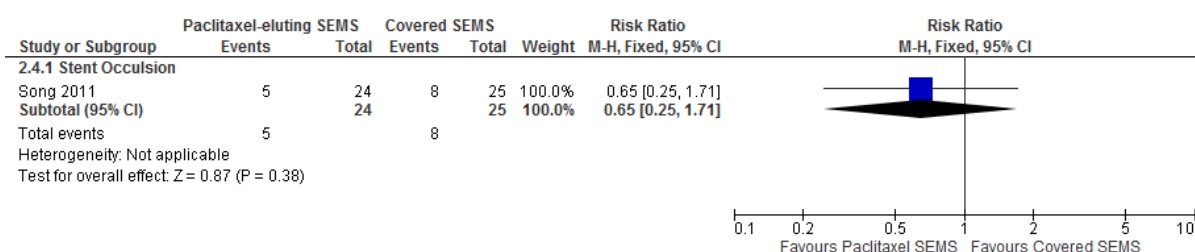
4

### 5 Figure 142: Overall survival



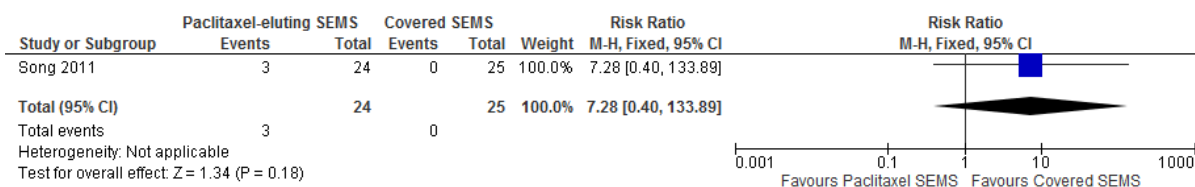
6

### 7 Figure 143: Stent dysfunction



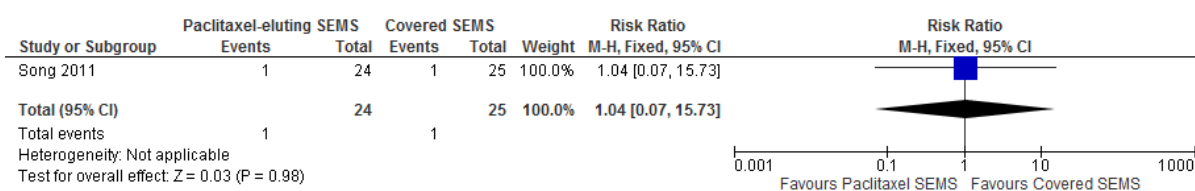
8

### 9 Figure 144: Cholangitis symptoms



10

### 11 Figure 145: Pancreatitis



12

## H.10.51 Preoperative endoscopic biliary drainage then surgery versus surgery in adults with suspected pancreatic cancer

Figure 146: Mortality at 120 days

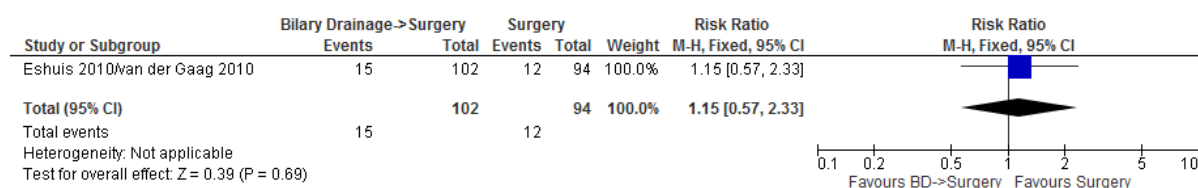


Figure 147: Mortality at 2 years

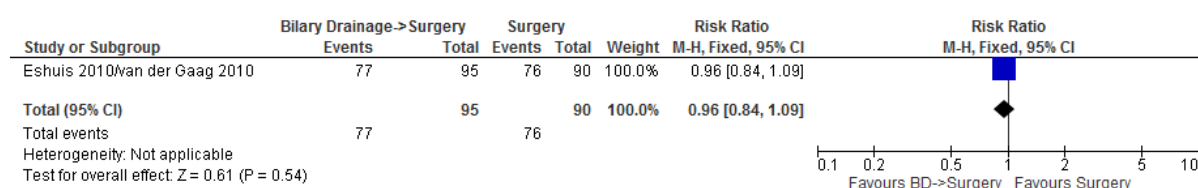


Figure 148: Treatment-related mortality

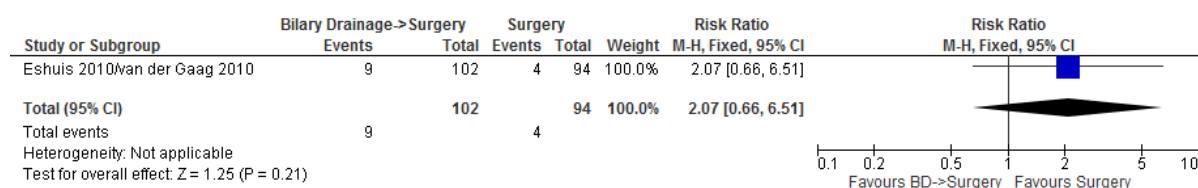


Figure 149: Overall survival at 2 years

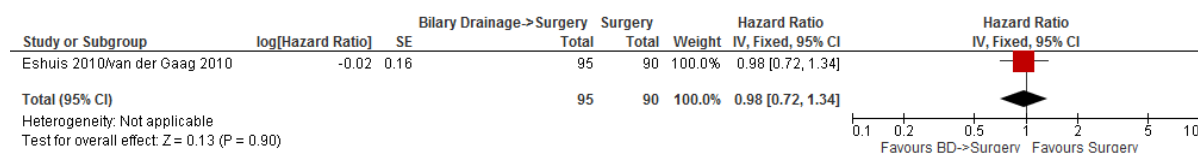
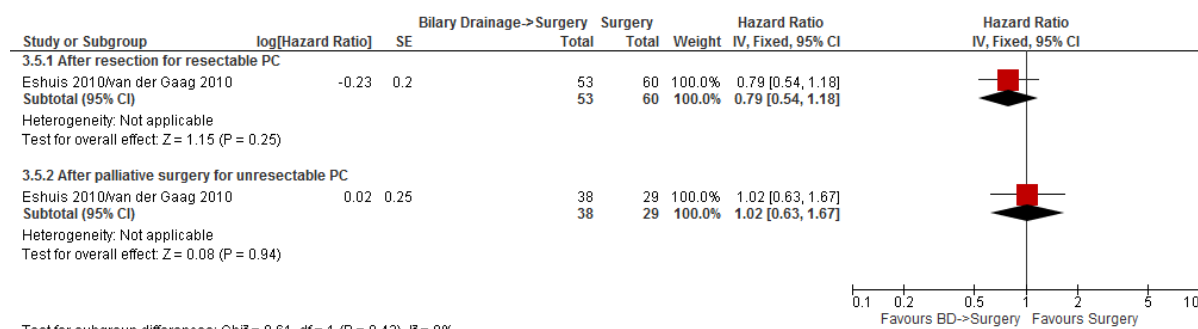
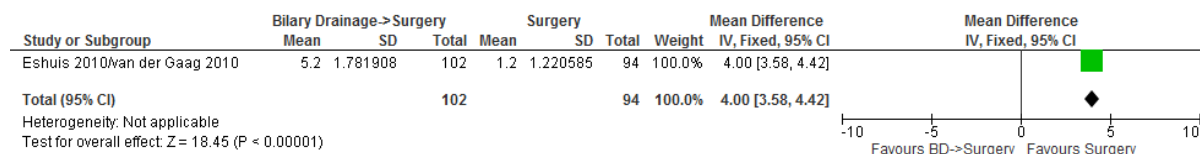


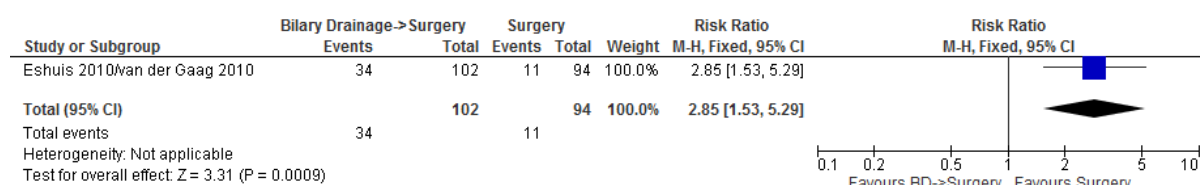
Figure 150: Overall survival at 2 years – subgroup analysis by type of surgery



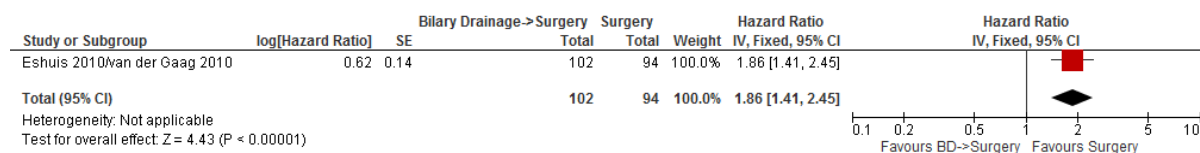
**Figure 151: Delay to surgery (weeks)**



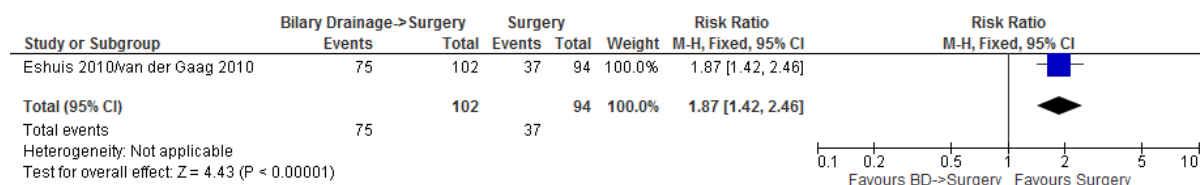
**Figure 152: Hospitalisation due to protocol-specific complications**



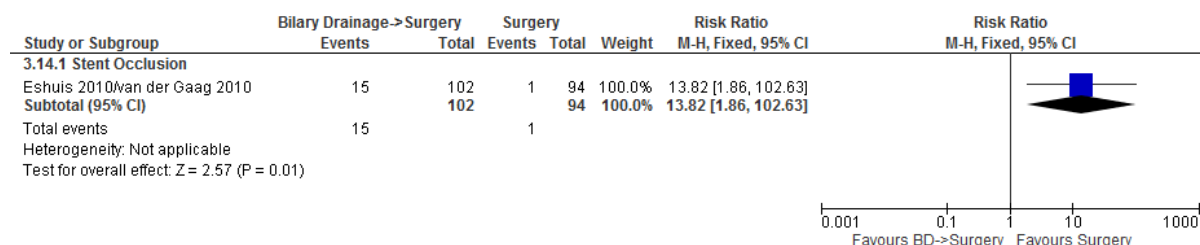
**Figure 153: Rate of serious complications (<120 days after randomisation)**



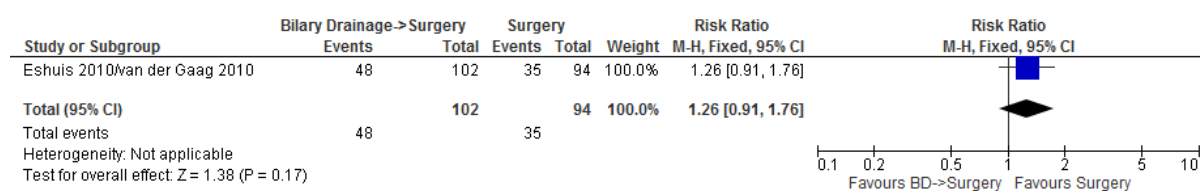
**Figure 154: Total number of patients with protocol-specific complications**



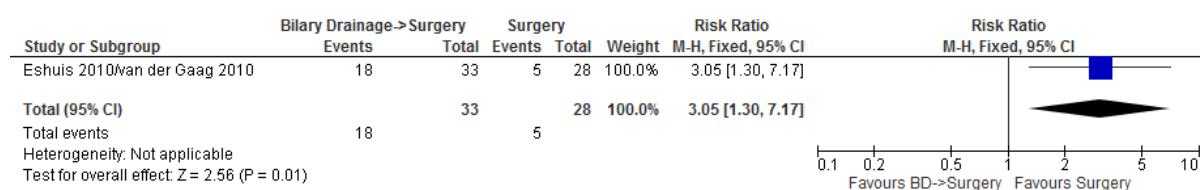
**Figure 155: Total number of patients with stent dysfunction**



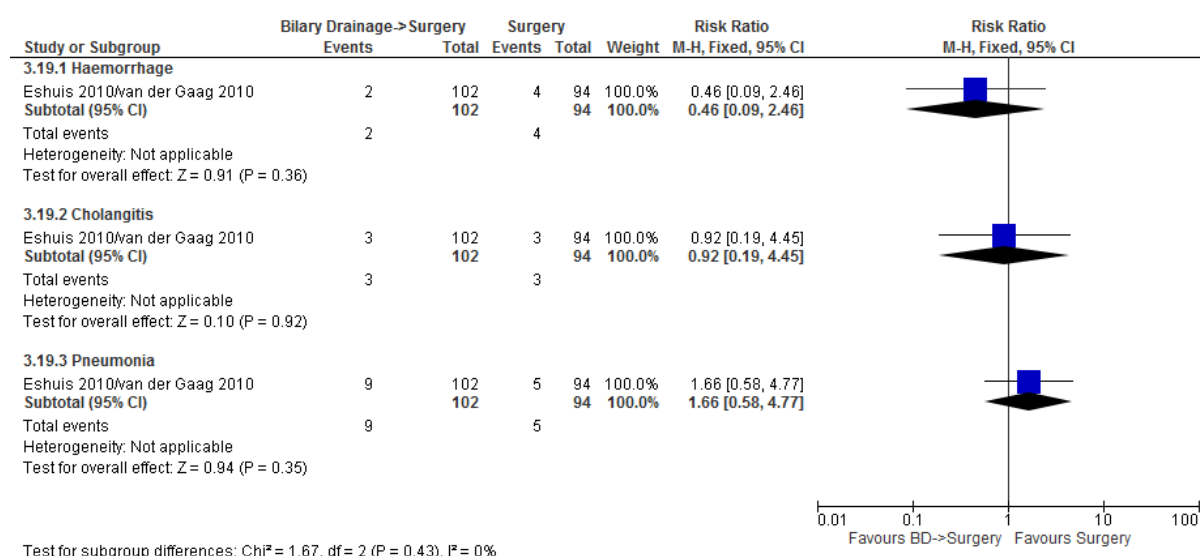
**Figure 156: Total number of patients with surgery-related complications**



**Figure 157: Total number of patients with surgery-related complications – after palliative bypass**

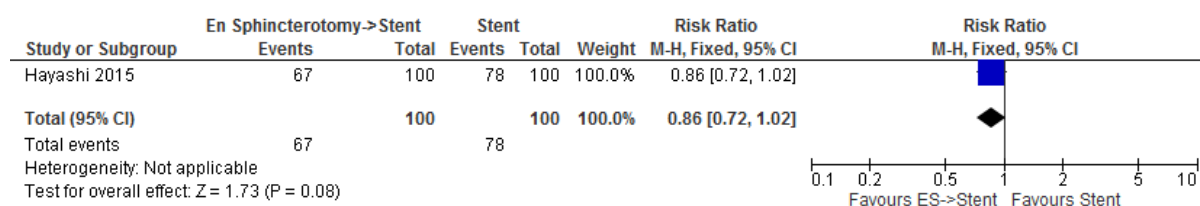


**Figure 158: Surgery-related adverse events**

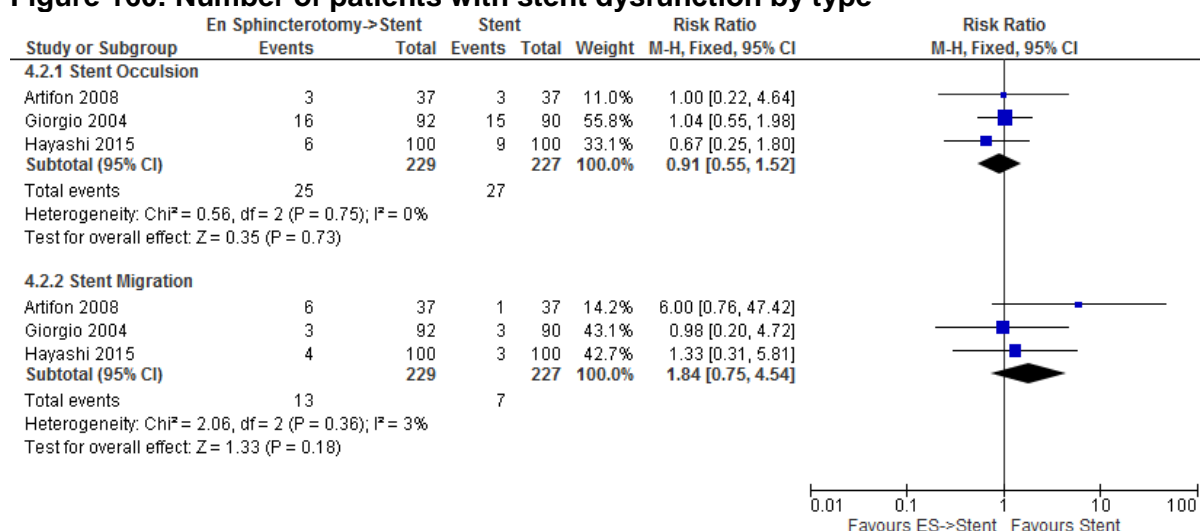


**H.10.61 Endoscopic sphincterotomy then stent versus stent in adults with  
2 unresectable pancreatic cancer**

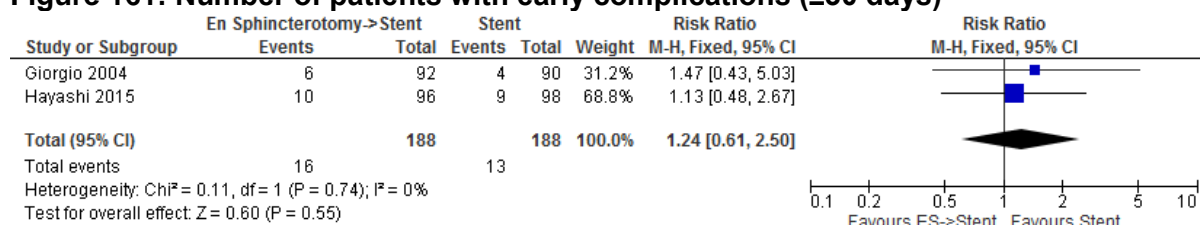
**Figure 159: Deaths due to progression of pancreatic cancer**



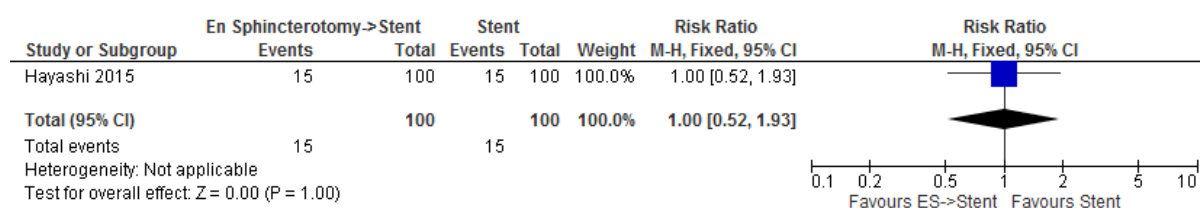
**Figure 160: Number of patients with stent dysfunction by type**



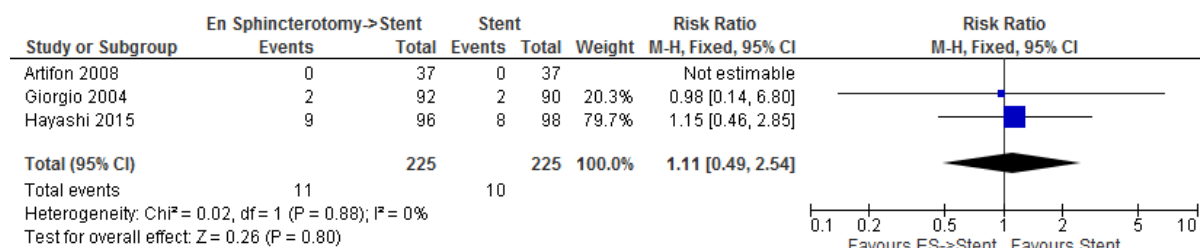
**Figure 161: Number of patients with early complications (≤30 days)**



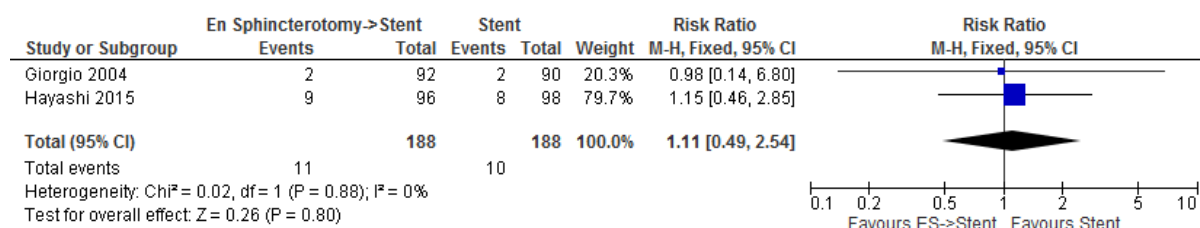
**Figure 162: Number of patients with stent-related early complications (≤30 days)**



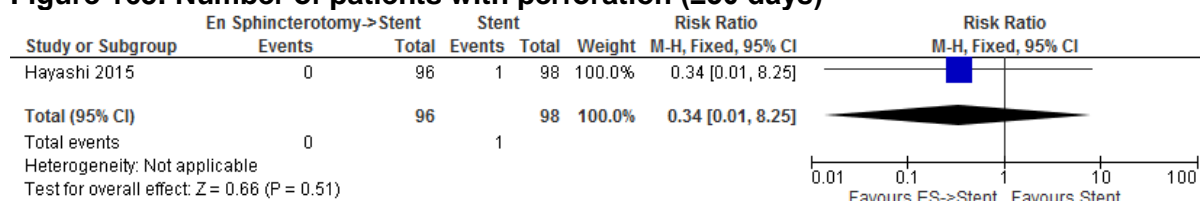
**Figure 163: Number of patients with pancreatitis (≤30 days)**



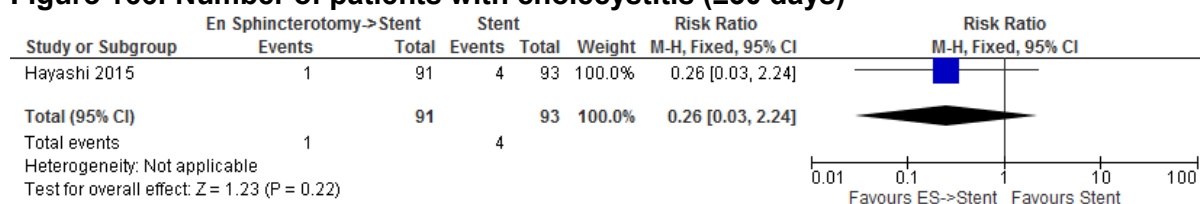
**Figure 164: Number of patients with stent-related pancreatitis (≤30 days)**



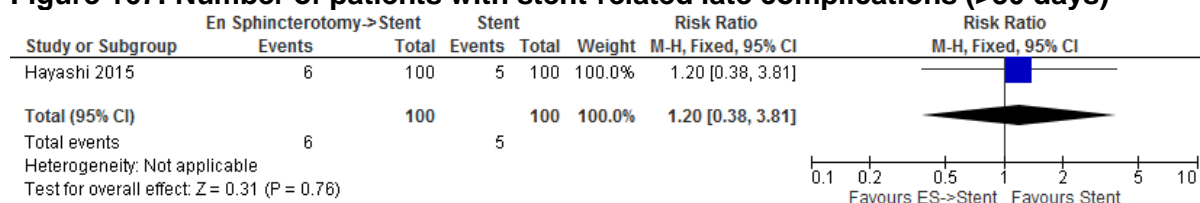
**Figure 165: Number of patients with perforation (≤30 days)**



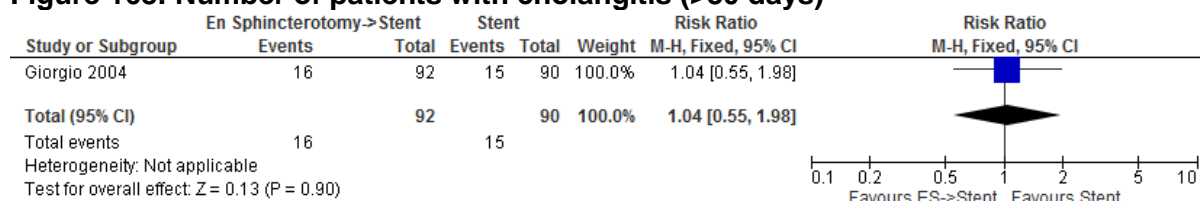
**Figure 166: Number of patients with cholecystitis (≤30 days)**



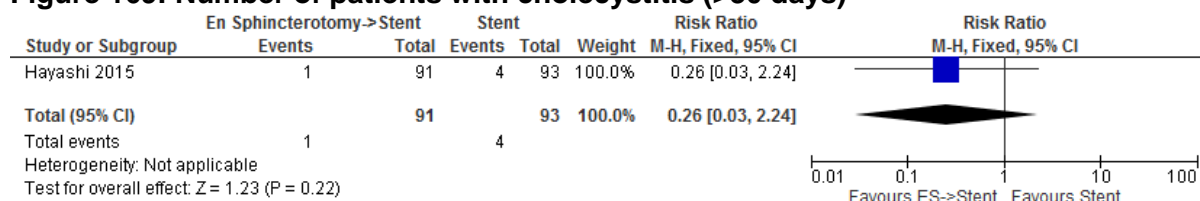
**Figure 167: Number of patients with stent-related late complications (>30 days)**



**Figure 168: Number of patients with cholangitis (>30 days)**

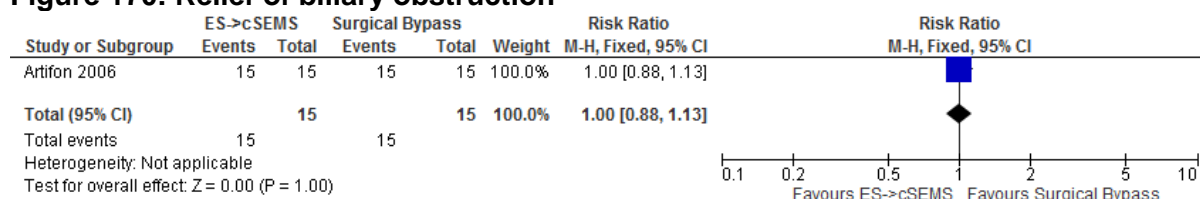


**Figure 169: Number of patients with cholecystitis (>30 days)**

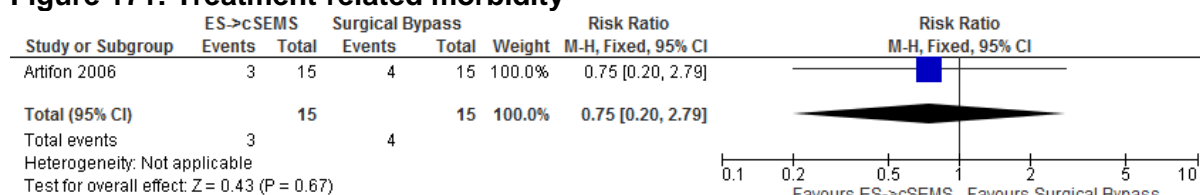


## H.10.71 Endoscopic sphincterotomy then stent versus surgical bypass in adults with 2 unresectable pancreatic cancer

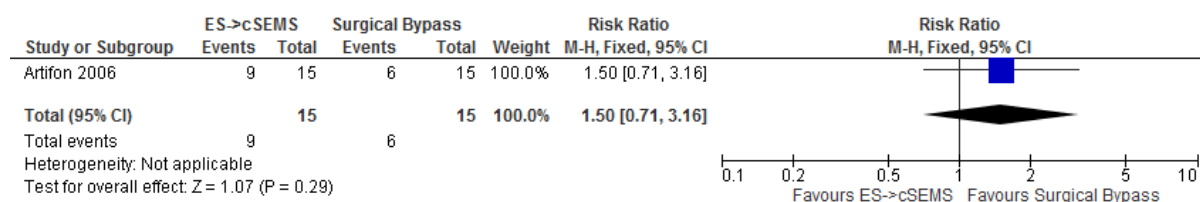
**Figure 170: Relief of biliary obstruction**



**Figure 171: Treatment-related morbidity**

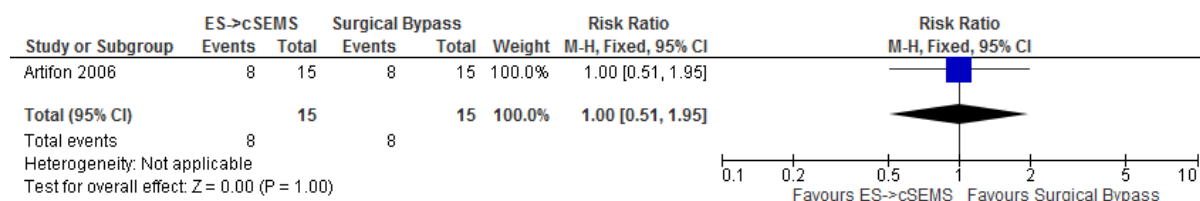


**Figure 172: Treatment-related hospitalisation**

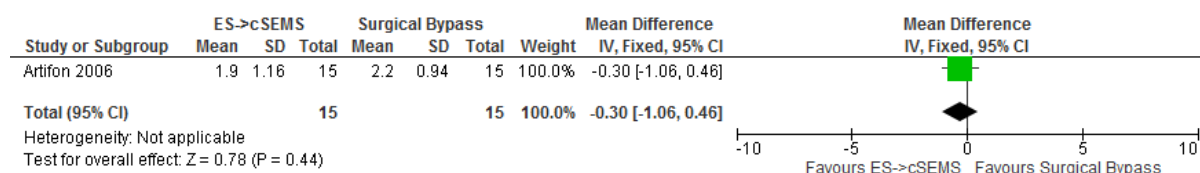




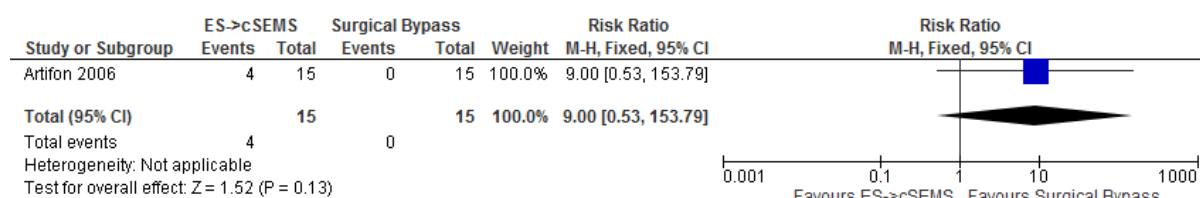
**Figure 173: Number of patients with bilirubin level <2.5 mg/dL at day 30**



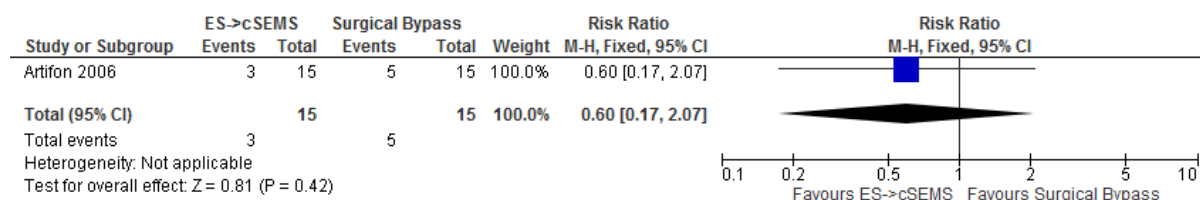
**Figure 174: Serum bilirubin level at 30 days**



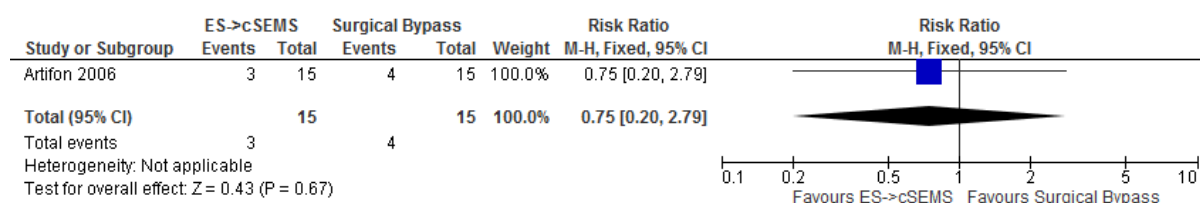
**Figure 175: Number of patients with stent-related complications**



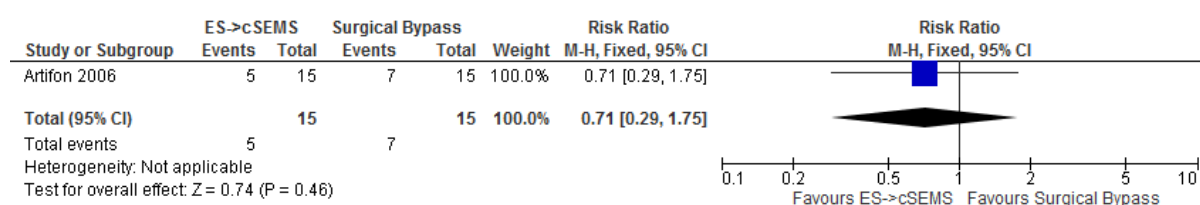
**Figure 176: Treatment-related early complications**



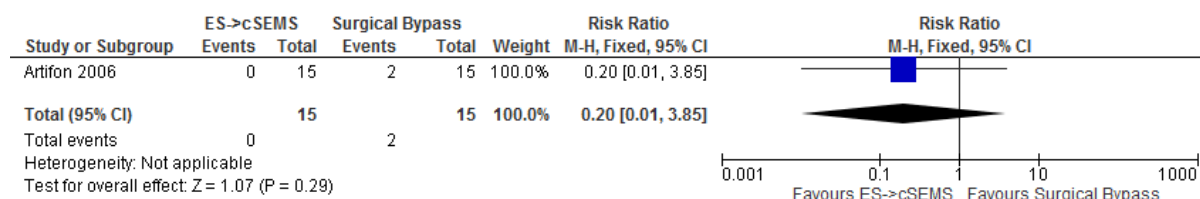
**Figure 177: Treatment-related late complications**



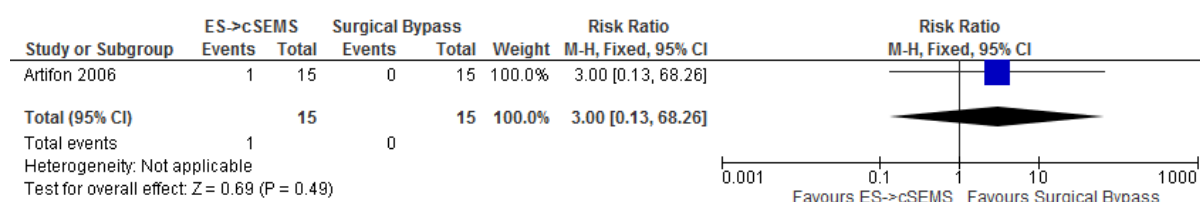
**Figure 178: Post-operative complications**



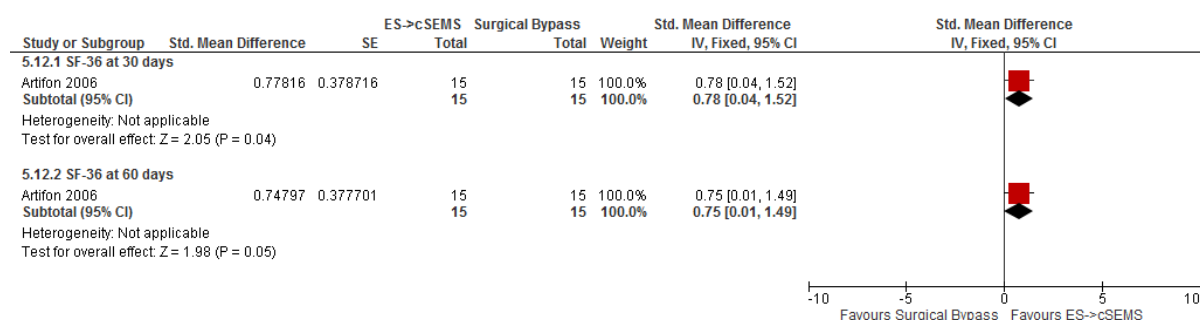
**Figure 179: Number of patients with pneumonia**



**Figure 180: Number of patients with post-ERCP pancreatitis**

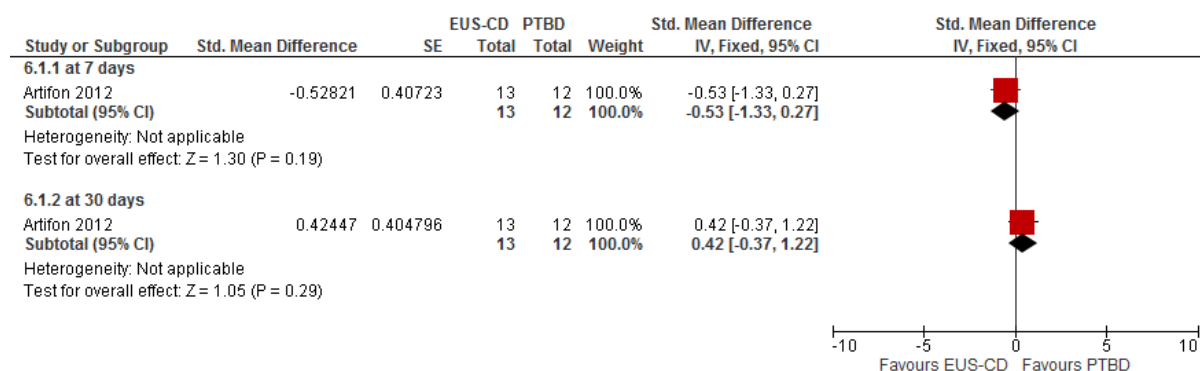


**Figure 181: SF-36 Total (Quality of life) at 30 and 60 days**

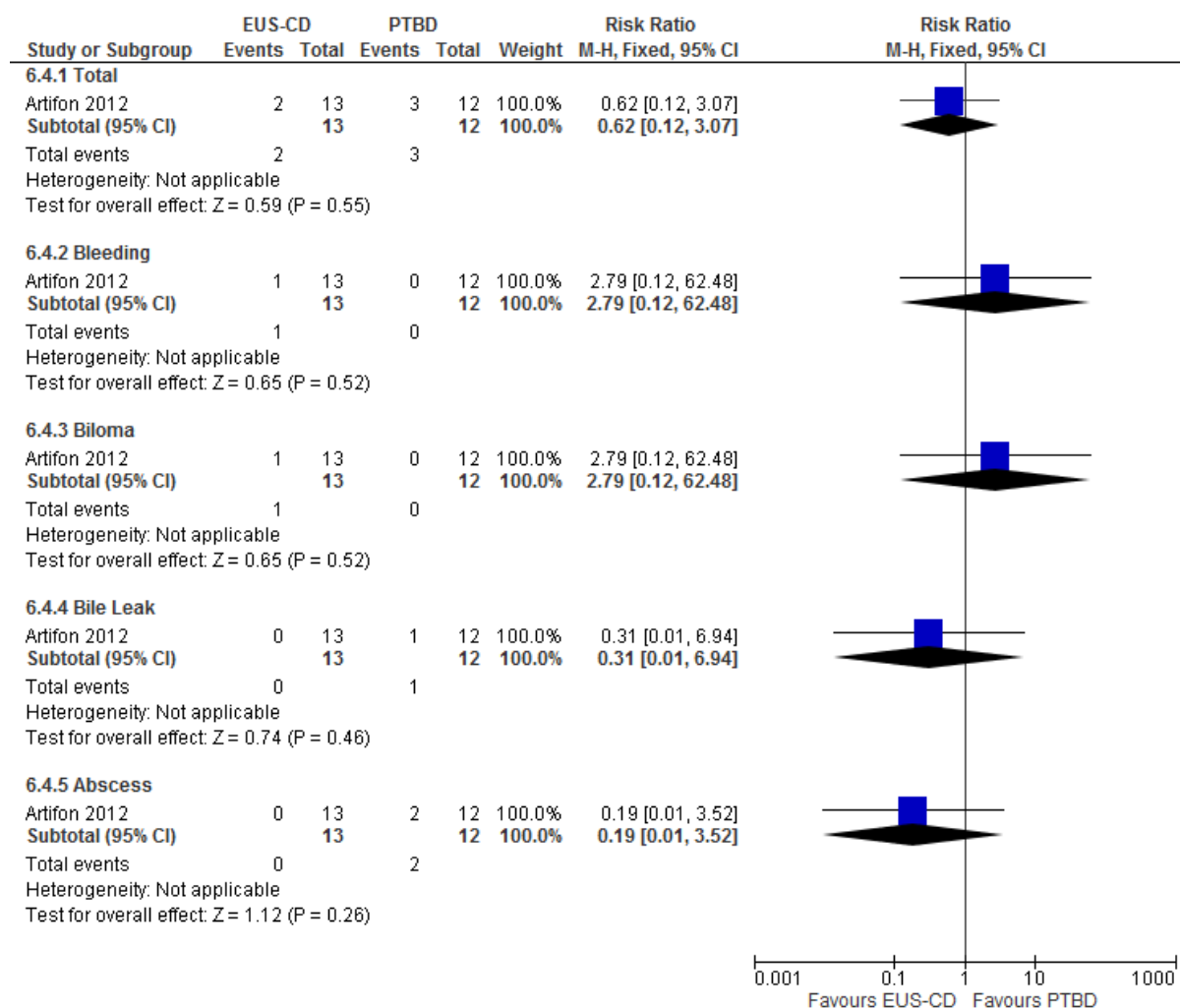


**H.10.81 Endoscopic ultrasound-guided choledochoduodenostomy and stent versus percutaneous transhepatic biliary drainage in adults with an unresectable malignant biliary obstruction where either ERCP or EUS-guided transpapillary rendezvous has failed**

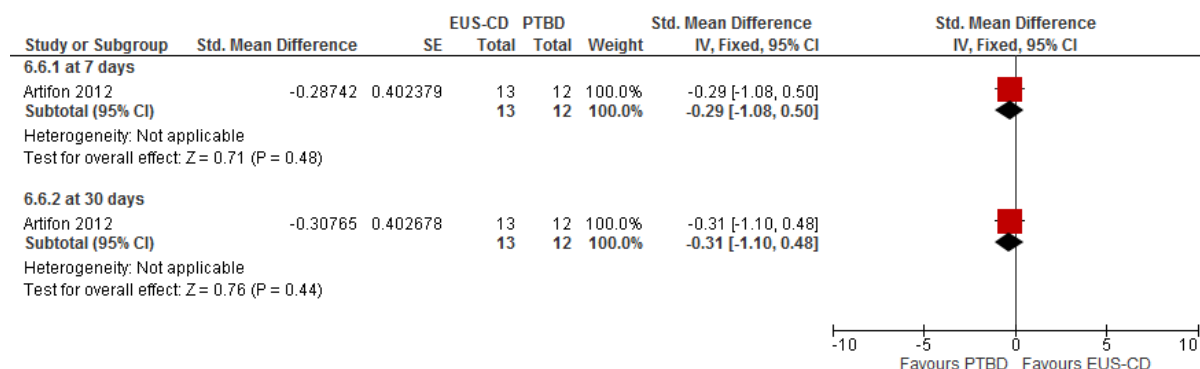
**Figure 182: Total serum bilirubin at 7 and 30 days**



**Figure 183: Treatment-related complications**



**Figure 184: SF-36 Total (Quality of life)**

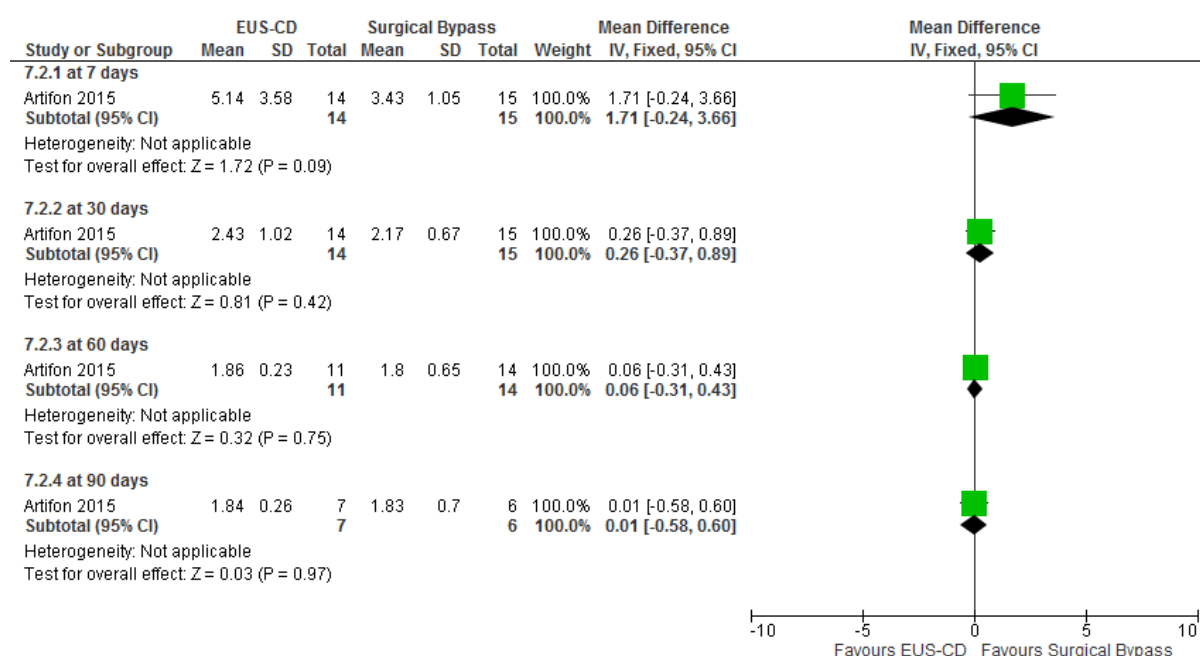


### H.10.91 Endoscopic ultrasound-guided cholecystoduodenostomy and stent versus surgical bypass in adults with an unresectable malignant biliary obstruction where ERCP has failed

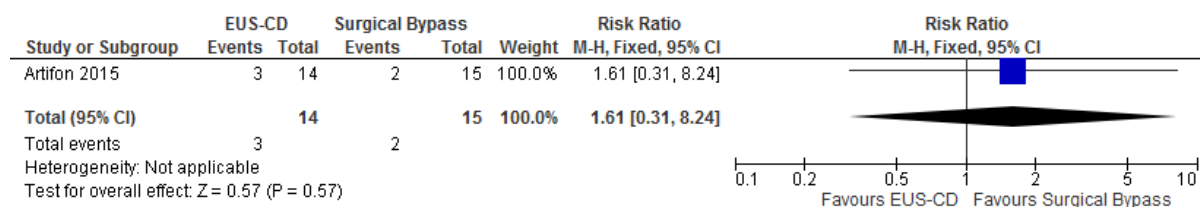
**Figure 185: Number of patients with  $\geq 50\%$  reduction in total serum bilirubin after 7 days**



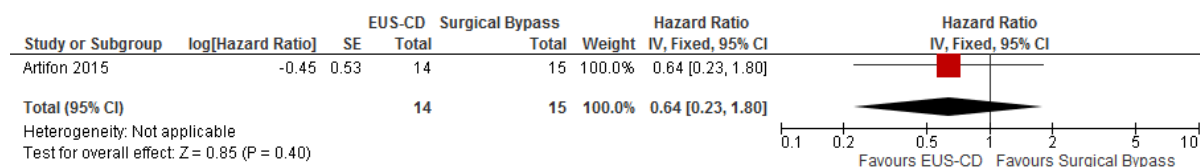
**Figure 186: Total serum bilirubin at 7, 30, 60 and 90 days**



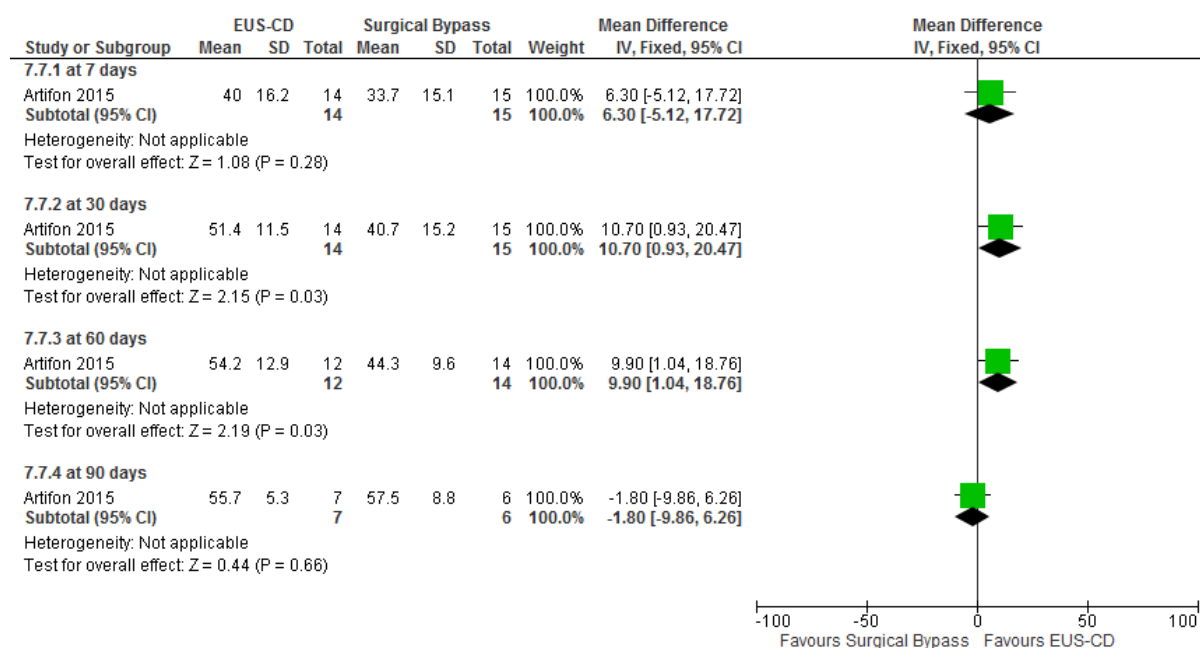
**Figure 187: Treatment-related complications**



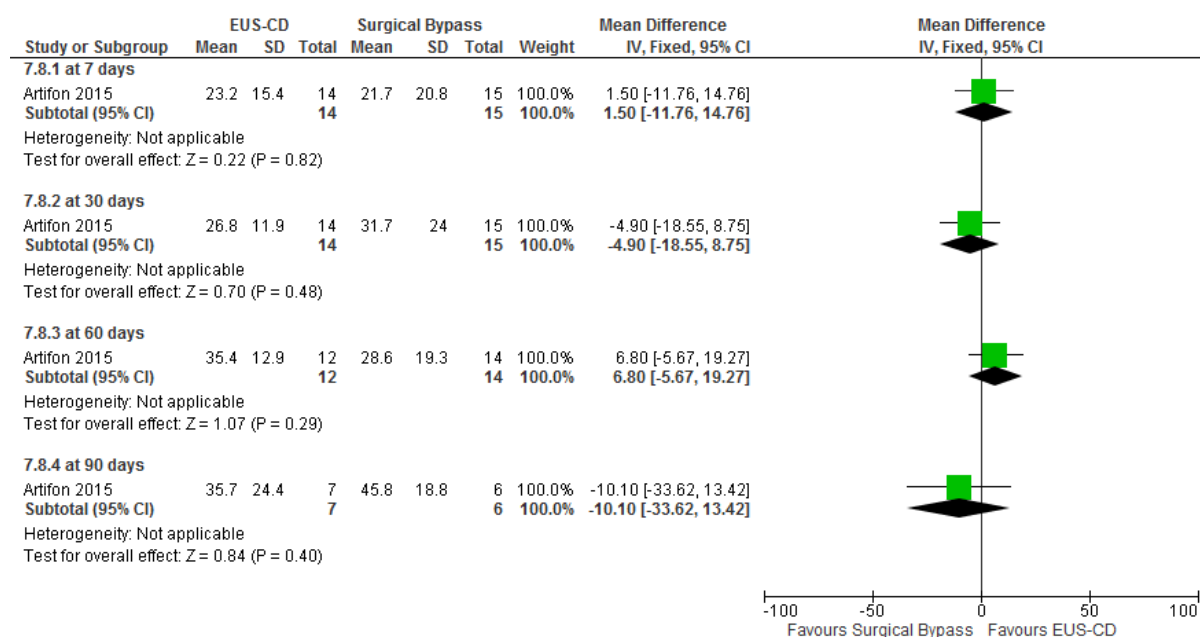
**Figure 188: Overall survival 90 days after surgery**



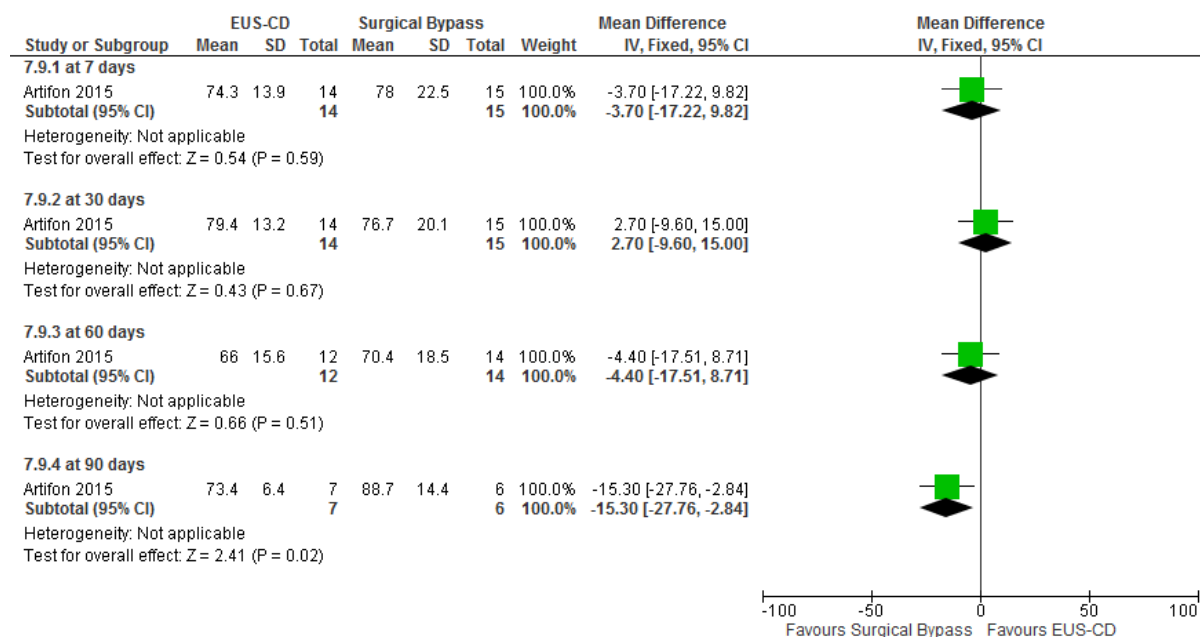
**Figure 189: SF-36 Functional capacity at 7, 30, 60 and 90 days**



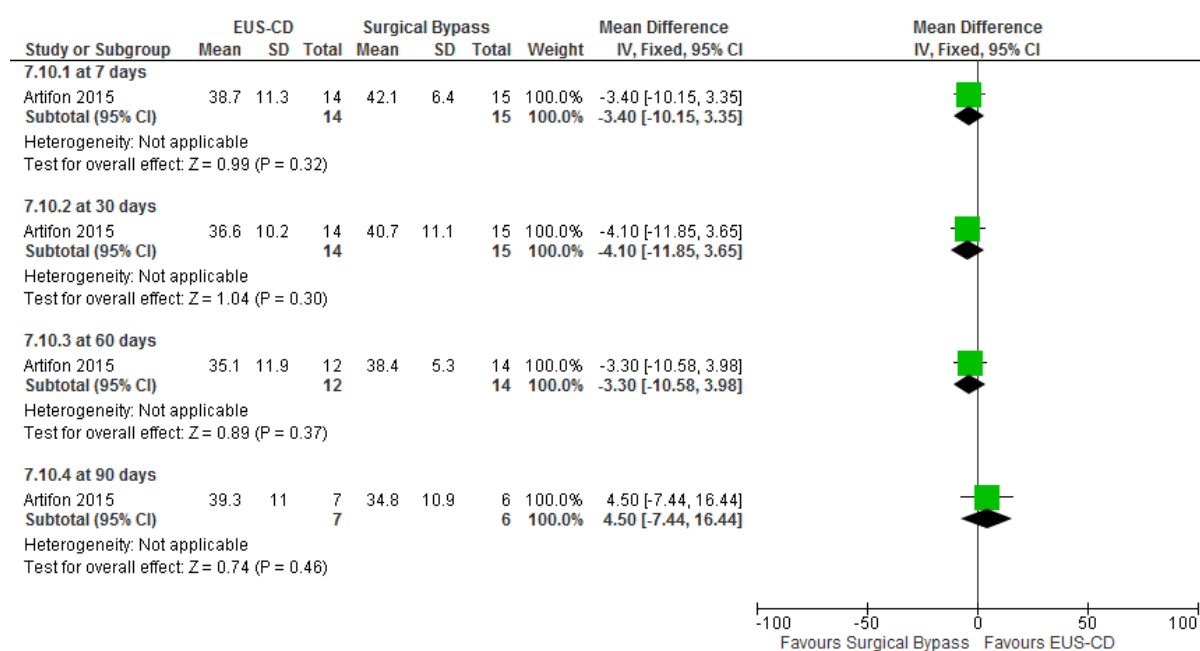
**Figure 190: SF-36 Physical health at 7, 30, 60 and 90 days**



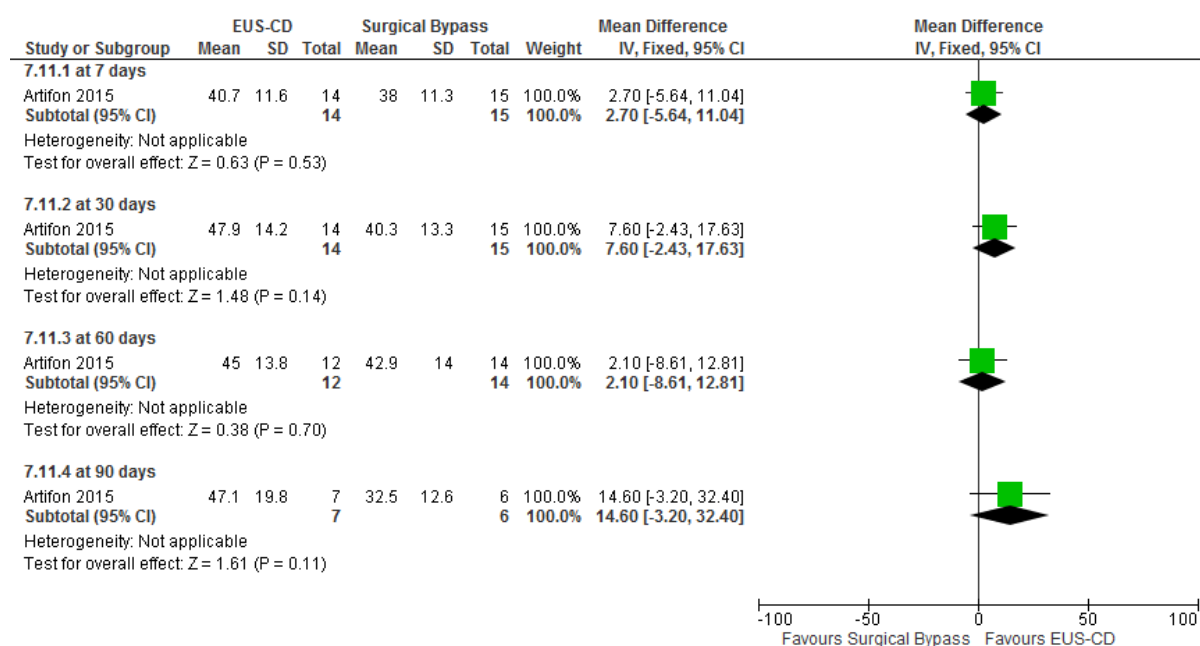
**Figure 191: SF-36 Pain at 7, 30, 60 and 90 days**



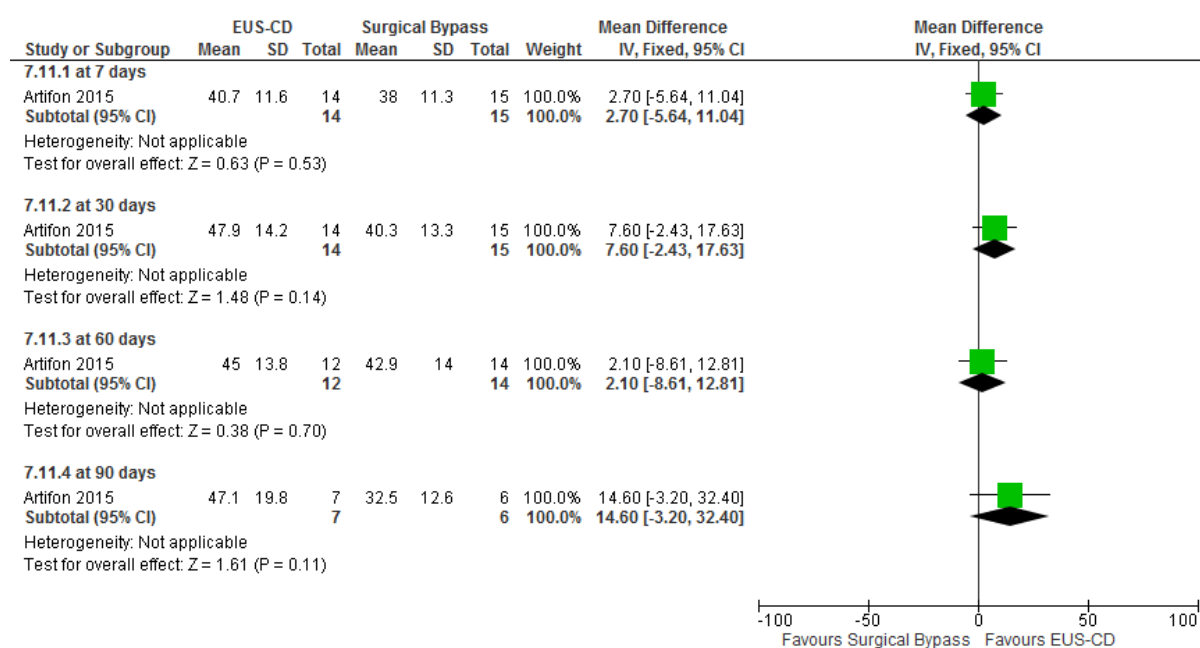
**Figure 192: SF-36 General health at 7, 30, 60 and 90 days**



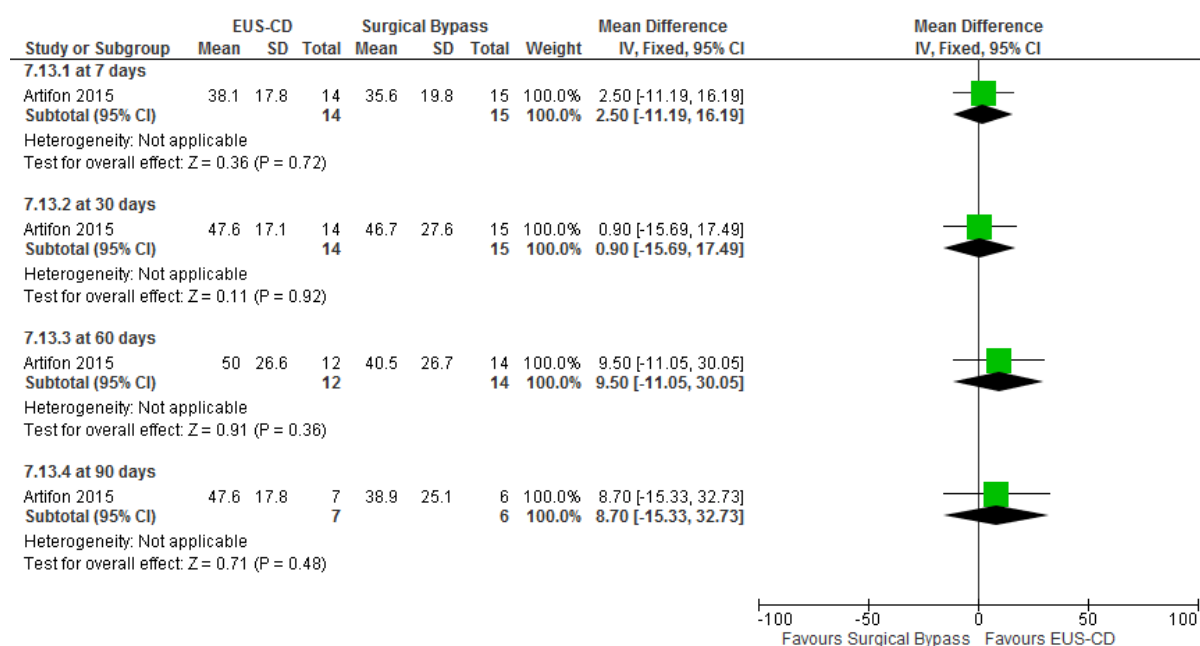
**Figure 193: SF-36 Vitality at 7, 30, 60 and 90 days**



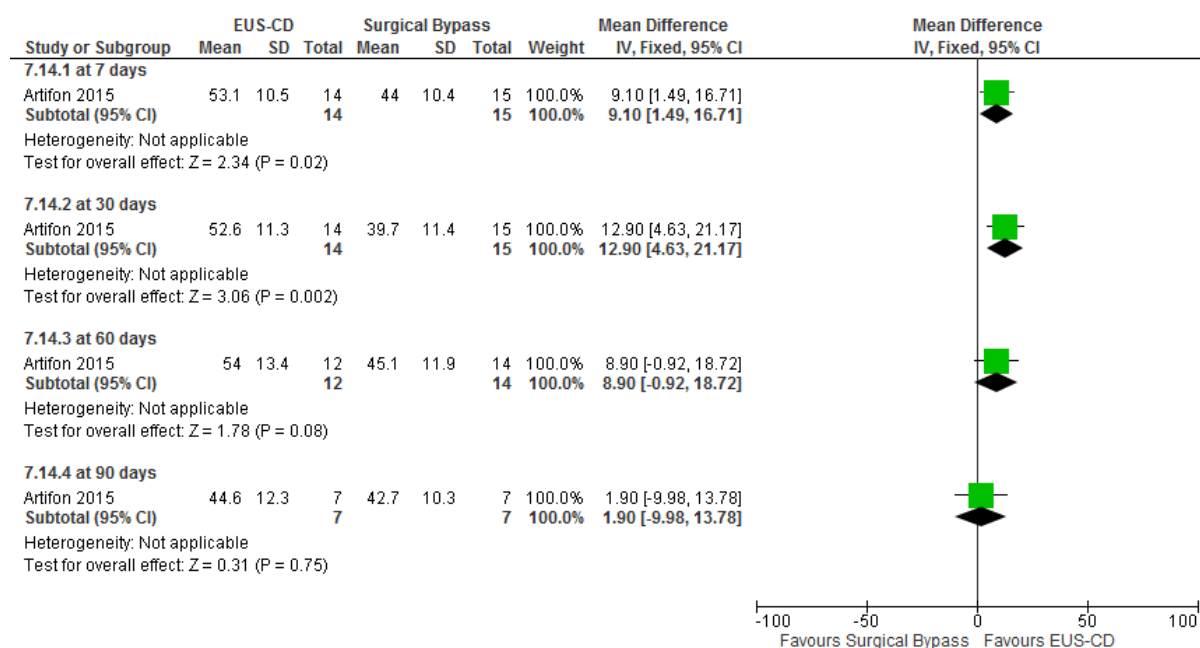
**Figure 194: SF-36 Social role functioning at 7, 30, 60 and 90 days**



**Figure 195: SF-36 Emotional role functioning at 7, 30, 60 and 90 days**



**Figure 196: SF-36 Mental Health at 7, 30, 60 and 90 days**

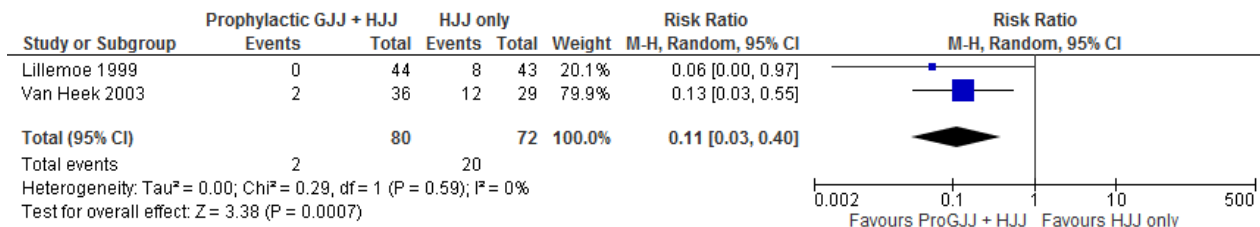




## H.11.1 Duodenal obstruction

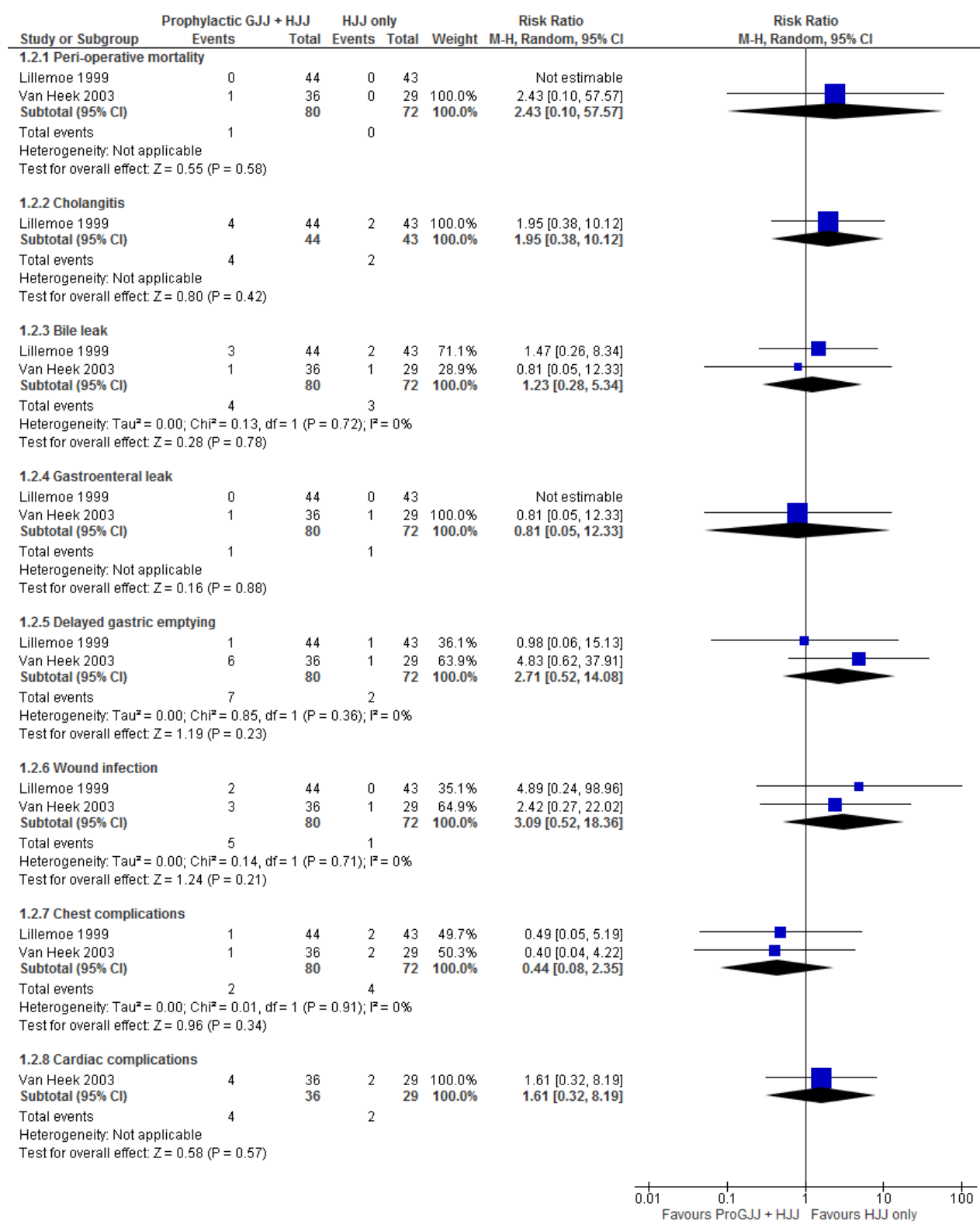
### H.11.1.2 Prophylactic GJJ and hepaticojejunostomy versus hepaticojejunostomy only

#### 3 Figure 197: Gastric outlet obstruction at 1 month



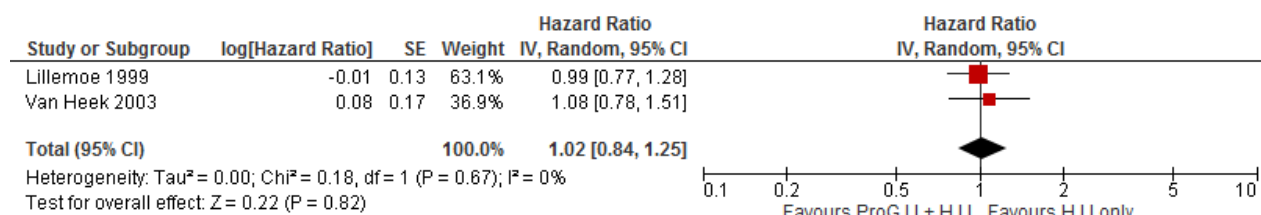
4

# 1 Figure 198: Adverse events (Perioperative morbidity)



2

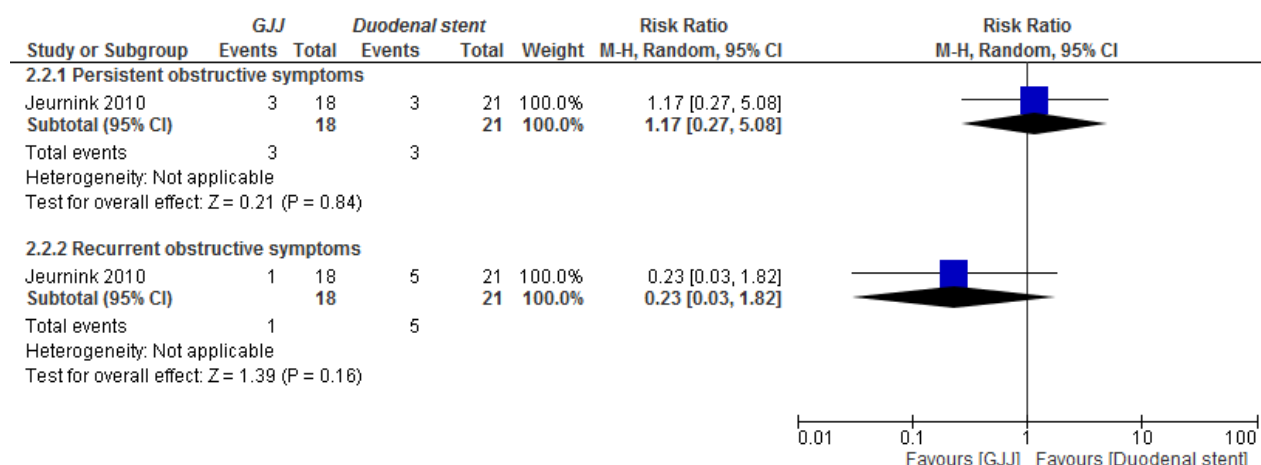
## 1 Figure 199: Overall survival



2

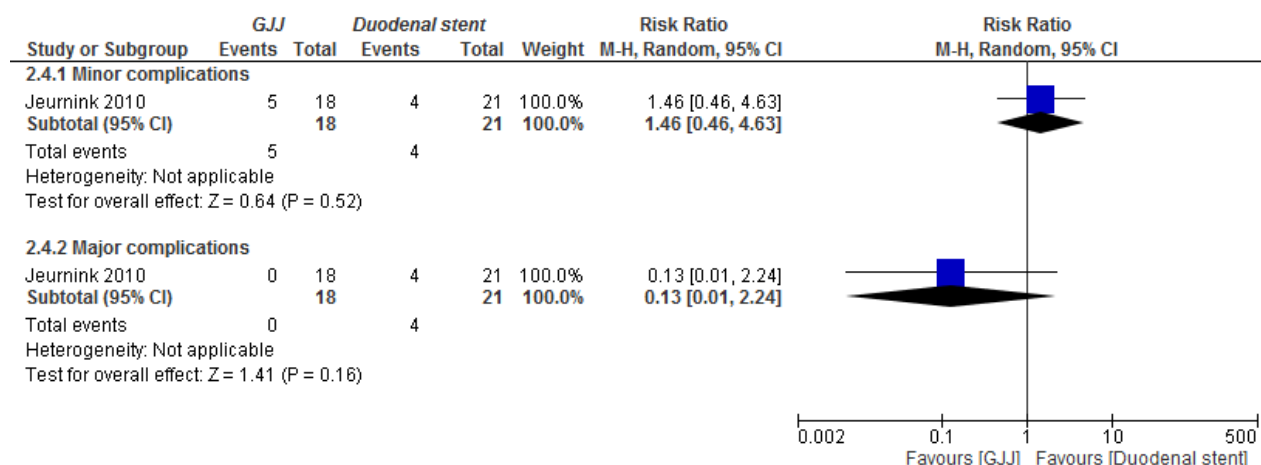
## H.11.23 GJJ versus duodenal stent placement

### 4 Figure 200: Change in symptoms - Persistent obstructive symptoms



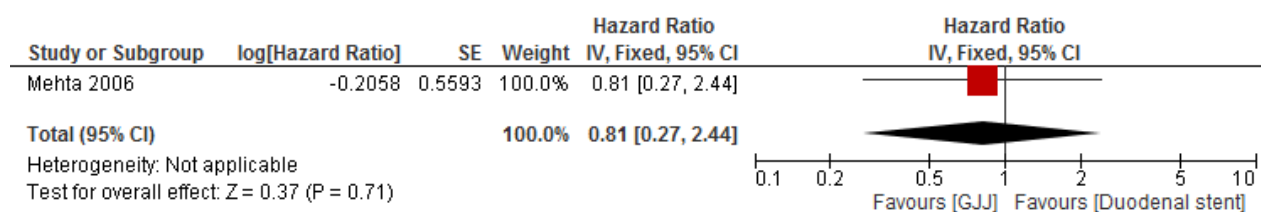
5 Test for subgroup differences: Chi<sup>2</sup> = 1.56, df = 1 (P = 0.21), I<sup>2</sup> = 35.9%

### 6 Figure 201: Adverse effects – Minor and Major complications



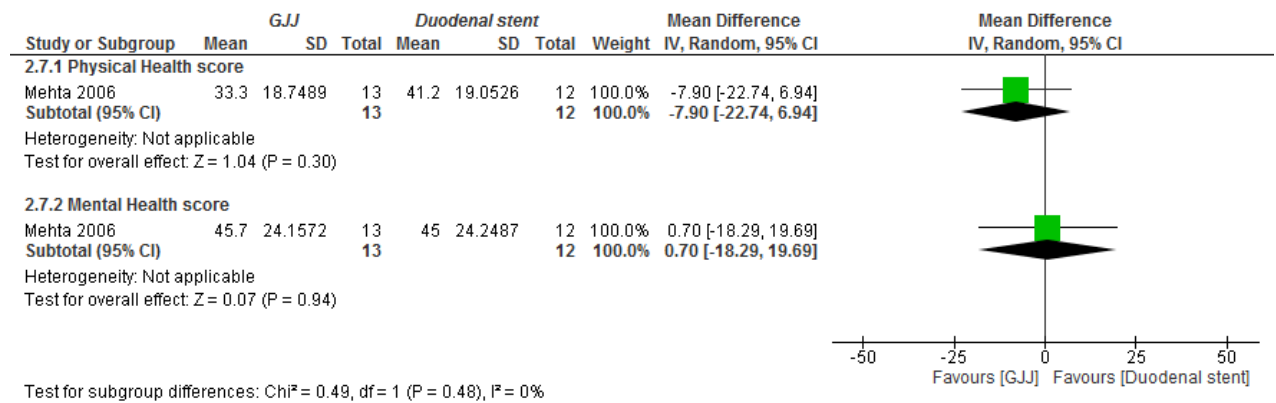
7 Test for subgroup differences: Chi<sup>2</sup> = 2.39, df = 1 (P = 0.12), I<sup>2</sup> = 58.1%

### 8 Figure 202: Overall survival



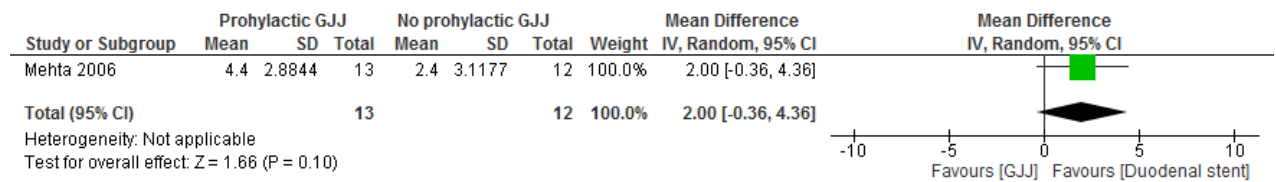
9

### 1 Figure 203: Health-related Quality of Life: SF-36 at 1 month



2

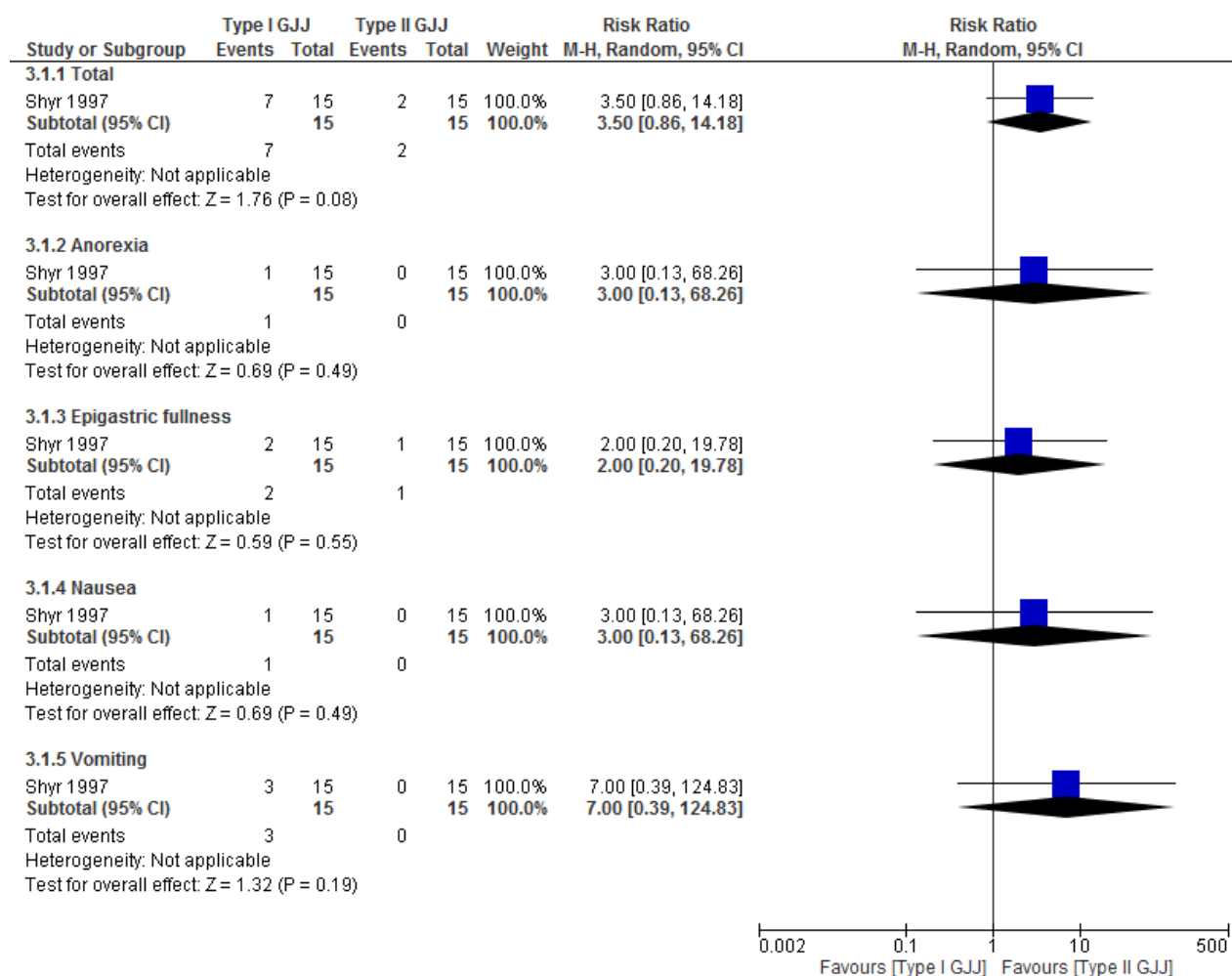
### 3 Figure 204: PROMS - Self-report Pain (Visual Analog Scale) at 1 month



4

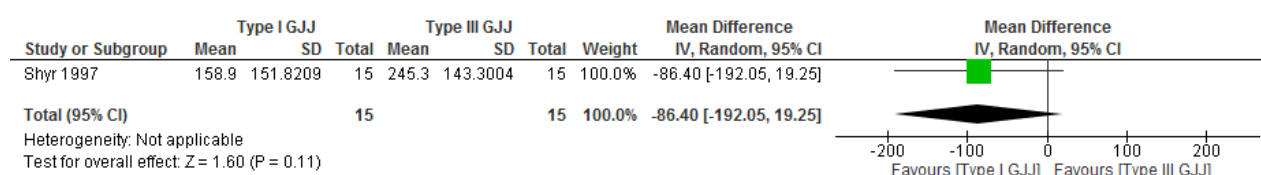
### H.11.31 Type I GJJ (proximal to the Jejunal limb: Ligament of Treitz) versus Type II GJJ (Pylorus)

#### 3 Figure 205: Change in symptoms (Clinical symptoms of GOO)



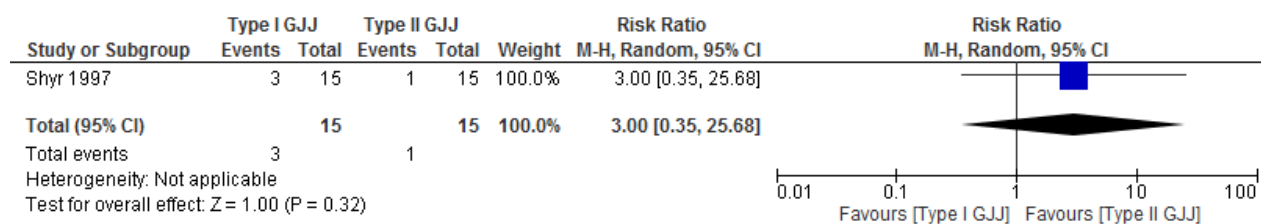
4

#### 5 Figure 206: Nutritional status - Gastric emptying time (minutes)



6

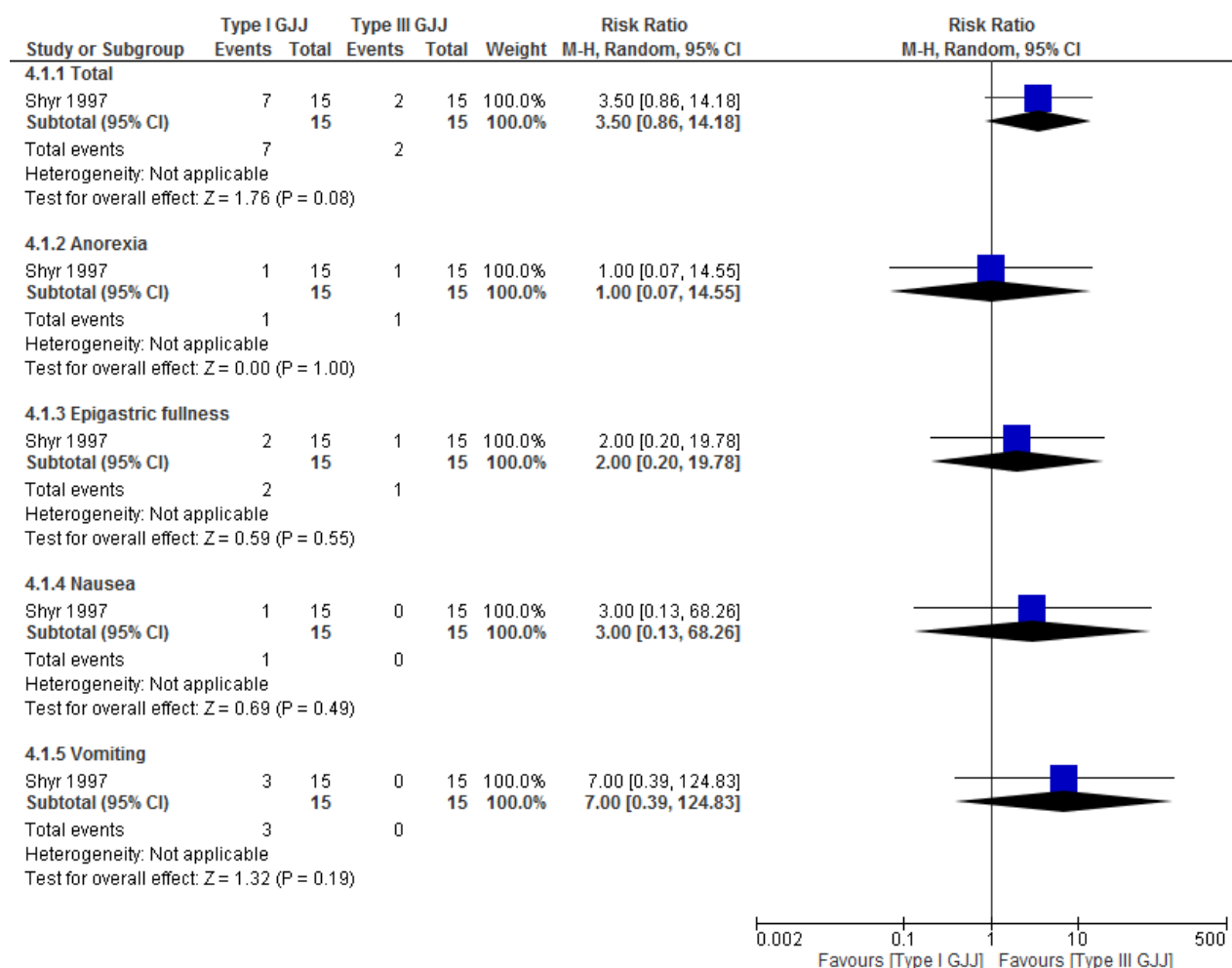
#### 7 Figure 207: Nutritional status - Patients with delayed gastric emptying



8

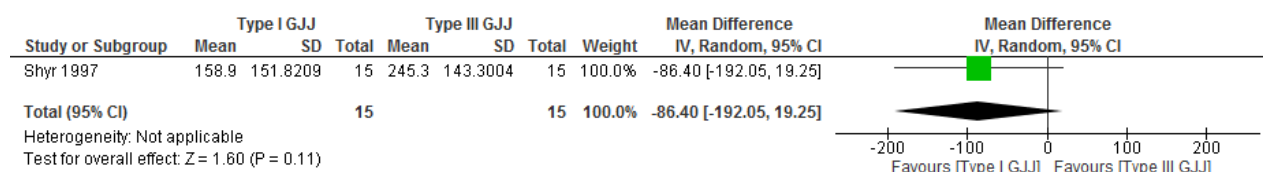
## H.11.41 Type I GJJ (proximal to the Jejunal limb: Ligament of Treitz) versus Type III GJJ (proximal to Roux-limb Jejunum)

### 3 Figure 208: Change in symptoms (Clinical symptoms of GOO)



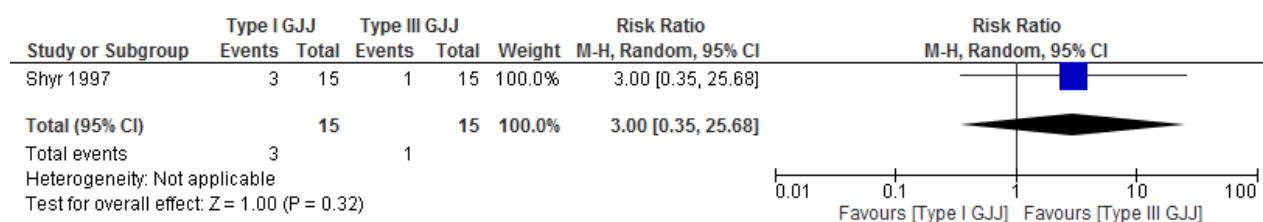
4

### 5 Figure 209: Nutritional status - Gastric emptying time (minutes)



6

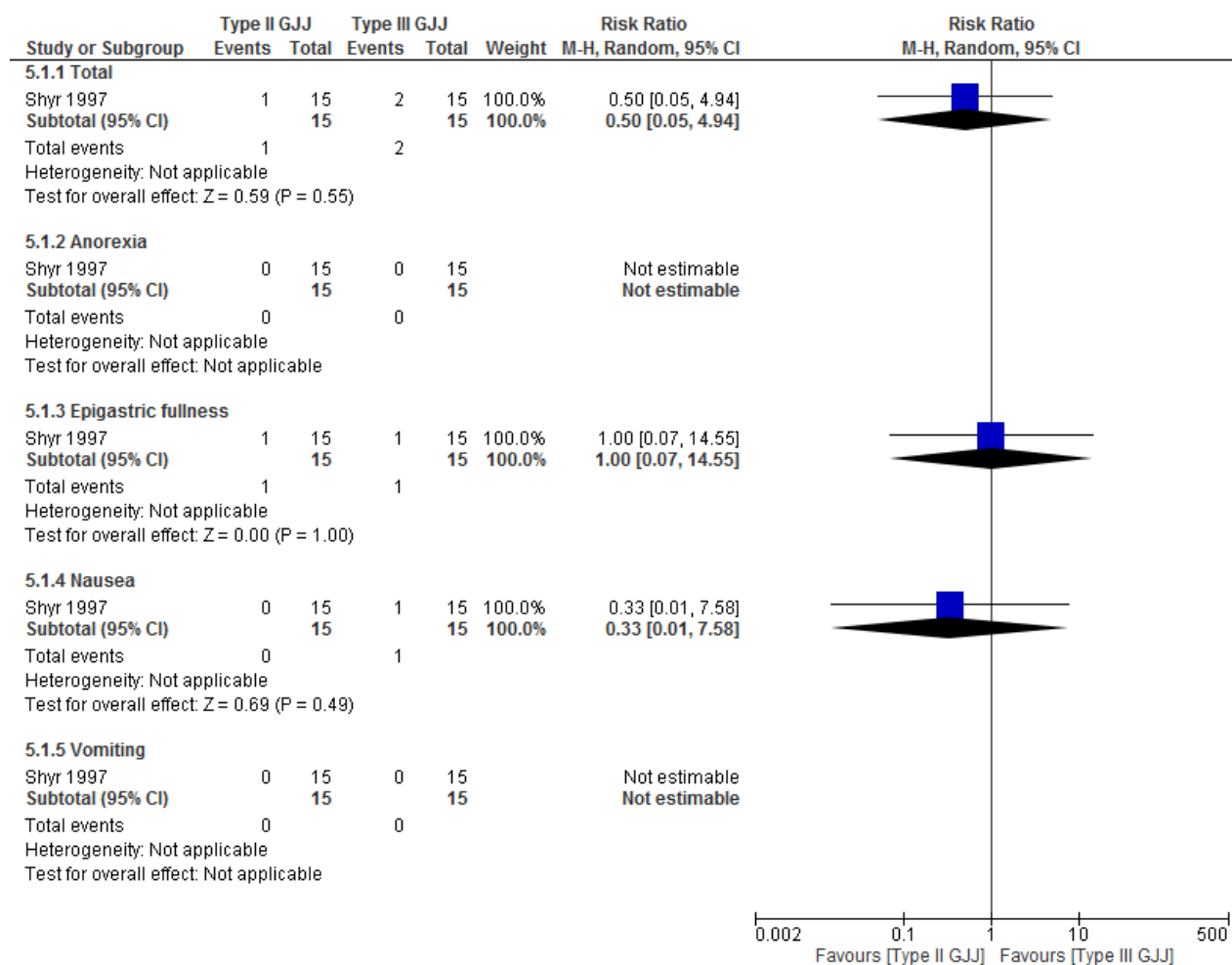
### 7 Figure 210: Nutritional status - Patients with delayed gastric emptying



8

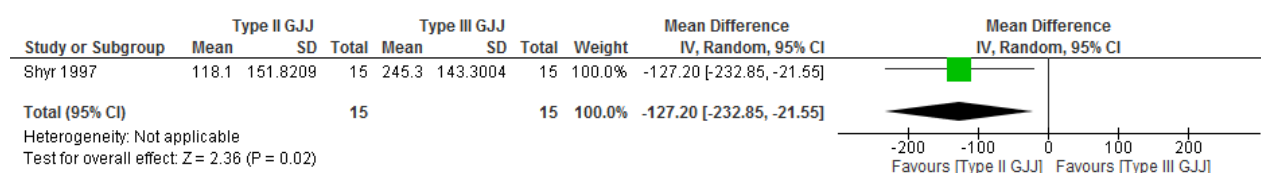
## H.11.51 Type II GJJ (Pylorus) versus Type III GJJ (proximal to Roux-limb Jejunum)

### 2 Figure 211: Change in symptoms (Clinical symptoms of GOO)



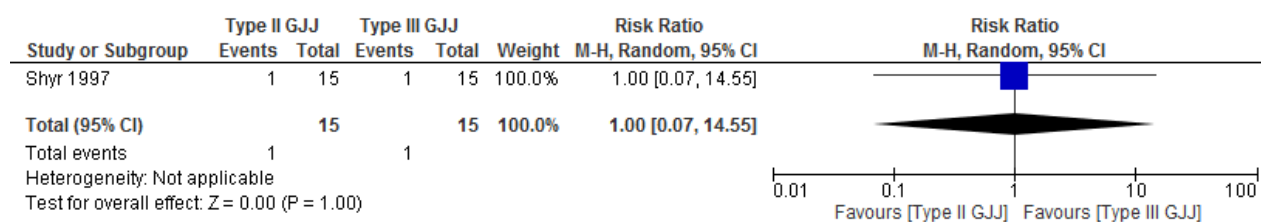
3

### 4 Figure 212: Nutritional status - Gastric emptying time (minutes)



5

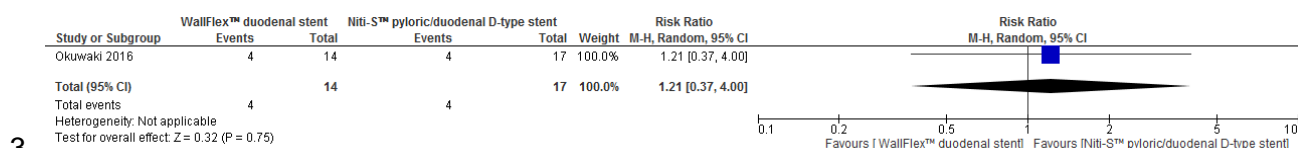
### 6 Figure 213: Nutritional status - Patients with delayed gastric emptying



7

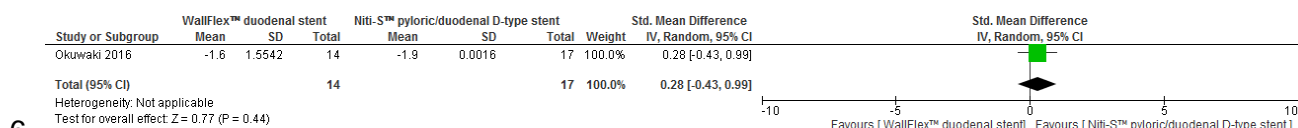
## H.11.61 Duodenal stent-1 versus duodenal stent-2

### 2 Figure 214: Relief of obstruction - Duodenal obstruction recurrence



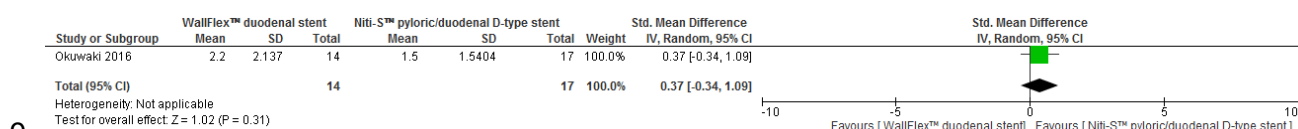
3

### 4 Figure 215: Change in symptoms - Mean change in Nausea and Vomiting Scoring System (NVSS) score



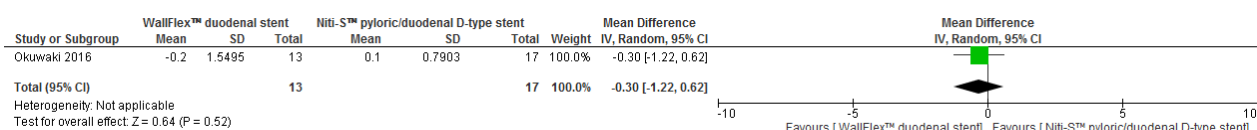
6

### 7 Figure 216: Nutritional status - Mean change in gastric outlet obstruction (GOO) score at 2 weeks recurrence



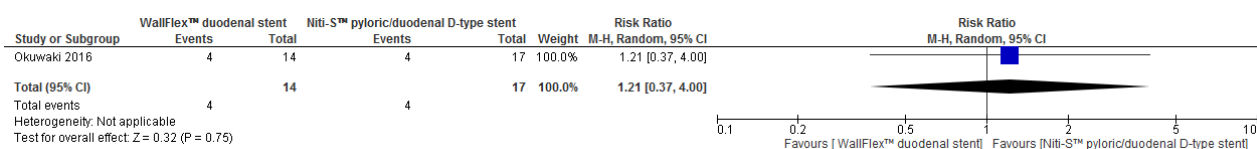
9

### 10 Figure 217: Nutritional status- Mean change in BMI at 4 weeks



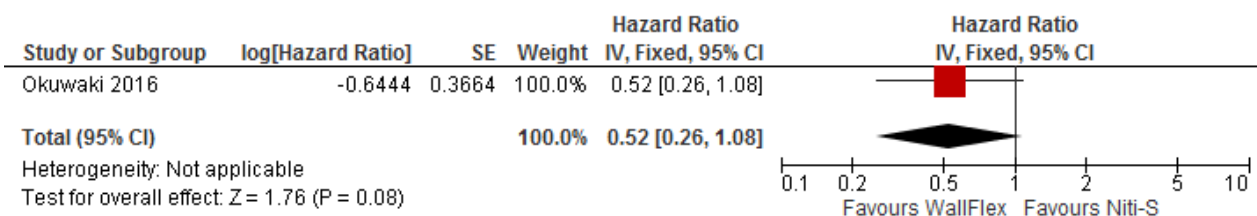
11

### 12 Figure 218: Adverse events (procedure-related)



13

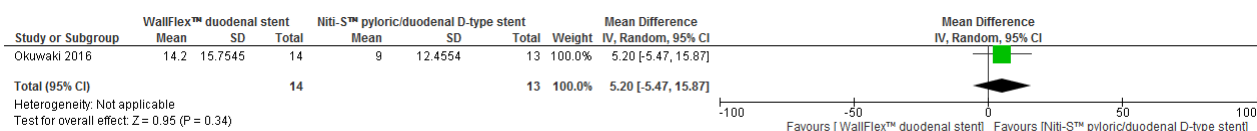
### 14 Figure 219: Overall survival



15

16

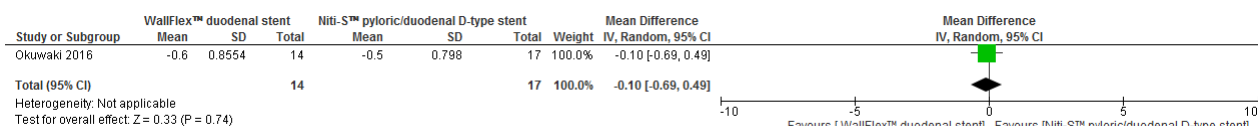
### 17 Figure 220: HRQL - Mean change in Karnofsky performance score at 2 weeks



18



## 1 Figure 221: HRQL - Mean change in Performance score at 2 weeks

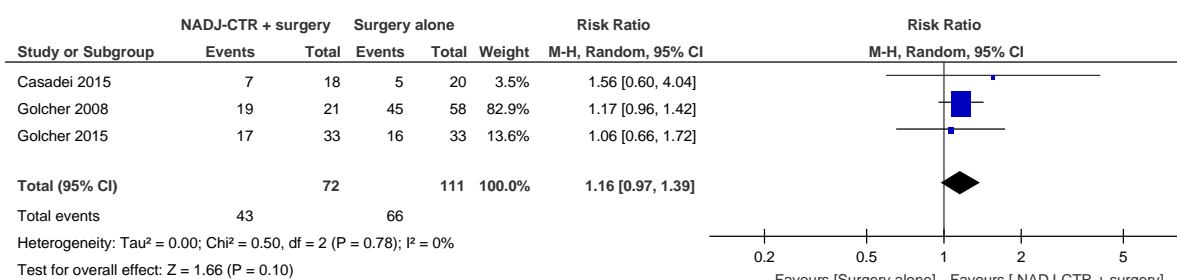


2

## H.12.3 Neo-adjuvant treatment

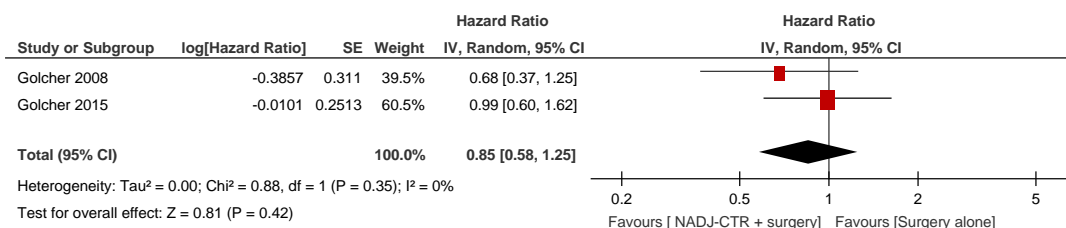
### H.12.14 Neoadjuvant chemoradiotherapy followed by surgery versus surgery alone in adults with resectable pancreatic cancer

## 6 Figure 222: R0 resection rate



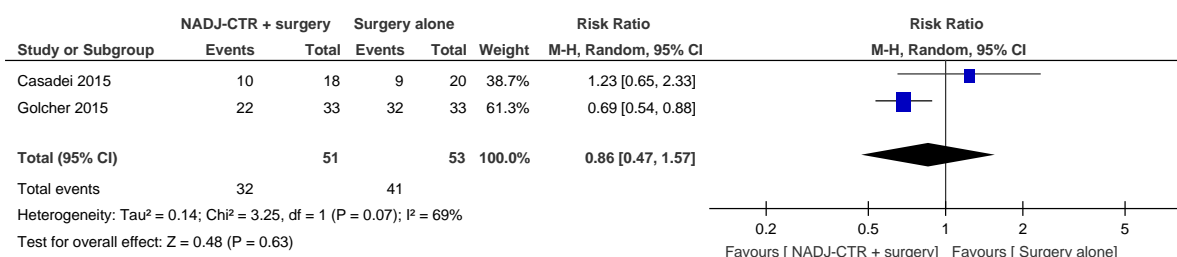
7

## 8 Figure 223: Overall survival



9

## 10 Figure 224: Postoperative complications



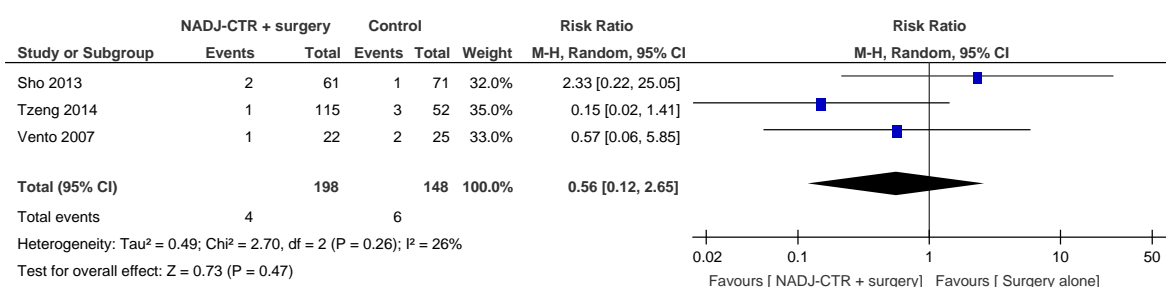
11

## 12 Figure 225: Postoperative complications (Pancreatic fistula)



13

## 1 Figure 226: Postoperative complications (Postoperative bleeding)



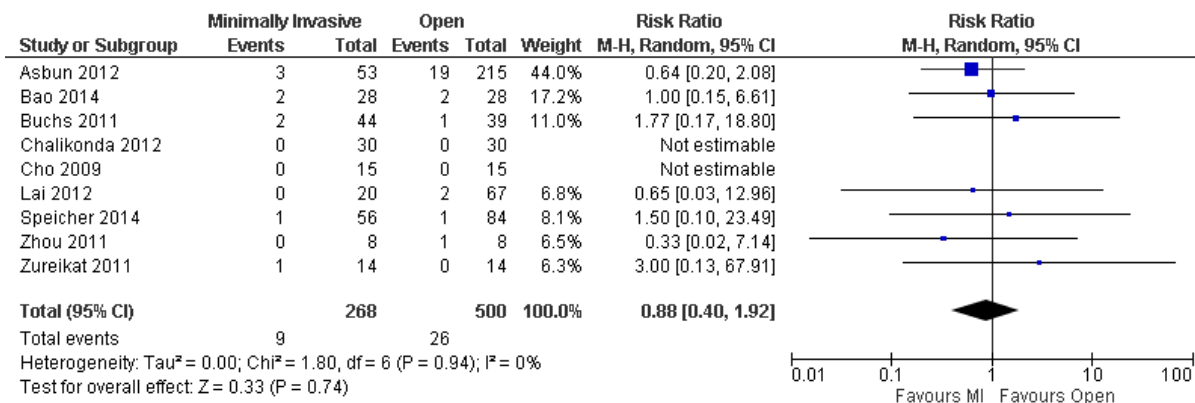
2

3

## H.13.4 Resectable and borderline resectable pancreatic cancer

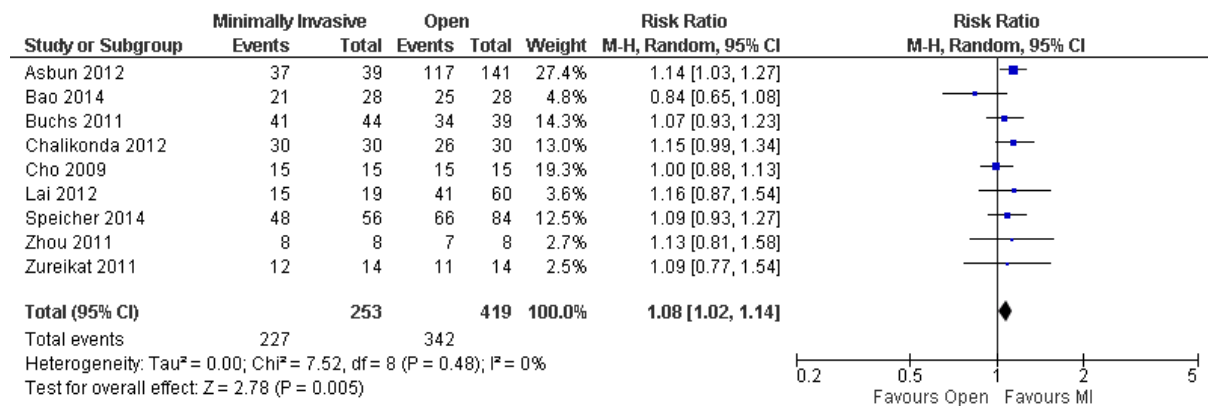
### H.13.15 Minimally invasive (laparoscopic and robotic) pancreaticoduodenectomy 6 versus open pancreaticoduodenectomy

## 7 Figure 227: Postoperative Mortality



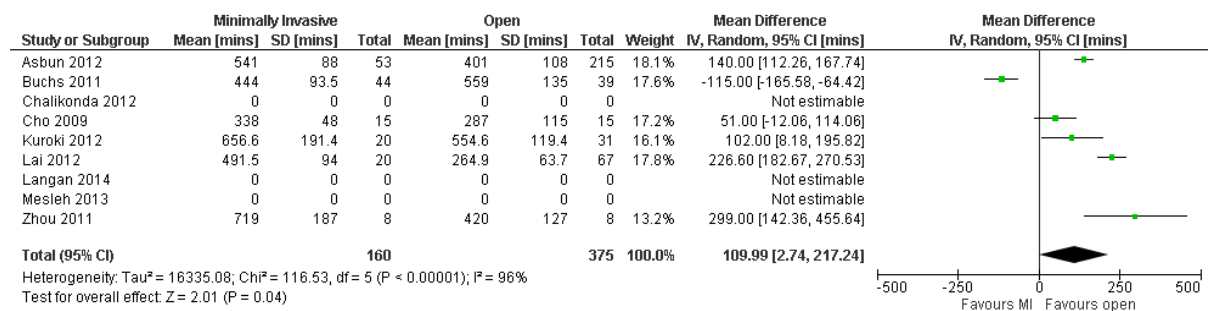
8

1 **Figure 228: R0 resection rate**



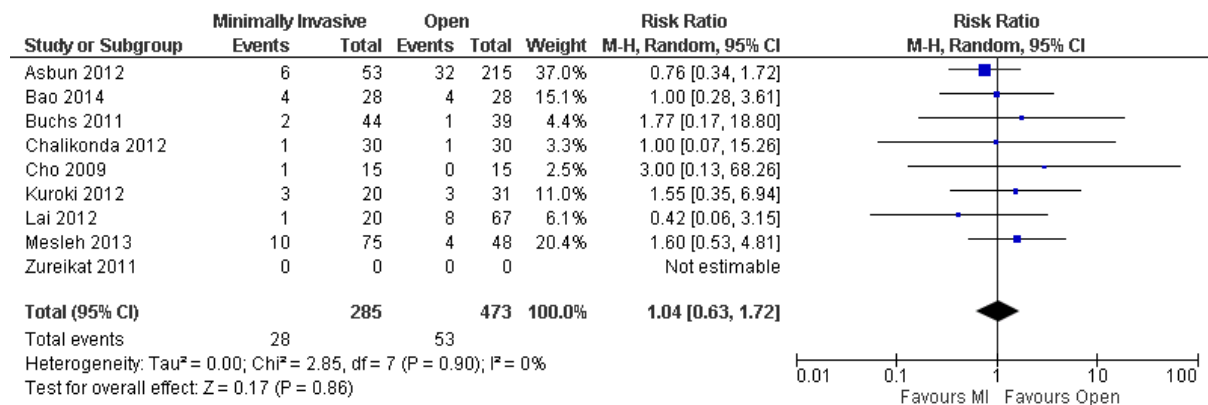
2

3 **Figure 229: Operation time (mins)**



4

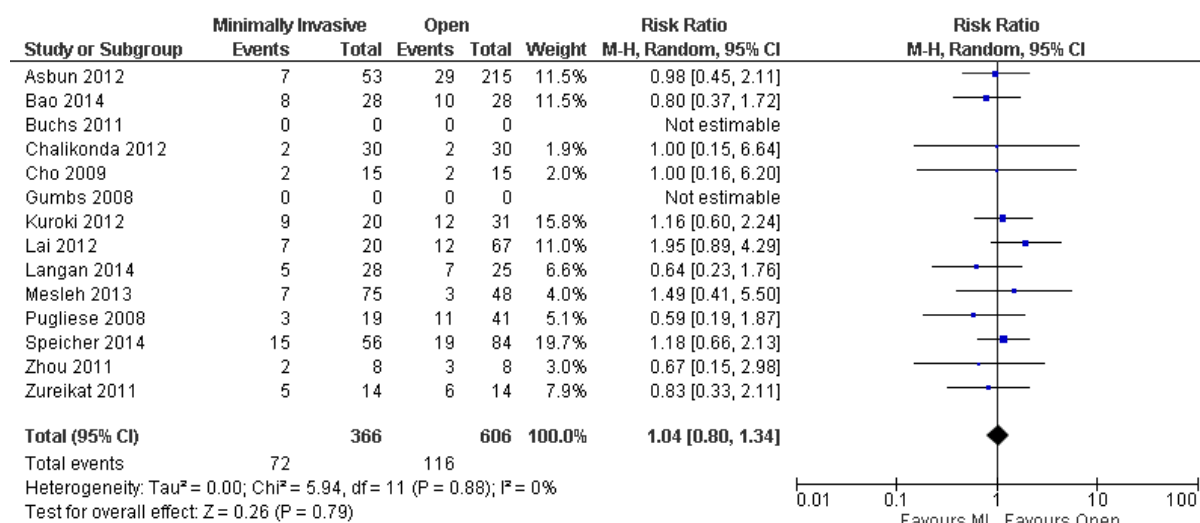
5 **Figure 230: Delayed Gastric Emptying**



6

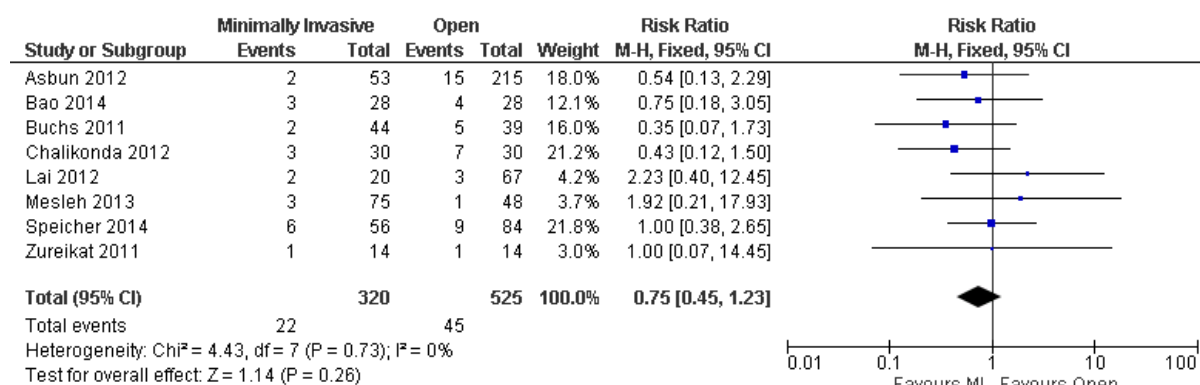
1

## 2 Figure 231: Pancreatic Fistula



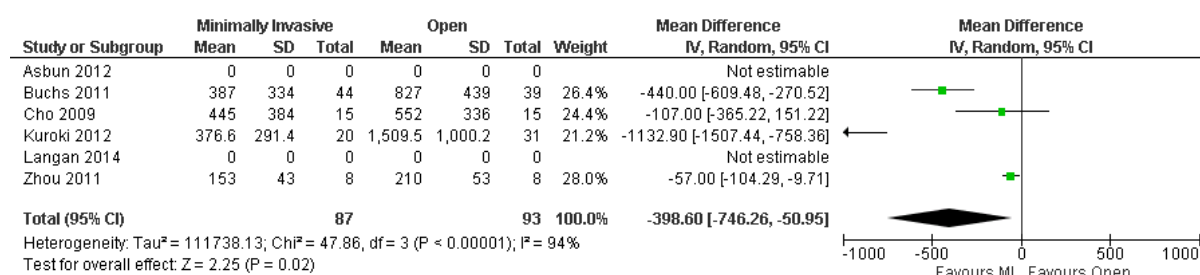
3

## 4 Figure 232: Reoperation



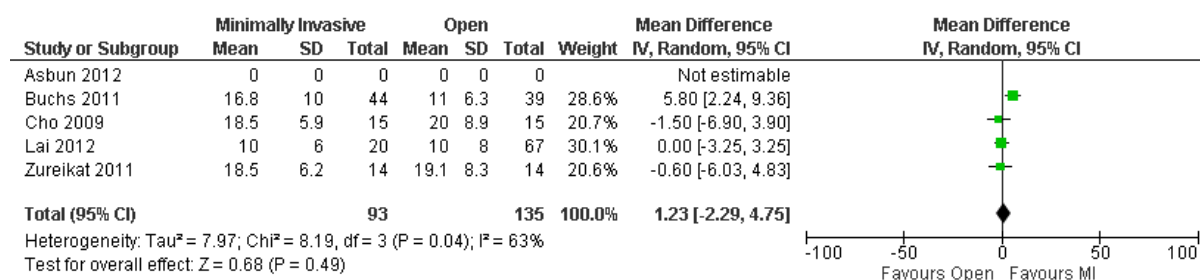
5

## 6 Figure 233: Blood Loss (mls)



7

### 1 Figure 234: Retrieved Lymph Nodes

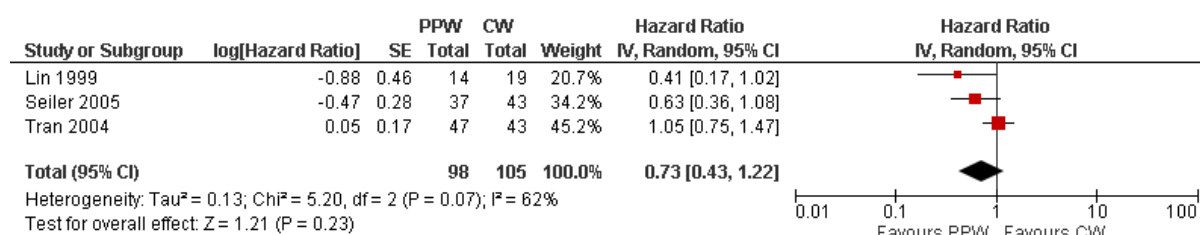


2

3

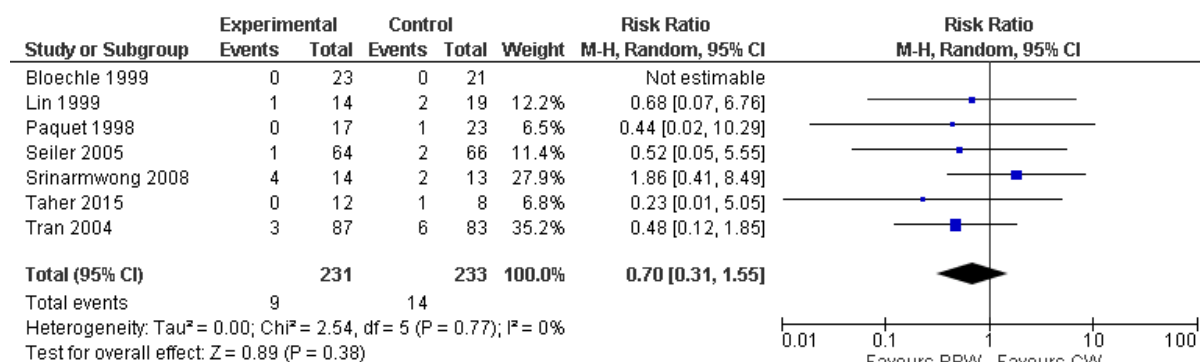
### H.13.24 Pylorus preserving Whipple versus classic Whipple

#### 5 Figure 235: Overall Survival (Pancreatic Head Carcinoma)



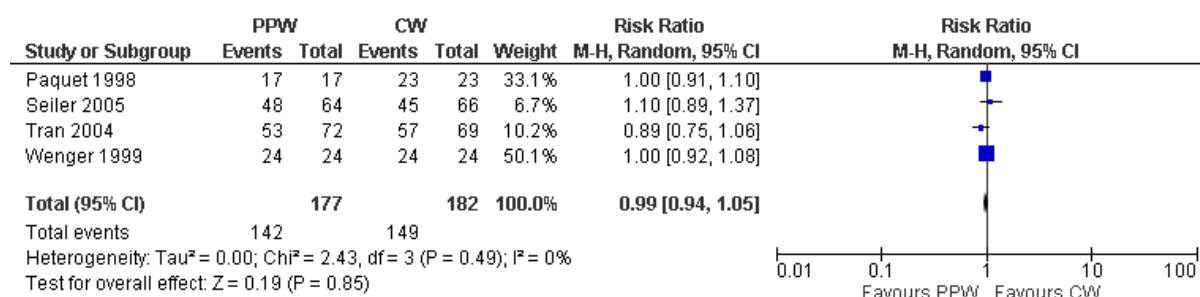
6

#### 7 Figure 236: Postoperative Mortality



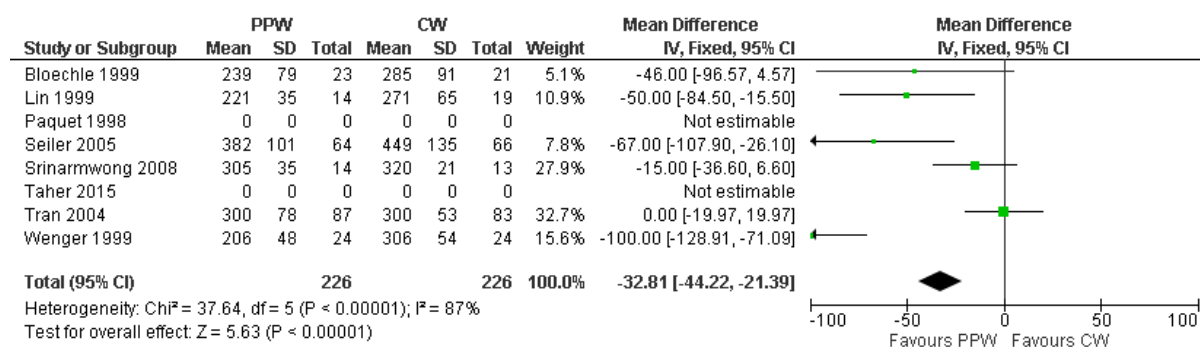
8

#### 9 Figure 237: R0 Resection



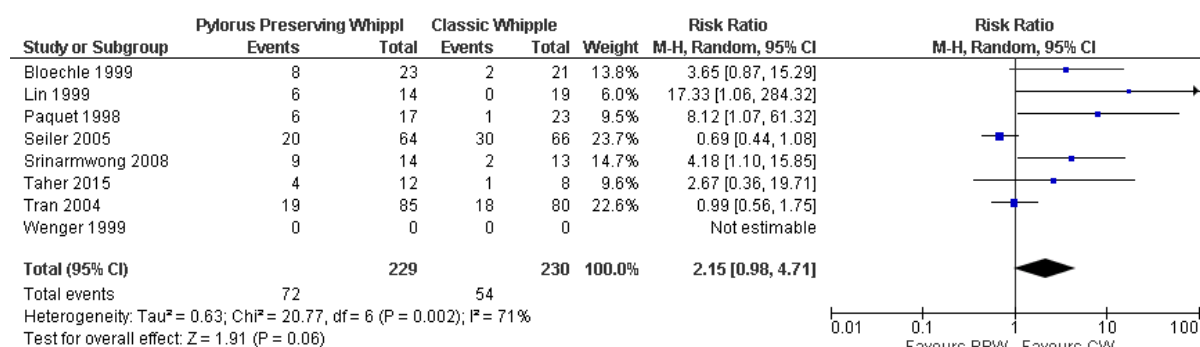
10

### 1 Figure 238: Operating Time (Minutes)



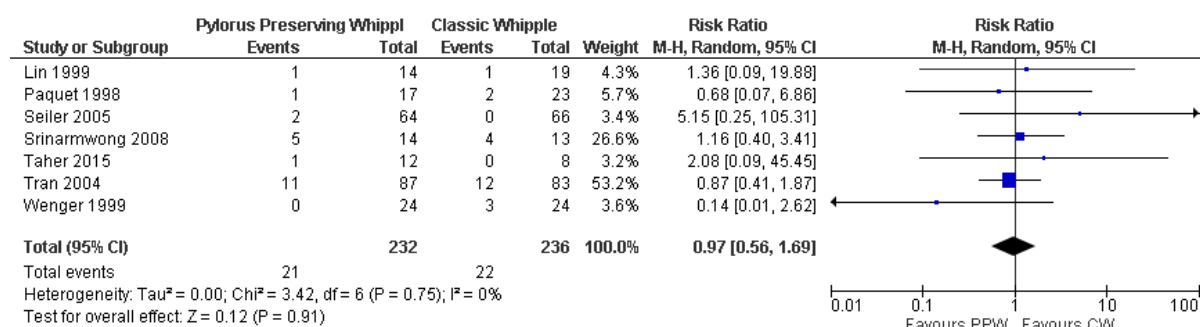
2

### 3 Figure 239: Delayed Gastric Emptying



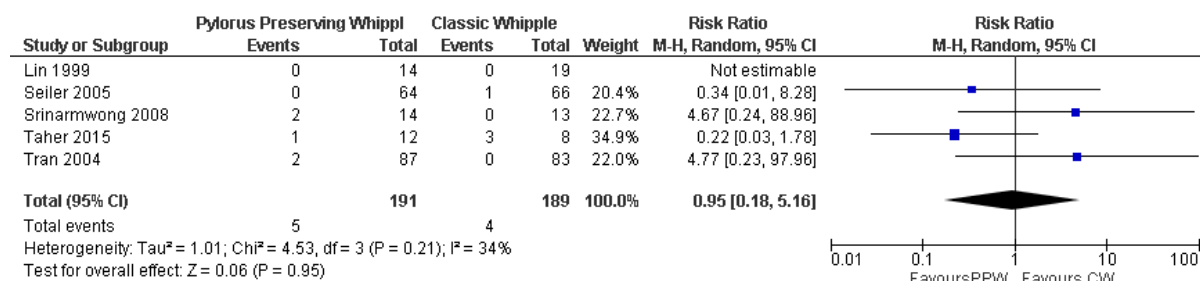
4

### 5 Figure 240: Pancreatic Fistula



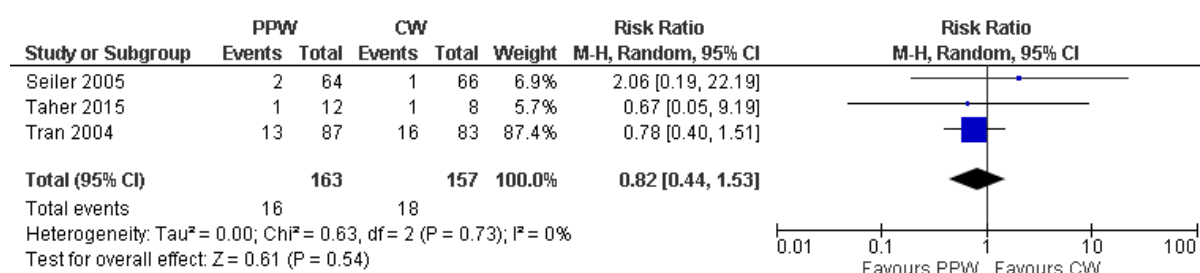
6

### 7 Figure 241: Biliary Leakage



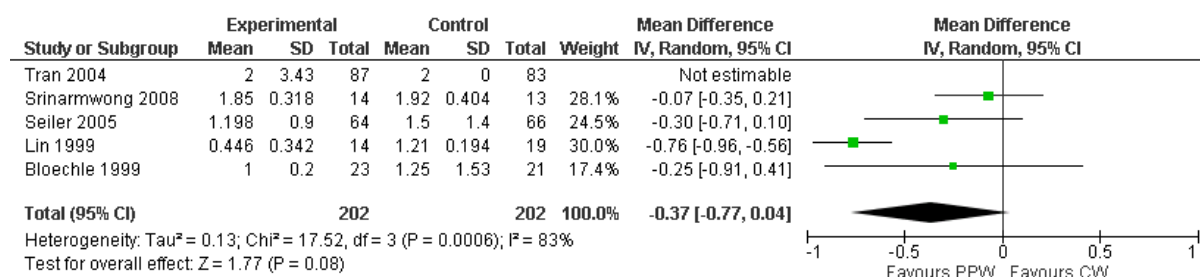
8

## 1 Figure 242: Reoperation



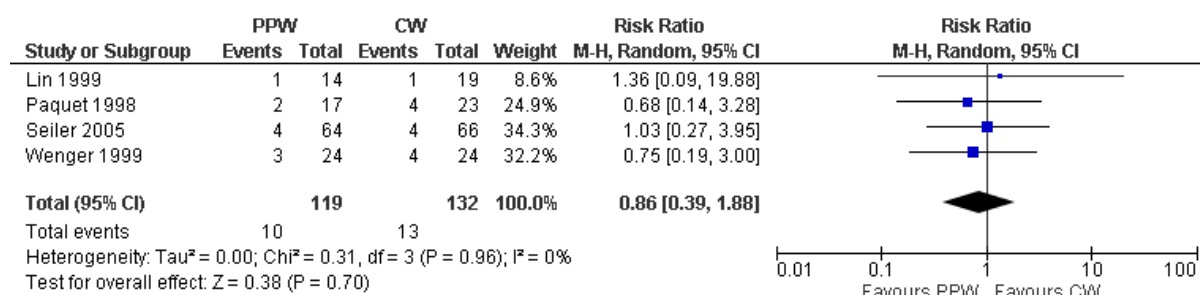
2

## 3 Figure 243: Intraoperative Blood Loss (litres)



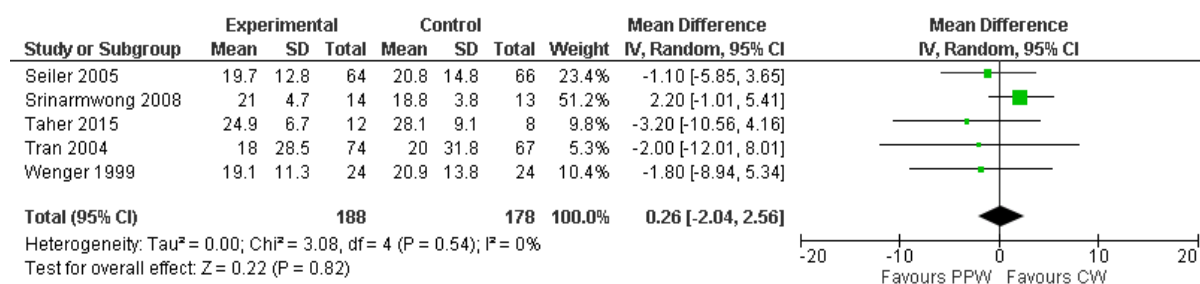
4

## 5 Figure 244: Surgical site Infection



6

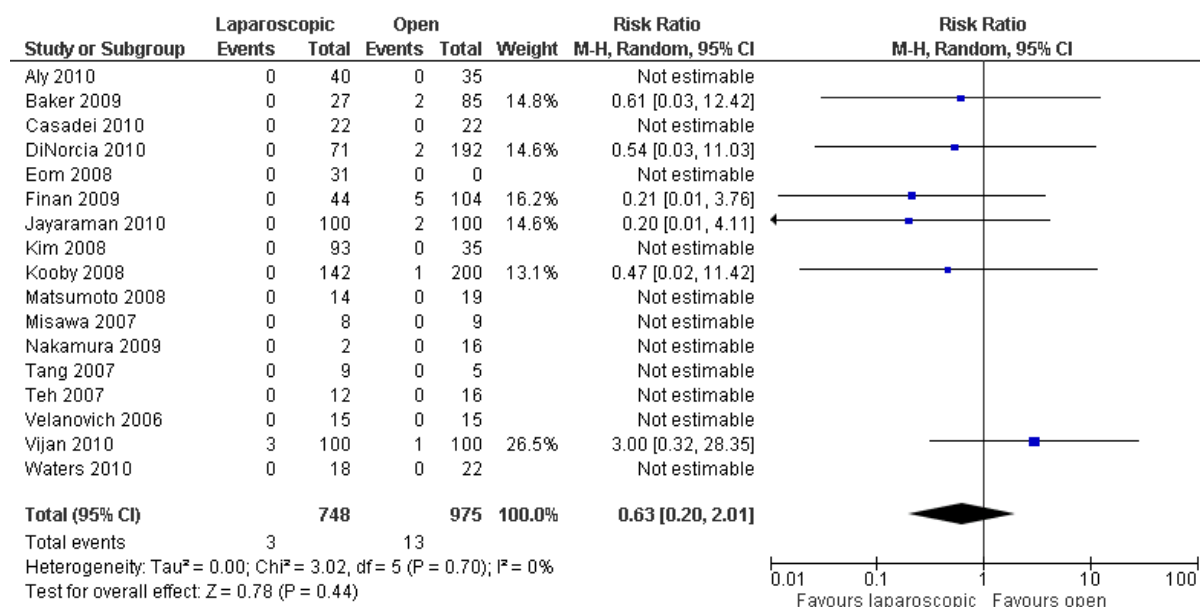
## 7 Figure 245: Hospital Stay (days)



8

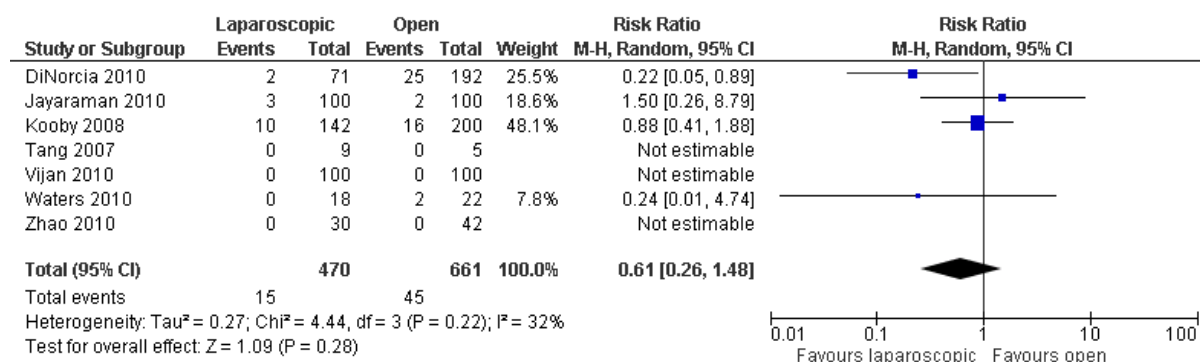
## H.13.31 Minimally invasive laparoscopic distal pancreatectomy versus open pancreatectomy

### 3 Figure 246: Mortality



4

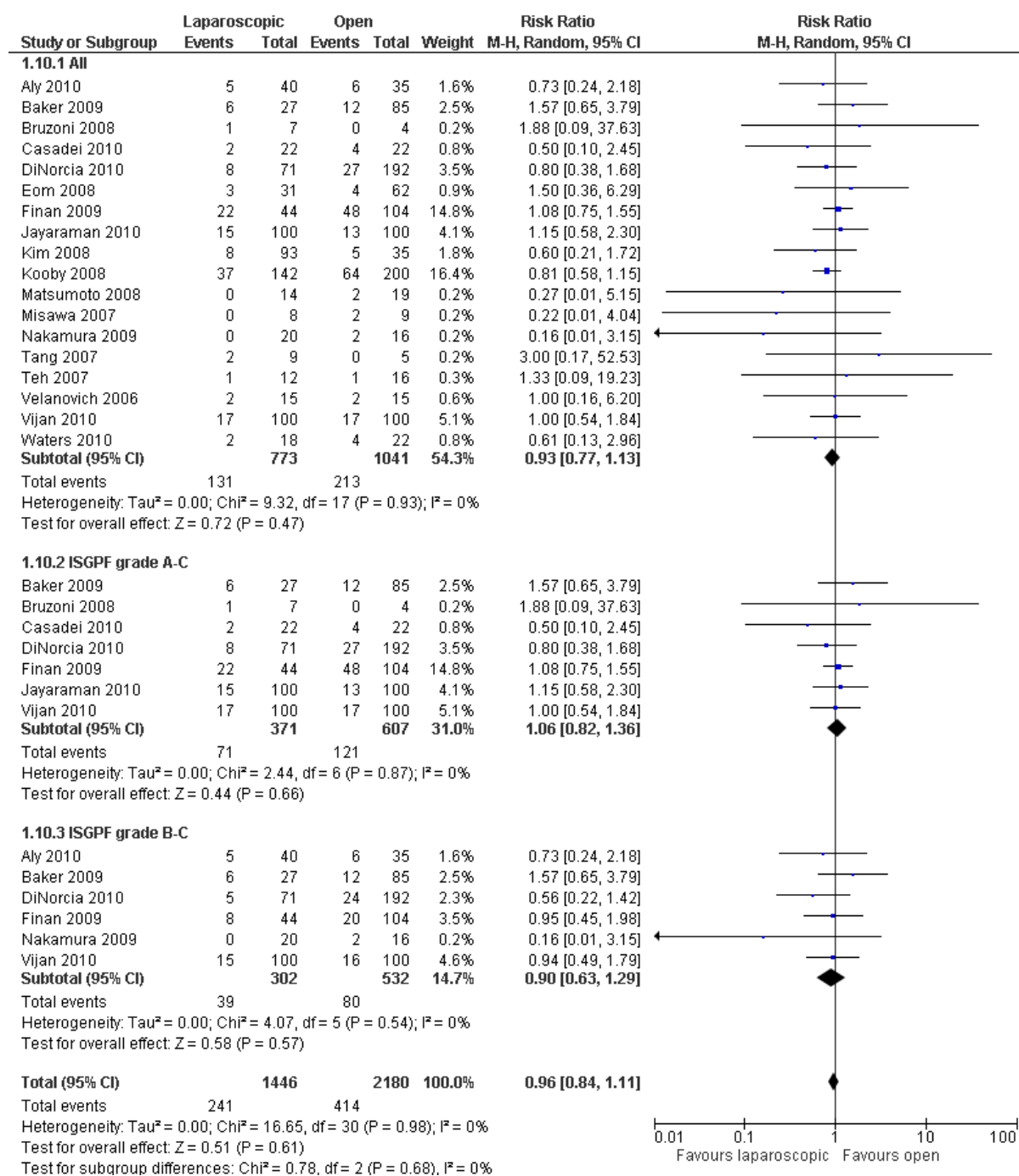
### 5 Figure 247: Positive Margins



6

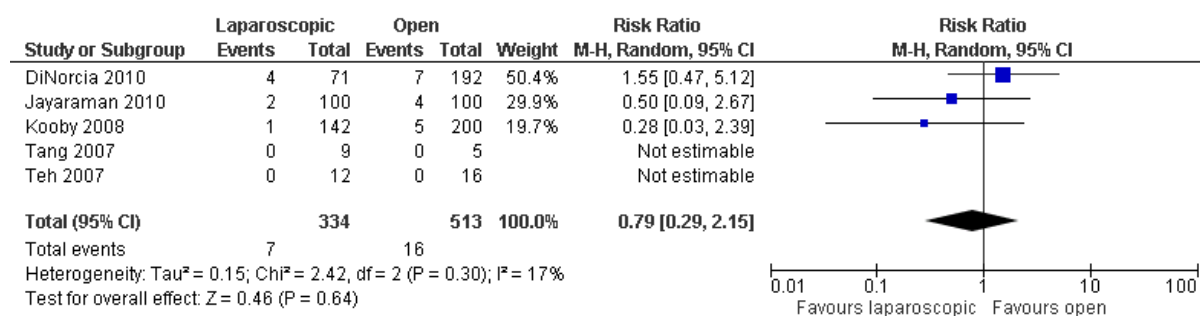


### 1 Figure 248: Pancreatic Fistula



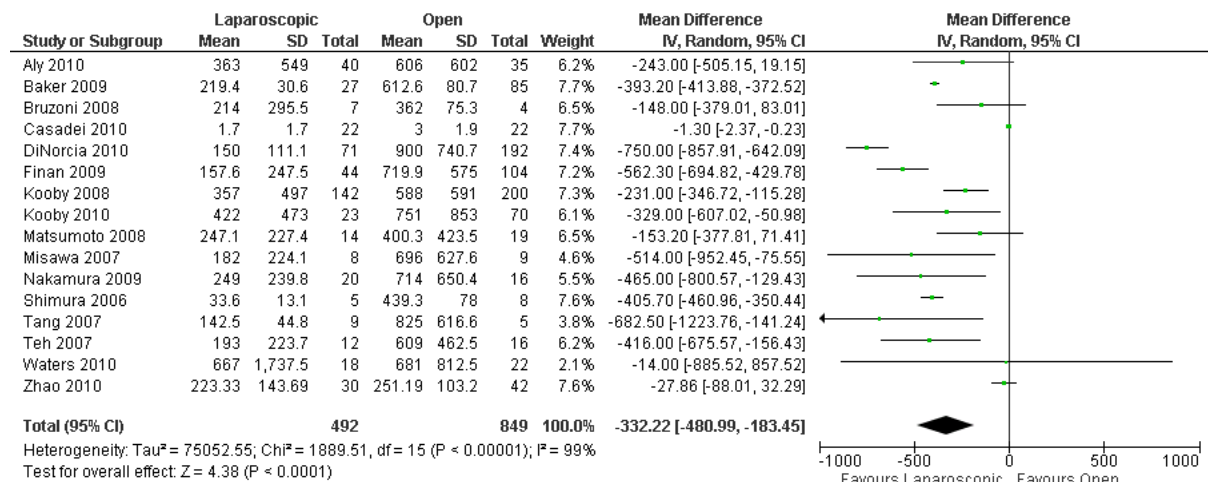
2

### 3 Figure 249: Reoperation



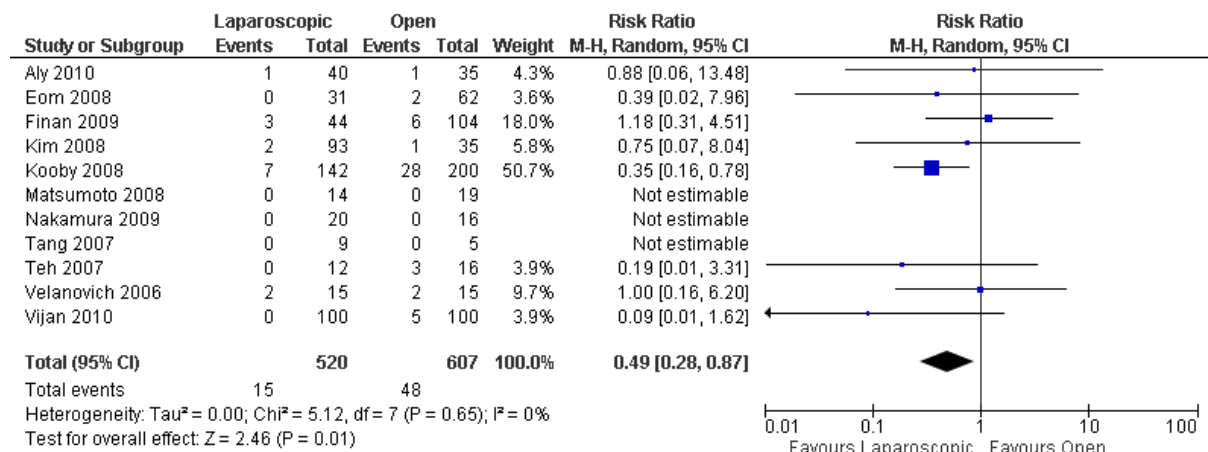
4

1 **Figure 250: Blood Loss (mls)**



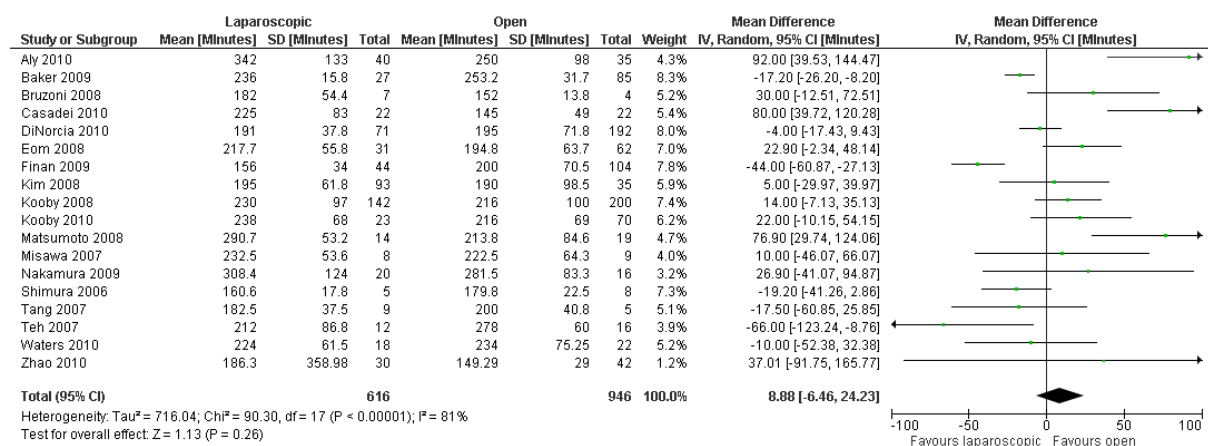
2

3 **Figure 251: Surgical Site Infection**



4

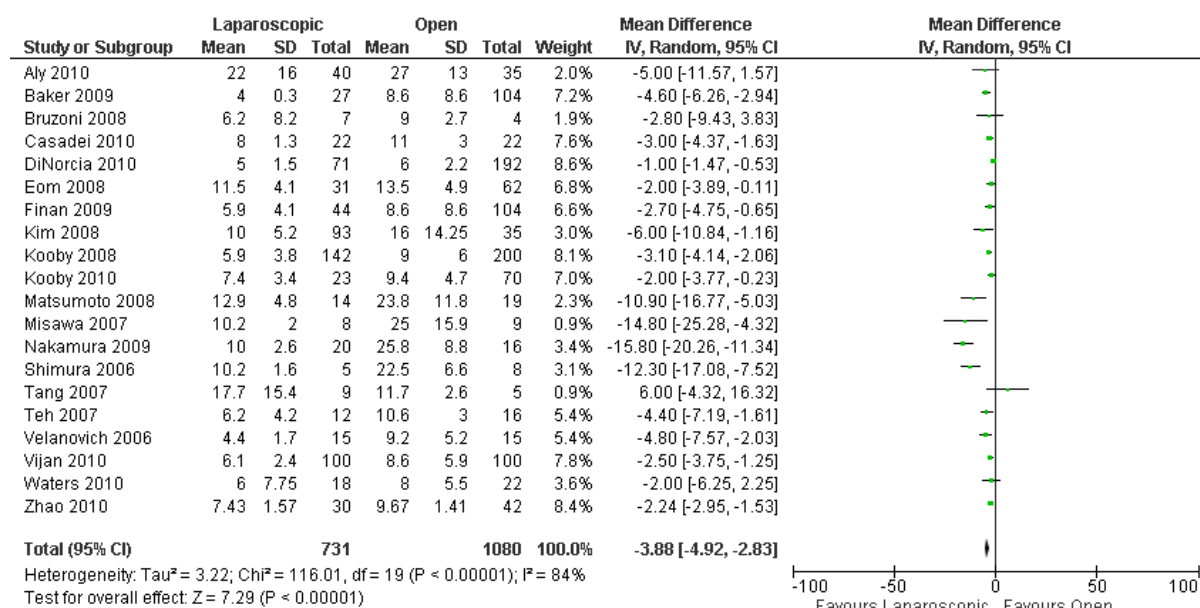
5 **Figure 252: Operative Time (mins)**



6

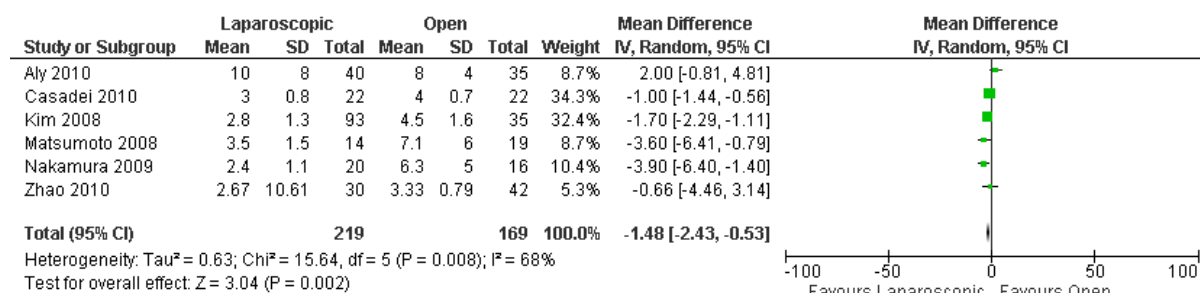
7

### 1 Figure 253: Length of hospital stay



2

### 3 Figure 254: Time to oral intake

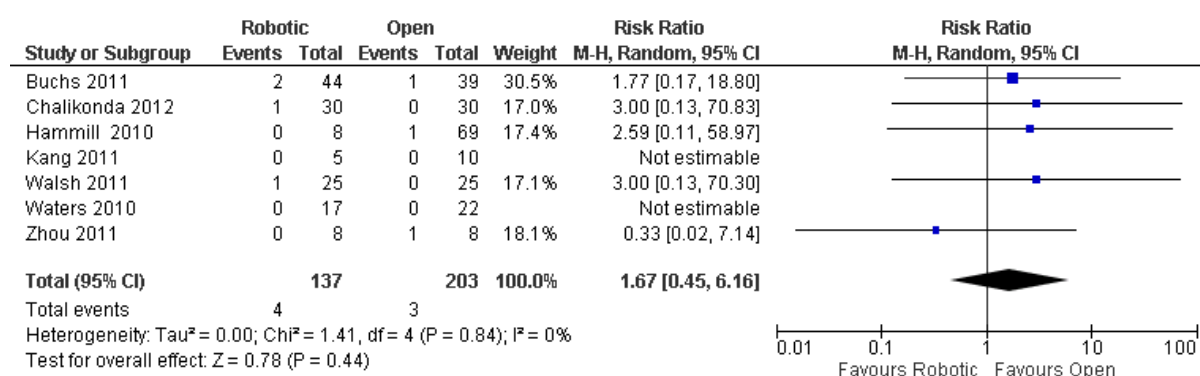


4

5

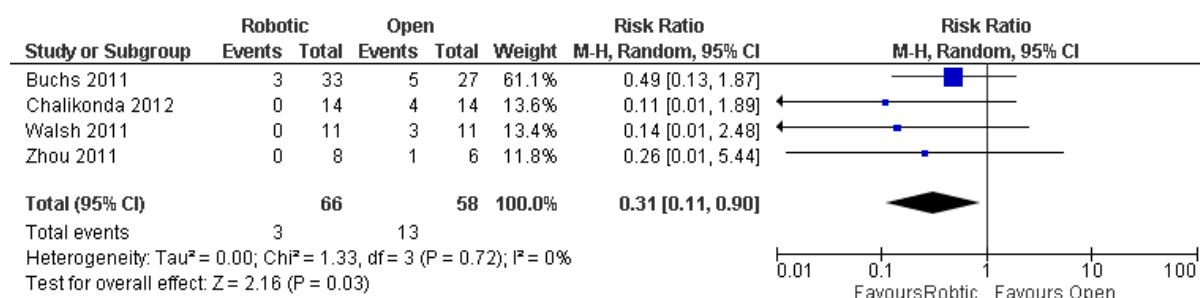
## H.13.46 Minimally invasive robotic pancreatectomy versus open pancreatectomy

### 7 Figure 255: Postoperative Mortality



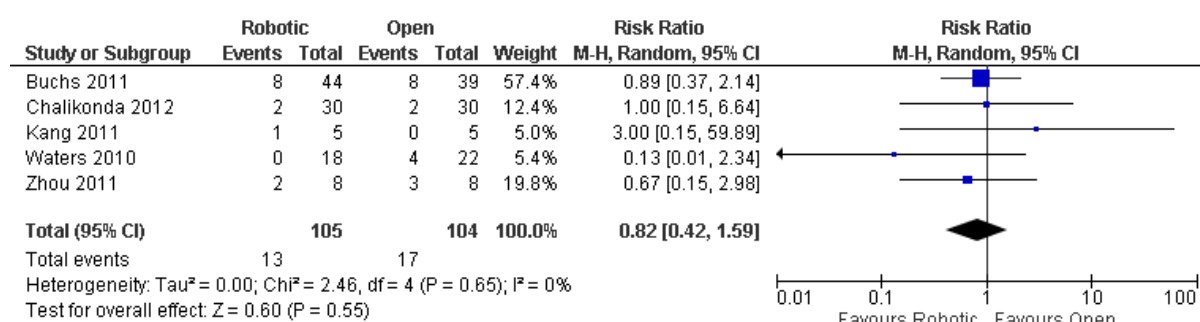
8

### 1 Figure 256: Positive Margin Rate



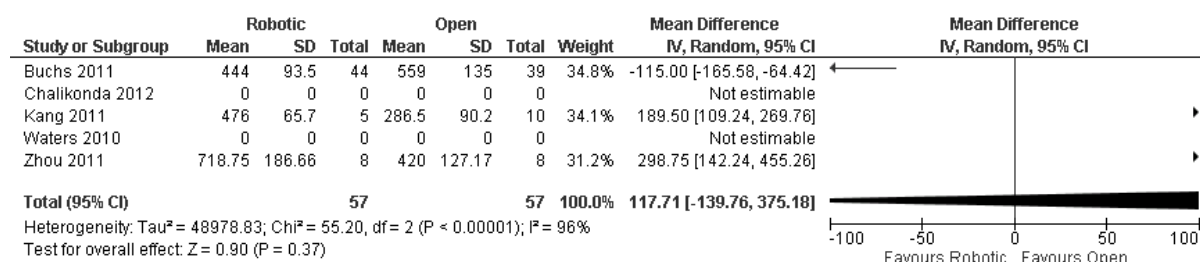
2

### 3 Figure 257: Pancreatic Fistula



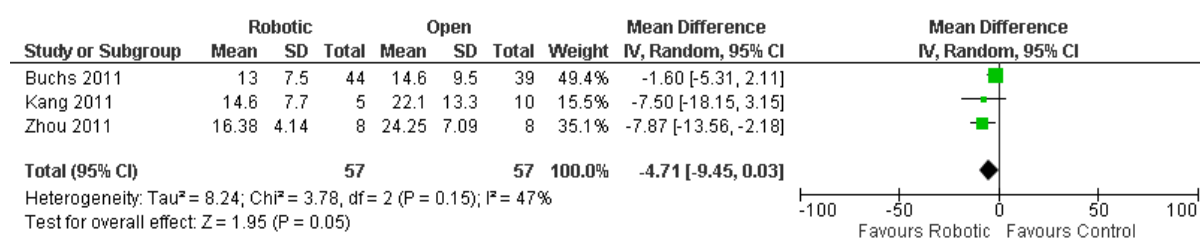
4

### 5 Figure 258: Operative time (mins)



6

### 7 Figure 259: Length of hospital stay (days)

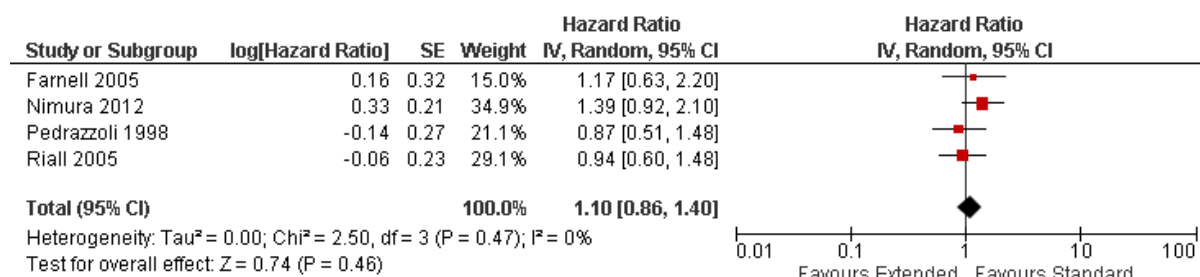


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9

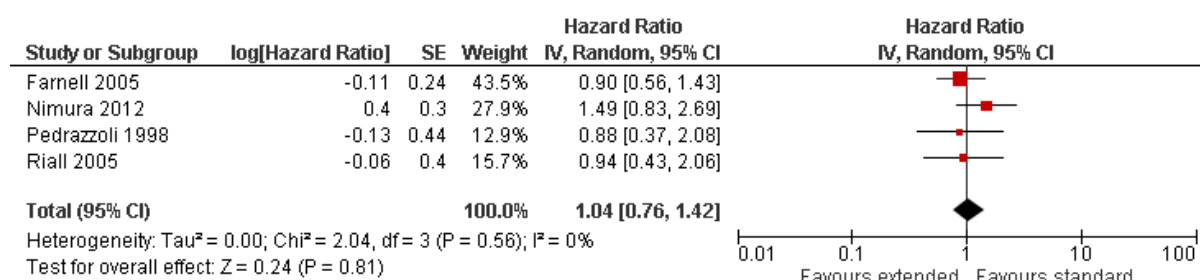
## H.13.51 Extended lymphadenectomy versus standard lymphadenectomy

### 2 Figure 260: Overall Survival



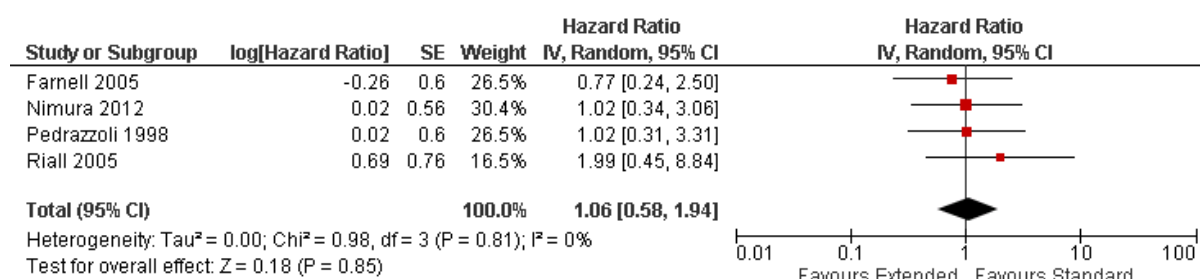
3

### 4 Figure 261: Lymph Node Positive



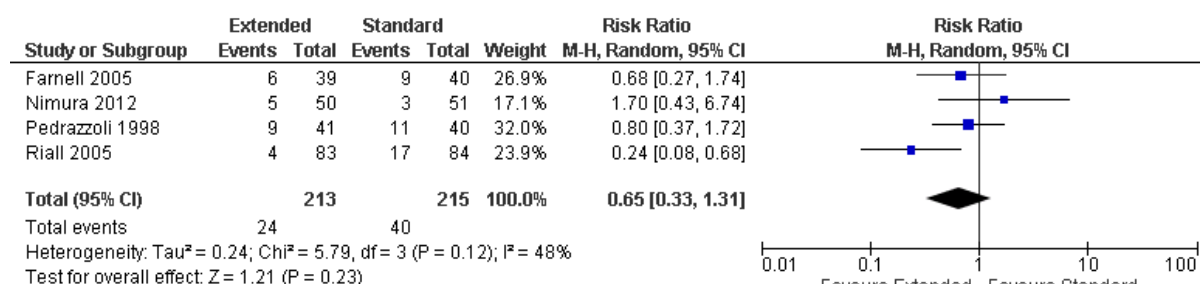
5

### 6 Figure 262: Lymph Node Negative



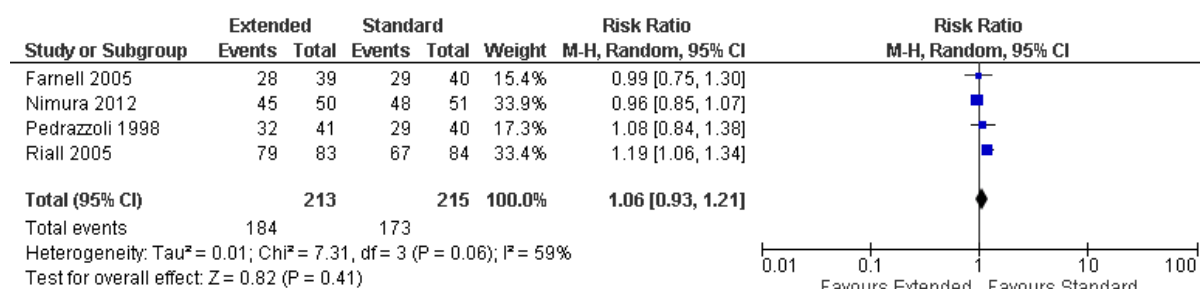
7

### 8 Figure 263 Positive Margins



9

### 1 Figure 264: Negative Margins

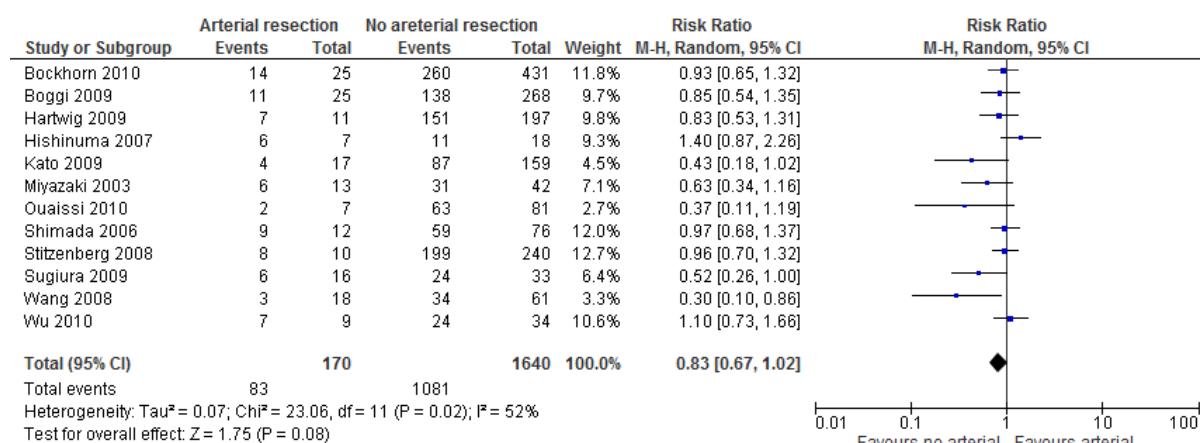


2

3

## H.13.64 Arterial resection versus no arterial resection

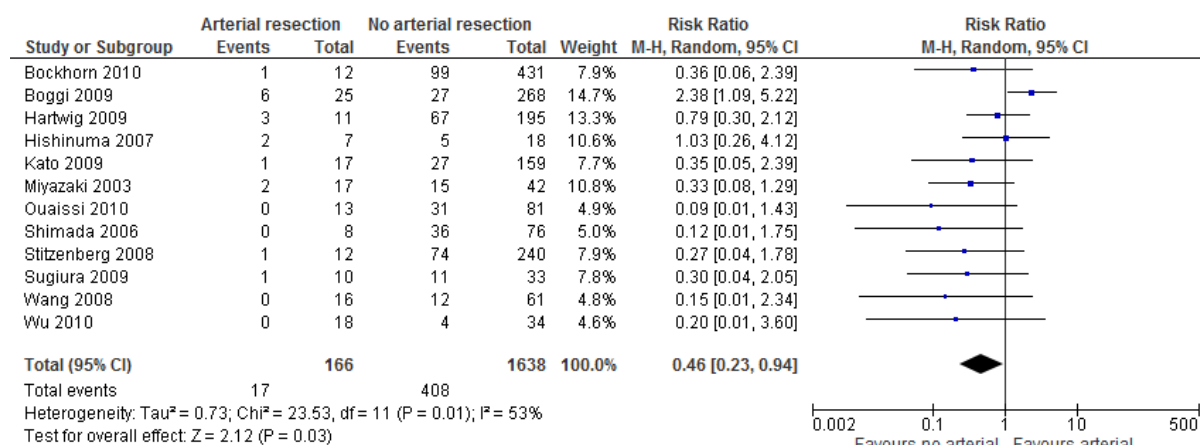
### 5 Figure 265: 1-year Overall Survival



6

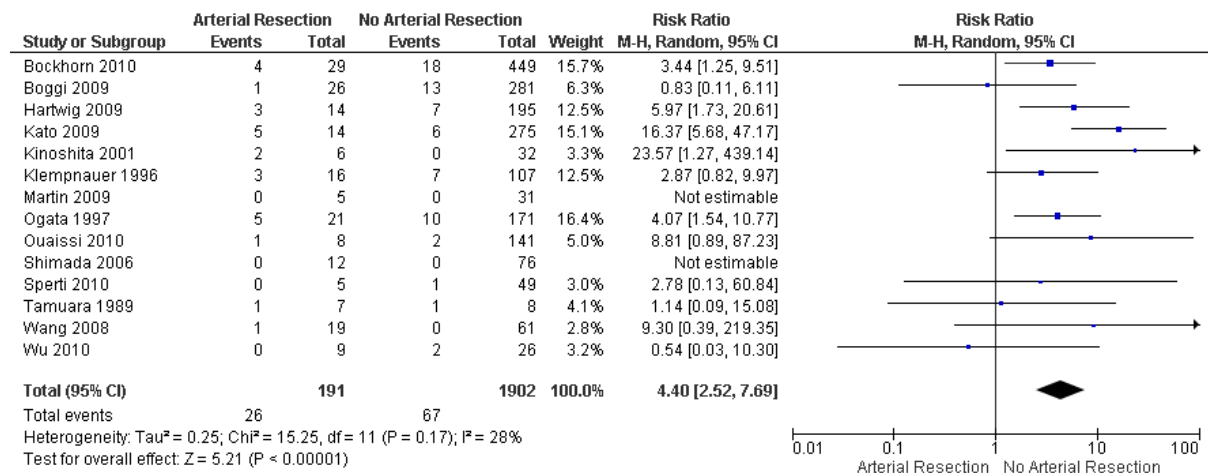
7

### 8 Figure 266: 3-Year Overall Survival



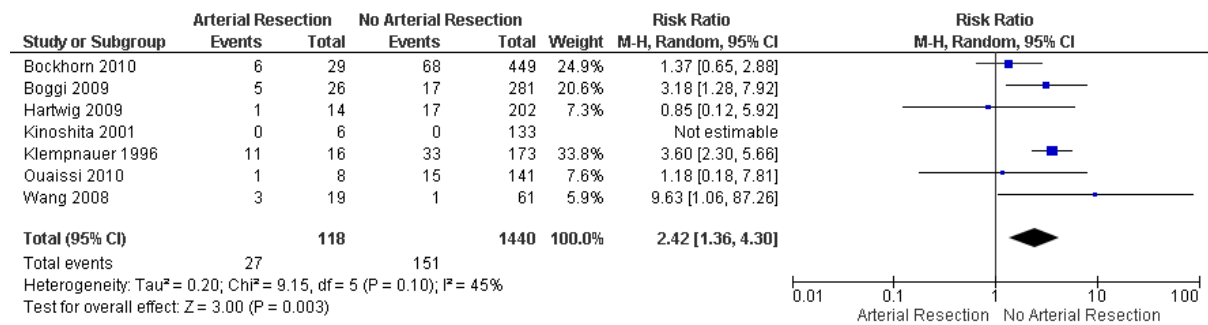
9

### 1 Figure 267: Post operative Mortality



2

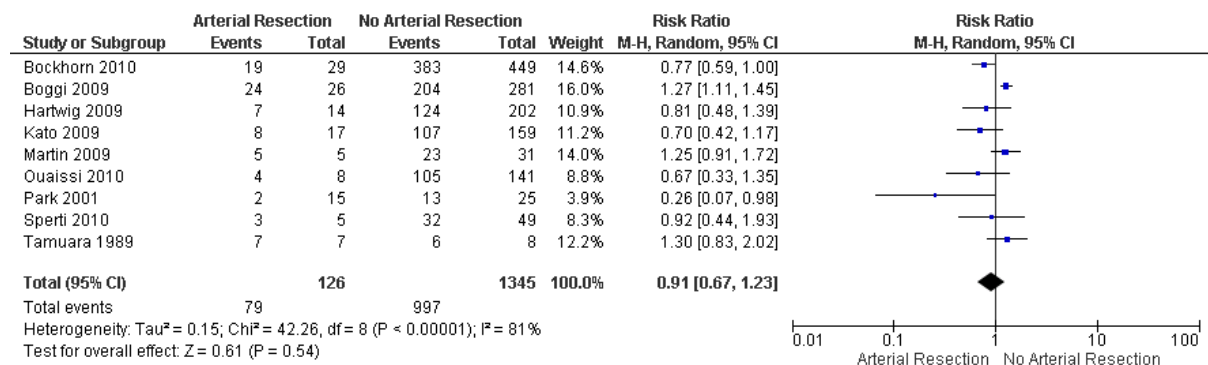
### 3 Figure 268: Reoperation Rate



4

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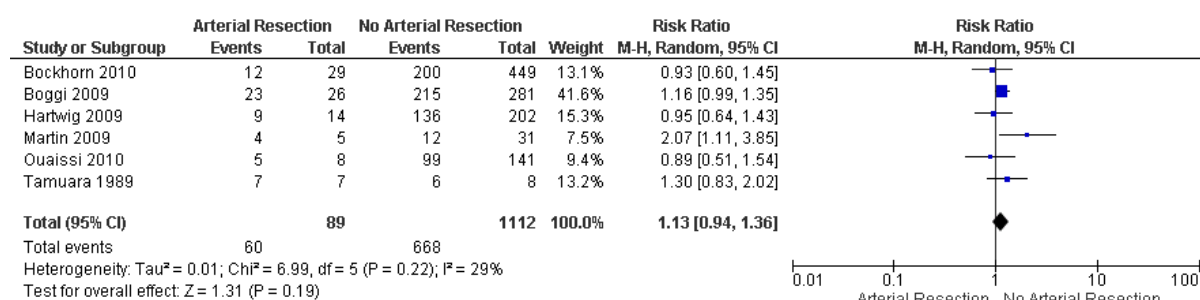
### 6 Figure 269: R0 Resection Rate



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8

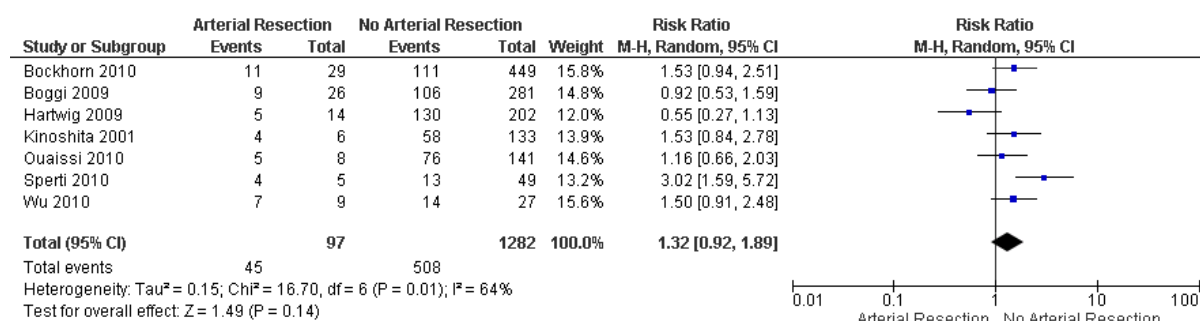
## 1 Figure 270: Lymph Node Positive



2

3

## 4 Figure 271: Post-operative Morbidity

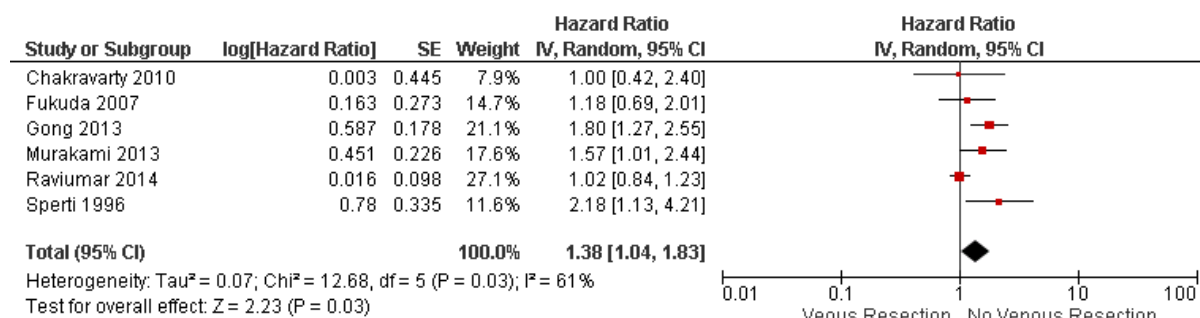


5

6

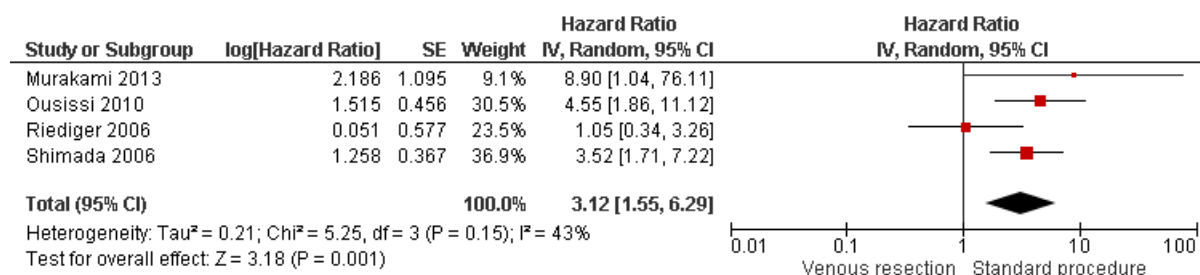
## H.13.77 Venous resection versus no venous resection

### 8 Figure 272: 1-year overall survival



9

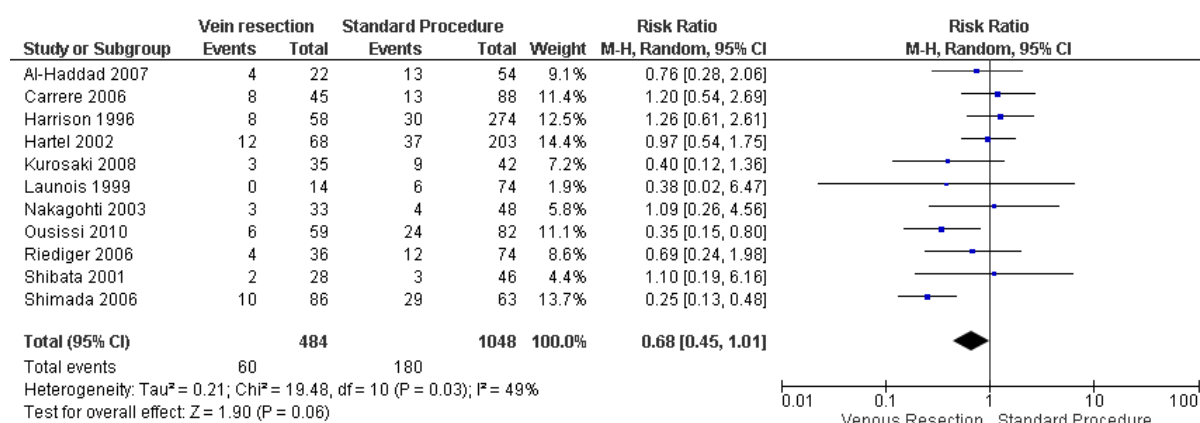
### 10 Figure 273: 5-year overall survival



11

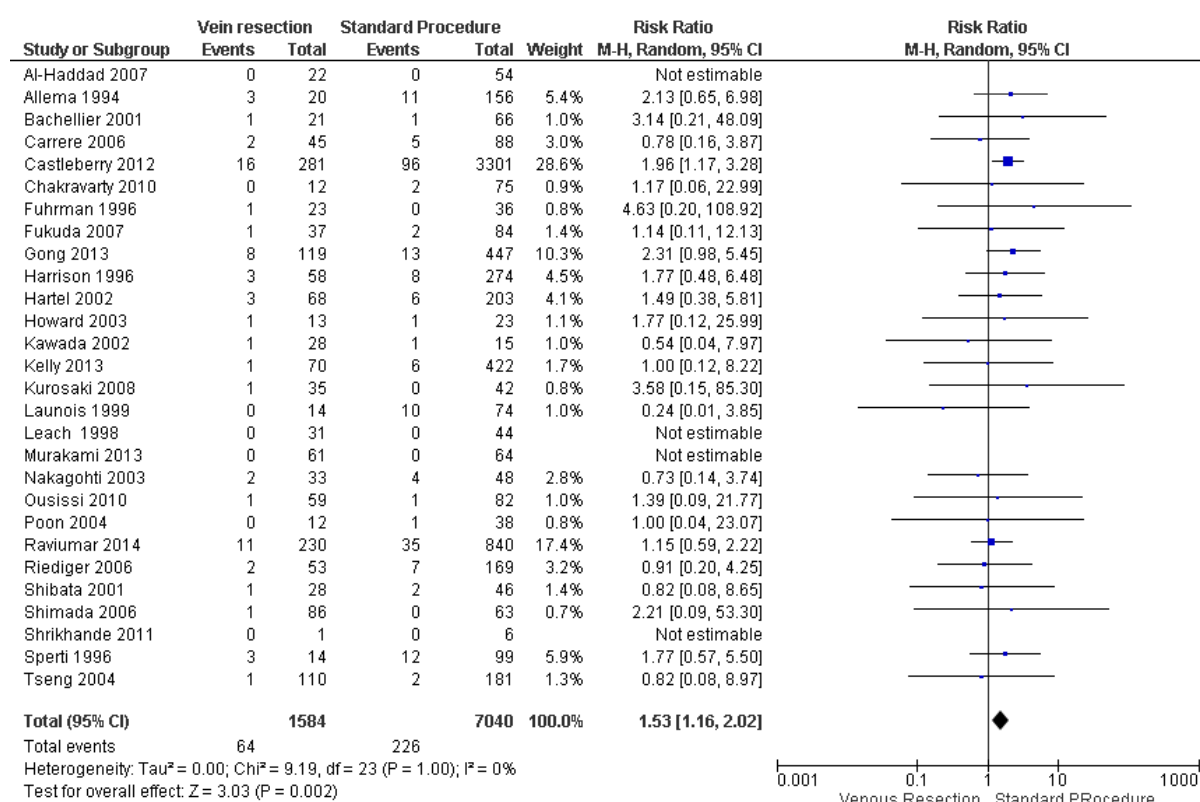


### 1 Figure 274: 5-year overall survival (all survival data)



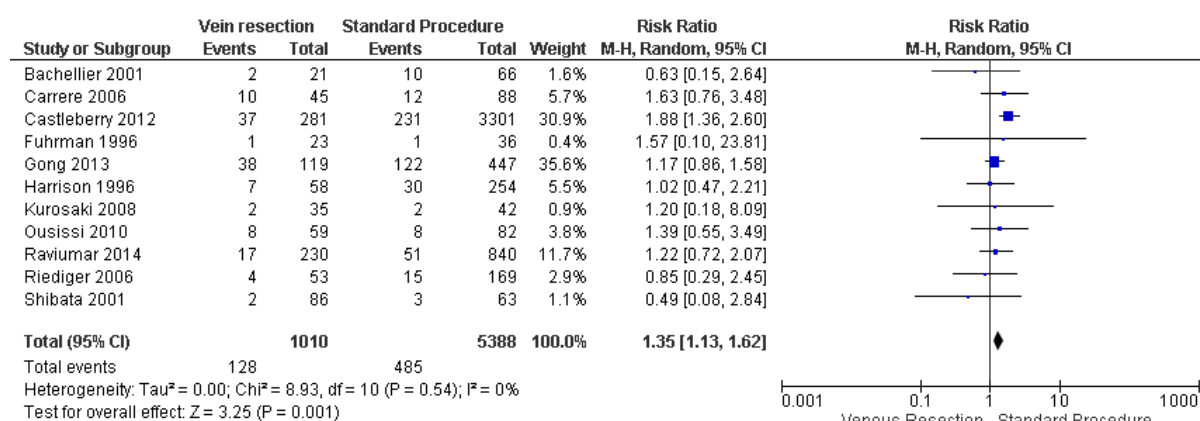
2

### 3 Figure 275: Postoperative Mortality



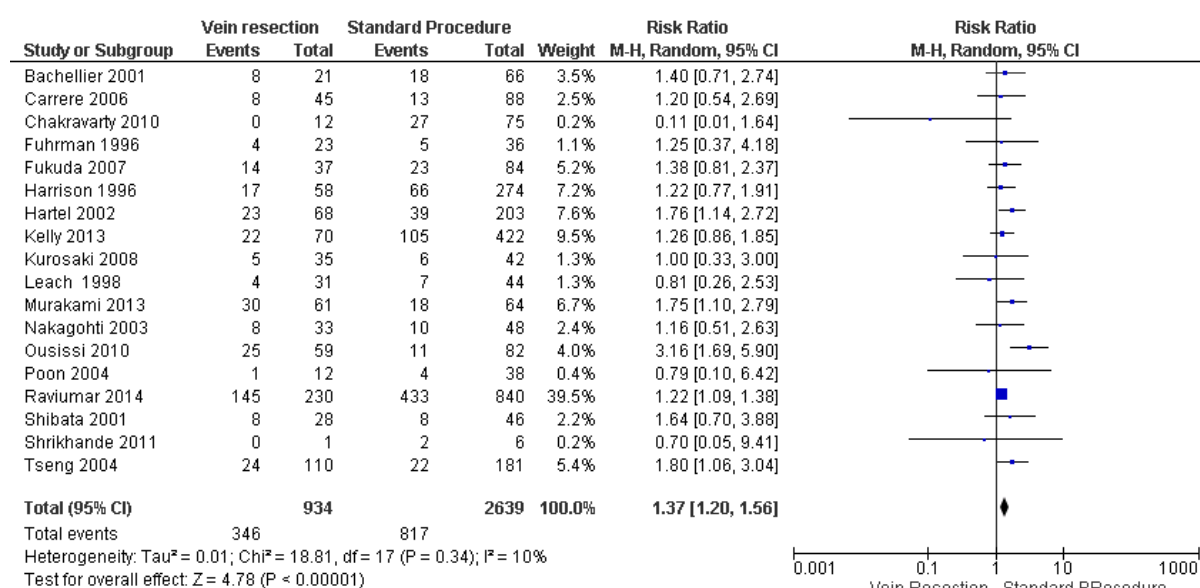
4

### 1 Figure 276: Reoperation Rate



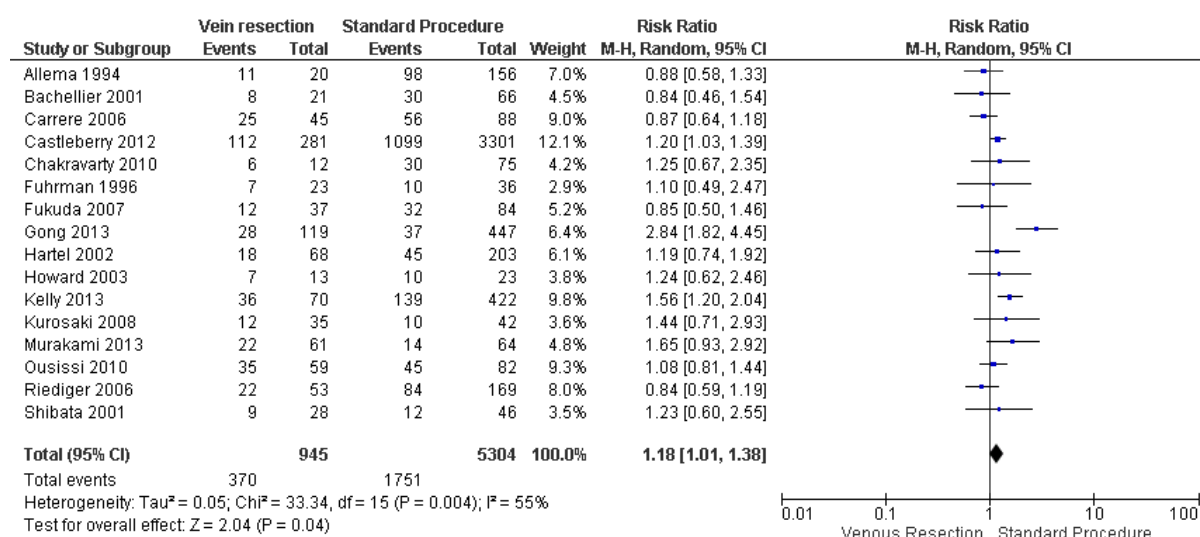
2

### 3 Figure 277: R1-R2 resection Rate



4

### 5 Figure 278: Overall post-operative morbidity

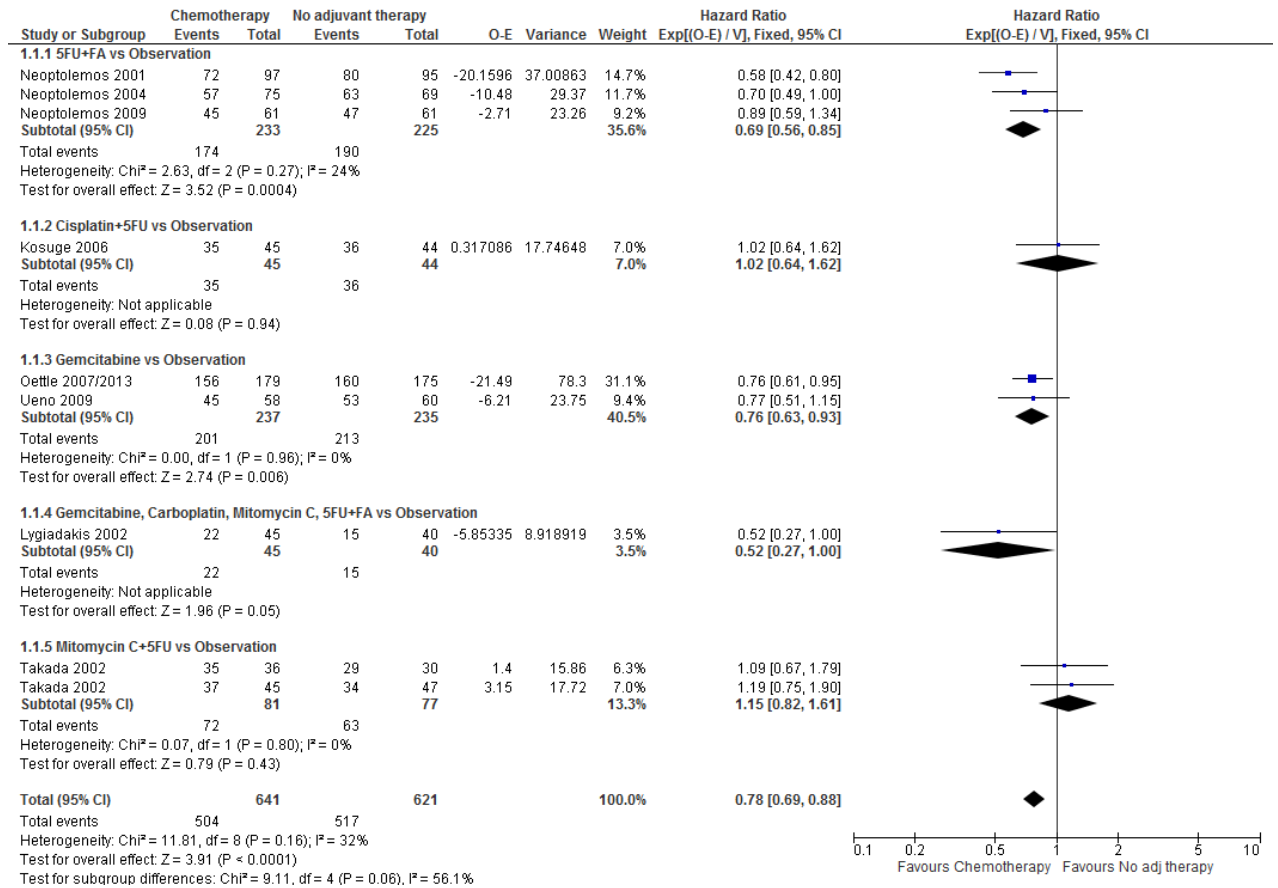


6

## H.14.1 Adjuvant treatment

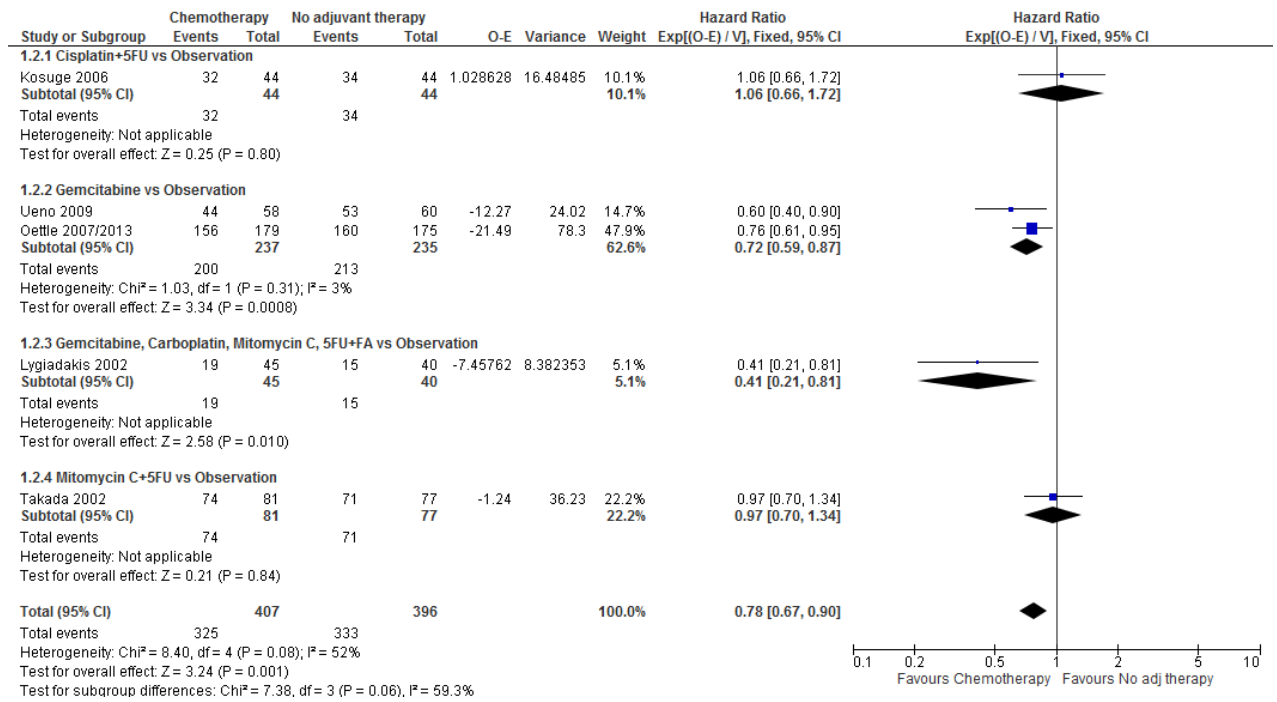
### H.14.1.2 Adjuvant chemotherapy versus no adjuvant therapy in resected pancreatic cancer patients

#### 4 Figure 279: Overall survival



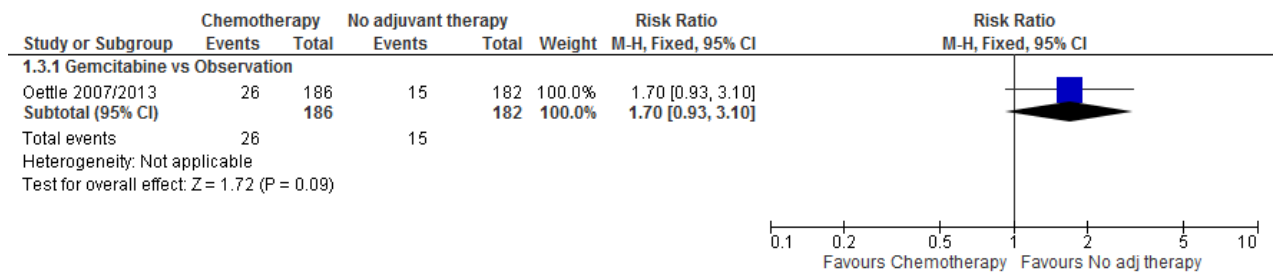
5

1 **Figure 280: Disease-free survival**



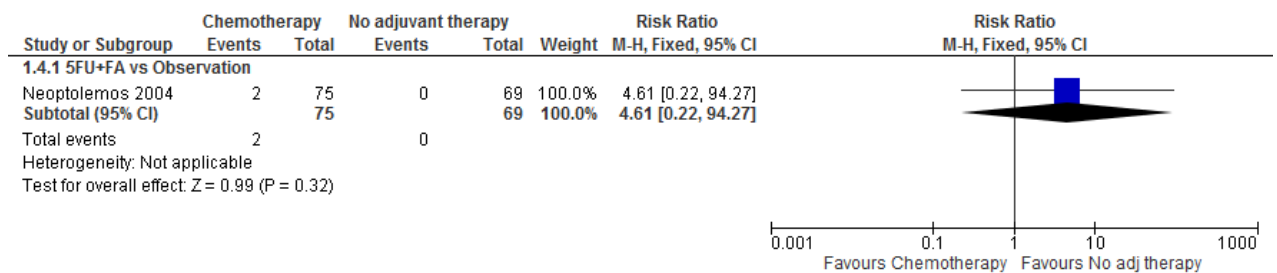
2

**Figure 281: # patients with serious adverse events**



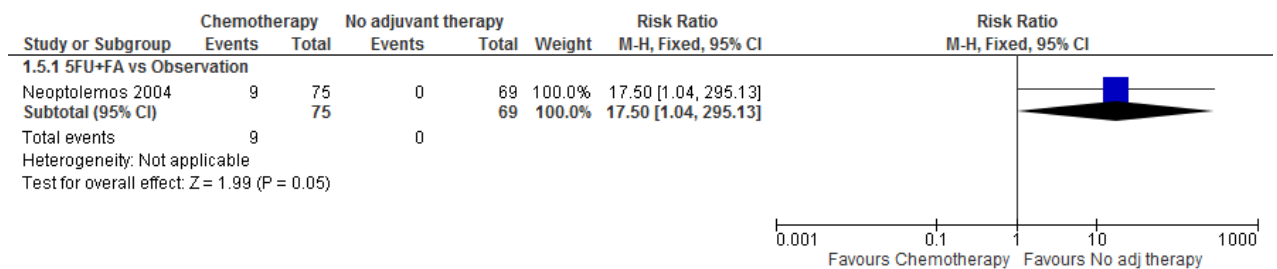
3

4 **Figure 282: # patients with any Grade 3 or 4 haematological toxicity**



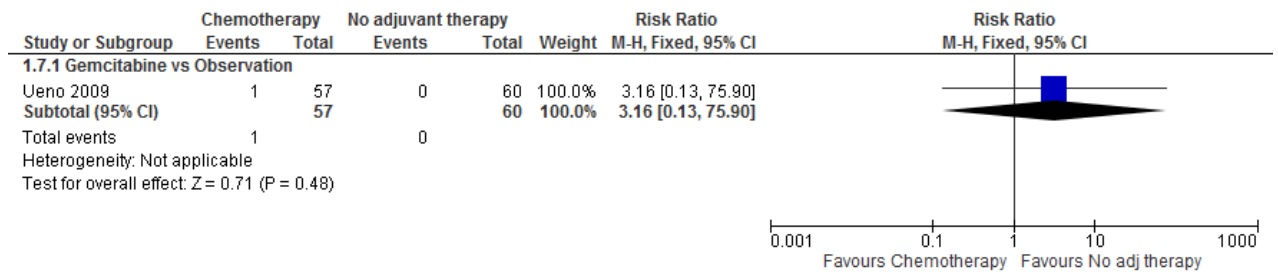
5

6 **Figure 283: # patients with Grade 3 or 4 non-haematological toxicity**



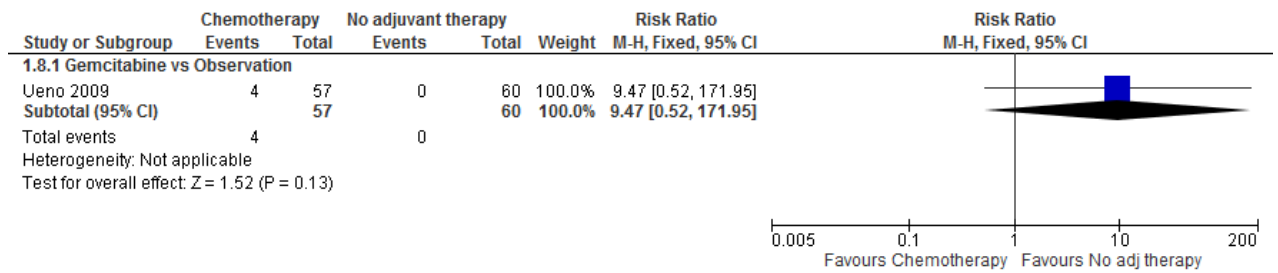
7

1 **Figure 284: # patients with Grade 3 or 4 abscess**



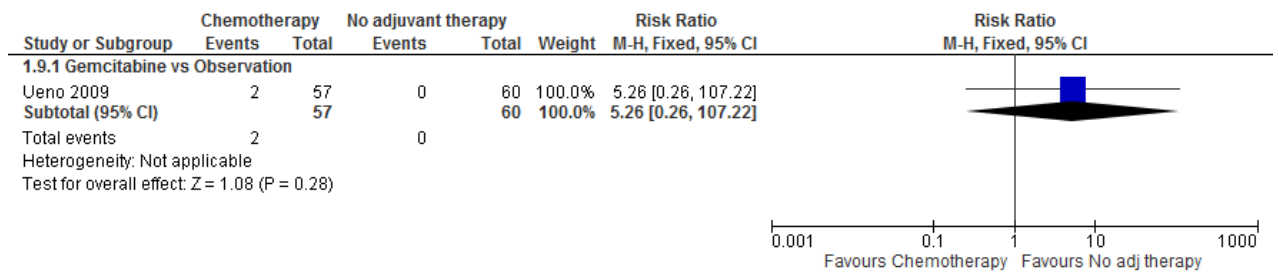
2

3 **Figure 285: # patients with Grade 3 or 4 alanine aminotransferase**



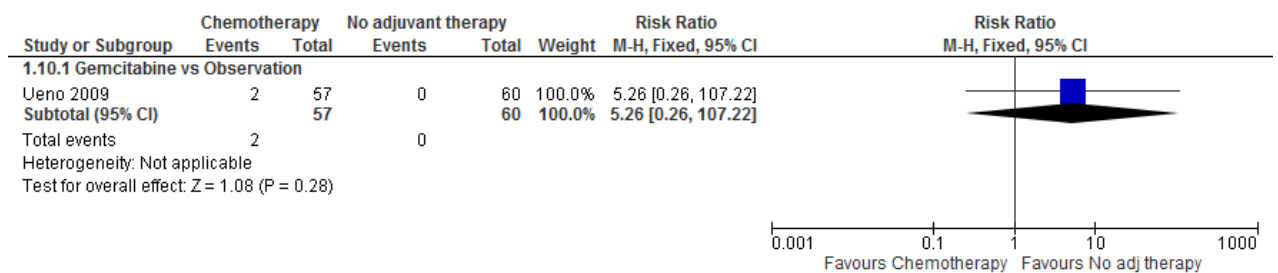
4

5 **Figure 286: # patients with Grade 3 or 4 anaemia**



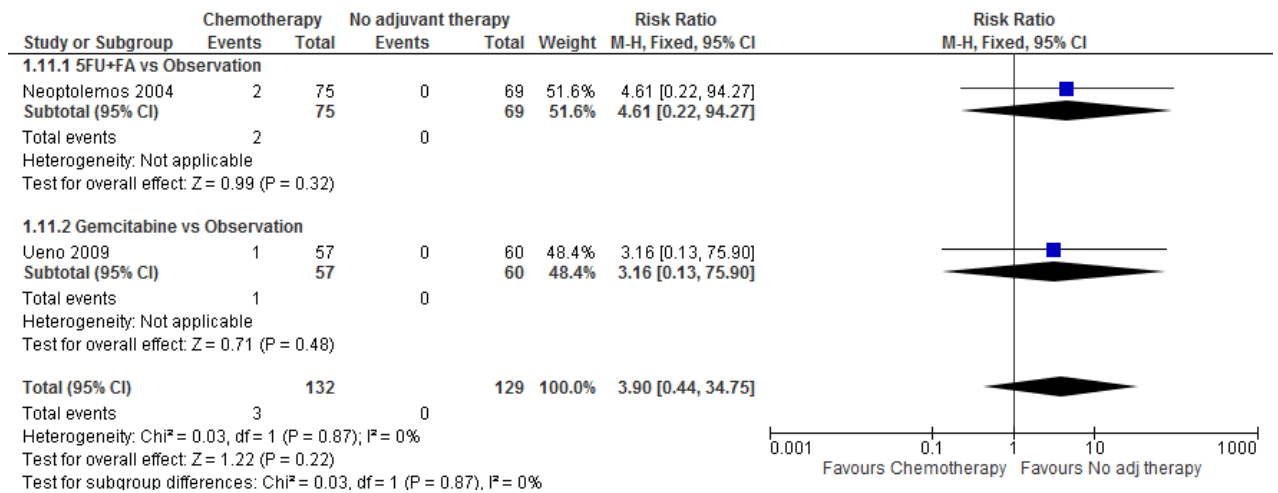
6

7 **Figure 287: # patients with Grade 3 or 4 anorexia**



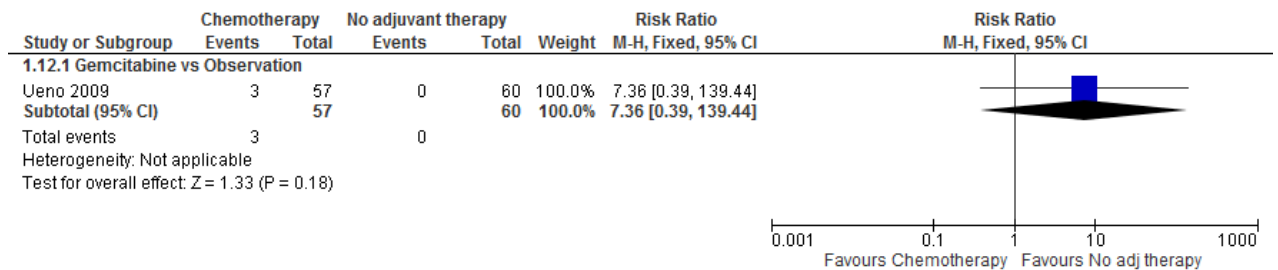
8

1 **Figure 288: # patients with Grade 3 or 4 diarrhoea**



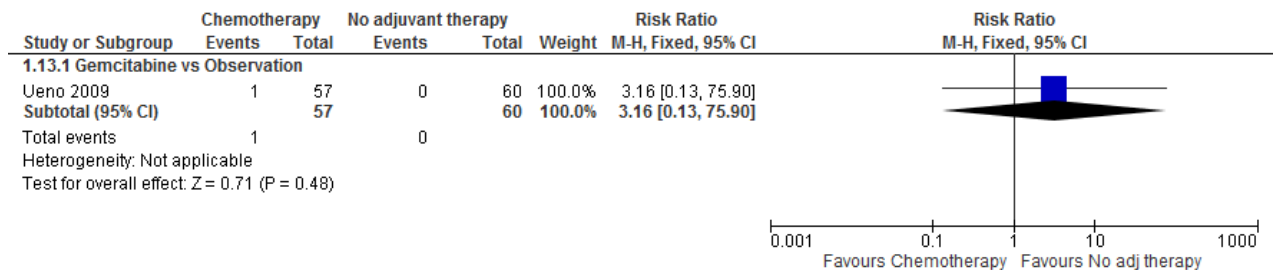
2

3 **Figure 289: # patients with Grade 3 or 4 aspartate aminotransferase**



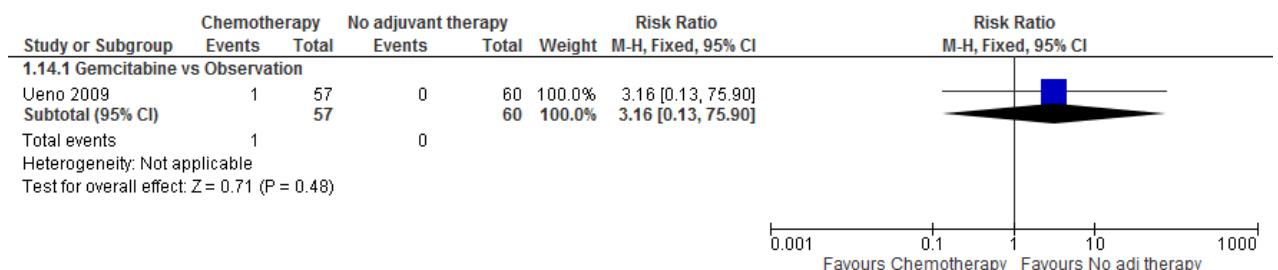
4

5 **Figure 290: # patients with Grade 3 or 4 fatigue**



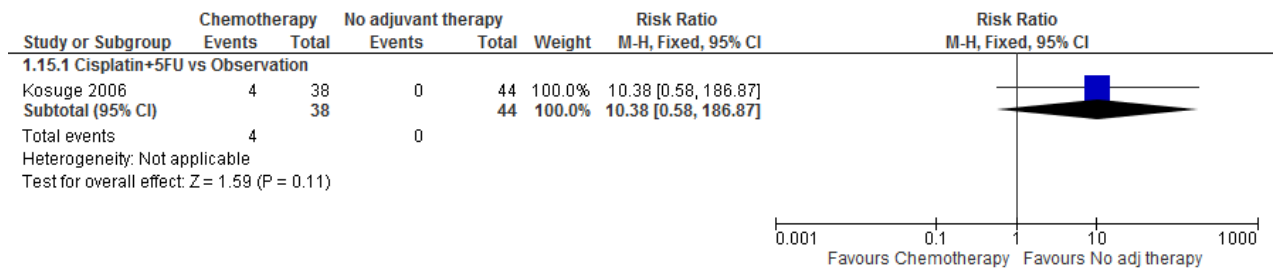
6

7 **Figure 291: # patients with Grade 3 or 4 fever**



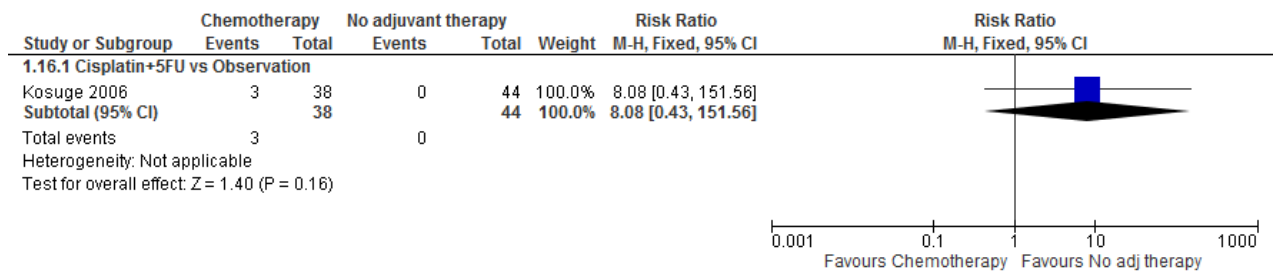
8

1 **Figure 292: # patients with Grade 3 or 4 granulocytopenia**



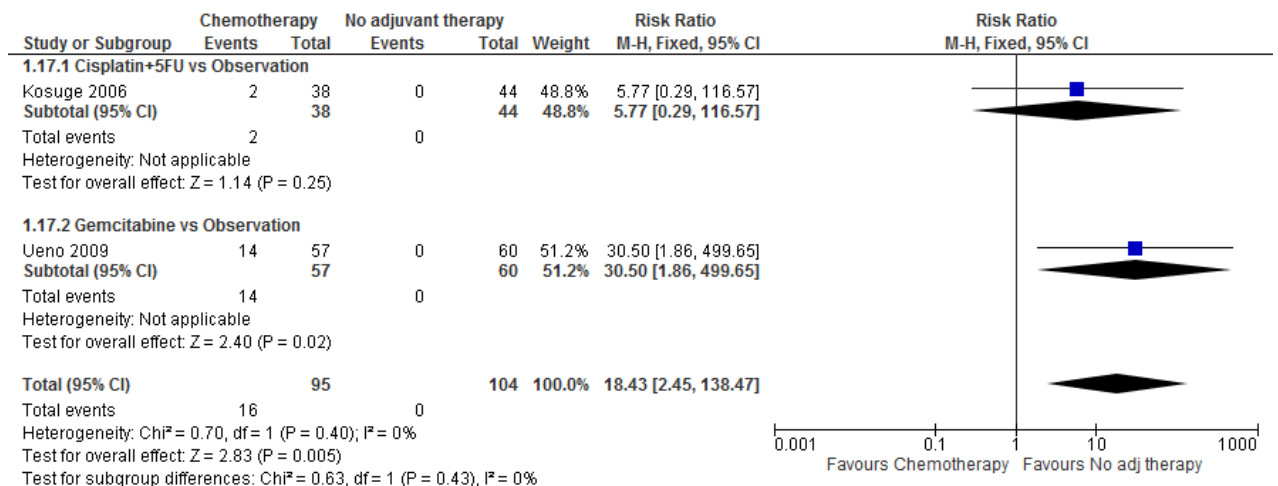
2

3 **Figure 293: # patients with Grade 3 or 4 hepatic**



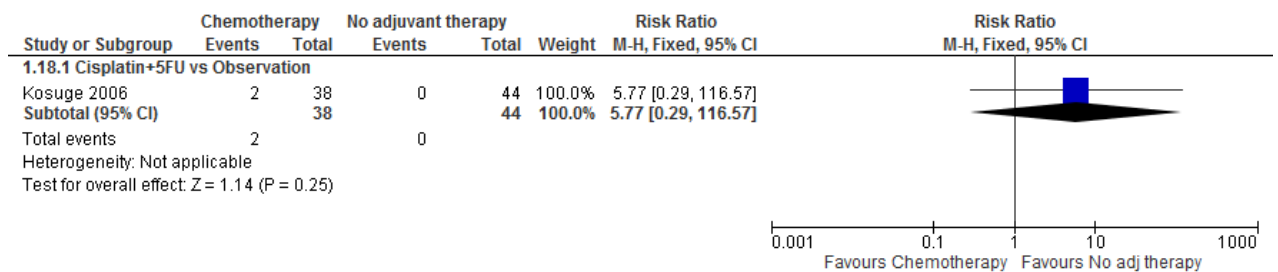
4

5 **Figure 294: # patients with Grade 3 or 4 leukopenia**



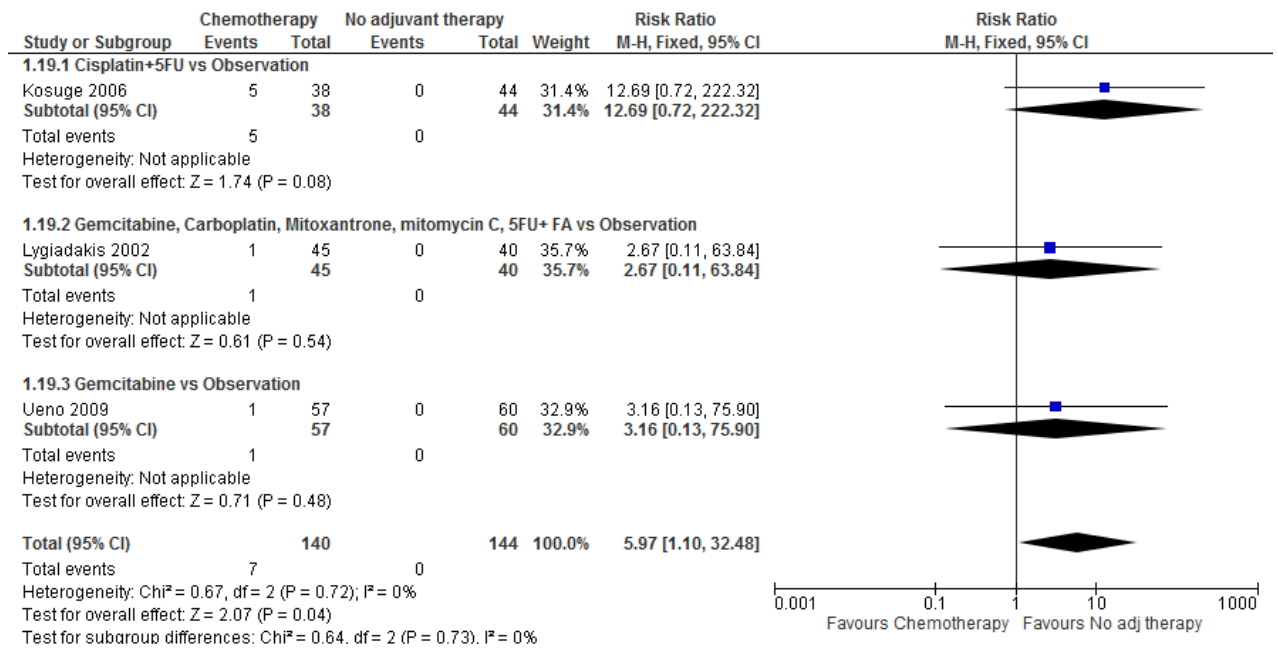
6

7 **Figure 295: # patients with Grade 3 or 4 mucositis**



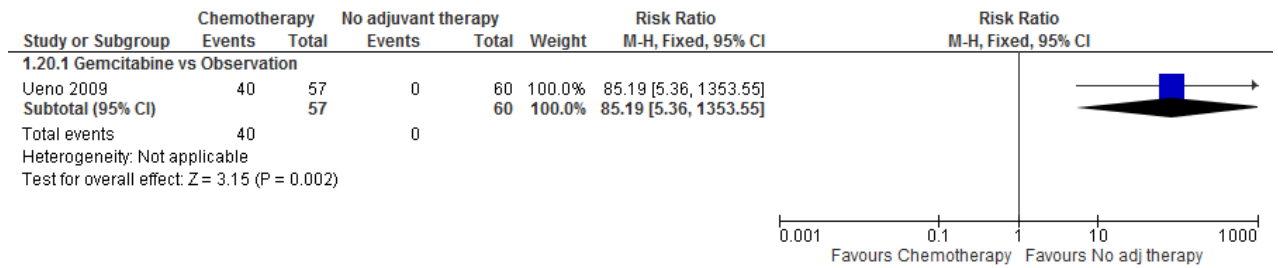
8

1 **Figure 296: # patients with Grade 3 or 4 nausea/vomiting**



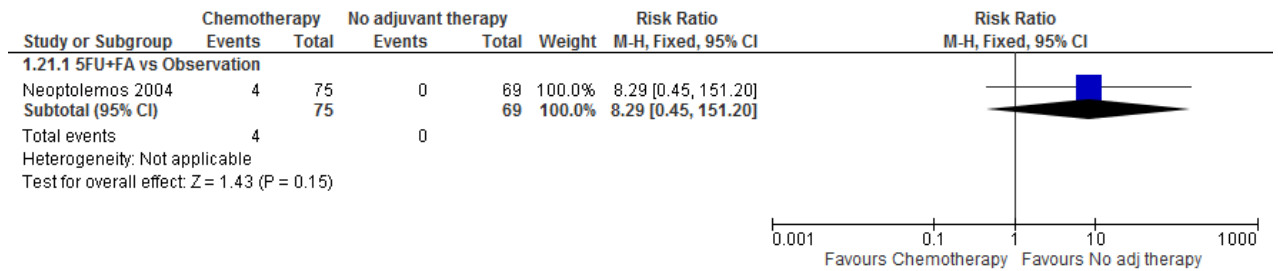
2

3 **Figure 297: # patients with Grade 3 or 4 neutropenia**



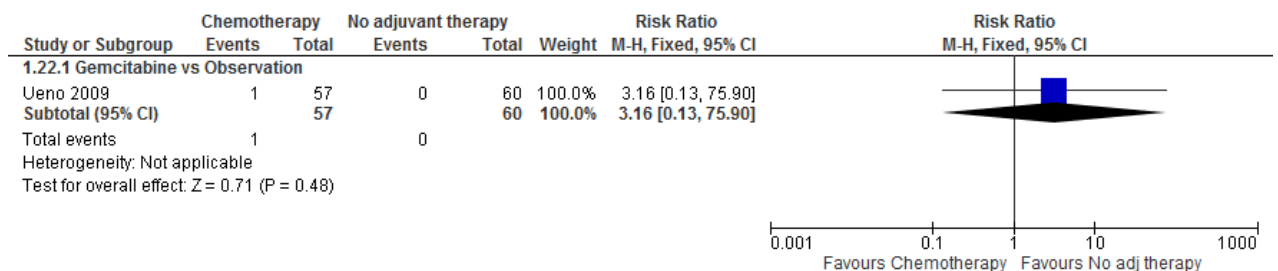
4

5 **Figure 298: # patients with Grade 3 or 4 stomatitis**



6

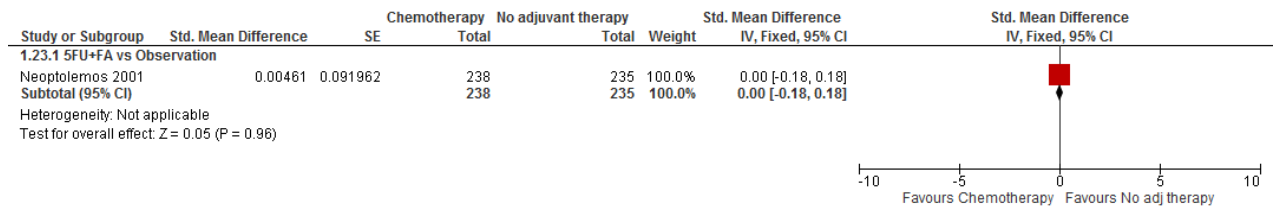
7 **Figure 299: # patients with Grade 3 or 4 thrombocytopenia**



8

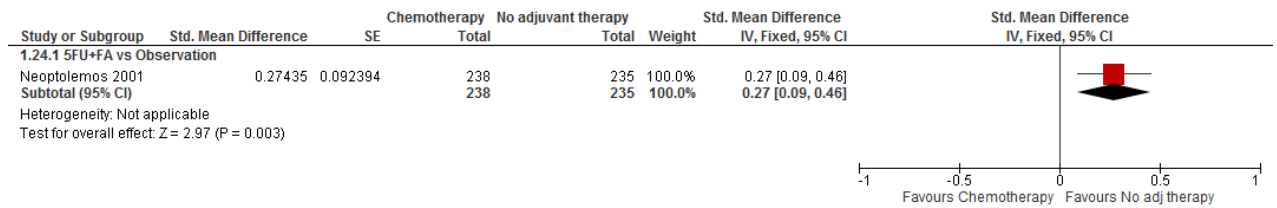


1 **Figure 300: ESPAC-1 QoL overall score – change scores**



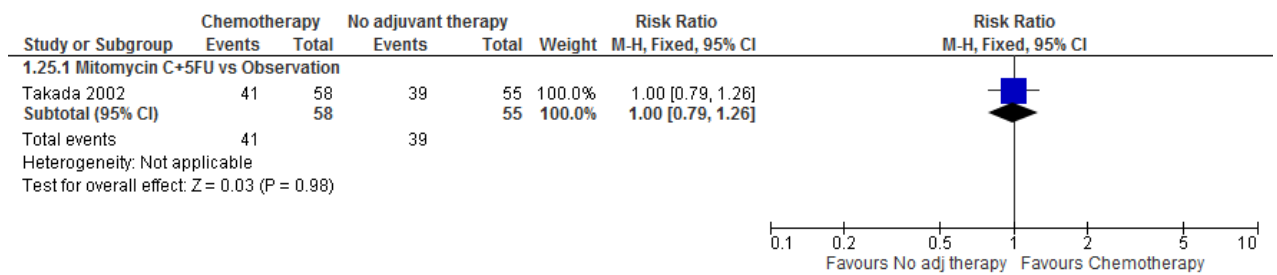
2

3 **Figure 301: # patients with improving ESPAC-1 QoL role functioning subscale scores**



4

5 **Figure 302: # patients improving by 1 or more ECOG performance score grade**

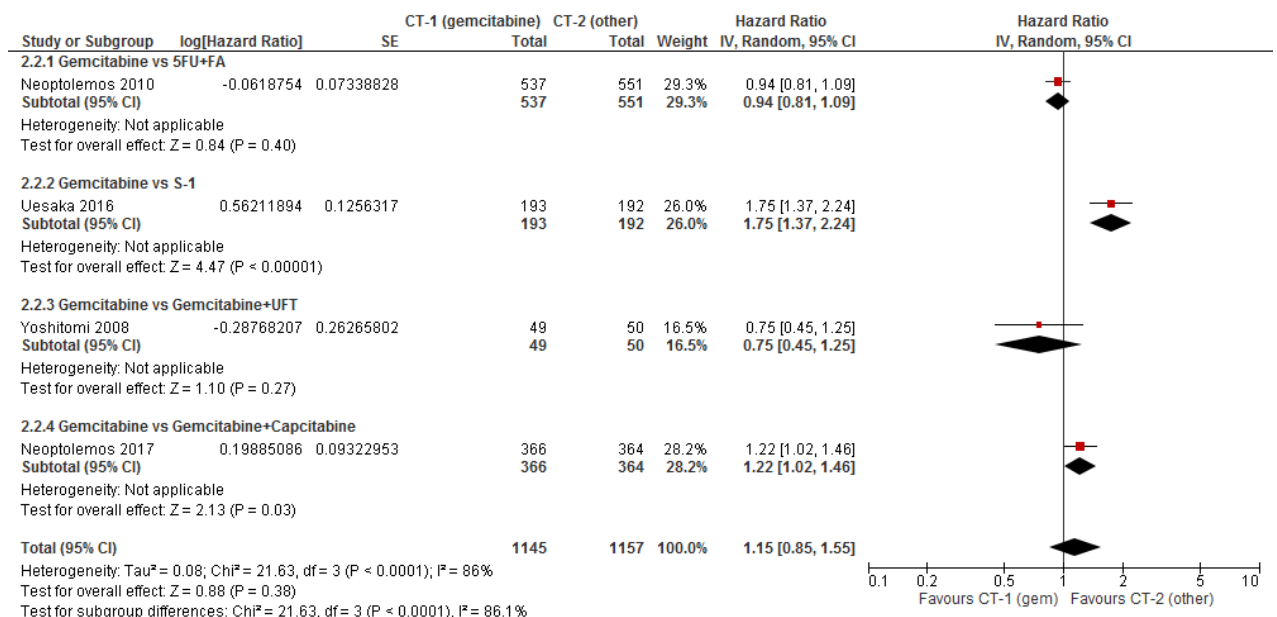


6

H.14.27 **Adjuvant chemotherapy-1 (gemcitabine) versus adjuvant chemotherapy-2 (other) in resected pancreatic cancer patients**

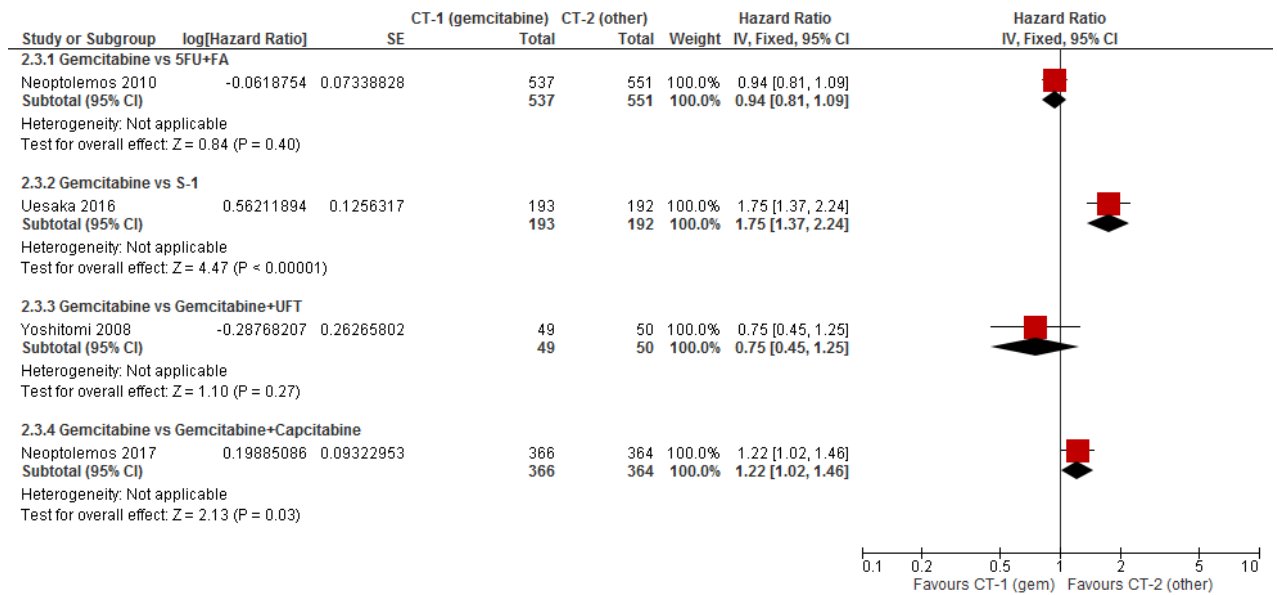
8

9 **Figure 303: Overall survival (random effects analysis)**



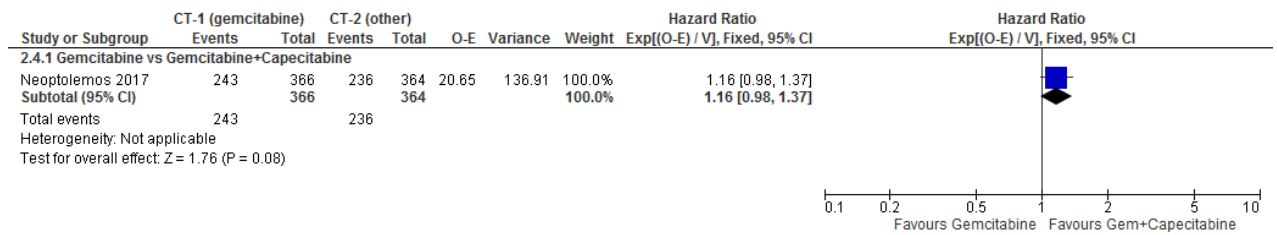
10

1 **Figure 304: Overall Survival (fixed effects analysis)**



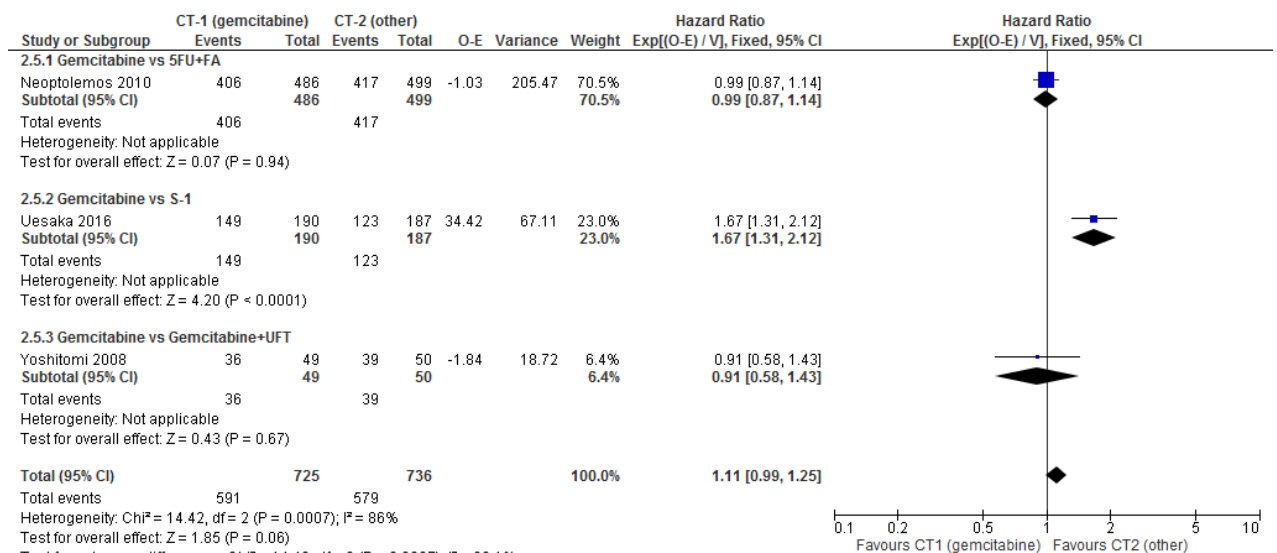
2

3 **Figure 305: Relapse-free Survival**



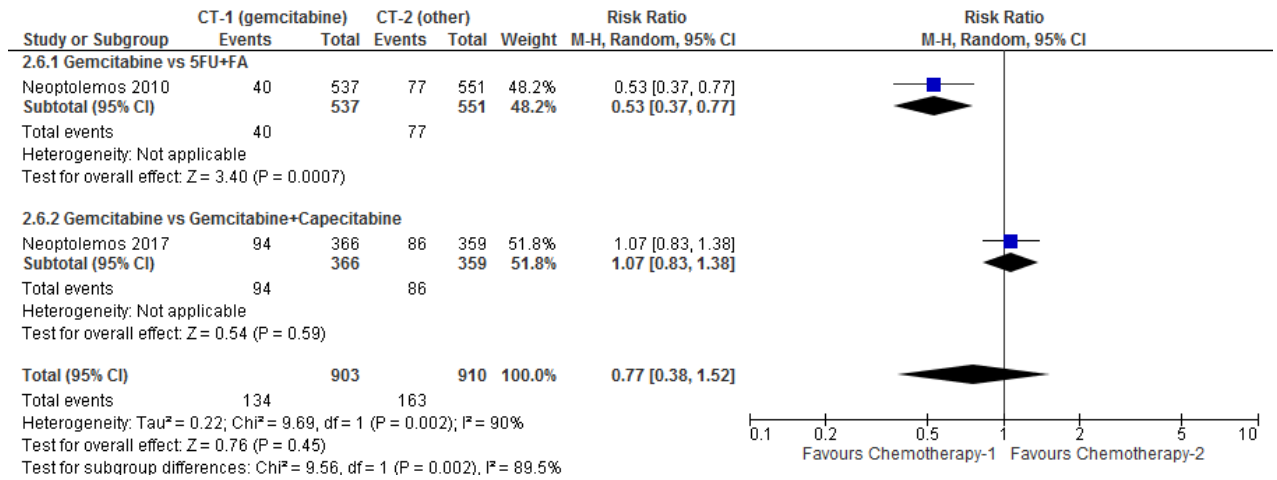
4

5 **Figure 306: Disease-free survival**

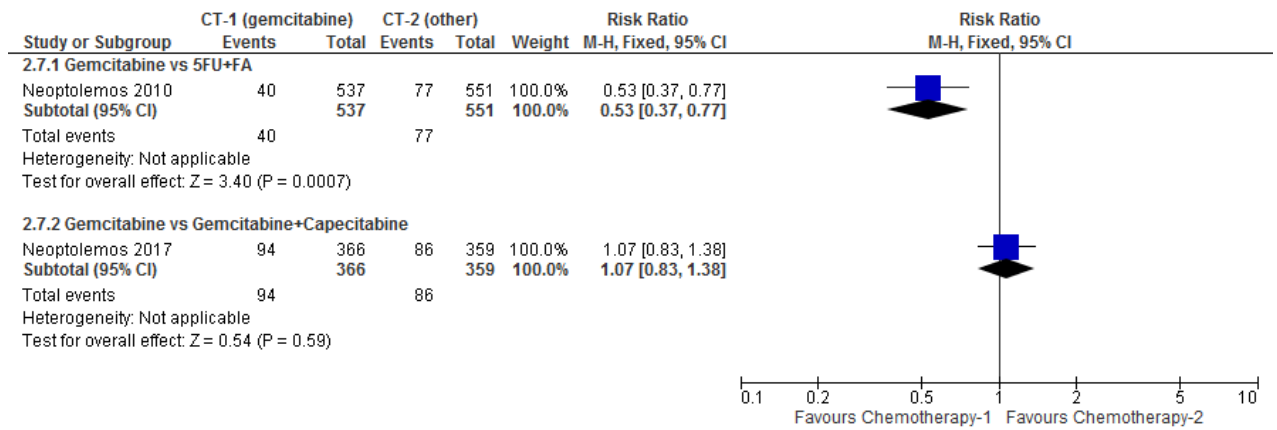


6

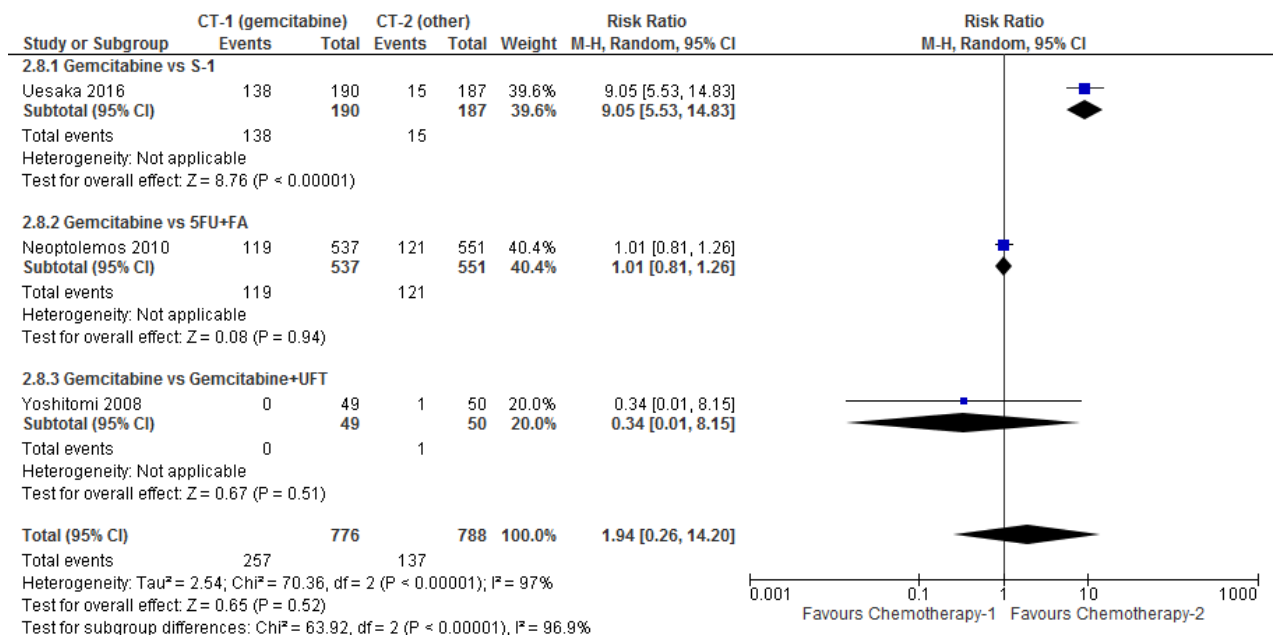
1 **Figure 307: # patients with serious treatment-related adverse events (random effects analysis)**  
2



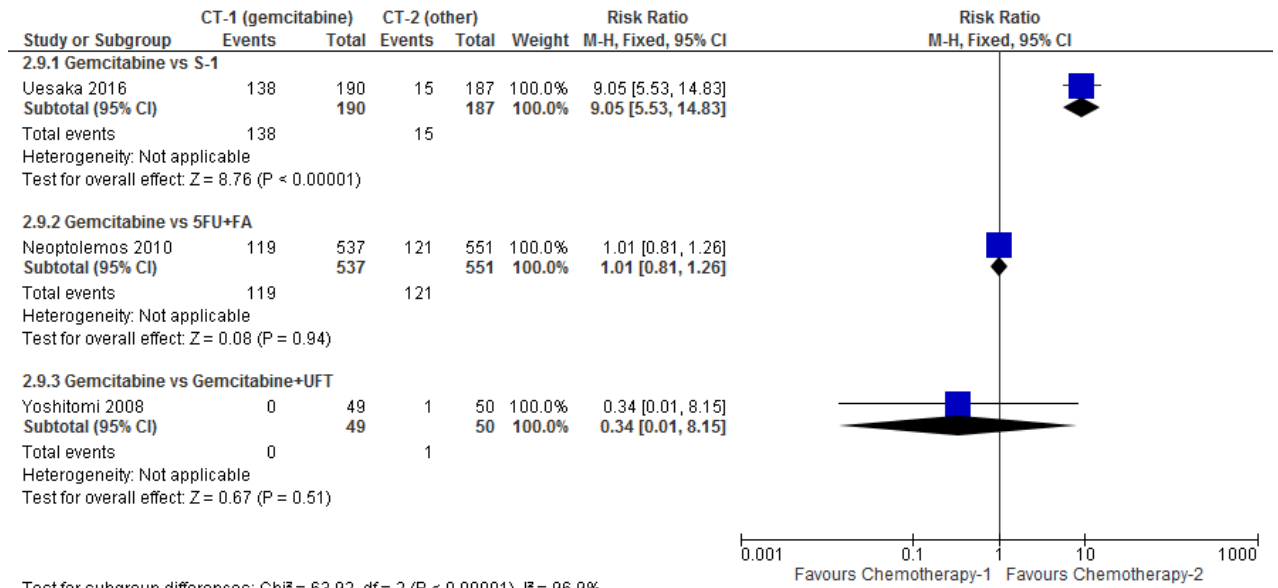
4 **Figure 308: # patients with serious treatment-related adverse events (fixed effects analysis)**  
5



7 **Figure 309: # patients with Grade 3 or 4 alanine aminotransferase/aspartate aminotransferase (random effects analysis)**  
8

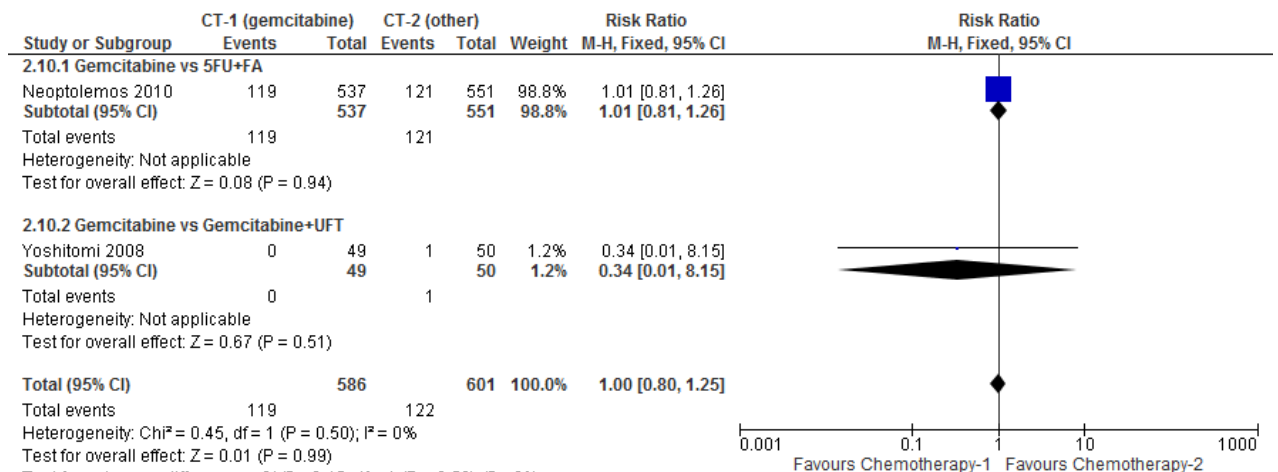


1 **Figure 310: # patients with Grade 3 or 4 alanine aminotransferase/aspartate**  
2 **aminotransferase (fixed effects analysis)**



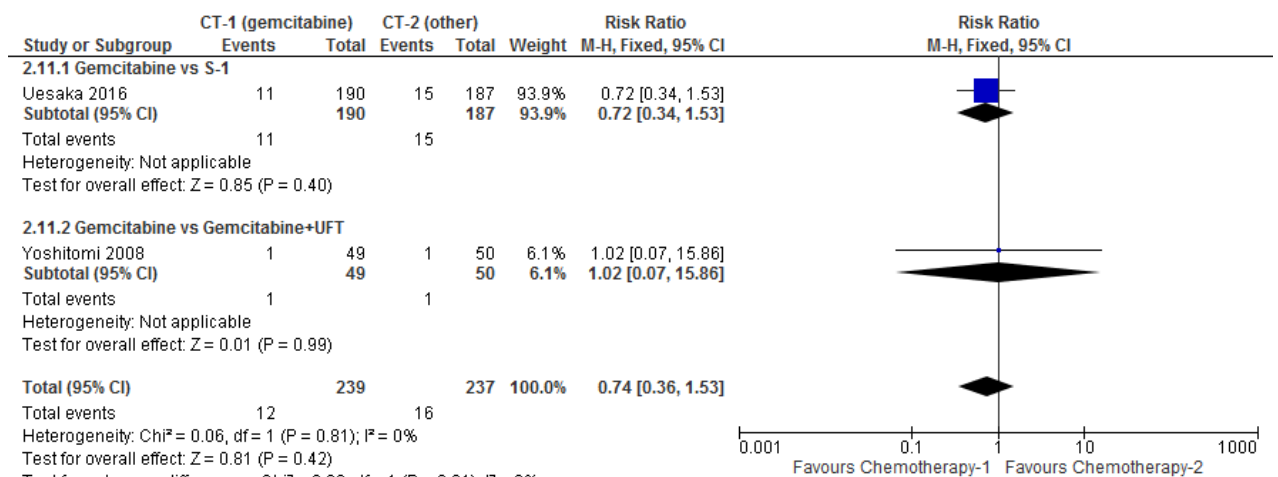
3 Test for subgroup differences: Chi<sup>2</sup> = 63.92, df = 2 (P < 0.00001), I<sup>2</sup> = 96.9%

4 **Figure 311: # patients with Grade 3 or 4 alanine aminotransferase/aspartate**  
5 **aminotransferase (fixed effects – sensitivity analysis)**



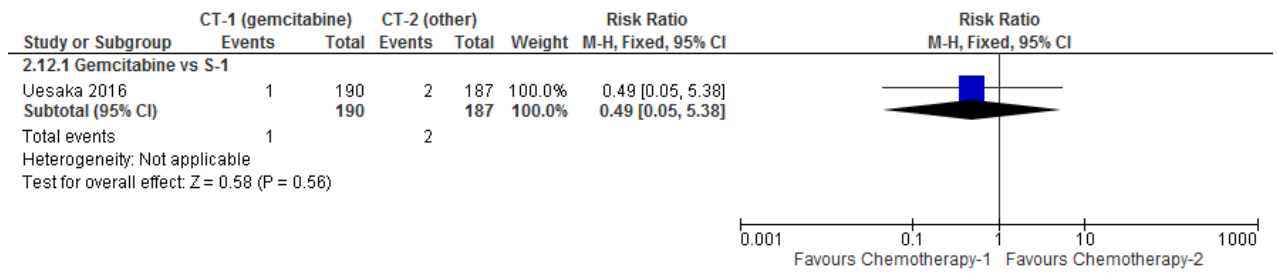
6 Test for subgroup differences: Chi<sup>2</sup> = 0.45, df = 1 (P = 0.50), I<sup>2</sup> = 0%

7 **Figure 312: # patients with Grade 3 or 4 anorexia**



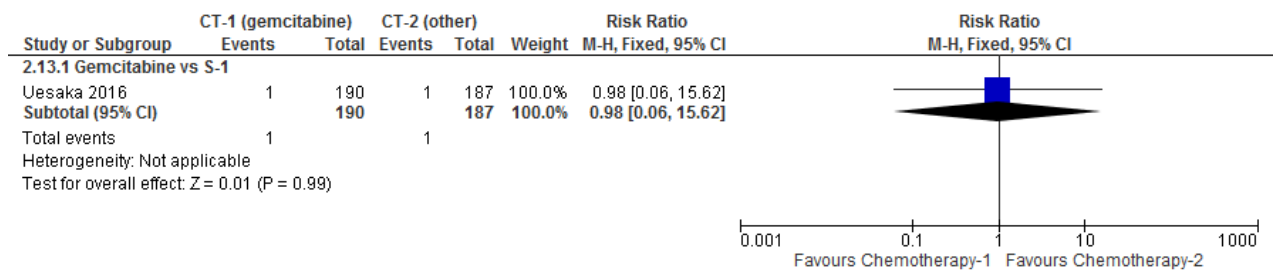
8 Test for subgroup differences: Chi<sup>2</sup> = 0.06, df = 1 (P = 0.81), I<sup>2</sup> = 0%

1 **Figure 313: # patients with Grade 3 or 4 bilirubin**



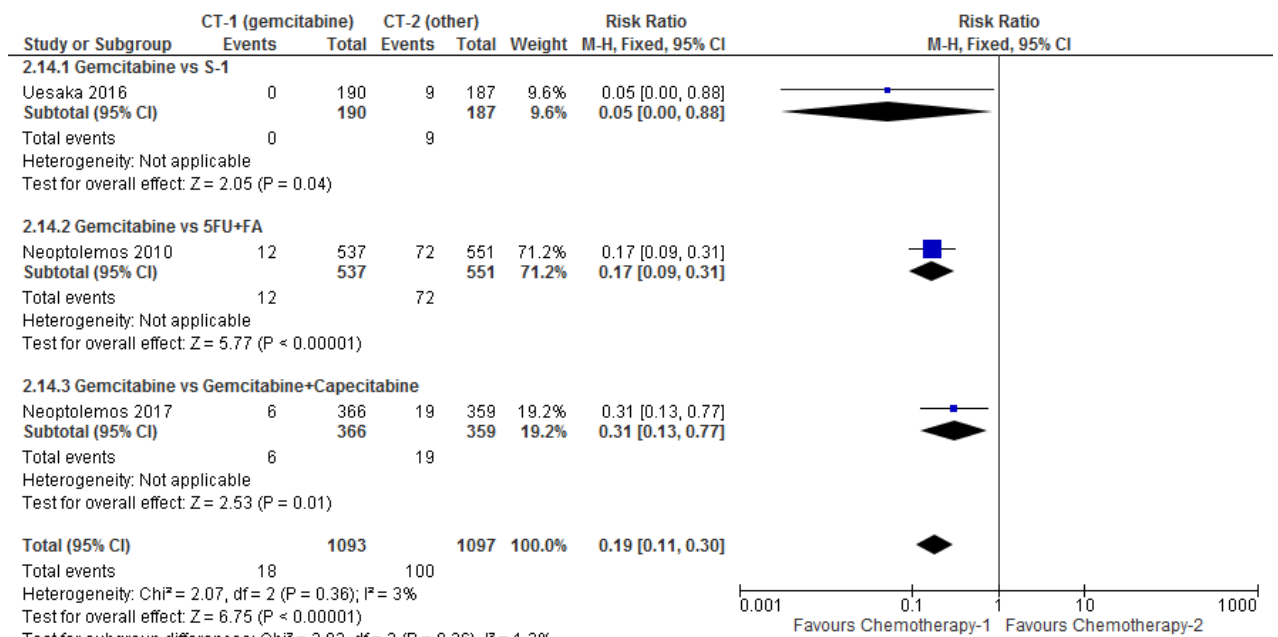
2

3 **Figure 314: # patients with Grade 3 or 4 creatinine**



4

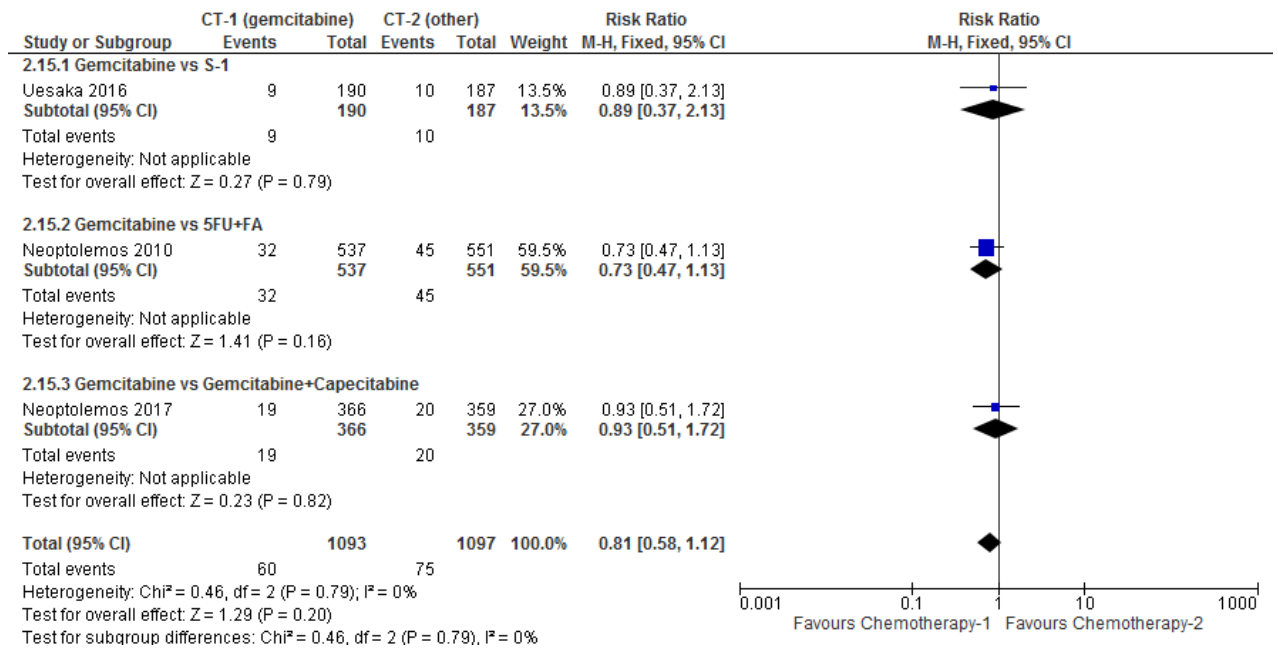
5 **Figure 315: # patients with Grade 3 or 4 diarrhoea**



6

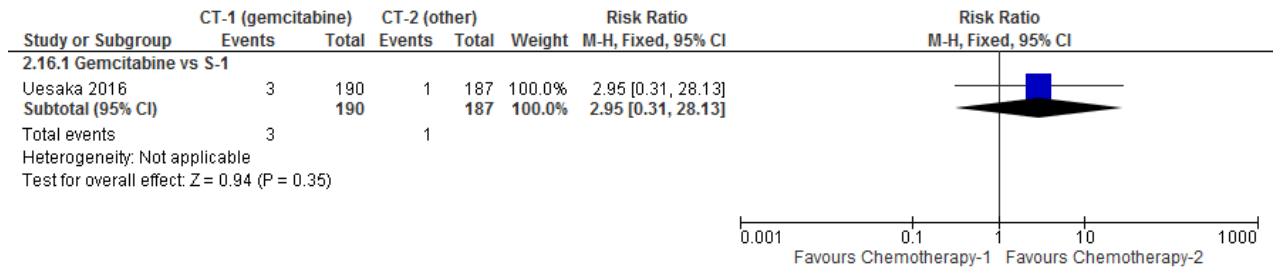
Test for subgroup differences: Chi<sup>2</sup> = 2.02, df = 2 (P = 0.36), I<sup>2</sup> = 1.2%

1 **Figure 316: # patients with Grade 3 or 4 fatigue/tiredness**



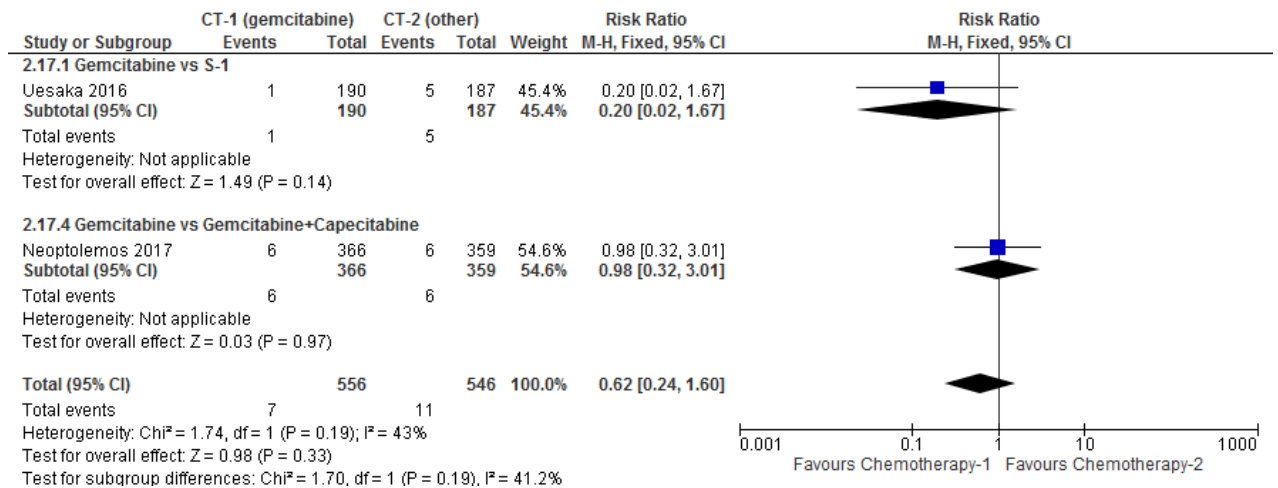
2

3 **Figure 317: # patients with Grade 3 or 4 febrile neutropenia**



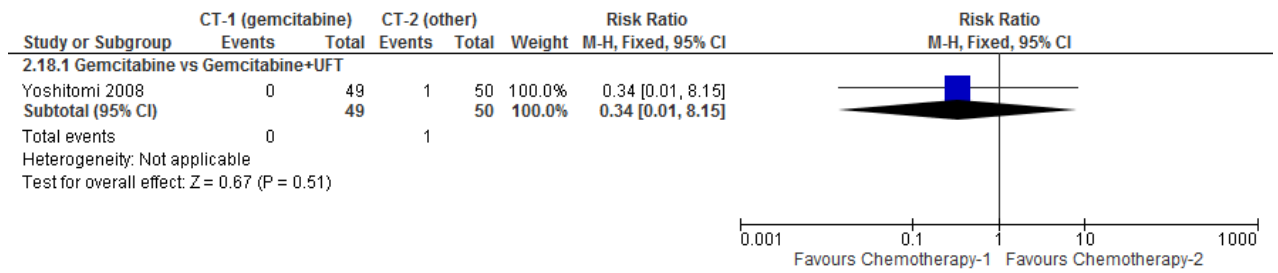
4

5 **Figure 318: # patients with Grade 3 or 4 fever**



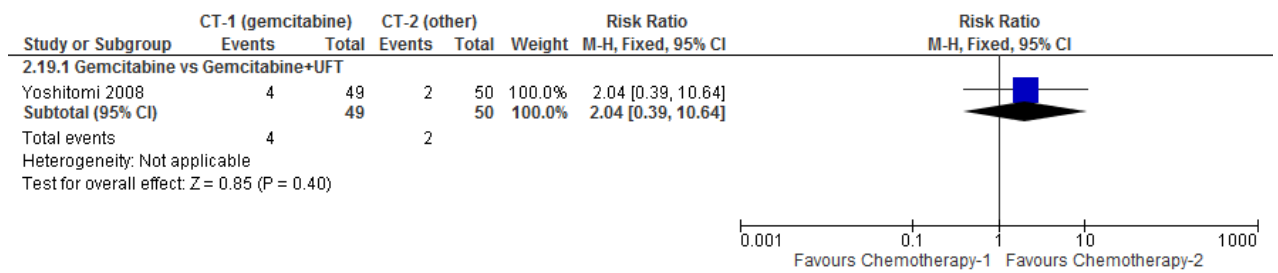
6

1 **Figure 319: # patients with Grade 3 or 4 glucose intolerance**



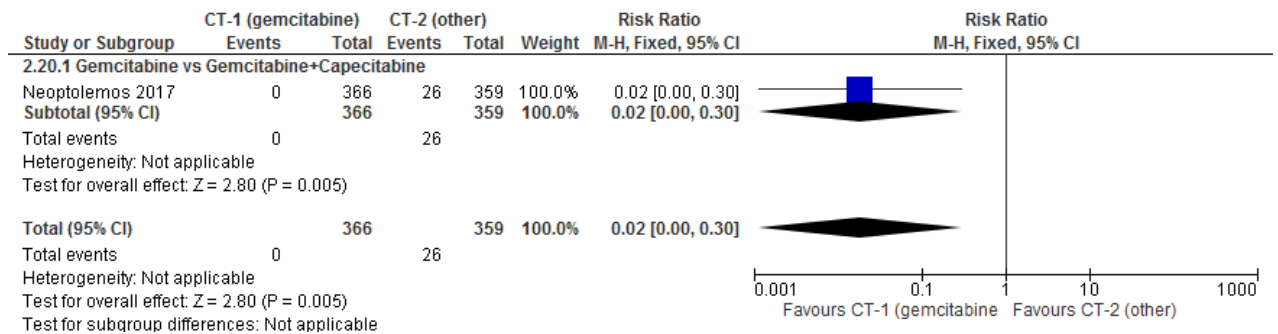
2

3 **Figure 320: # patients with Grade 3 or 4 haemoglobin**



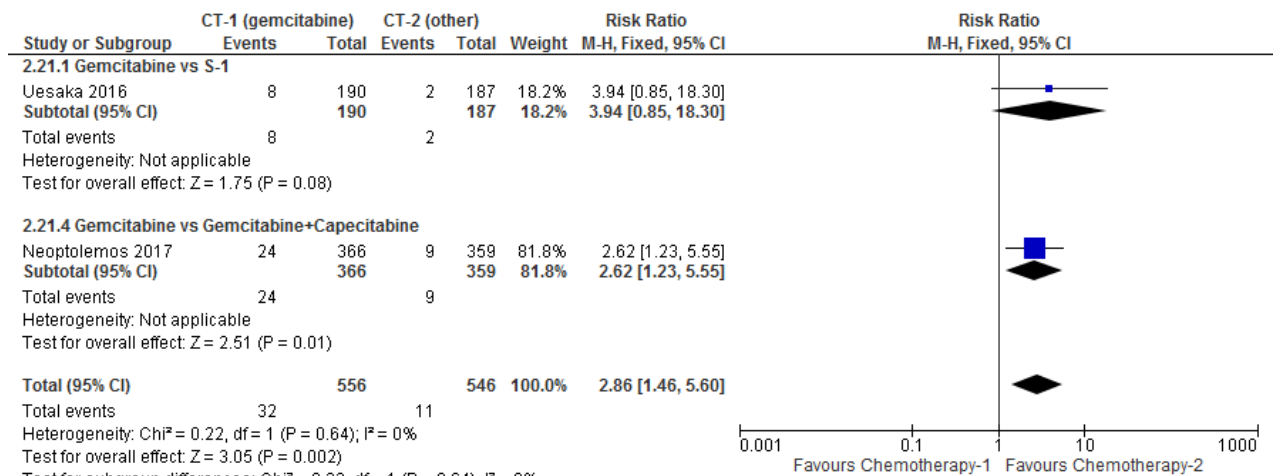
4

5 **Figure 321: # patients with Grade 3 or 4 hand foot syndrome**



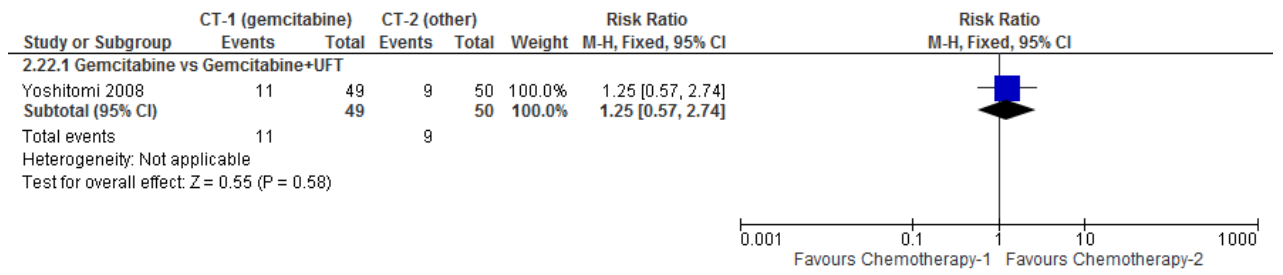
6

7 **Figure 322: # patients with Grade 3 or 4 infection**



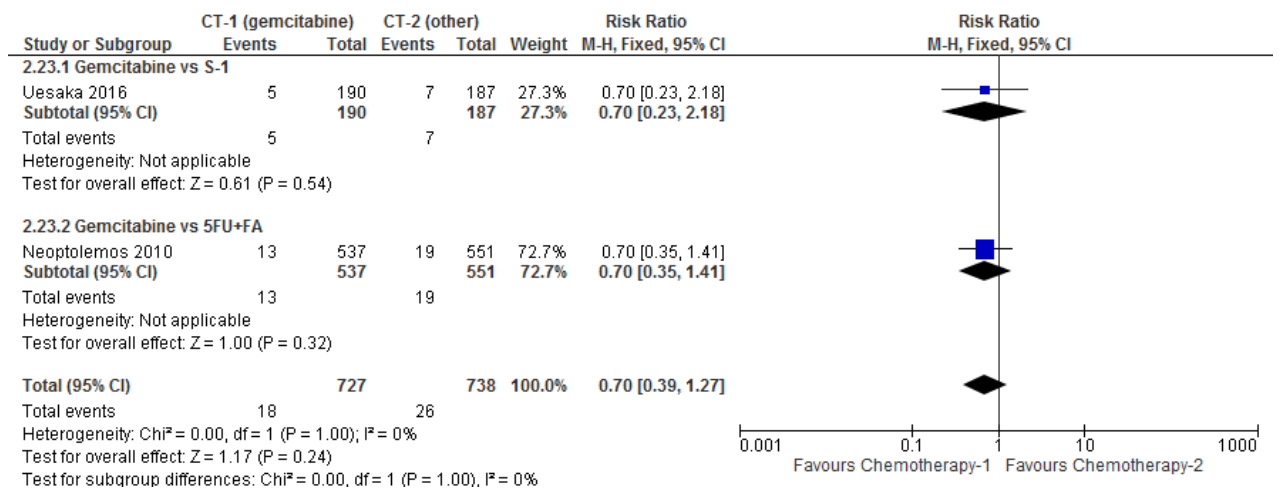
8

1 **Figure 323: # patients with Grade 3 or 4 leukocytes**



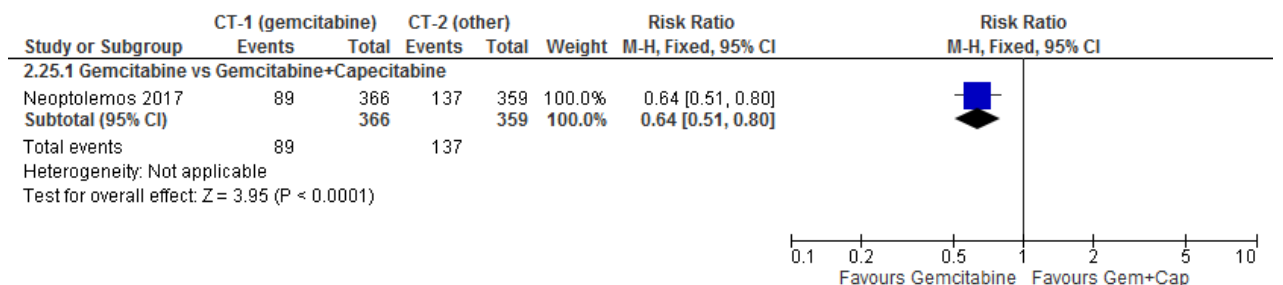
2

3 **Figure 324: # patients with Grade 3 or 4 nausea**



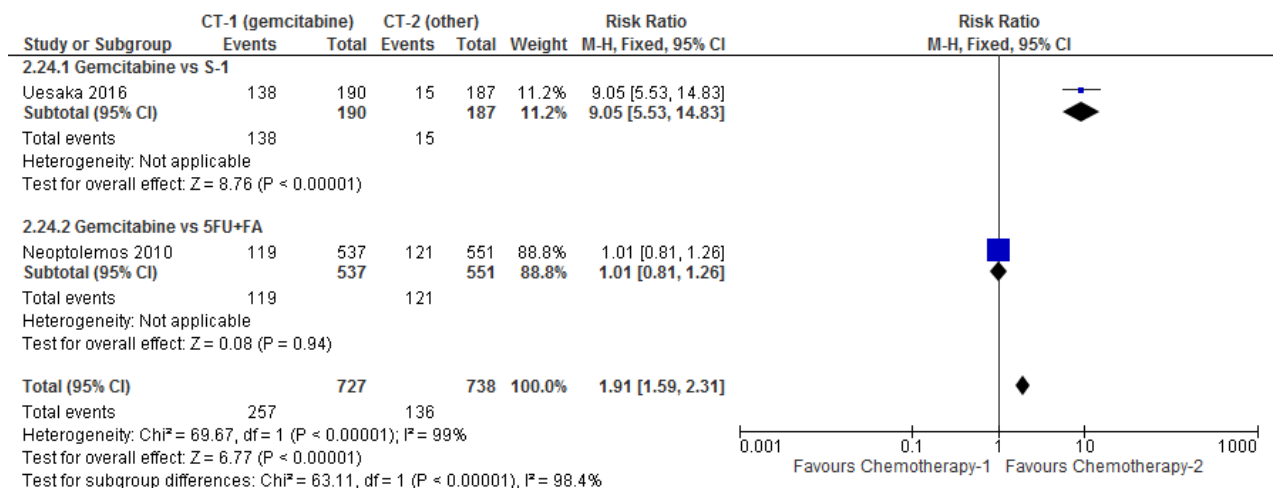
4

5 **Figure 325: # patients with Grade 3 or 4 neutropenia**



6

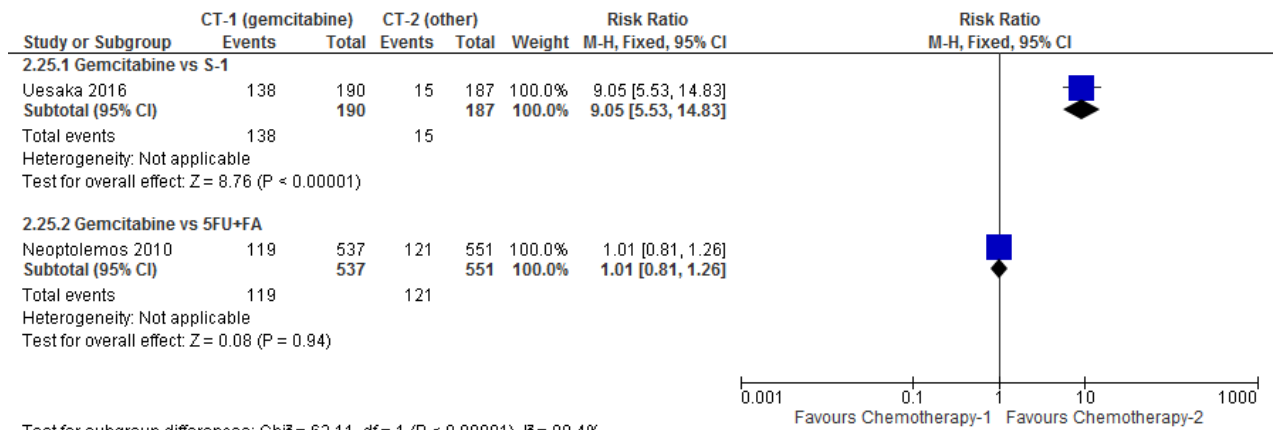
7 **Figure 326: # patients with Grade 3 or 4 neutrophils (random effects)**



8

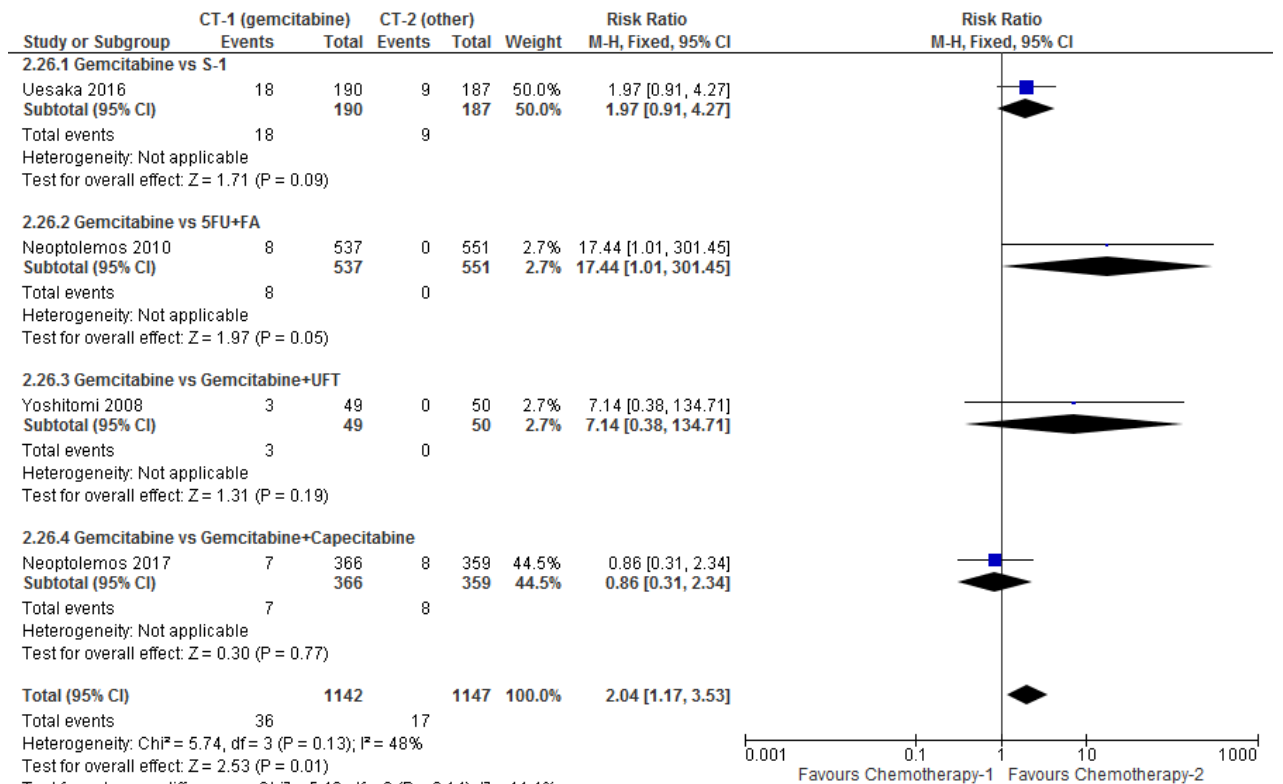


1 **Figure 327: # patients with Grade 3 or 4 neutrophils (fixed effects)**



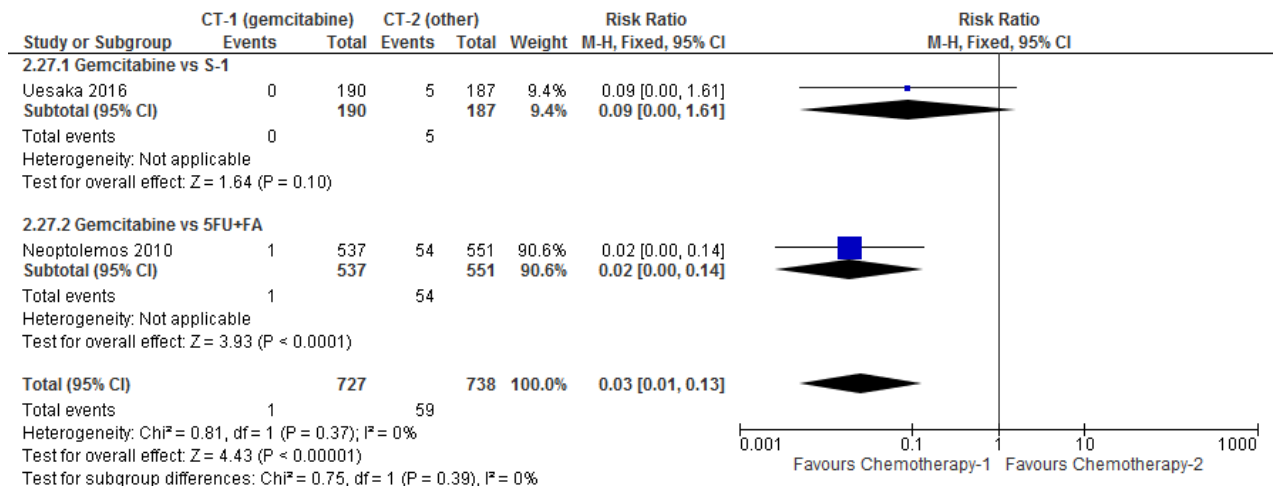
2 Test for subgroup differences: Chi<sup>2</sup> = 63.11, df = 1 (P < 0.00001), I<sup>2</sup> = 98.4%

3 **Figure 328: # patients with Grade 3 or 4 platelets**



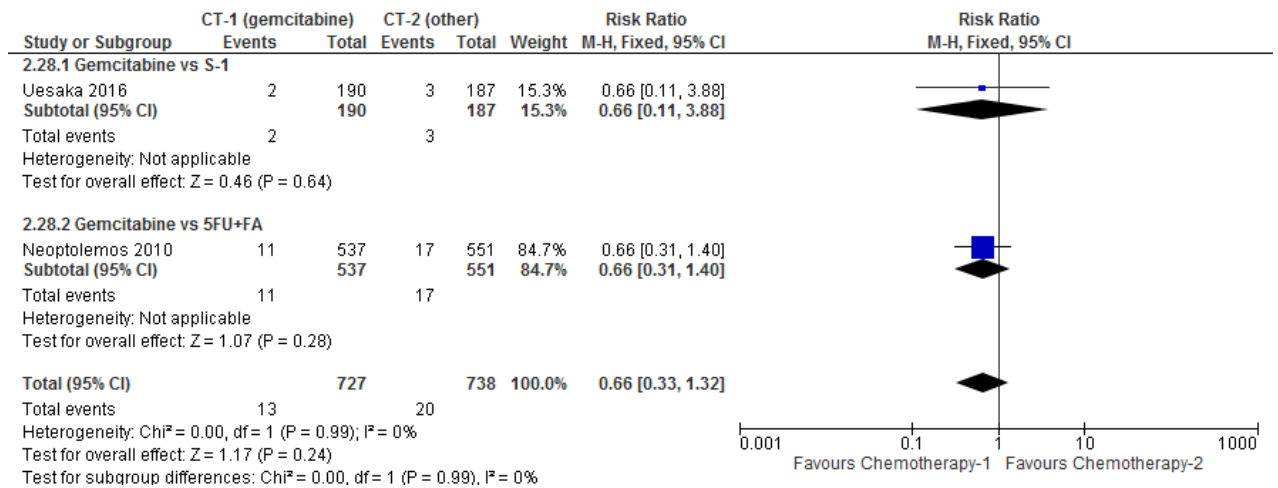
4 Test for subgroup differences: Chi<sup>2</sup> = 5.40, df = 3 (P = 0.14), I<sup>2</sup> = 44.4%

1 **Figure 329: # patients with Grade 3 or 4 stomatitis**



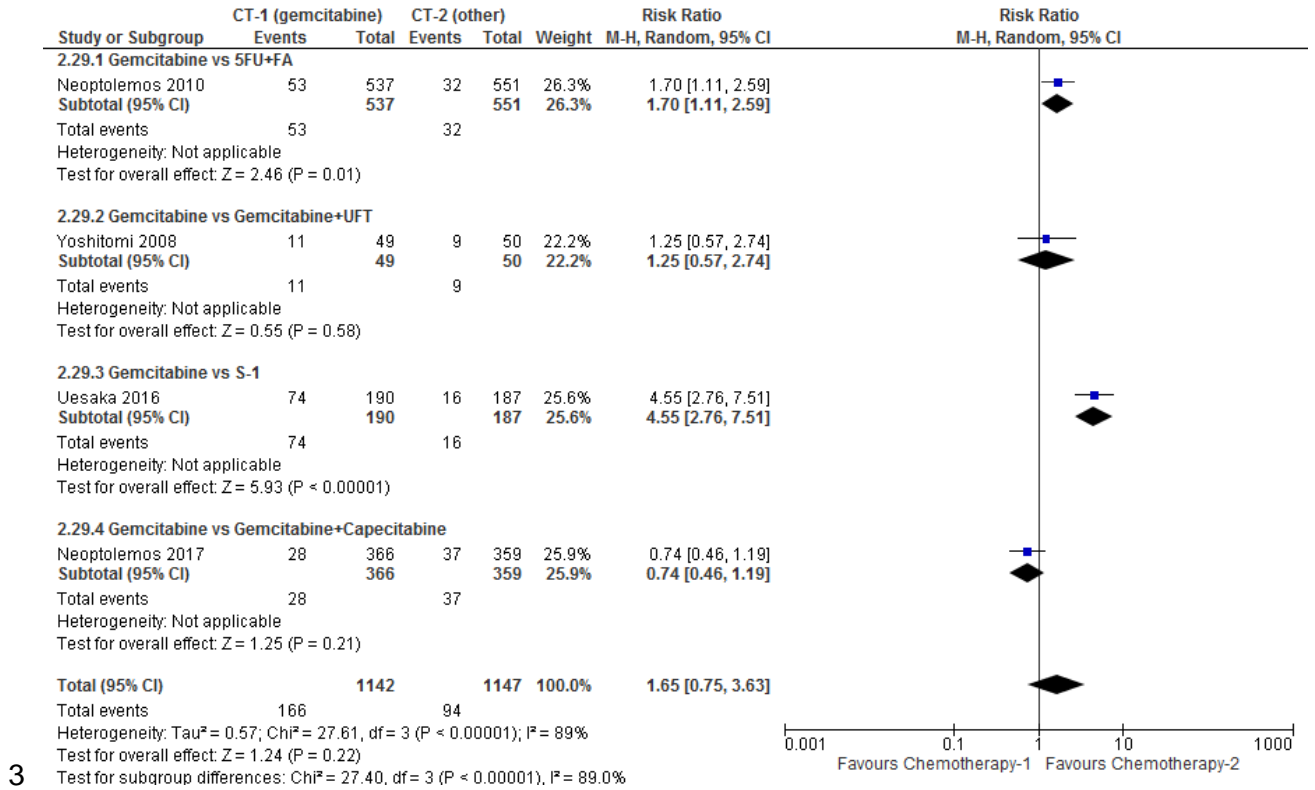
2

3 **Figure 330: # patients with Grade 3 or 4 vomiting**

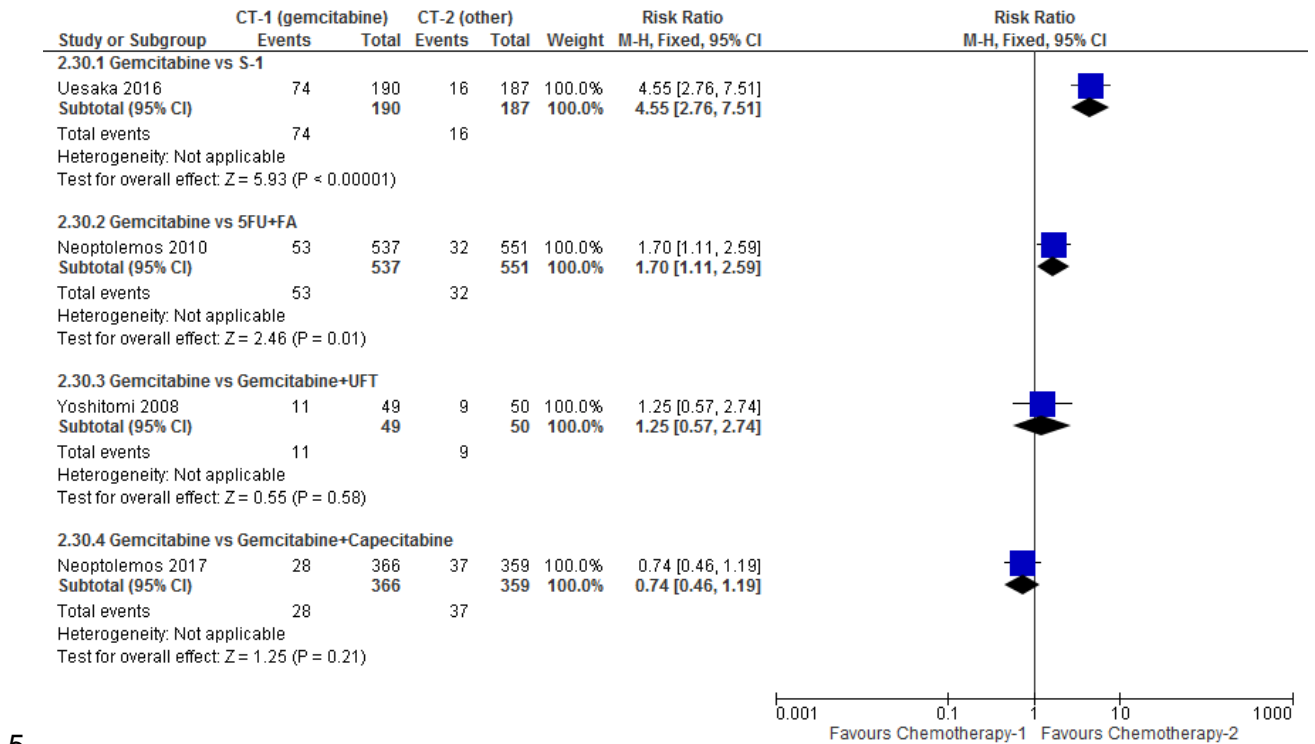


4

1 **Figure 331: # patients with Grade 3 or 4 white blood cell count (random effects analysis)**

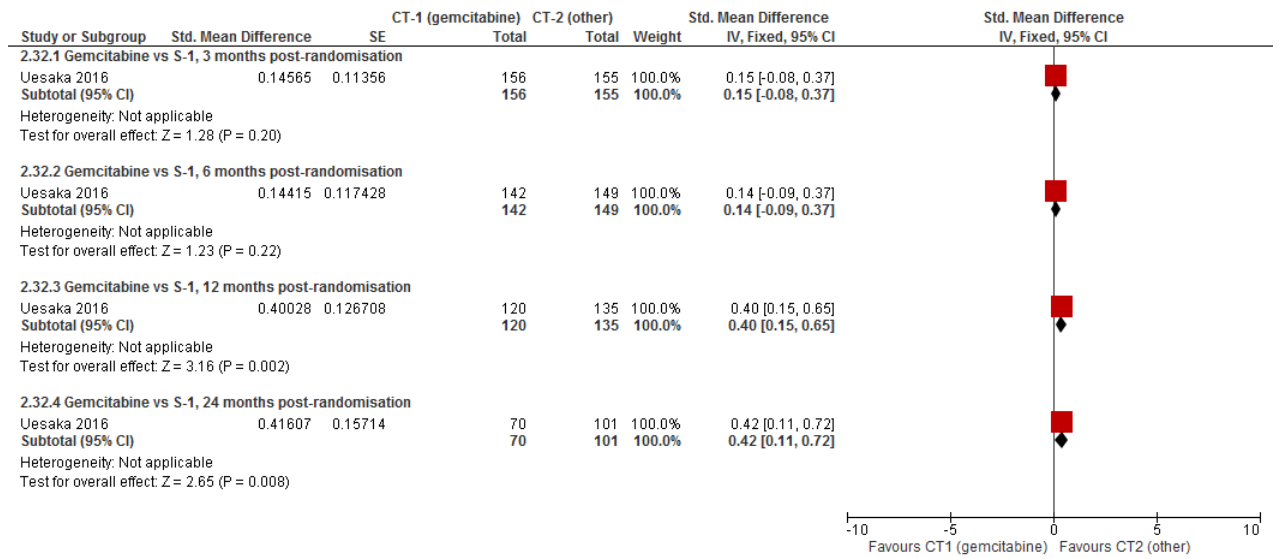


4 **Figure 332: # patients with Grade 3 or 4 white blood cell count (fixed effects analysis)**



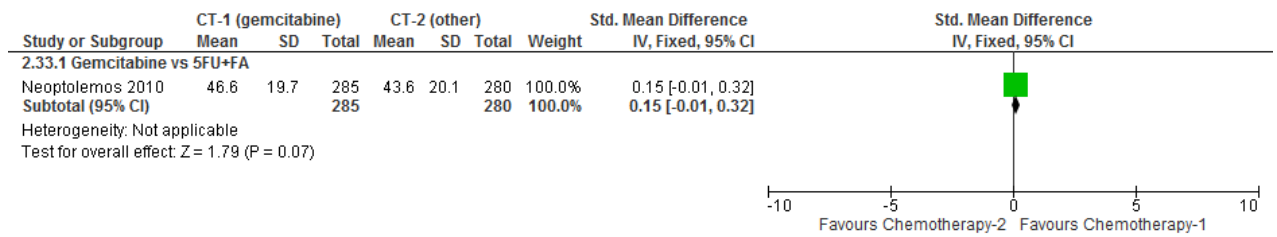
5

1 **Figure 333: EQ-5D Quality of Life**



2

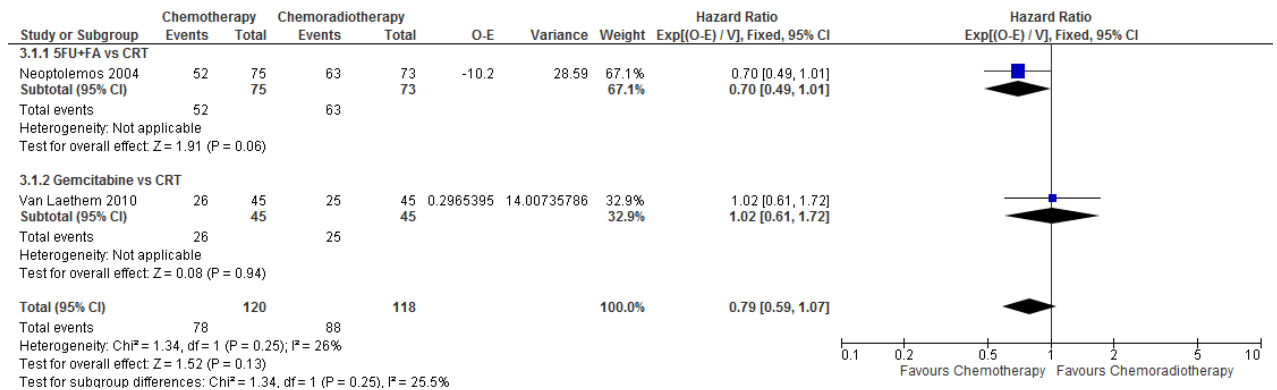
3 **Figure 334: Global quality of life**



4

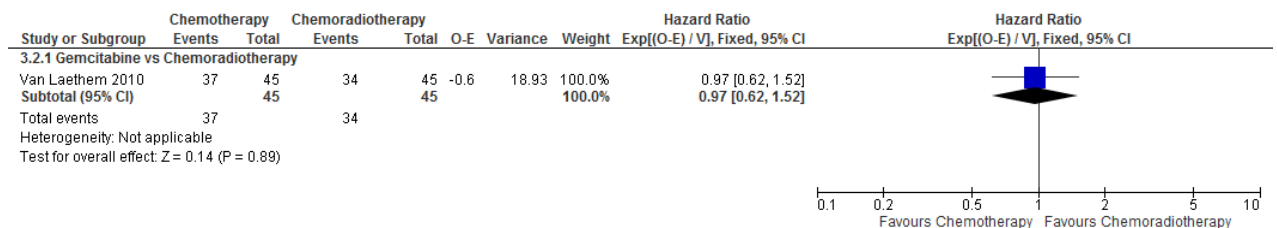
H.14.35 **Adjuvant chemotherapy versus adjuvant chemoradiotherapy in resected pancreatic cancer patients**

7 **Figure 335: Overall survival**



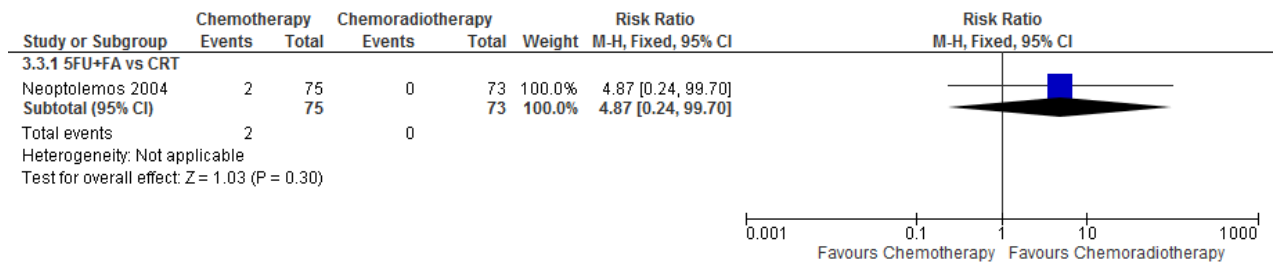
8

9 **Figure 336: Disease-free survival**



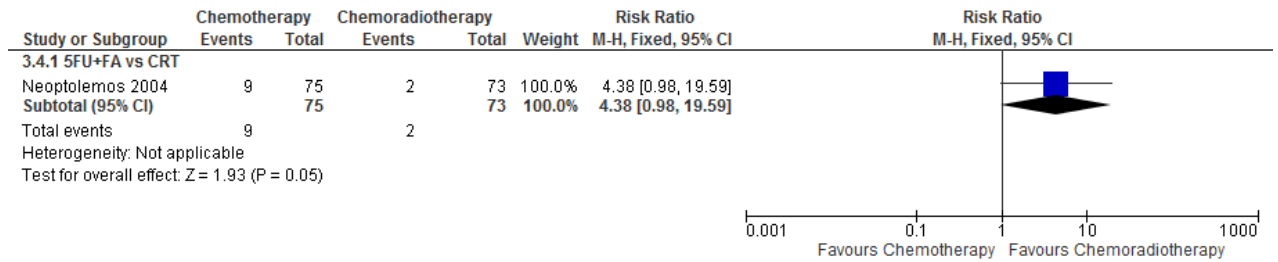
10

1 **Figure 337: # patients with any Grade 3 or 4 haematological toxicity**



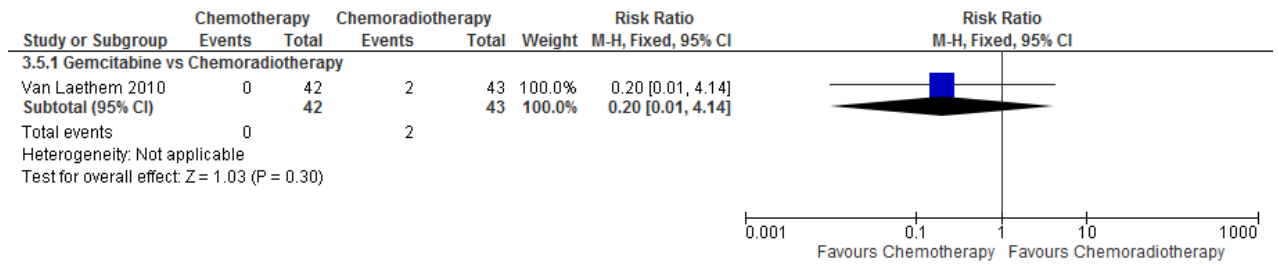
2

3 **Figure 338: # patients with any Grade 3 or 4 non-haematological toxicity**



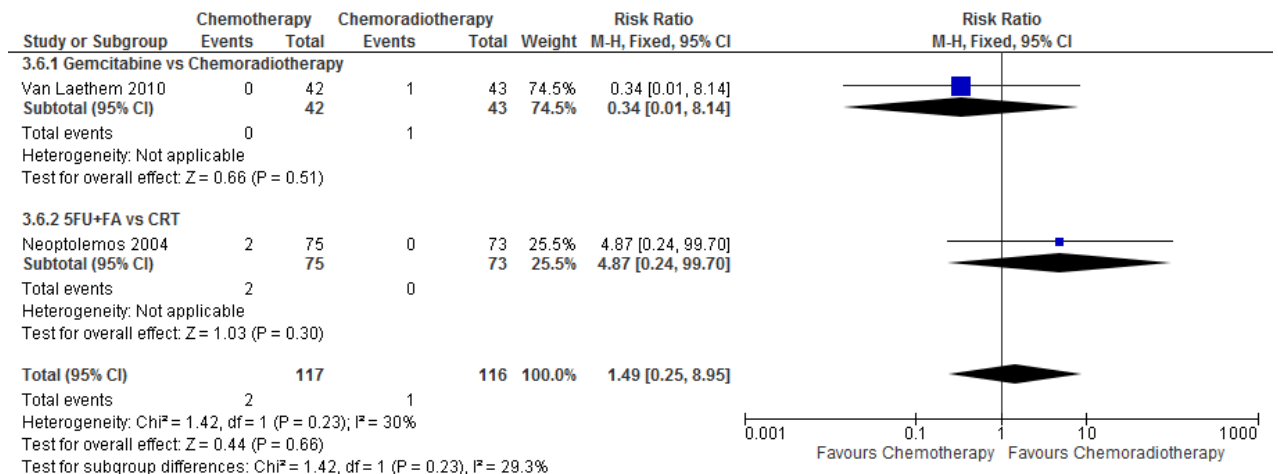
4

5 **Figure 339: # patients with Grade 3 or 4 anorexia**



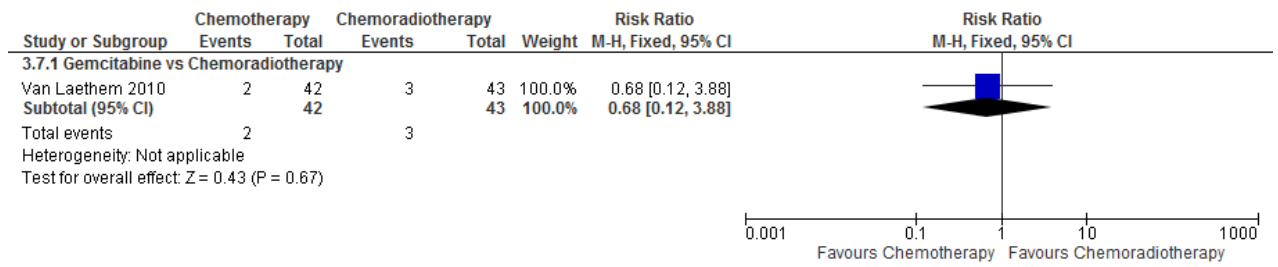
6

7 **Figure 340: # patients with Grade 3 or 4 diarrhoea**



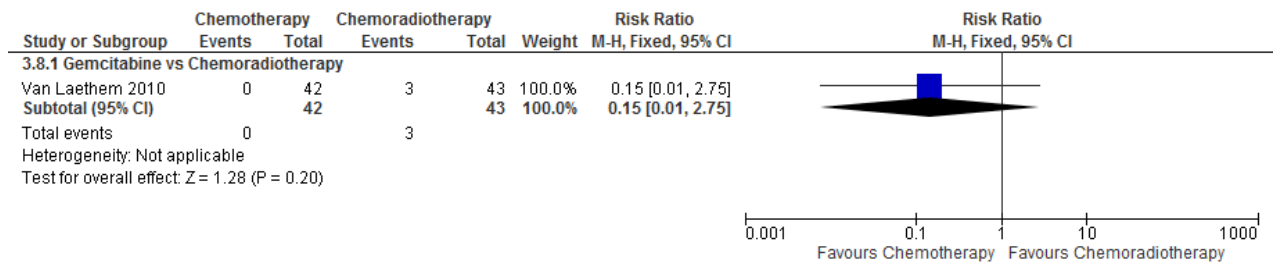
8

1 **Figure 341: # patients with Grade 3 or 4 fatigue**



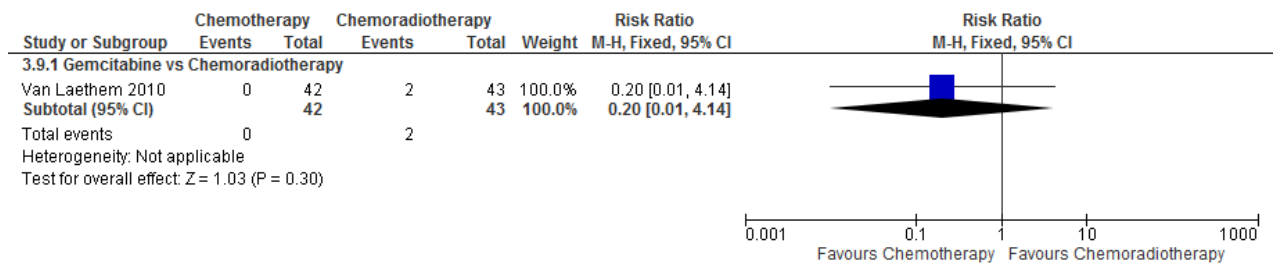
2

3 **Figure 342: # patients with Grade 3 or 4 fever**



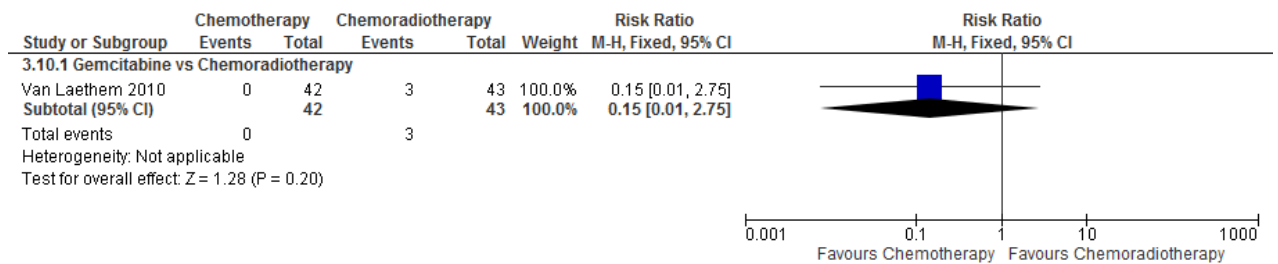
4

5 **Figure 343: # patients with Grade 3 or 4 gastritis**



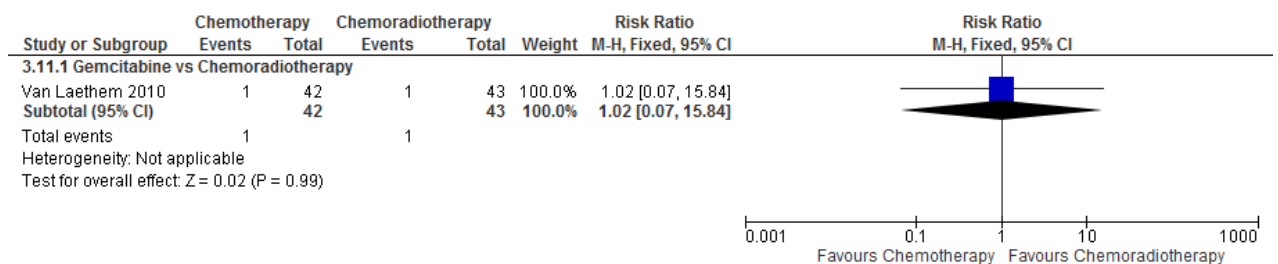
6

7 **Figure 344: # patients with Grade 3 or 4 haemoglobin**



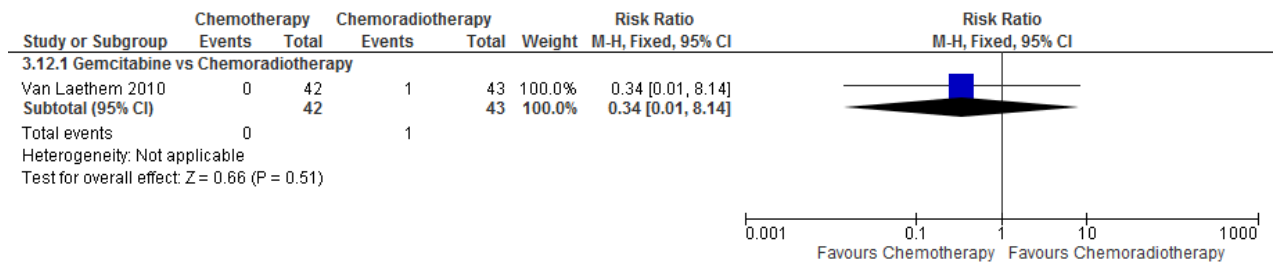
8

9 **Figure 345: # patients with Grade 3 or 4 haemorrhage**



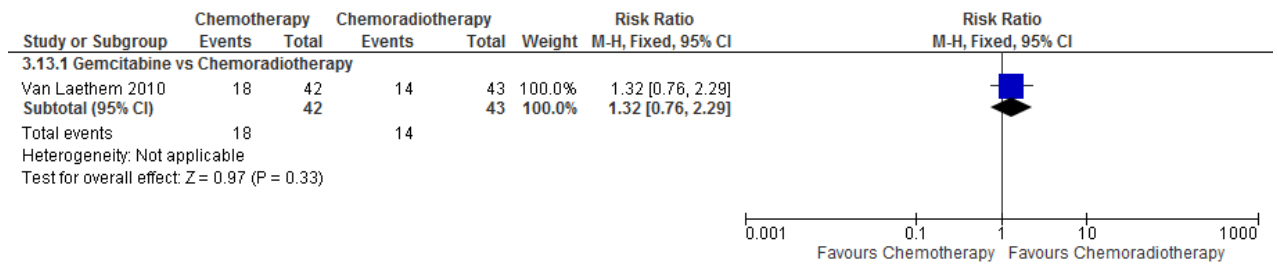
10

1 **Figure 346: # patients with Grade 3 or 4 nausea**



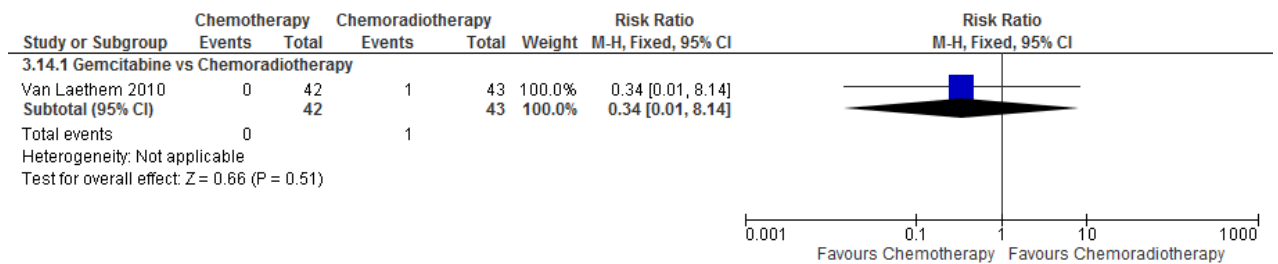
2

3 **Figure 347: # patients with Grade 3 or 4 neutrophils**



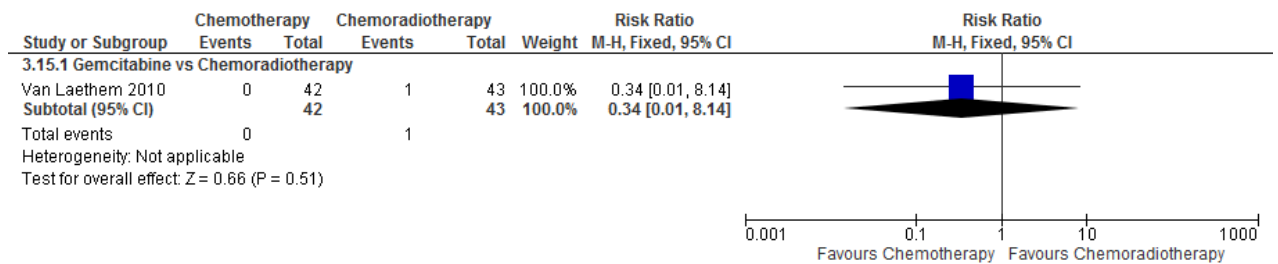
4

5 **Figure 348: # patients with Grade 3 or 4 other gastrointestinal toxicity**



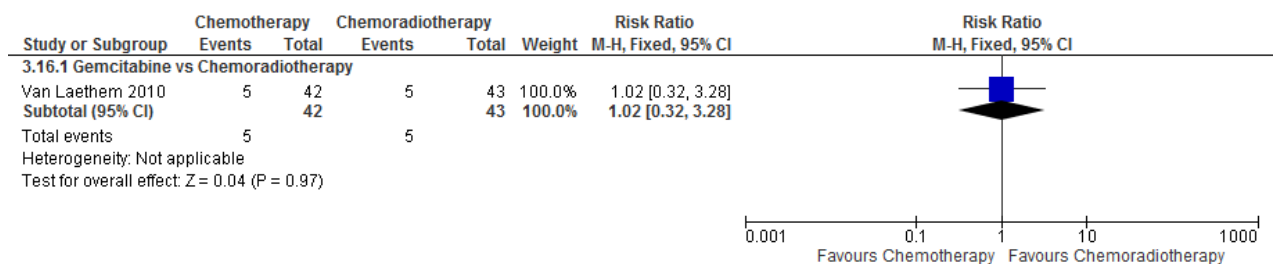
6

7 **Figure 349: # patients with Grade 3 or 4 platelets**



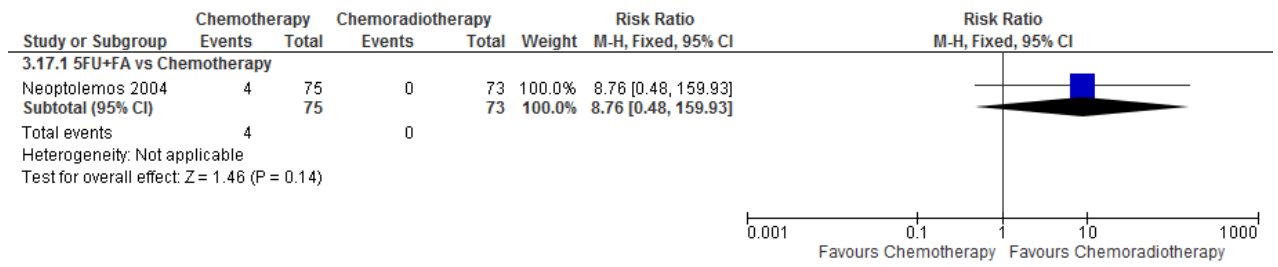
8

9 **Figure 350: # patients with Grade 3 or 4 serum glutamicpyruvic transaminase**



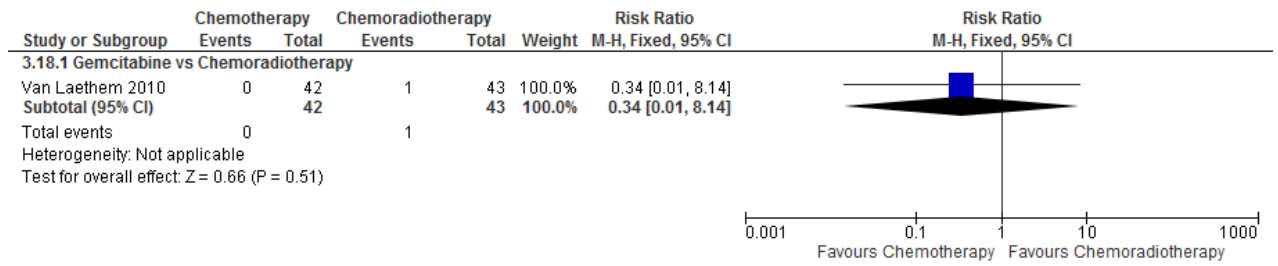
10

1 **Figure 351: # patients with Grade 3 or 4 stomatitis**



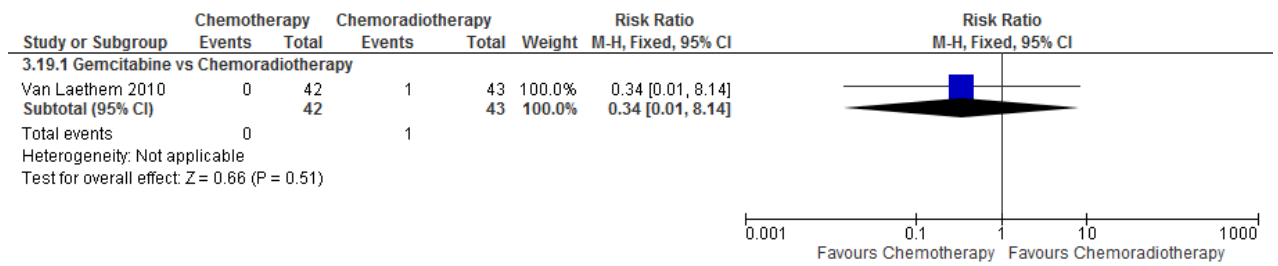
2

3 **Figure 352: # patients with Grade 3 or 4 vomiting**



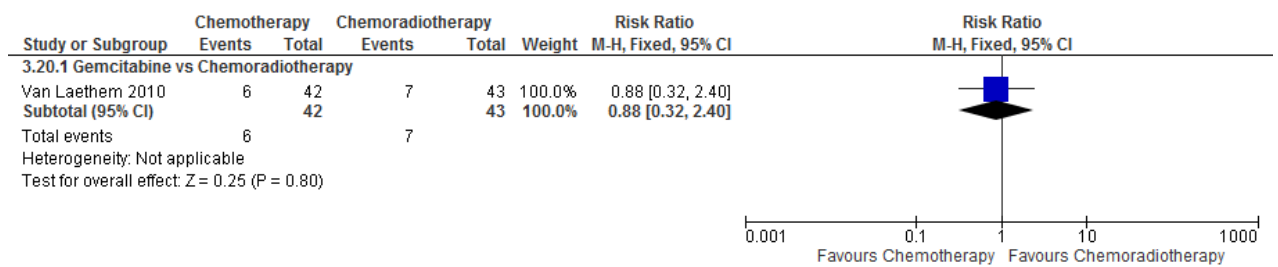
4

5 **Figure 353: # patients with Grade 3 or 4 weight loss**



6

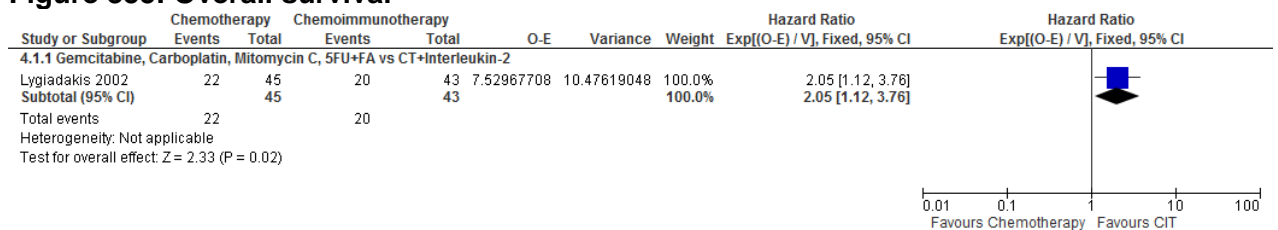
7 **Figure 354: # patients with Grade 3 or 4 white blood cell count**



8

H.14.49 **Adjuvant chemotherapy versus adjuvant chemoimmunotherapy in resected pancreatic cancer patients**

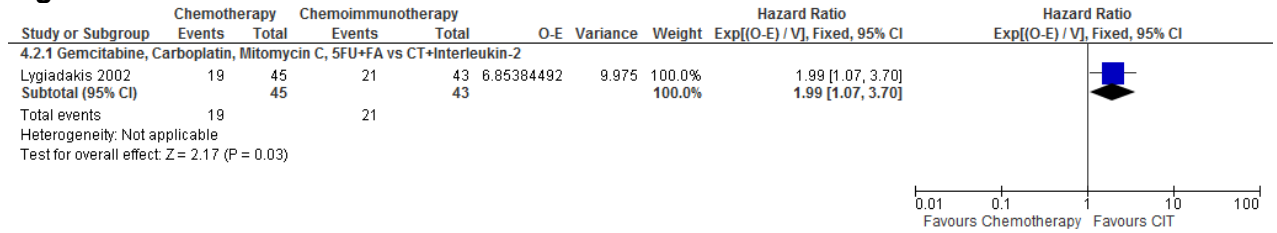
11 **Figure 355: Overall survival**



12

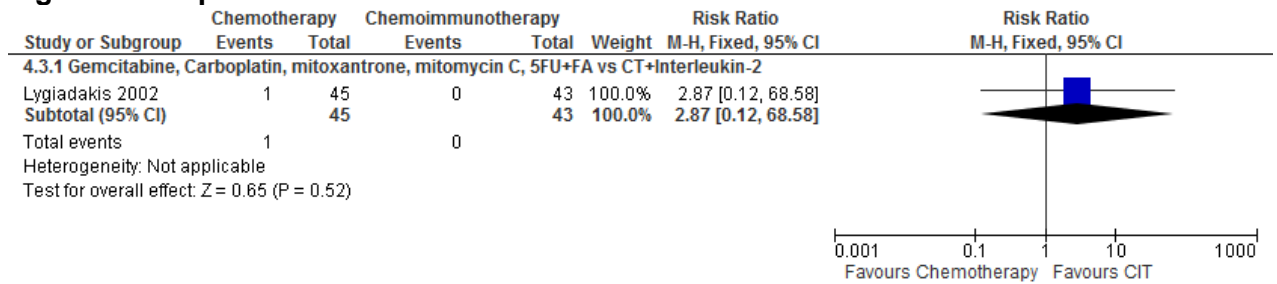


1 **Figure 356: Disease-free survival**



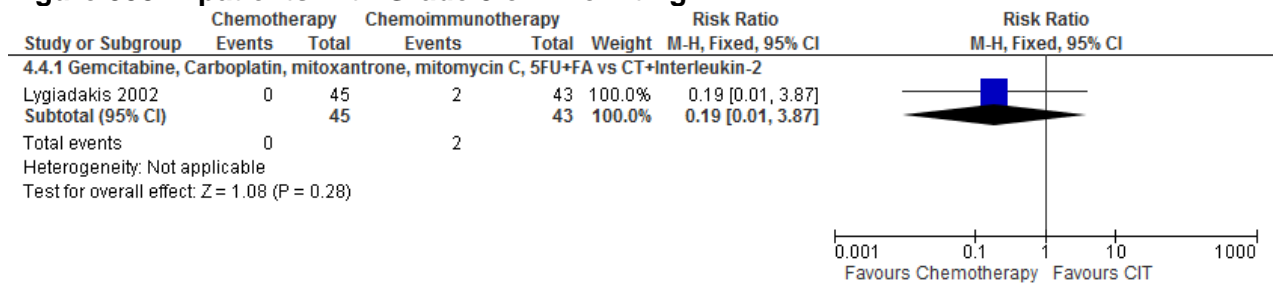
2

3 **Figure 357: # patients with Grade 3 or 4 nausea**



4

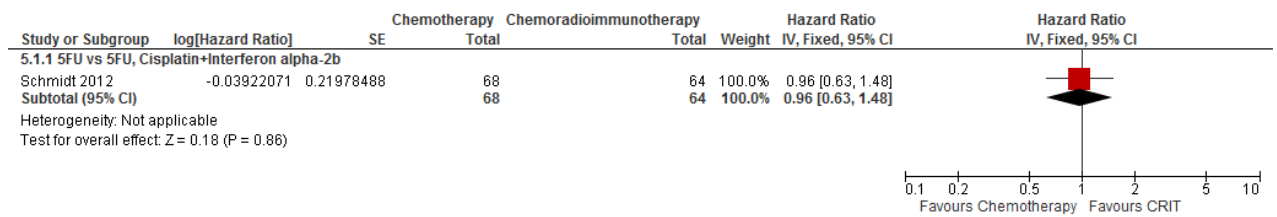
5 **Figure 358: # patients with Grade 3 or 4 vomiting**



6

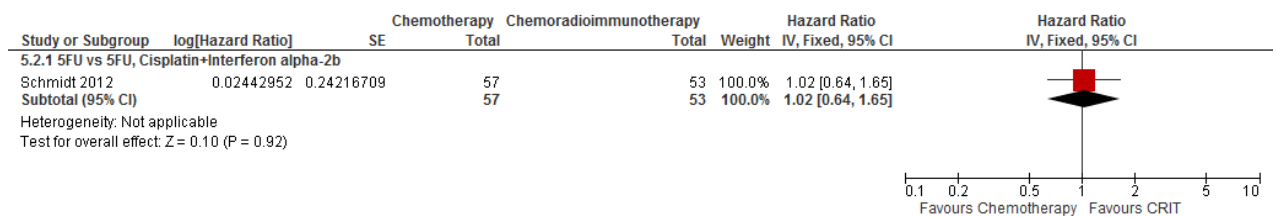
**H.14.57 Adjuvant chemotherapy versus adjuvant chemoradioimmunotherapy in resected pancreatic cancer patients**

9 **Figure 359: Overall survival**



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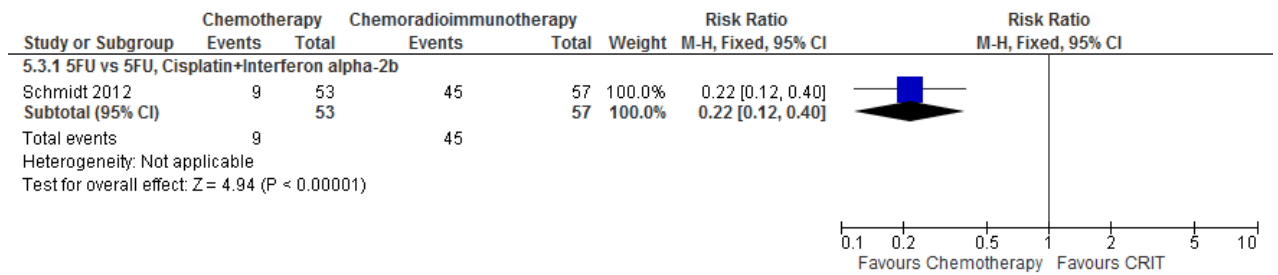
11 **Figure 360: Disease-free survival**



12

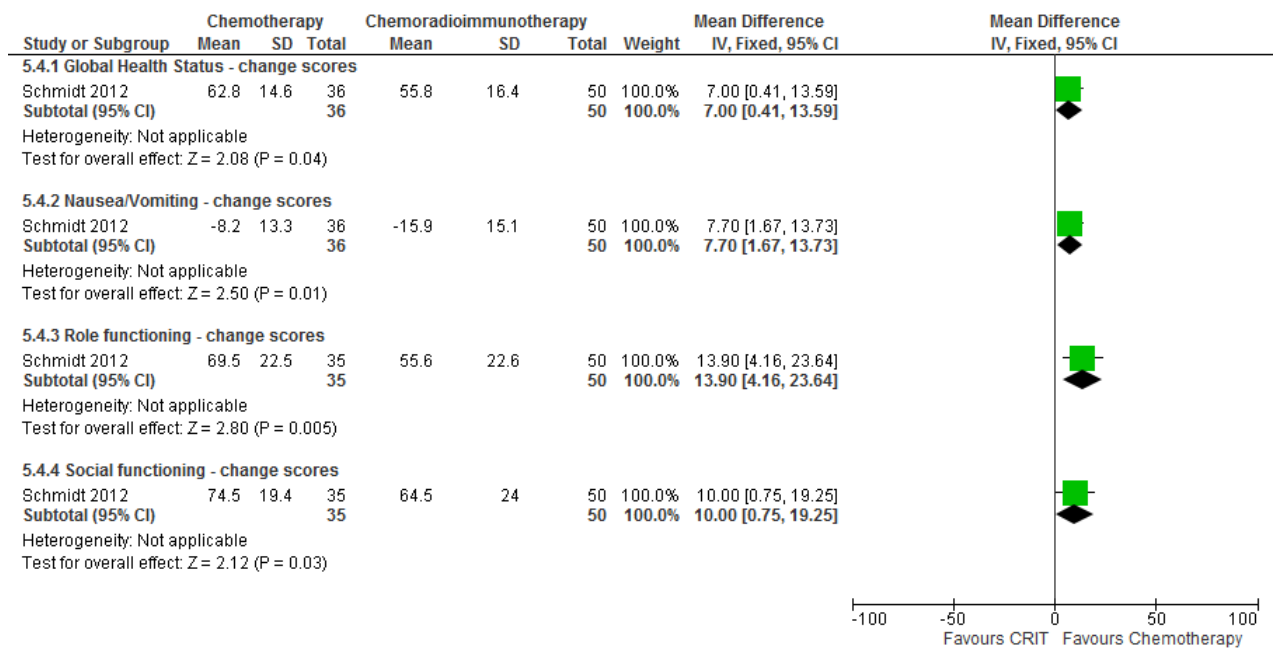
13

1 **Figure 361: # patients with any Grade 3 or 4 toxicity**



2

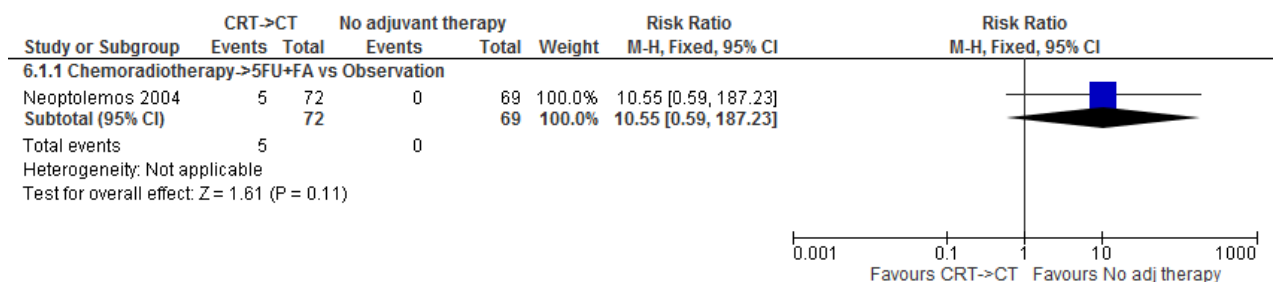
3 **Figure 362: EORTC QLQ-C30 Quality of Life subscales – change scores**



4

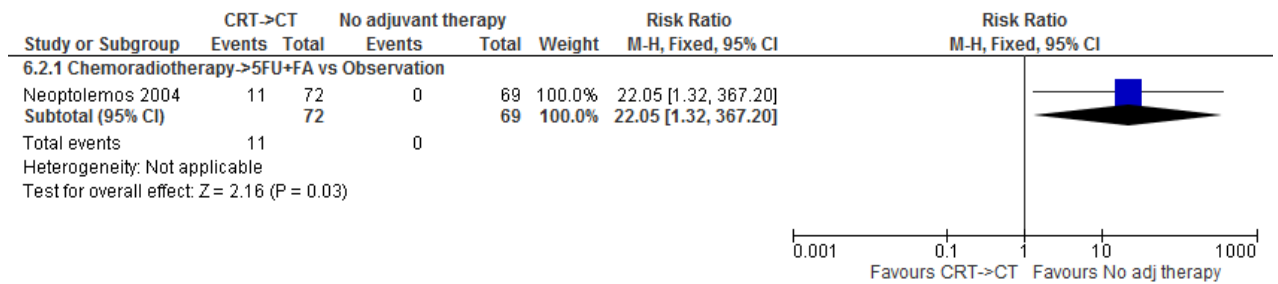
**H.14.65 Adjuvant chemoradiotherapy followed by chemotherapy versus no adjuvant therapy in resected pancreatic cancer patients**

7 **Figure 363: # patients with any Grade 3 or 4 haematological toxicity**



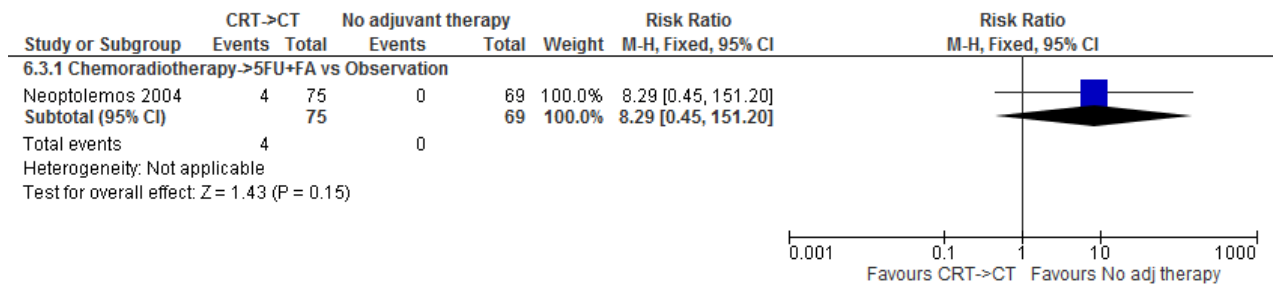
8

1 **Figure 364: # patients with any Grade 3 or 4 haematological toxicity**



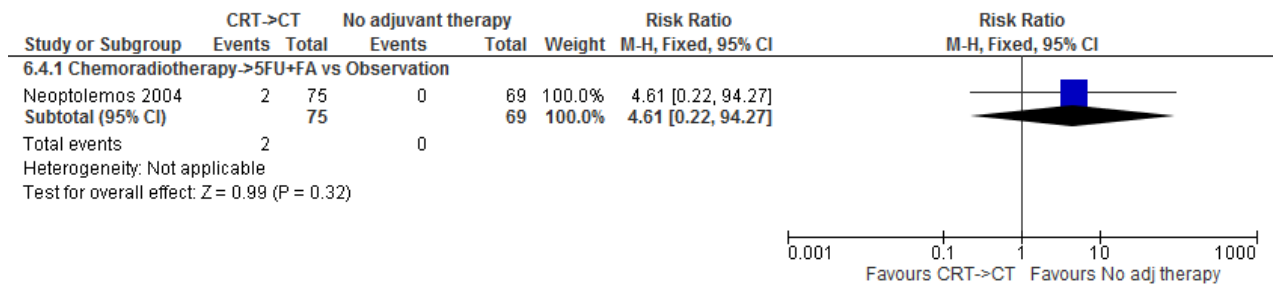
2

3 **Figure 365: # patients with Grade 3 or 4 stomatitis**



4

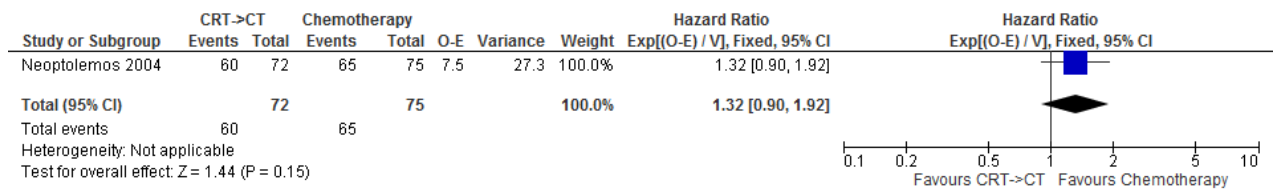
5 **Figure 366: # patients with any Grade 3 or 4 diarrhoea**



6

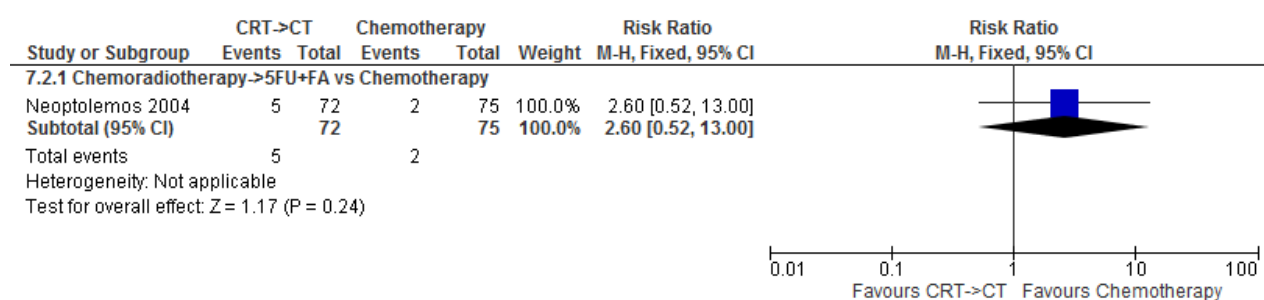
**H.14.77 Adjuvant chemoradiotherapy followed by chemotherapy versus chemotherapy**  
8 **in resected pancreatic cancer patients**

9 **Figure 367: Overall survival**



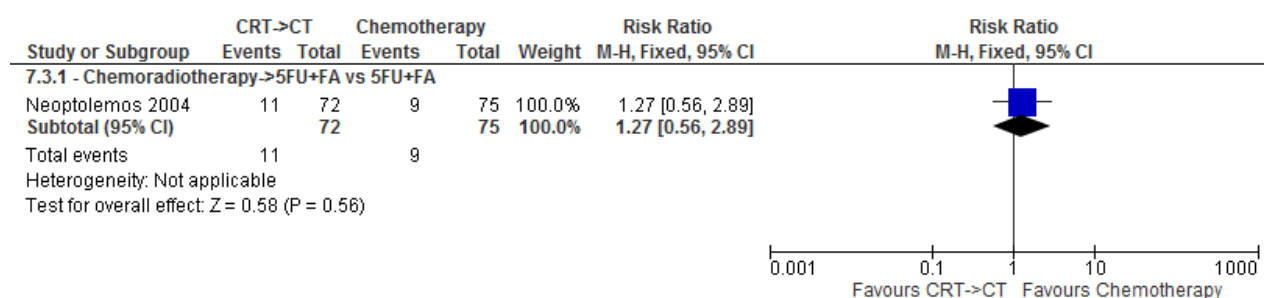
10

1 **Figure 368: # patients with any Grade 3 or 4 haematological toxicity**



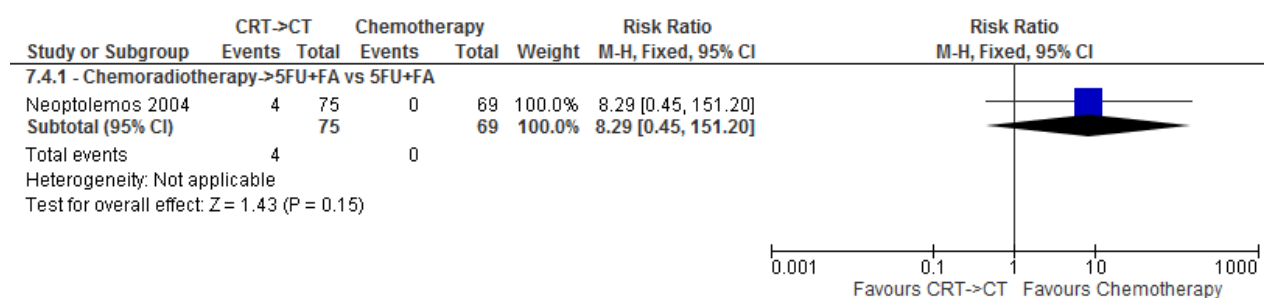
2

3 **Figure 369: # patients with any Grade 3 or 4 non-haematological toxicity**



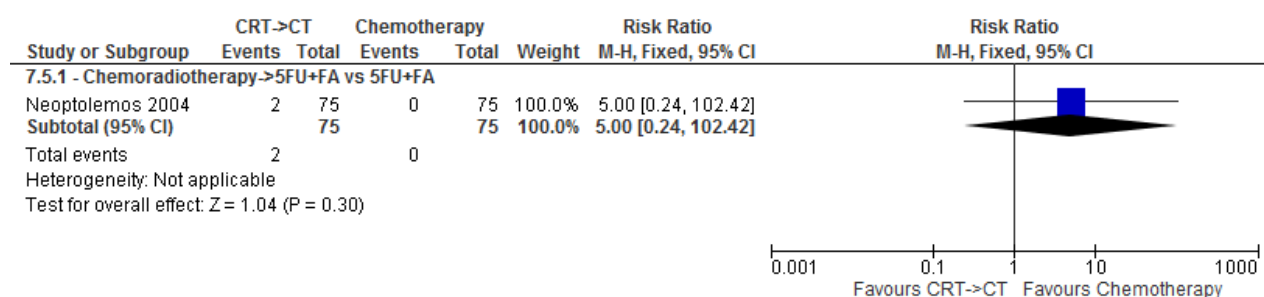
4

5 **Figure 370: # patients with Grade 3 or 4 stomatitis**



6

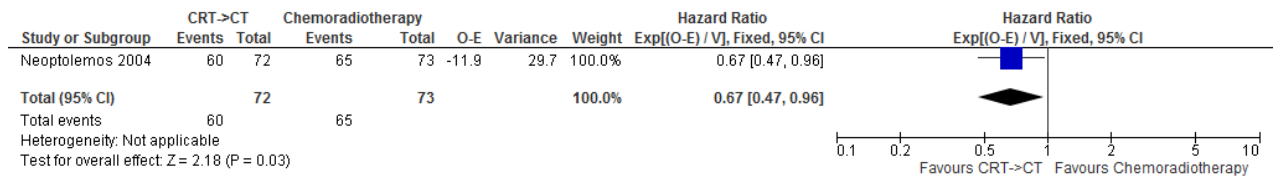
7 **Figure 371: # patients with Grade 3 or 4 diarrhoea**



8

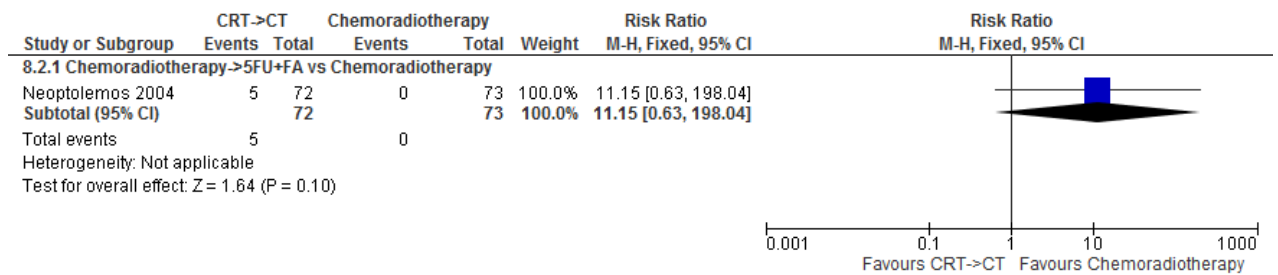
**H.14.81 Adjuvant chemoradiotherapy followed by chemotherapy versus  
2 chemoradiotherapy in resected pancreatic cancer patients**

**3 Figure 372: Overall survival**



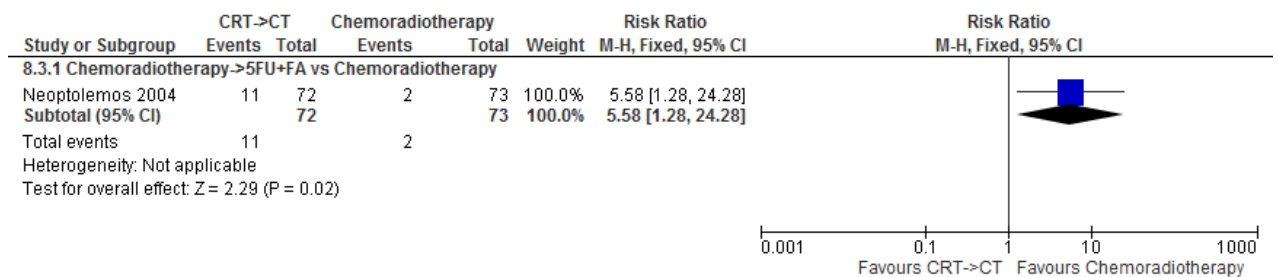
4

**5 Figure 373: # patients with any Grade 3 or 4 haematological toxicity**



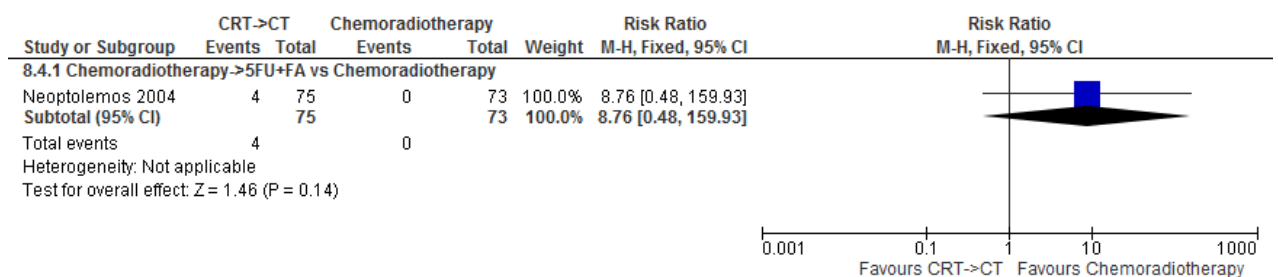
6

**7 Figure 374: # patients with any Grade 3 or 4 non-haematological toxicity**



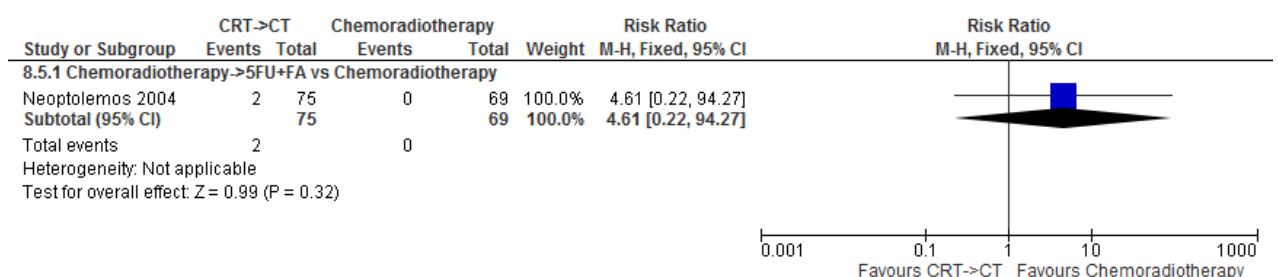
8

**9 Figure 375: # patients with Grade 3 or 4 stomatitis**



10

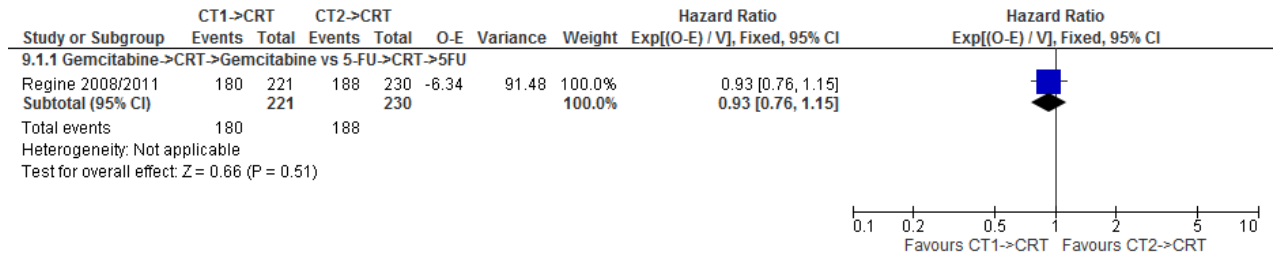
**11 Figure 376: # patients with Grade 3 or 4 diarrhoea**



12

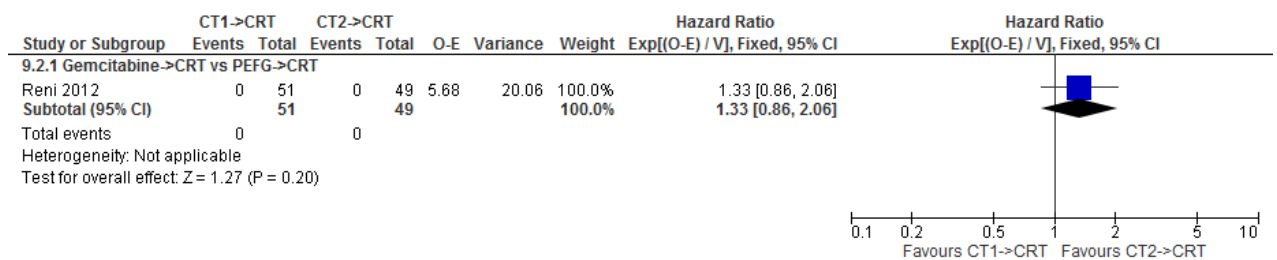
**H.14.91 Adjuvant chemotherapy-1 (gemcitabine) followed by chemoradiotherapy  
2 versus chemotherapy-2 (other) followed by chemoradiotherapy in resected  
3 pancreatic cancer patients**

**4 Figure 377: Overall survival**



5

**6 Figure 378: Disease-free survival**

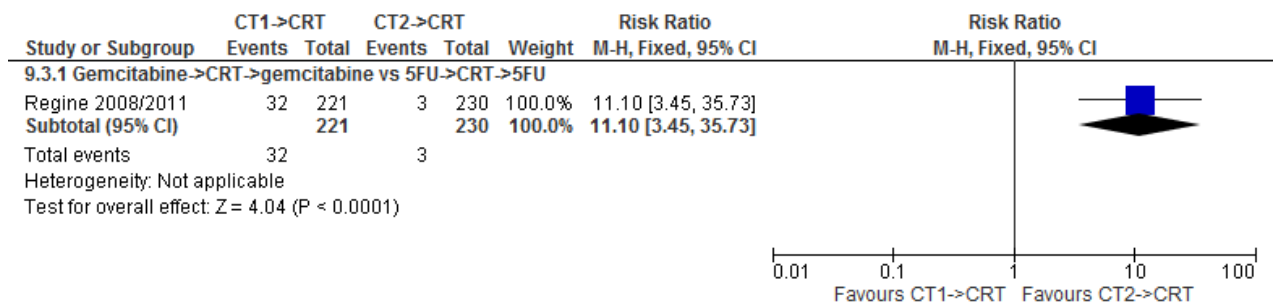


7

8

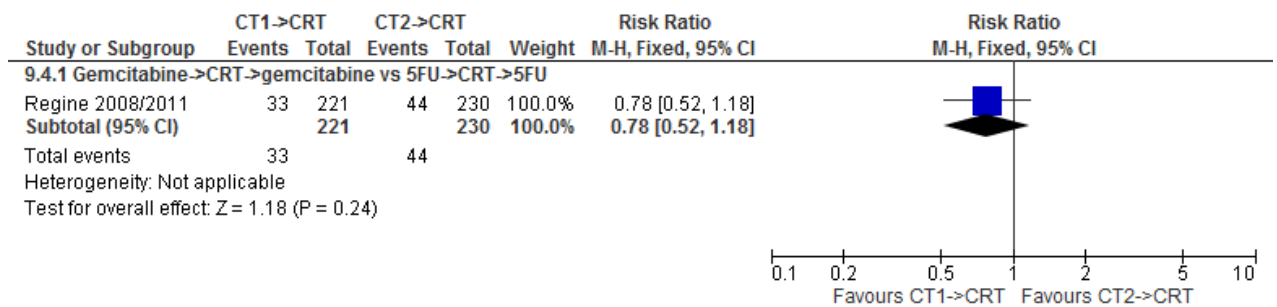
9

**10 Figure 379: # patients with any Grade 4 toxicity**



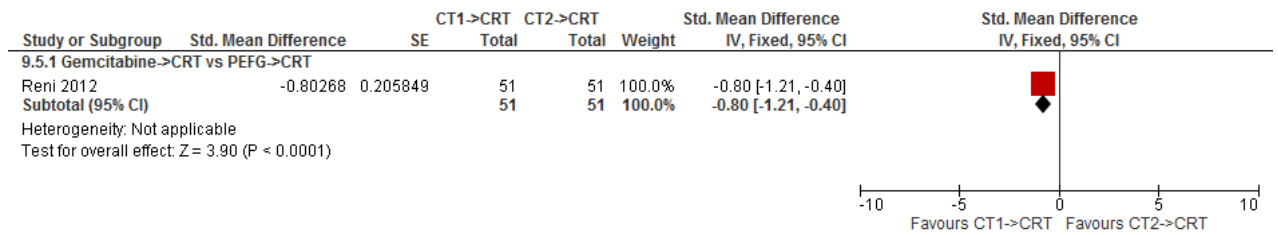
11

**12 Figure 380: # patients with Grade 3 or 4 diarrhoea**



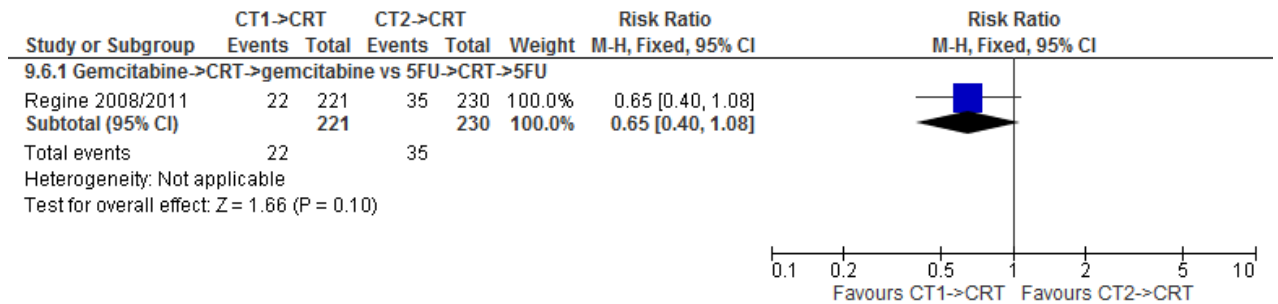
13

1 **Figure 381: # patients with Grade 3 or 4 neutropenia**



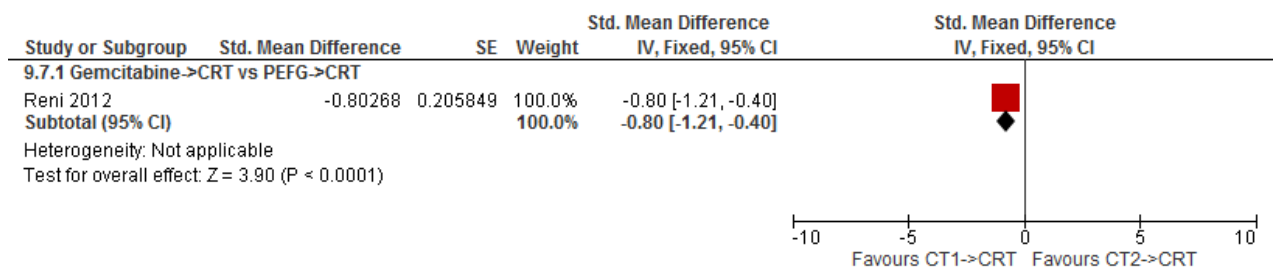
2

3 **Figure 382: # patients with Grade 3 or 4 stomatitis**



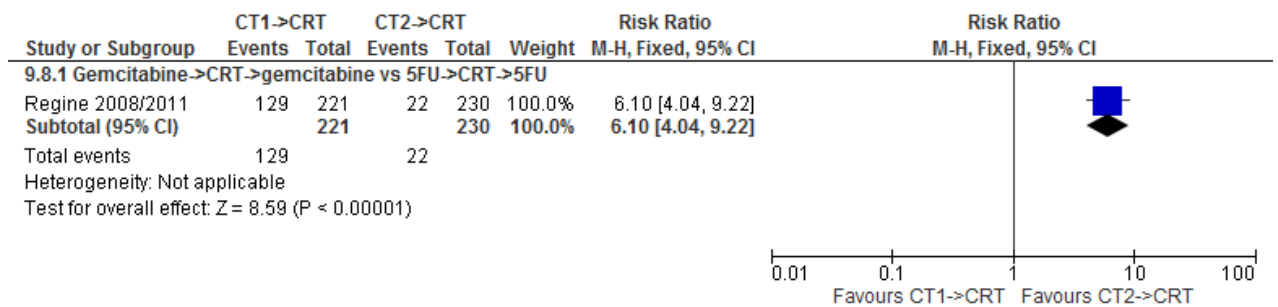
4

5 **Figure 383: # patients with Grade 3 or 4 thrombocytopenia**



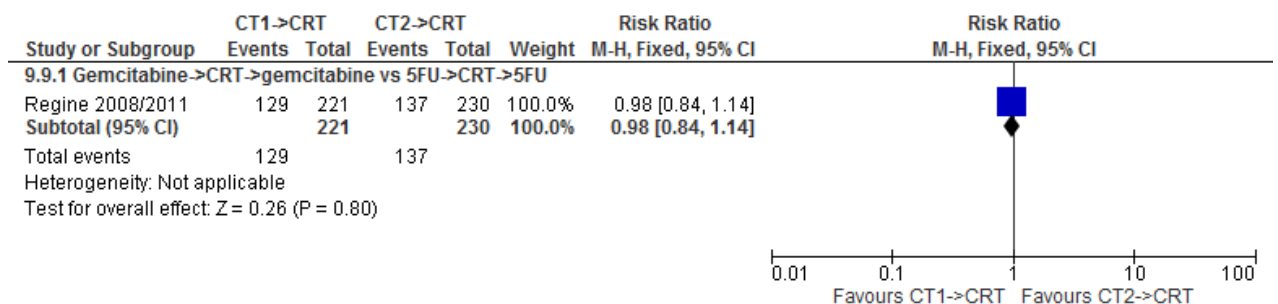
6

7 **Figure 384: # patients with Grade 3 or 4 worst haematological toxicities**



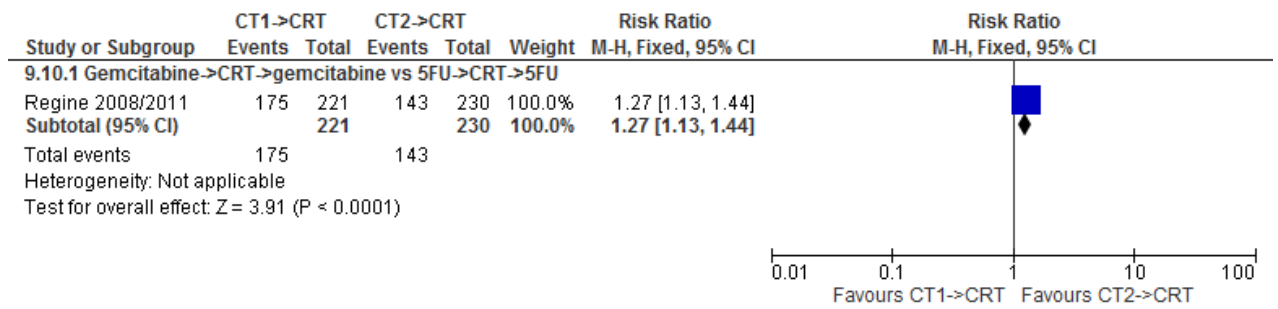
8

9 **Figure 385: # patients with Grade 3 or 4 worst non-haematological toxicities**



10

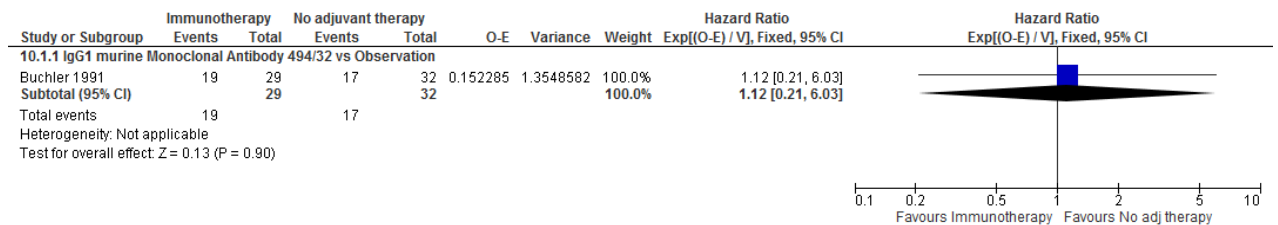
1 **Figure 386: # patients with Grade 3 or 4 worst overall toxicities**



2

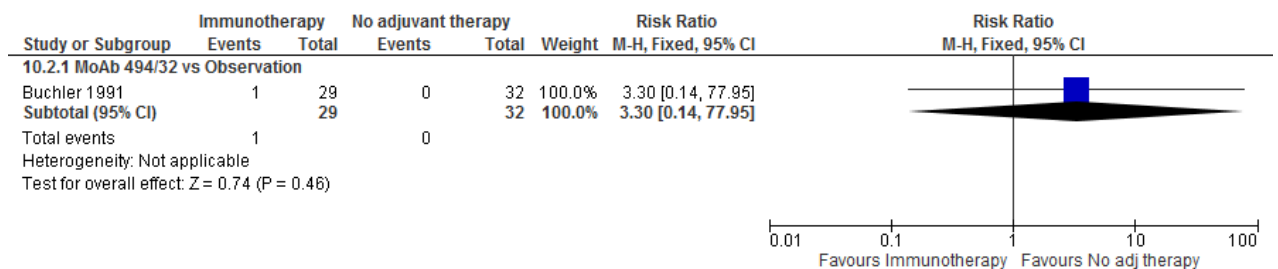
H.14.103 **Adjuvant immunotherapy versus no adjuvant therapy in resected pancreatic cancer patients**

5 **Figure 387: Overall survival**



6

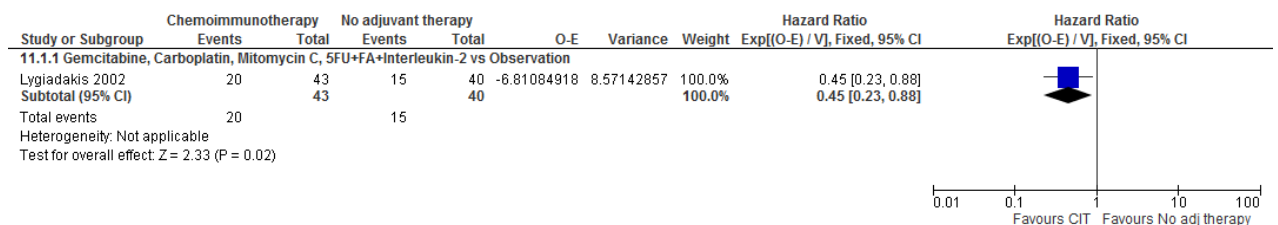
7 **Figure 388: # patients with Grade 3 or 4 abdominal pain**



8

H.14.119 **Adjuvant chemoimmunotherapy versus no adjuvant therapy in resected pancreatic cancer patients**

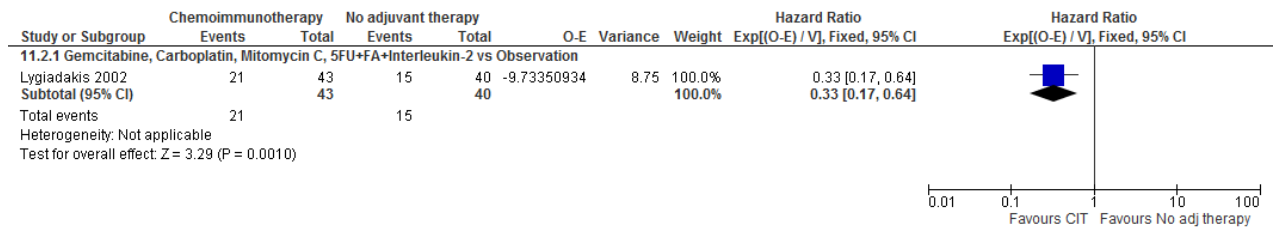
11 **Figure 389: Overall survival**



12

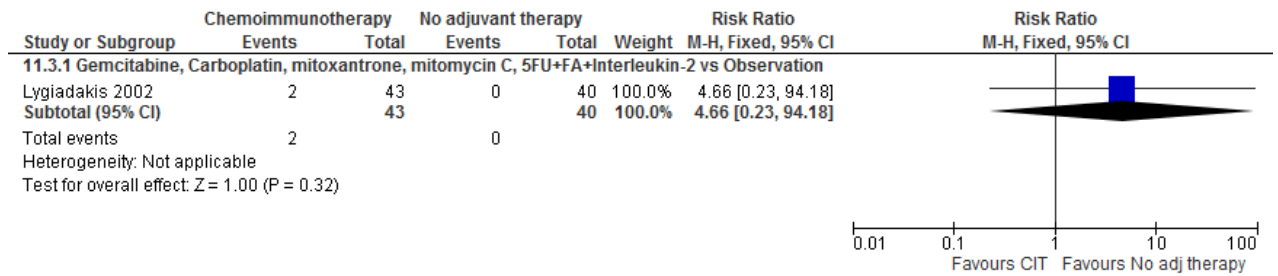


1 **Figure 390: Disease-free survival**



2

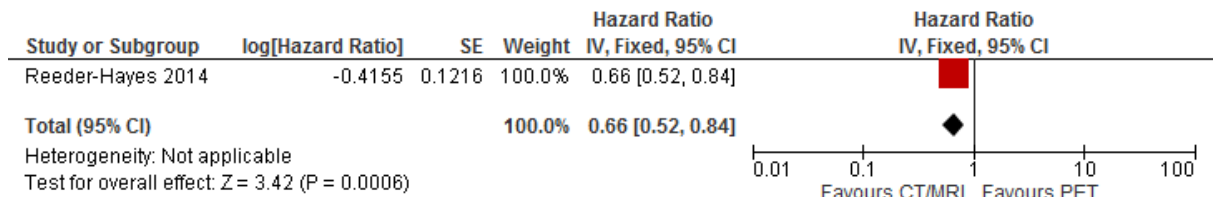
3 **Figure 391: # patients with Grade 3 or 4 vomiting**



4

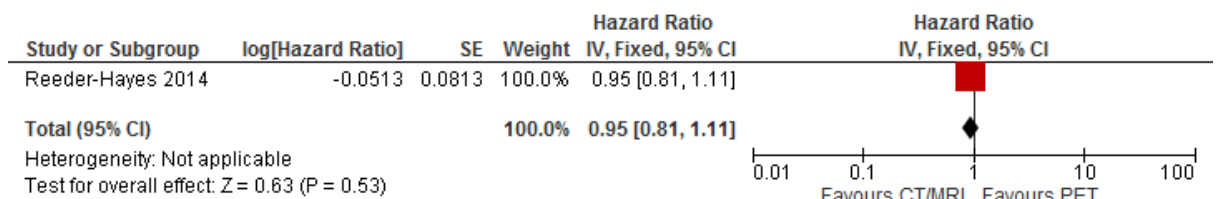
**H.155 Follow-up for people with resected pancreatic cancer**

6 **Figure 392: CT/MRI versus PET on mortality (time-varying exposure model) in**  
7 **“surgical group” of pancreatic cancer patients**



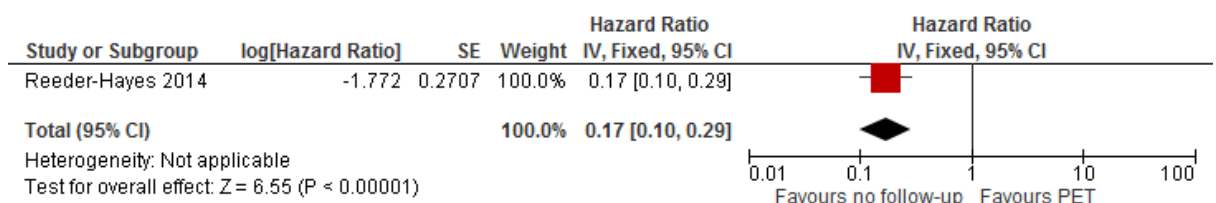
8

9 **Figure 393: CT/MRI versus PET on mortality (time-varying exposure model) in**  
10 **“borderline group” of pancreatic cancer patients**



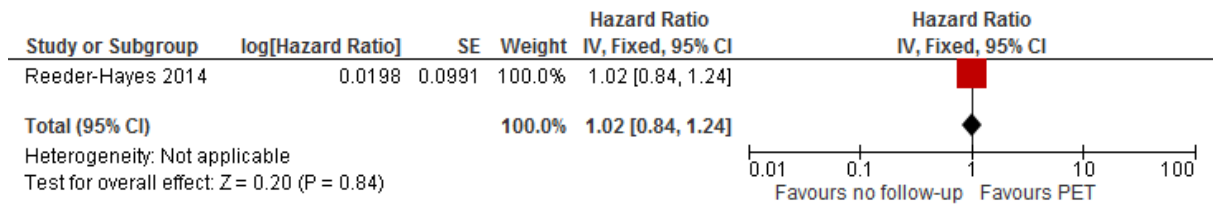
11

12 **Figure 394: No follow-up versus PET on mortality (time-varying exposure model) in**  
13 **“surgical group” of pancreatic cancer patients**



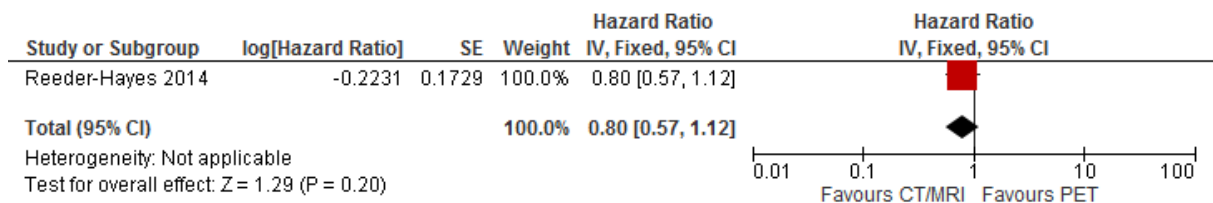
14

1 **Figure 395: No follow-up versus PET on mortality (time-varying exposure model) in**  
2 **“borderline group” of pancreatic cancer patients**



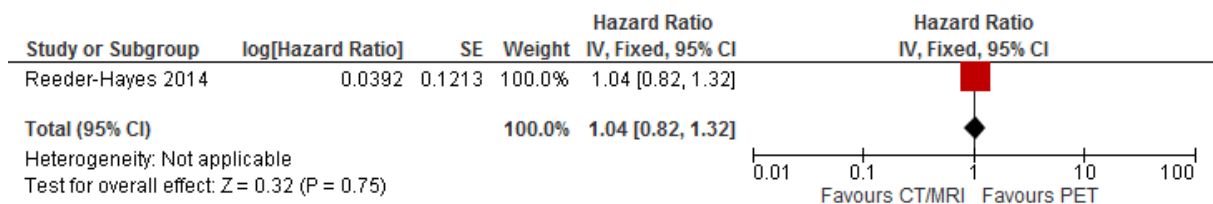
3

4 **Figure 396: CT/MRI versus PET on survival beyond 180 days in “surgical group” of**  
5 **pancreatic cancer patients**



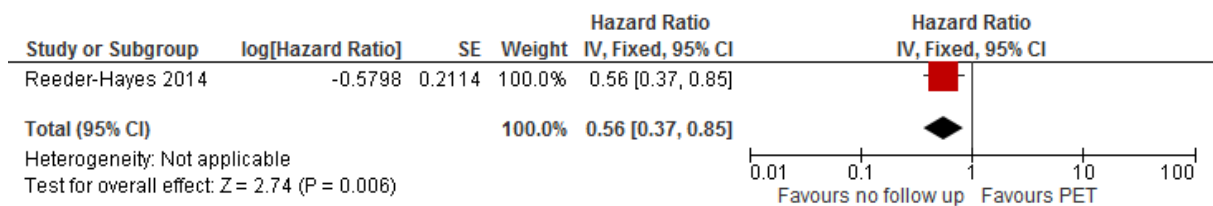
6

7 **Figure 397: CT/MRI versus PET on survival beyond 180 days in “borderline group” of**  
8 **pancreatic cancer patients**



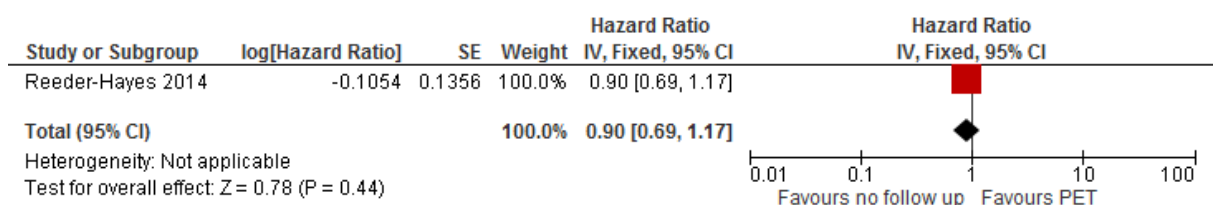
9

10 **Figure 398: No follow-up versus PET on survival beyond 180 days in “surgical group”**  
11 **of pancreatic cancer patients**



12

13 **Figure 399: No follow-up versus PET on survival beyond 180 days in “borderline**  
14 **group” of pancreatic cancer patients**



15

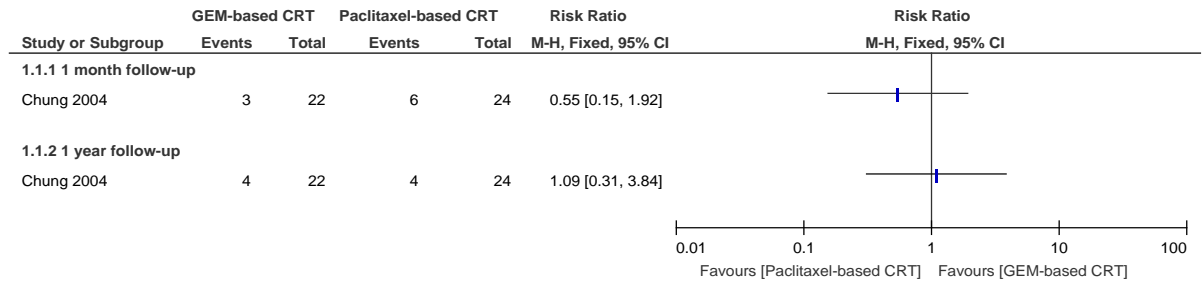
16

## H.16<sup>1</sup> Management of locally advanced pancreatic cancer

### H.16.12 Different chemoradiotherapy regimens

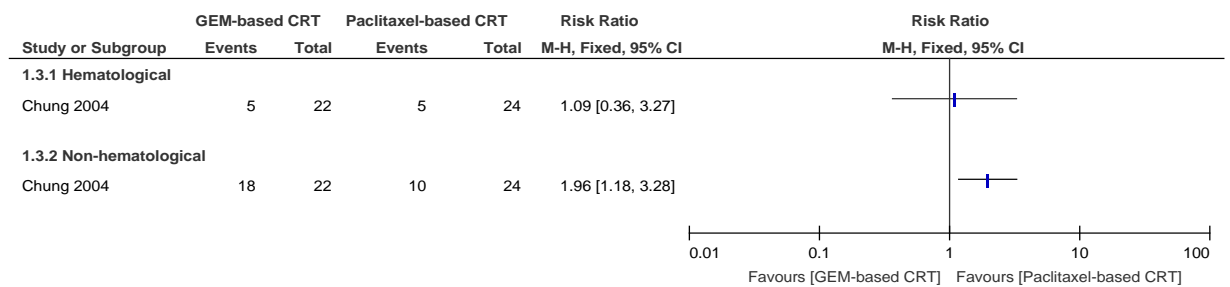
#### 3 Figure 400: GEM-CRT versus paclitaxel-CRT – Overall response rates (CR+PR) at 1 4 month and 1 year follow-up

5



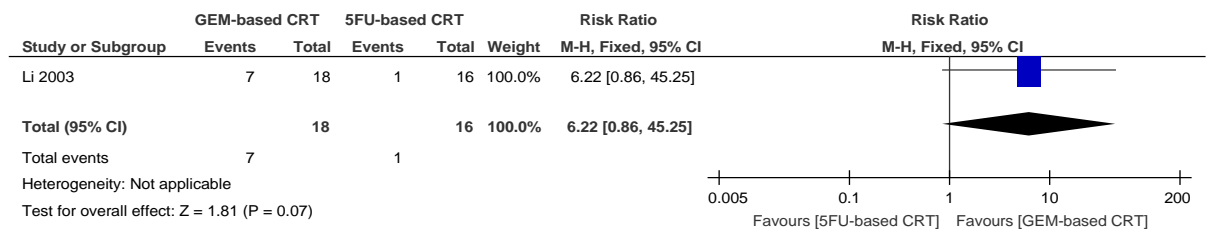
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#### 7 Figure 401: GEM-CRT versus paclitaxel-CRT – Adverse effects - Grade 3/4 toxicities



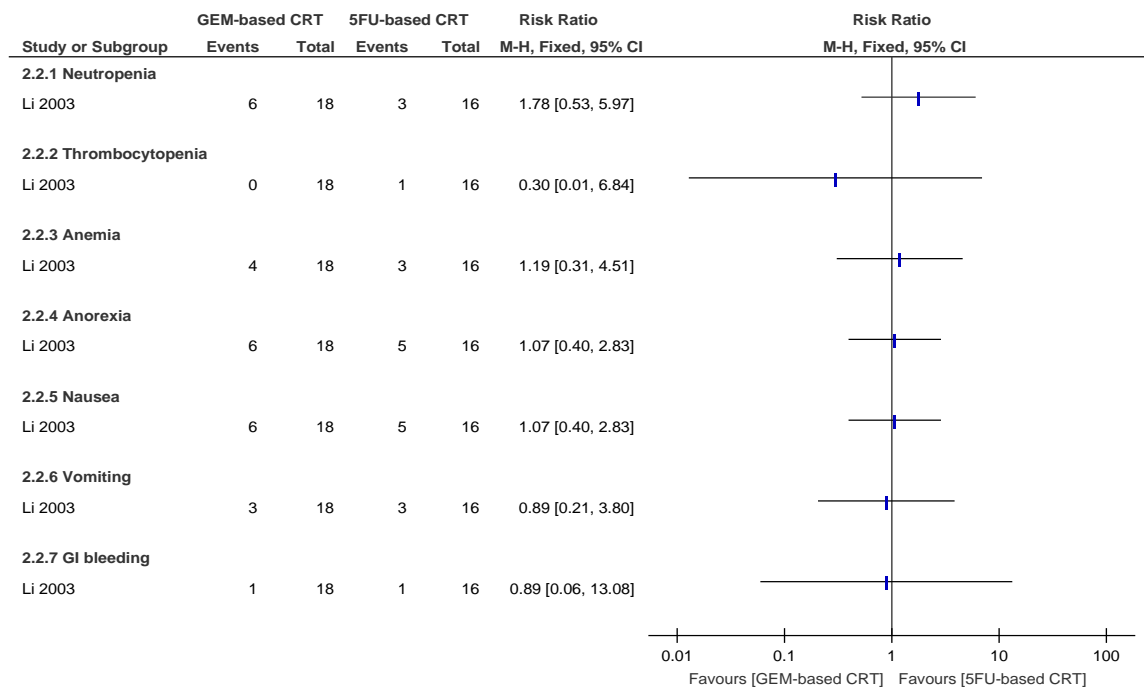
8

#### 9 Figure 402: GEM-CRT versus 5FU-CRT – Overall pain control – follow-up not 10 reported



11

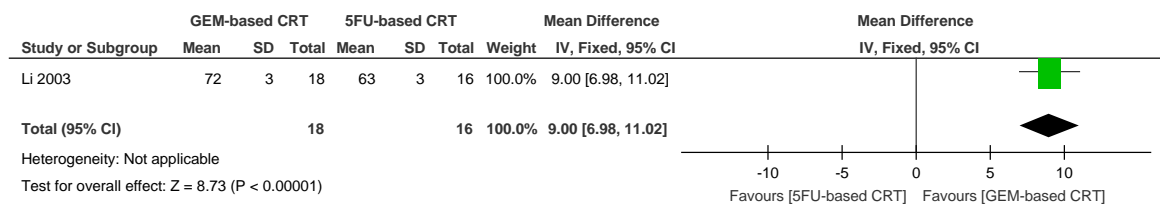
1 **Figure 403: GEM-CRT versus 5FU-CRT – Adverse effects - Grade 3/4 toxicities**



2

3 **Figure 404: GEM/Cisplatin-CRT versus 5FU-CRT – HQRL: Average monthly Karnofsky performance score**

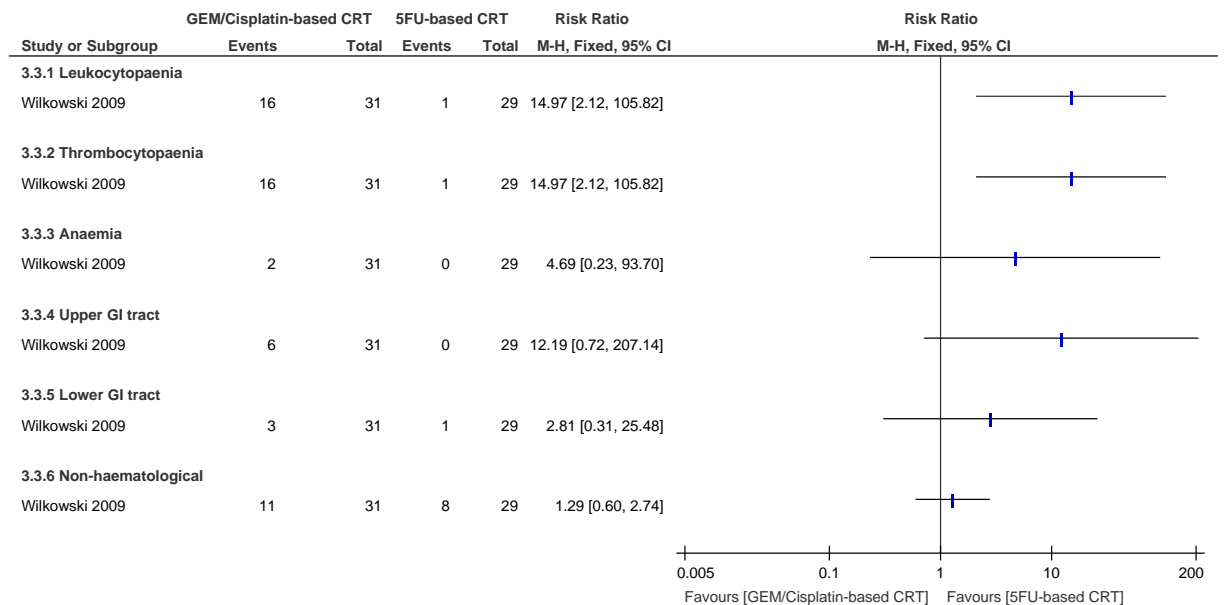
4



5

6 **Figure 405: GEM/Cisplatin-CRT versus 5FU-CRT – Adverse effects, Grade 3/4 toxicities**

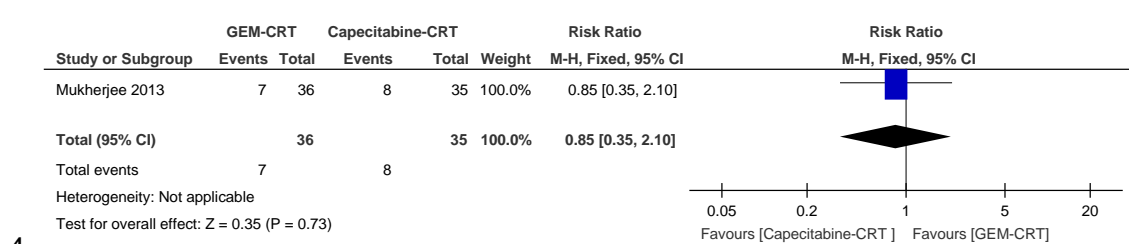
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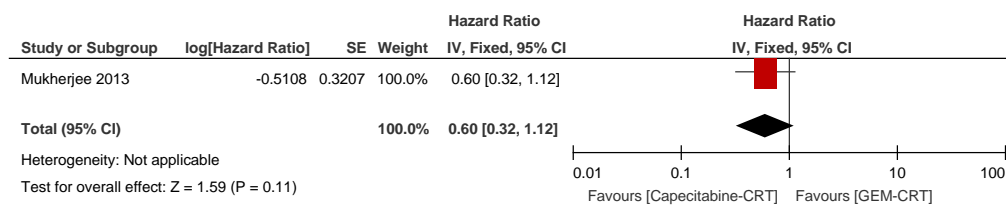
## H.16.21 Different chemoradiotherapy regimens after induction chemotherapy

### 2 Figure 406: GEM-CRT versus capecitabine-CRT after induction CT – Overall response rates (CR+PR)



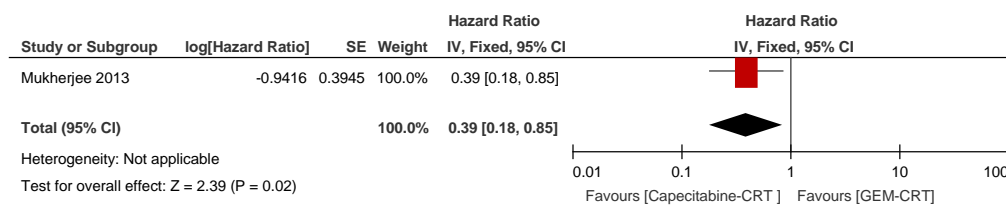
4

### 5 Figure 407: GEM-CRT versus capecitabine-CRT after induction CT – PFS



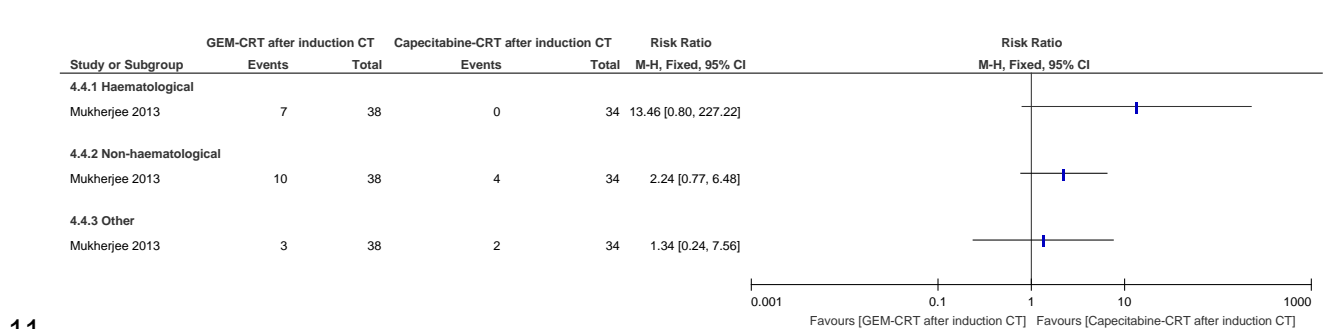
6

### 7 Figure 408: GEM-CRT versus capecitabine-CRT after induction CT – Overall Survival



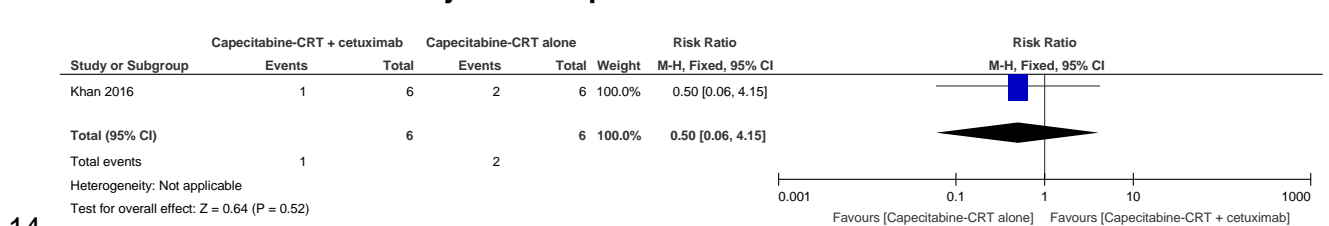
8

### 9 Figure 409: GEM-CRT versus capecitabine-CRT after induction CT – Adverse effects - Grade 3/4 toxicities



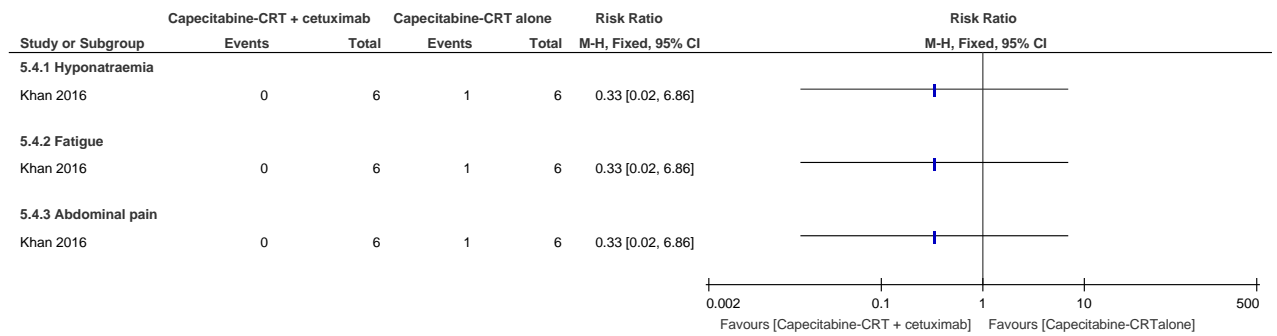
11

### 12 Figure 410: Capecitabine-CRT + cetuximab versus capecitabine-CRT alone after induction CT – Objective response rate



14

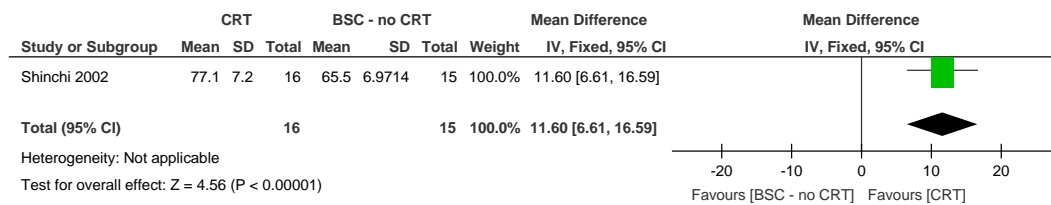
1 **Figure 411: Capecitabine-CRT + cetuximab versus capecitabine-CRT alone after**  
2 **induction CT – Objective response rate**



3

**H.16.34 Chemoradiotherapy versus best supportive care**

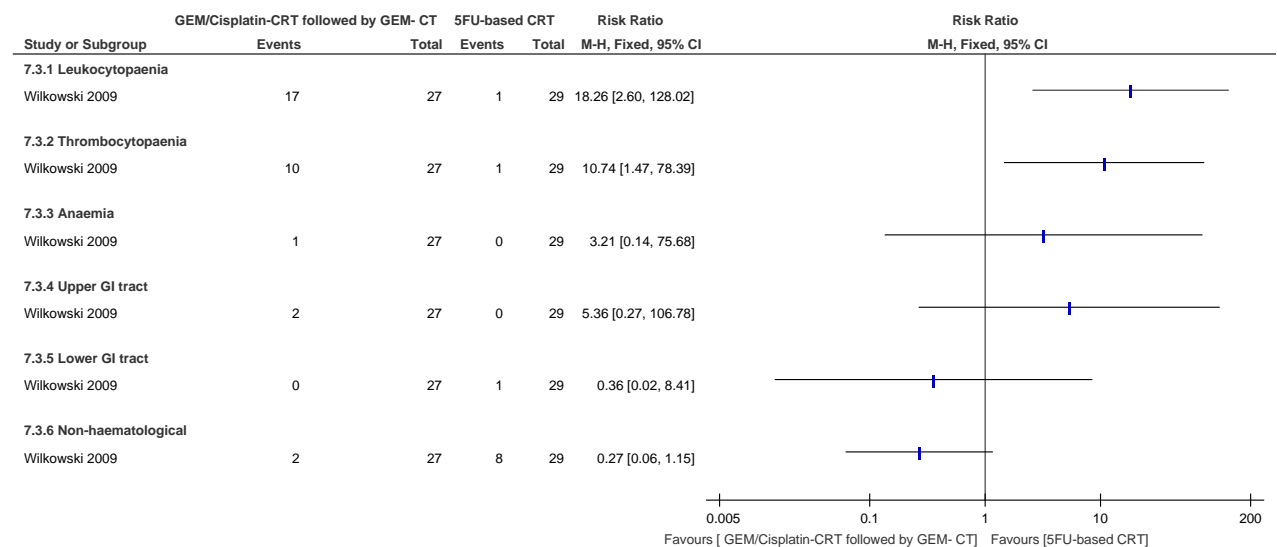
5 **Figure 412: CRT versus best supportive care -no CRT– HQRL: Average of monthly**  
6 **Karnofsky scores**



7

**H.16.48 Chemoradiotherapy followed by chemotherapy versus chemoradiotherapy**  
9 **alone**

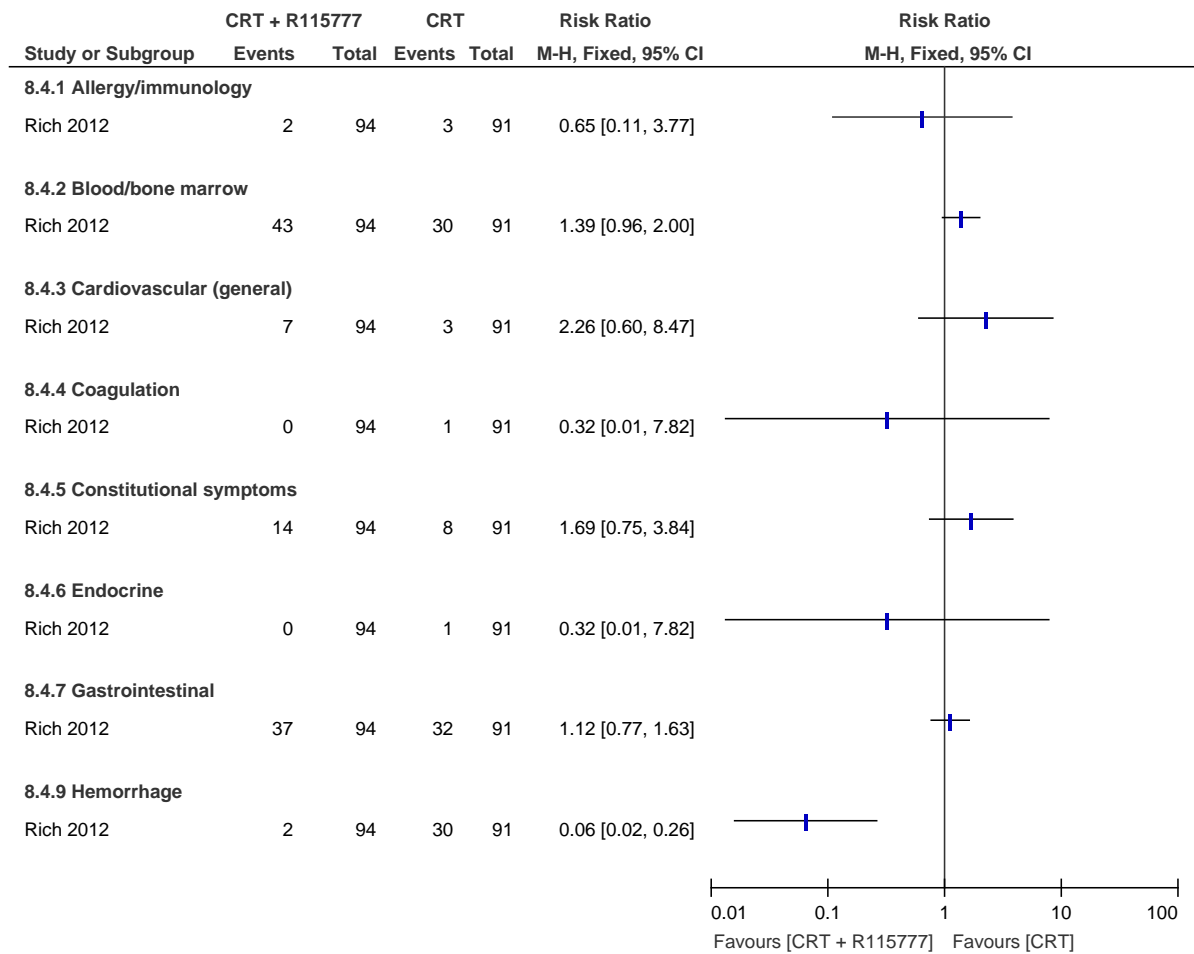
10 **Figure 413: CRT followed by CT versus CRT – Adverse effects - Grade 3/4 toxicities**



11

### H.16.51 Chemoradiotherapy + R115777 versus chemoradiotherapy

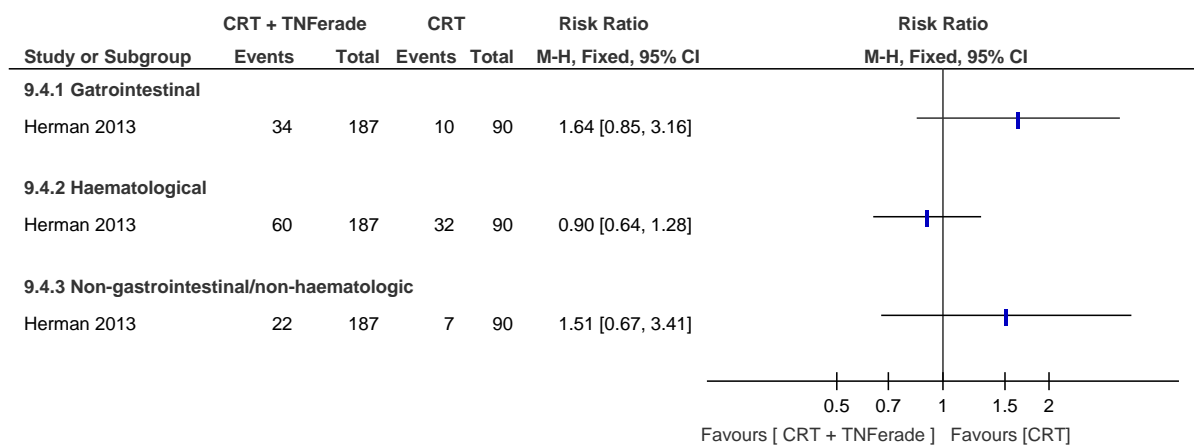
2 **Figure 414: CRT + R115777 versus CRT– Adverse effects - Grade 3/4 toxicities**



3

### H.16.64 Chemoradiotherapy + TNFerade versus chemoradiotherapy

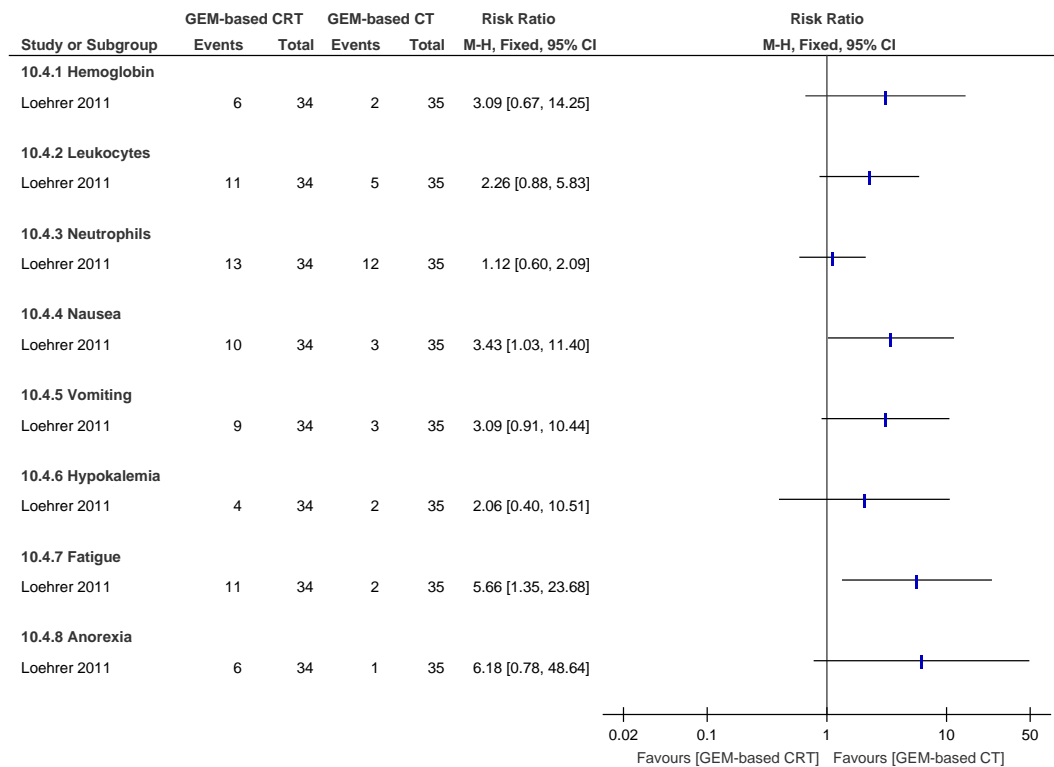
5 **Figure 415: CRT + TNFerade versus CRT – Adverse effects - Grade 3/4 toxicities**



6

## H.16.71 Chemoradiotherapy versus chemotherapy

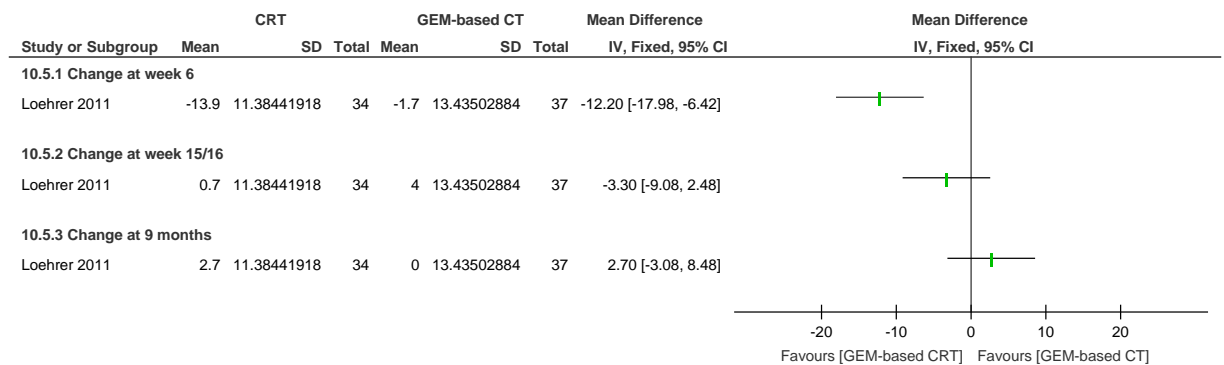
### 2 Figure 416: CRT versus CT – Adverse effects - Grade 3/4 toxicities



3

### 4 Figure 417: CRT versus CT – HQRL - Trial outcome index [mean difference of change from baseline] at week 6, 15/16 and at 9 months follow-up

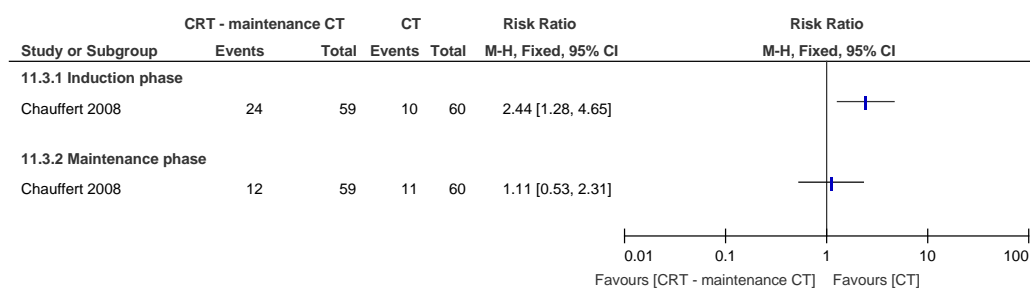
5



6

### 7 Figure 418: CRT versus CT followed by maintenance GEM-CT– Adverse effects - Grade 3/4 toxicities

8

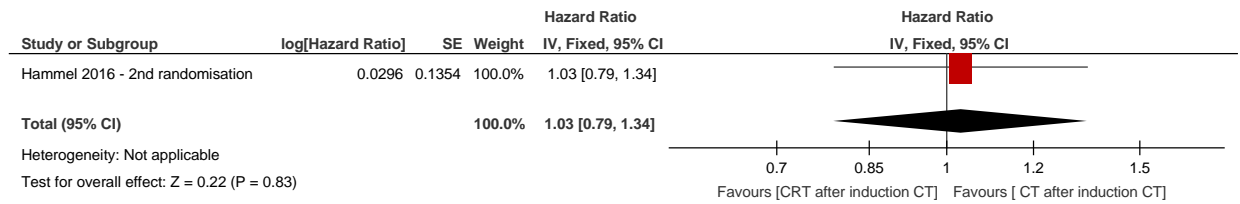


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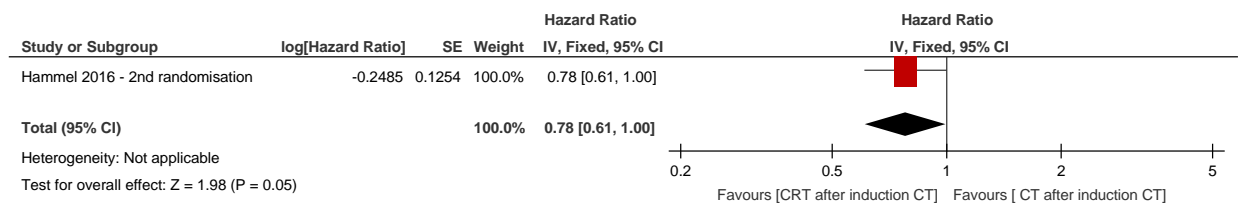
## H.16.81 Chemoradiotherapy versus chemotherapy after induction chemotherapy

### 2 Figure 419: CRT versus CT after CT induction therapy – Overall survival



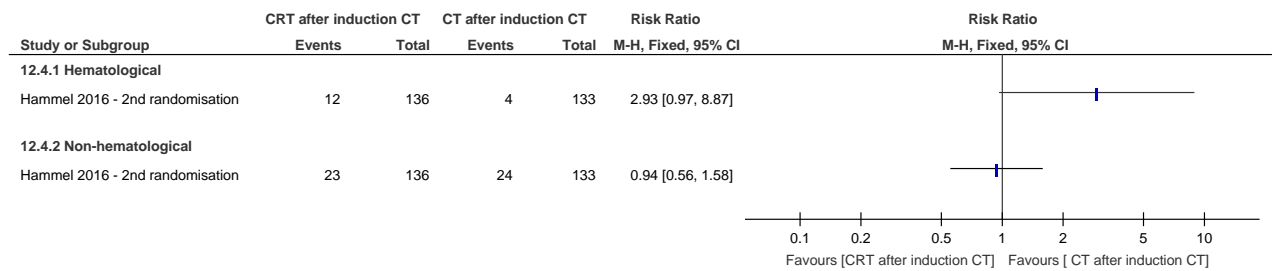
3

### 4 Figure 420: CRT versus CT after CT induction therapy – PFS



5

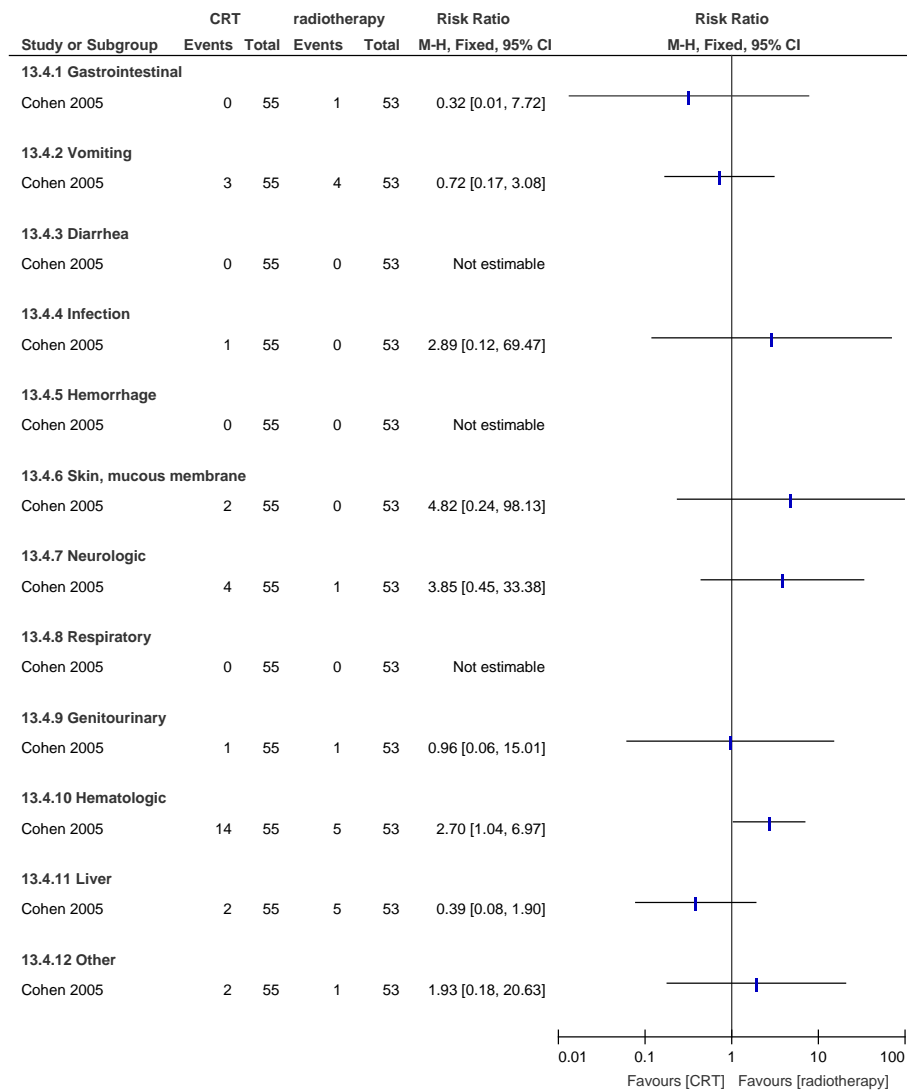
### 6 Figure 421: CRT versus CT after CT induction therapy – Adverse effects - Grade 3/4 toxicities



8

## H.16.91 Chemoradiotherapy versus radiotherapy

### 2 Figure 422: CRT versus radiotherapy – Adverse effects - Grade 3/4 toxicities

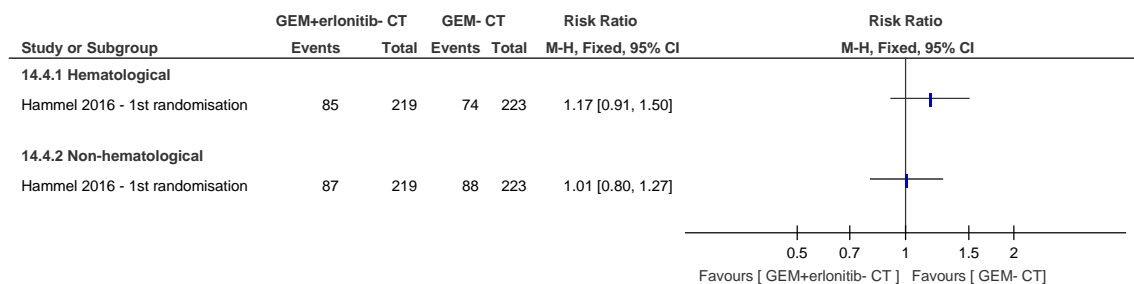


3

## H.16.104 Different chemotherapy regimens

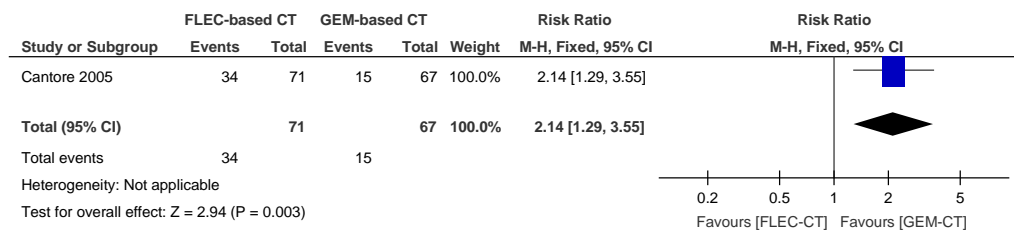
### 5 Figure 423: GEM+erlonitib-CT versus GEM-CT – Adverse effects - Grade 3/4 toxicities

6



7

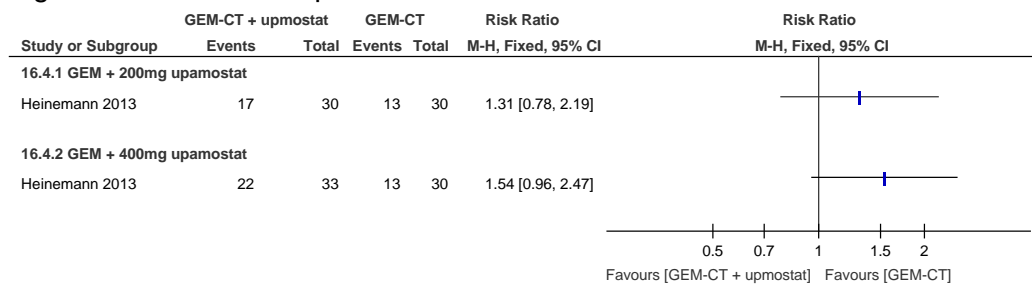
1 **Figure 424: FLEC-CT versus GEM-CT – Adverse effects - Grade 3/4 toxicities**



2

**H.16.113 GEM-CT + upmostat versus GEM-CT**

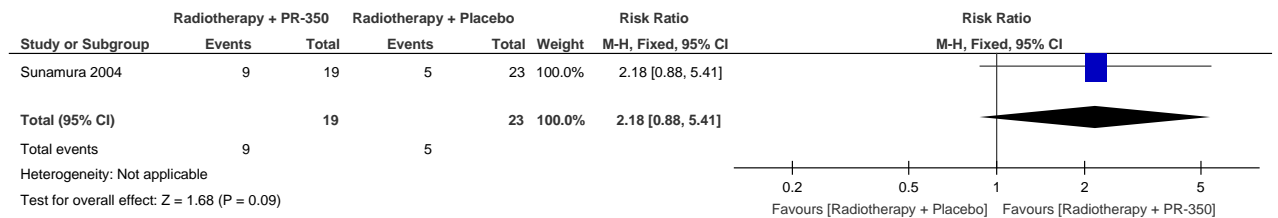
4 **Figure 26: GEM-CT + upmostat versus GEM-CT – Adverse effects - Grade 3/4 toxicities**



5

**H.16.126 Radiotherapy + PR-350 versus Radiotherapy + Placebo**

7 **Figure 425: Radiotherapy + PR-350 versus Radiotherapy + Placebo – Objective Response - Effective response**  
8



9

10 **Figure 426: Radiotherapy + PR-350 versus Radiotherapy + Placebo – Adverse effects - Grade 3/4 toxicities**  
11



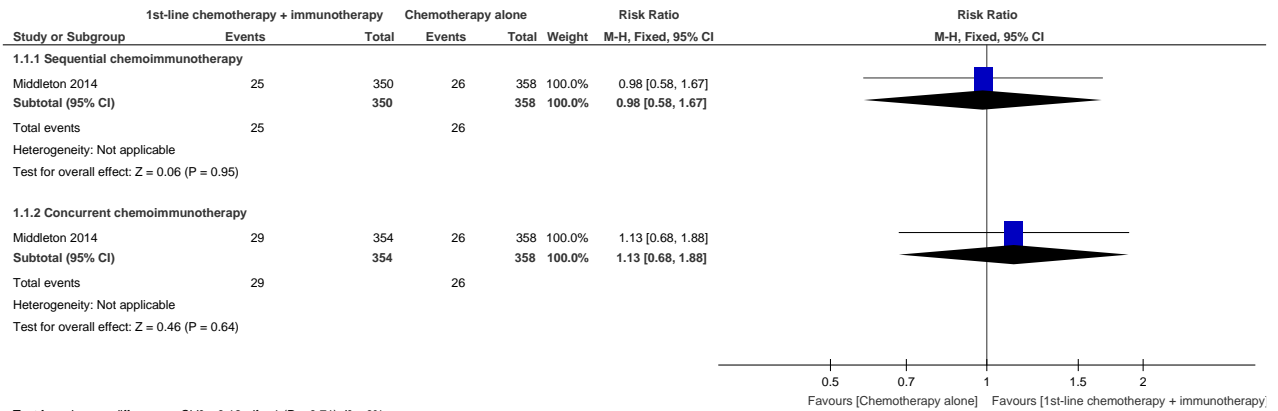
12

13

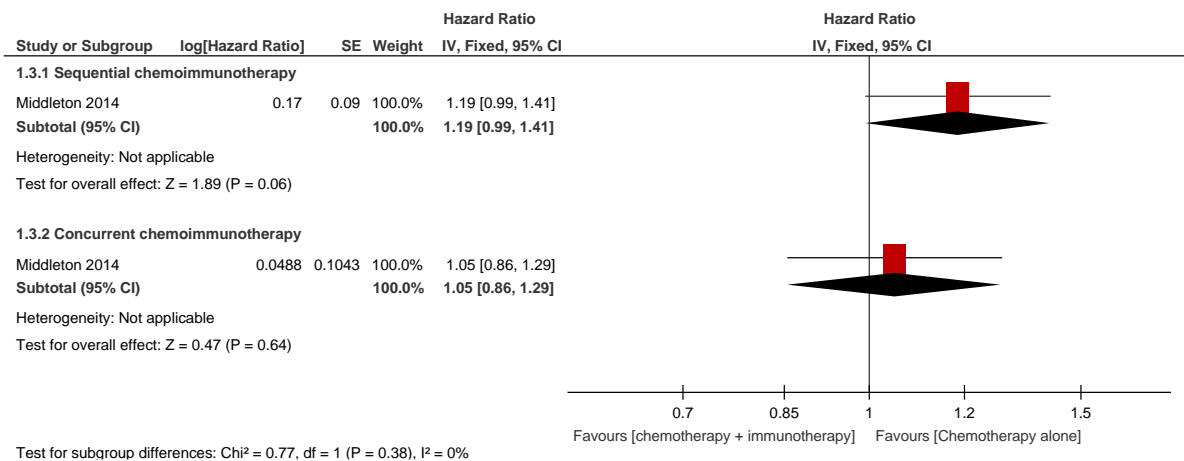
## H.17<sup>1</sup> Management of metastatic pancreatic cancer

### H.17.12 Chemotherapy versus chemoimmunotherapy in adults with locally advanced or metastatic pancreatic cancer

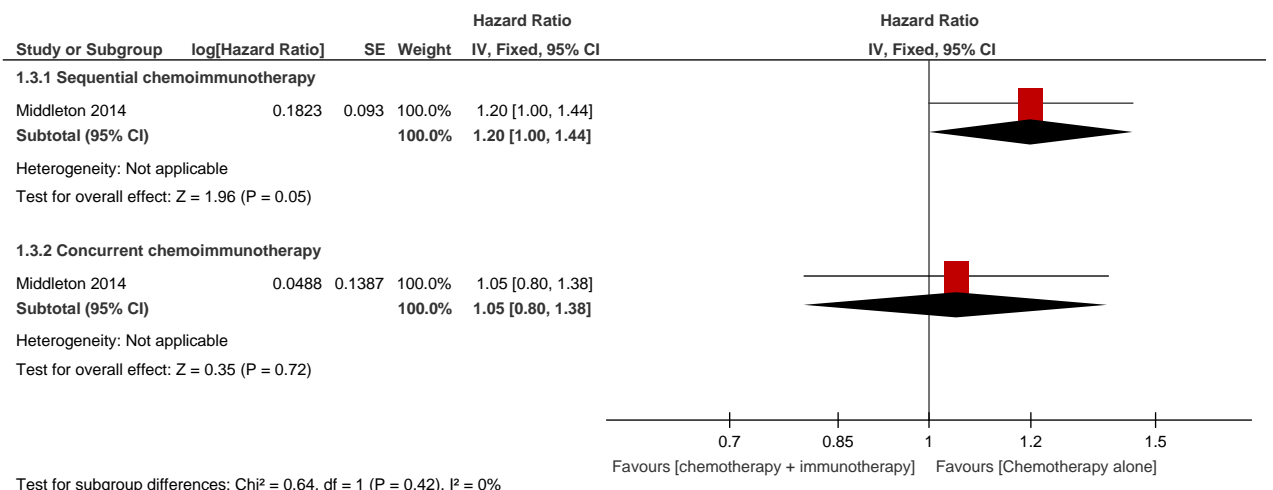
#### 4 Figure 427: Overall response rate (CR + PR) at 8 weeks



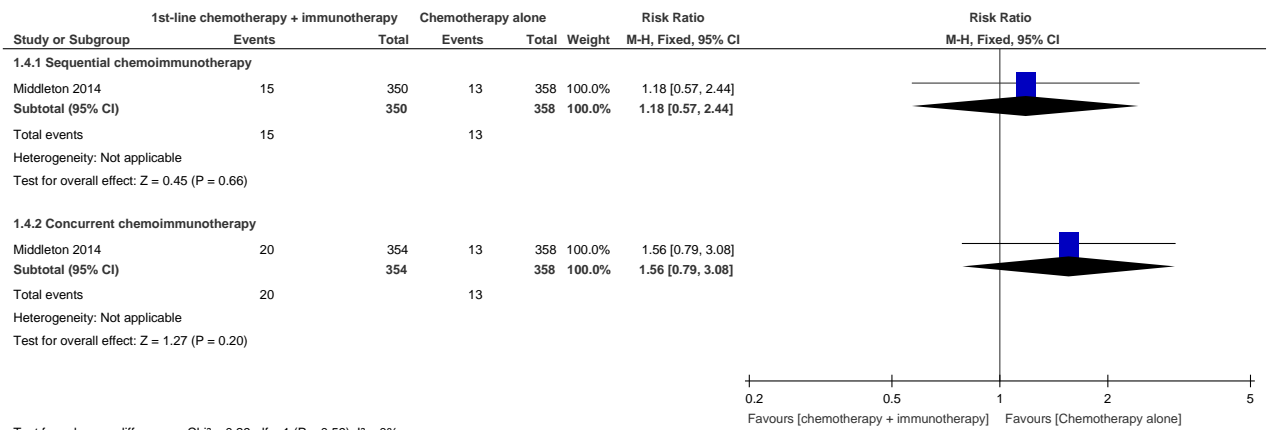
#### 6 Figure 428: Time to progression



#### 8 Figure 429: Overall survival

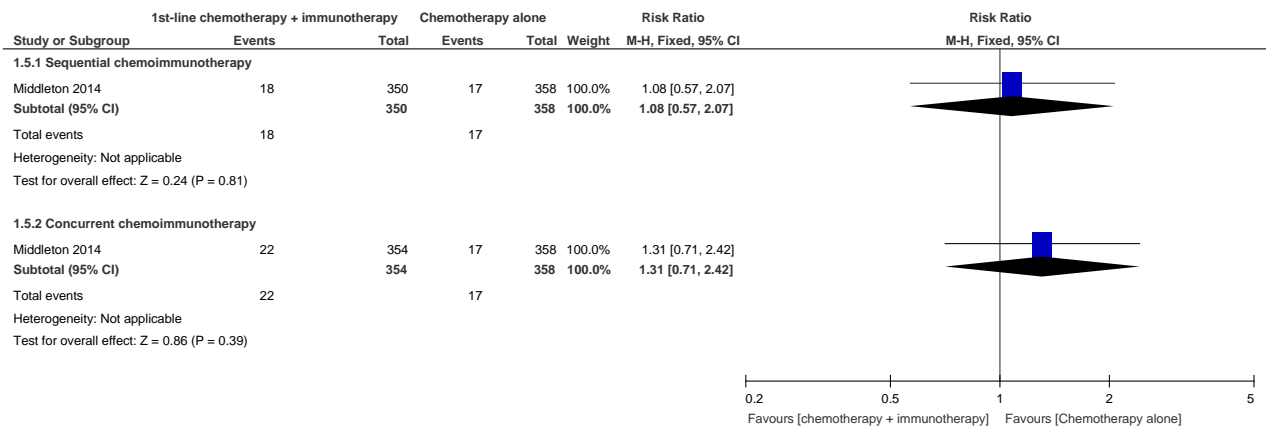


### 1 Figure 430: Grade 3/4/5 toxicities: Nausea



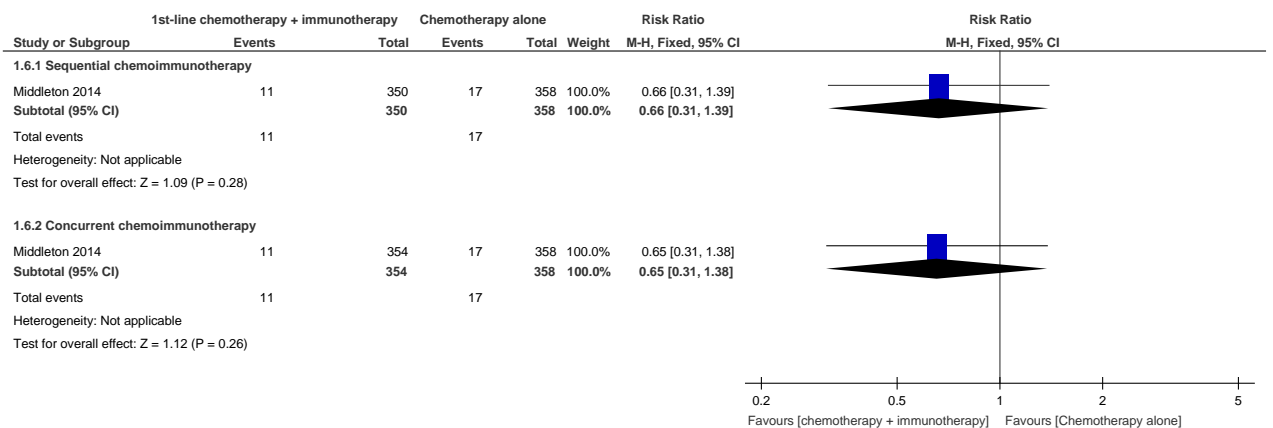
2 Test for subgroup differences: Chi<sup>2</sup> = 0.29, df = 1 (P = 0.59), I<sup>2</sup> = 0%

### 3 Figure 431: Grade 3/4/5 toxicities: Vomiting



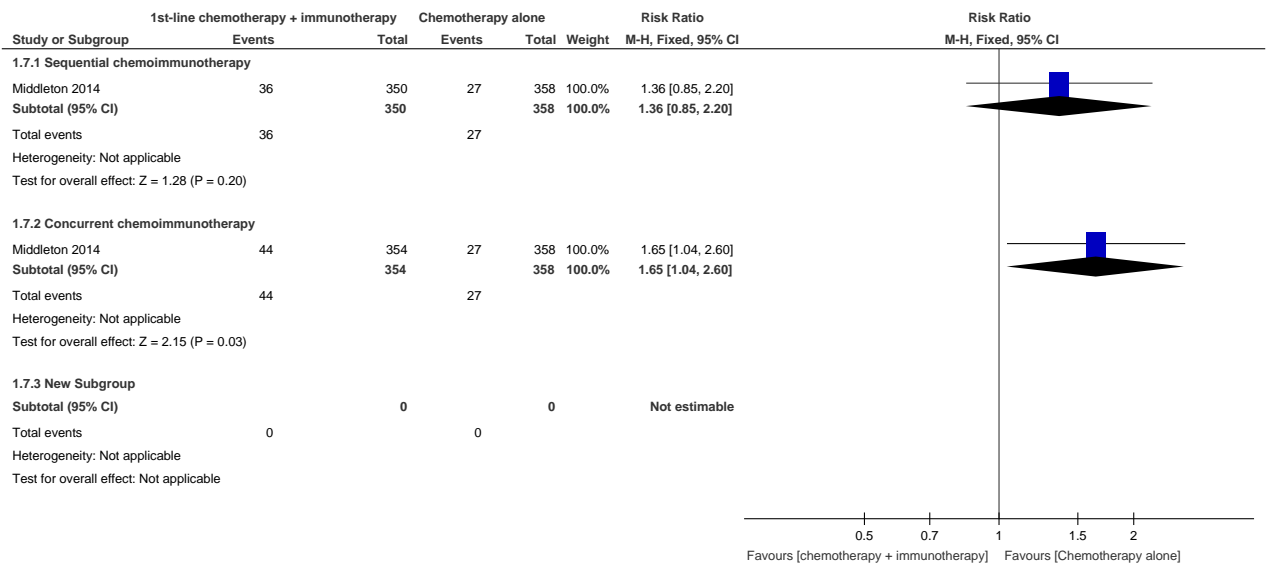
4

### 5 Figure 432: Grade 3/4/5 toxicities: Diarrhoea



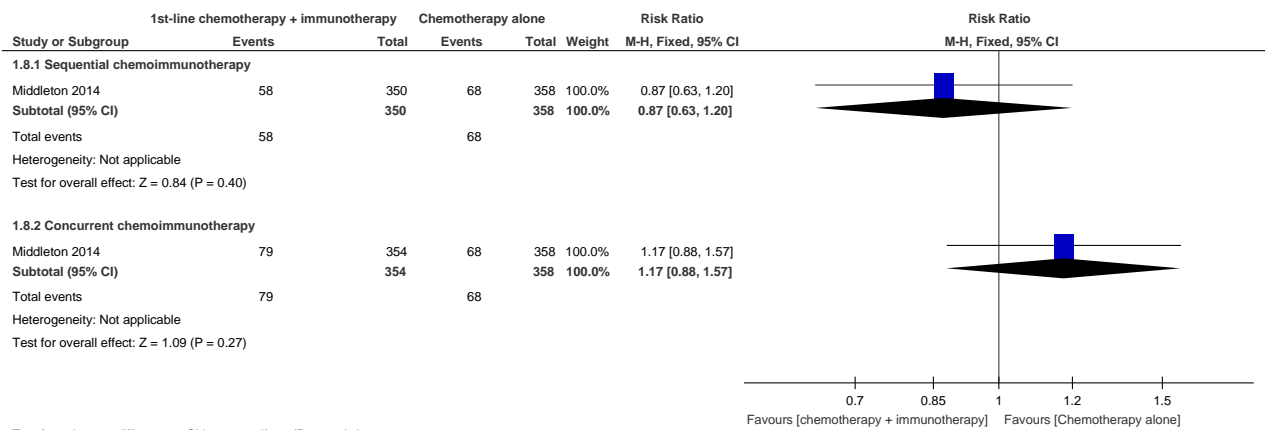
6

### 1 Figure 433: Grade 3/4/5 toxicities: Fatigue



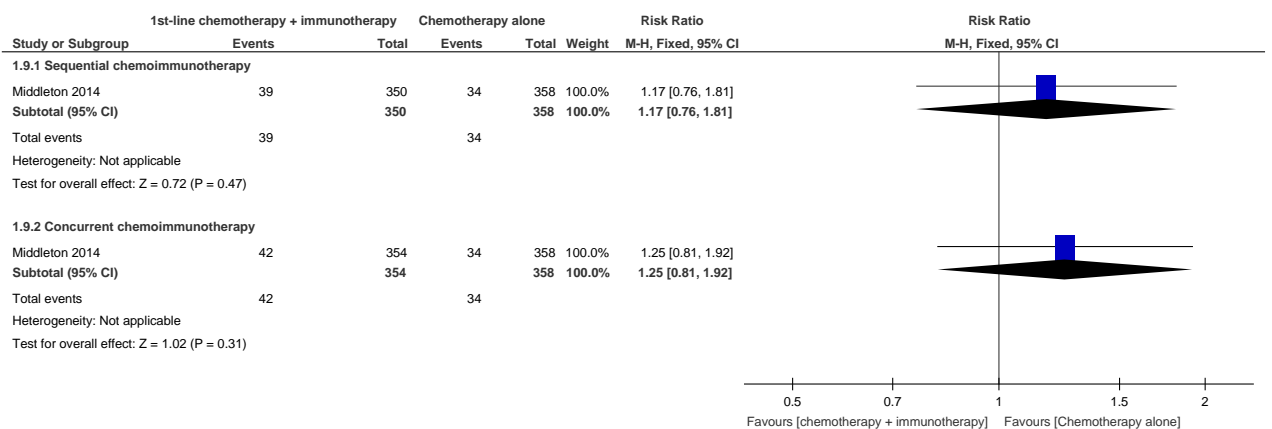
2

### 3 Figure 434: Grade 3/4/5 toxicities: Neutropenia



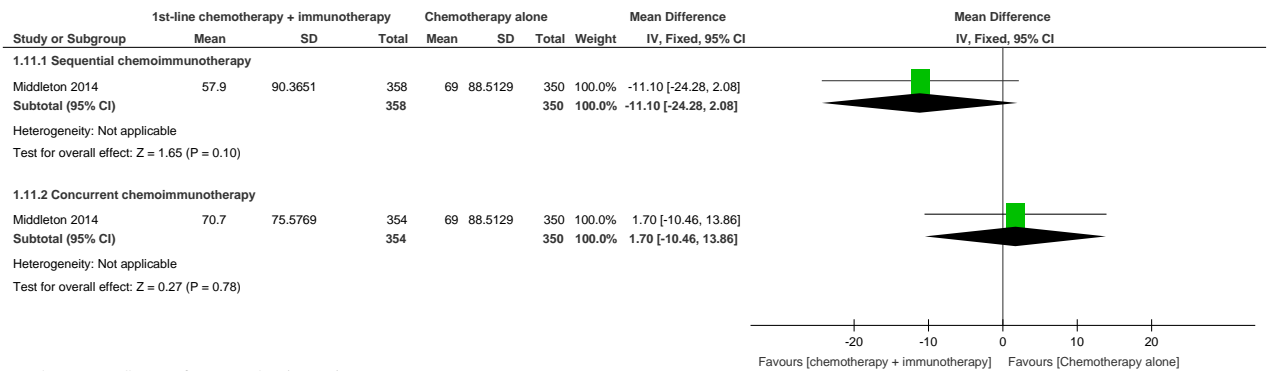
4 Test for subgroup differences: Chi<sup>2</sup> = 1.84, df = 1 (P = 0.17), I<sup>2</sup> = 45.8%

### 5 Figure 435: Grade 3/4/5 toxicities: Pain



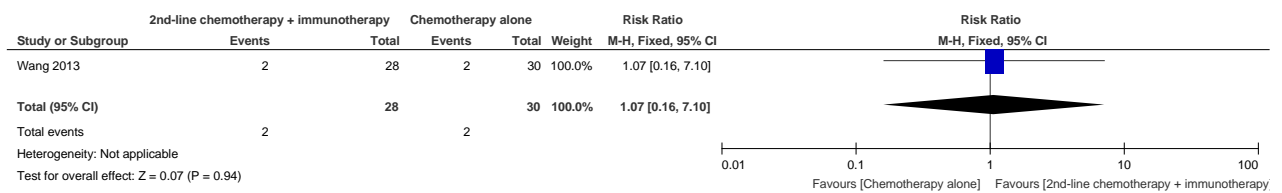
6 Test for subgroup differences: Chi<sup>2</sup> = 0.04, df = 1 (P = 0.84), I<sup>2</sup> = 0%

### 1 Figure 436: Health-related Quality of Life at 20 weeks (EORTC QLQ-C30)



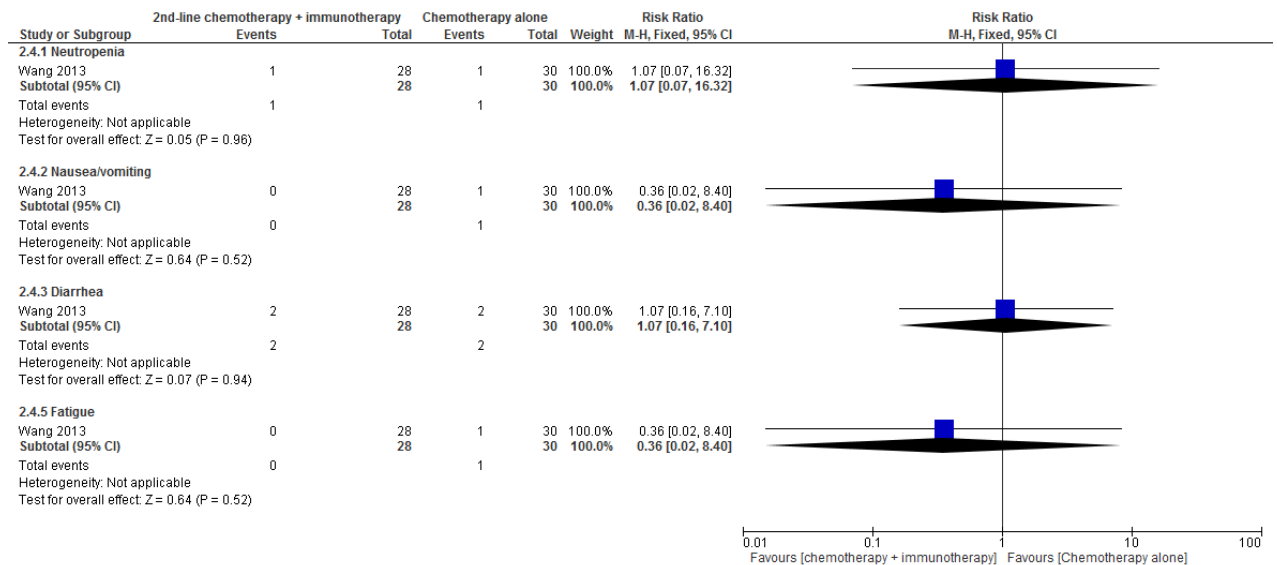
2 Test for subgroup differences: Chi<sup>2</sup> = 1.96, df = 1 (P = 0.16), I<sup>2</sup> = 48.9%

### 3 Figure 437: Overall response rate (CR + PR): unclear follow-up



4

### 5 Figure 438: Grade 3/4 toxicities

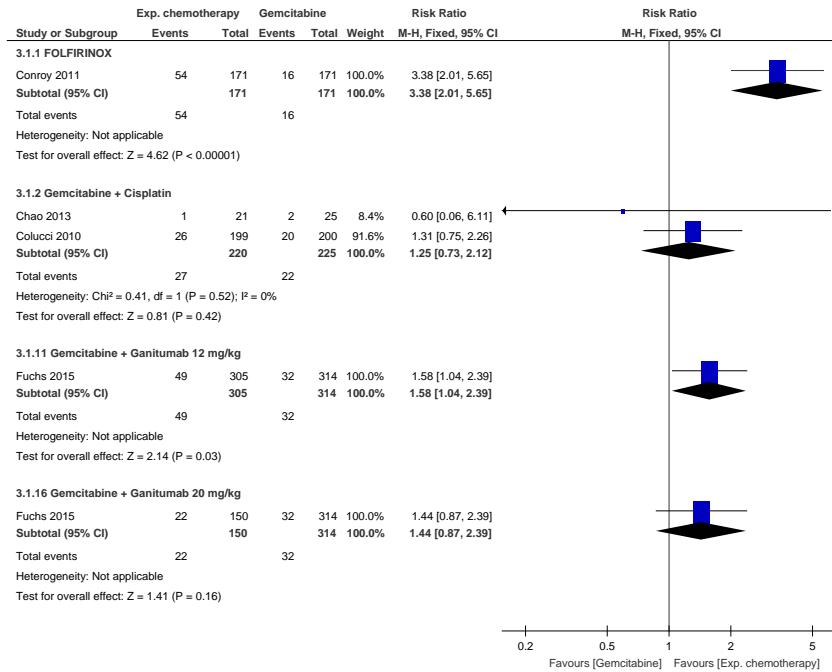


6

## H.17.21 Gemcitabine versus other chemotherapy

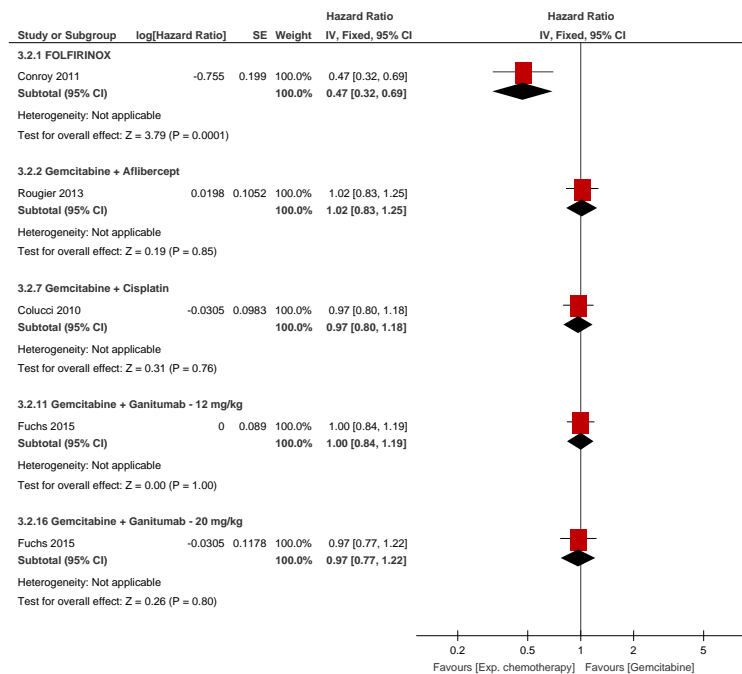
### H.17.2.12 In adults with metastatic pancreatic cancer

#### 3 Figure 439: overall response rate (CR+RP)



4

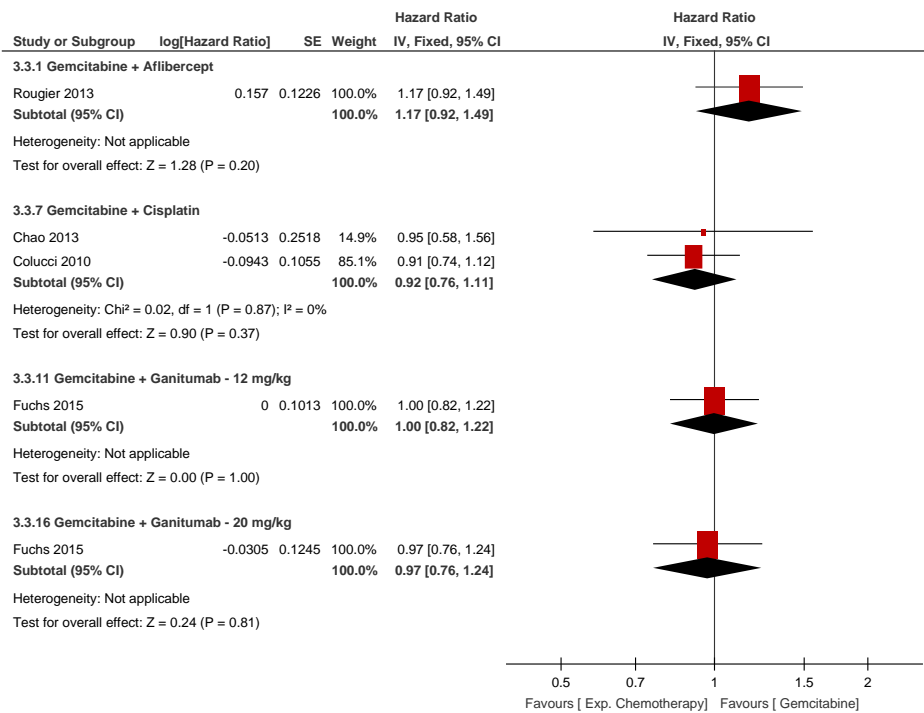
#### 5 Figure 440: Progression-free survival



6

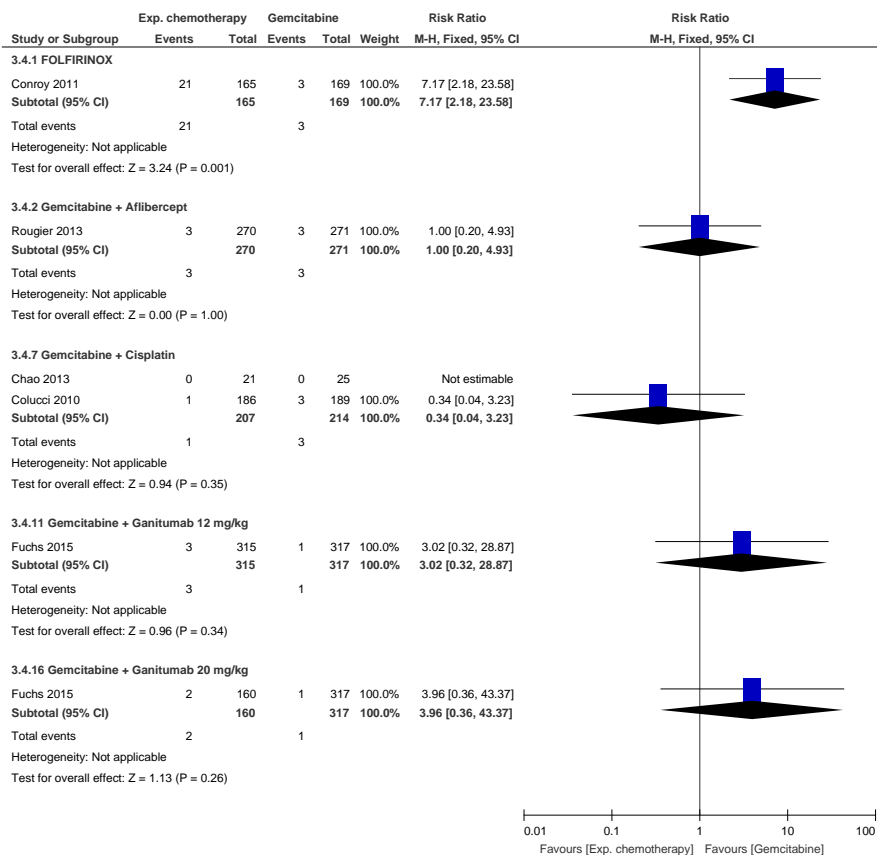


### 1 Figure 441: Overall survival



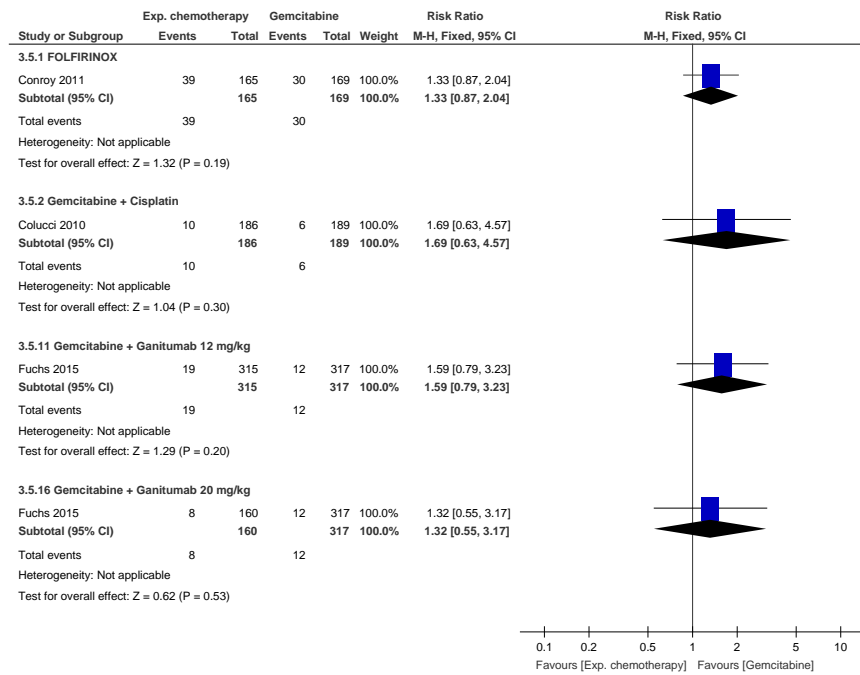
2

### 3 Figure 442: Grade 3/4 toxicities: Diarrhoea



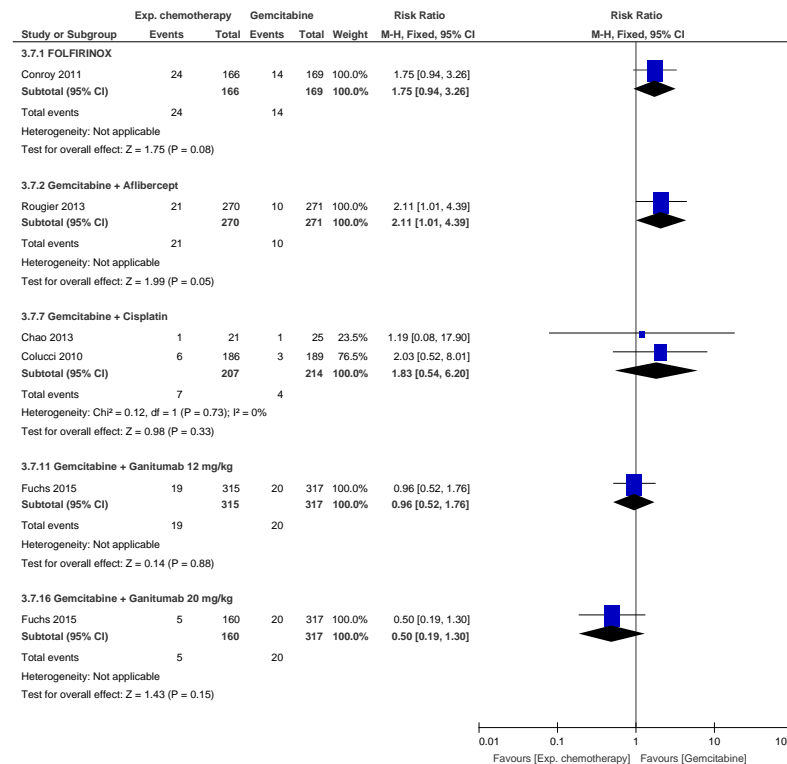
4

### 1 Figure 443: Grade 3/4 toxicities: Fatigue



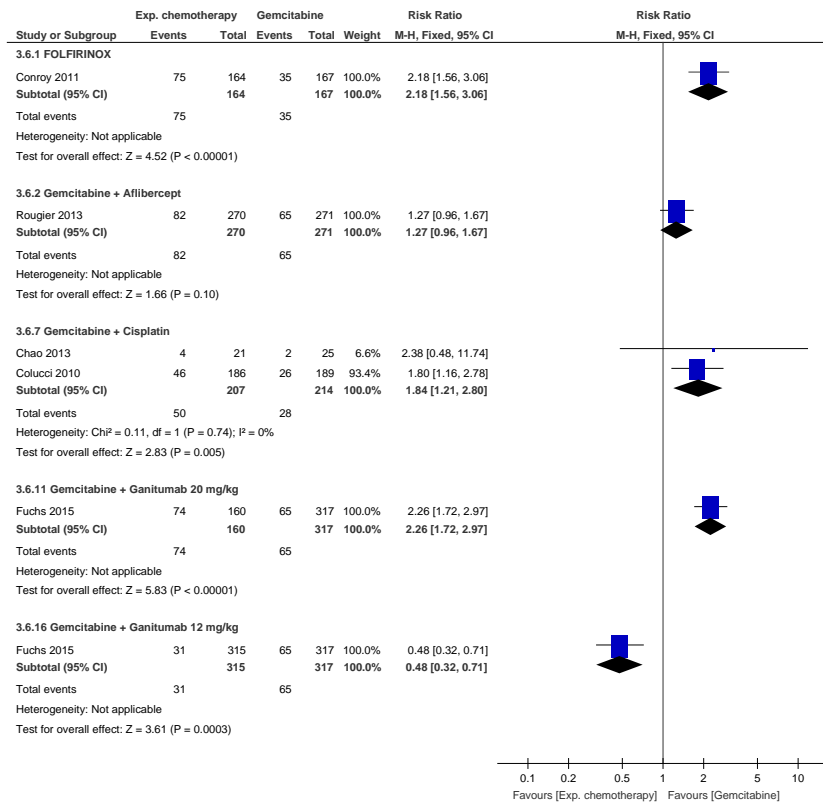
2

### 3 Figure 444: Grade 3/4 toxicities: Nausea/vomiting



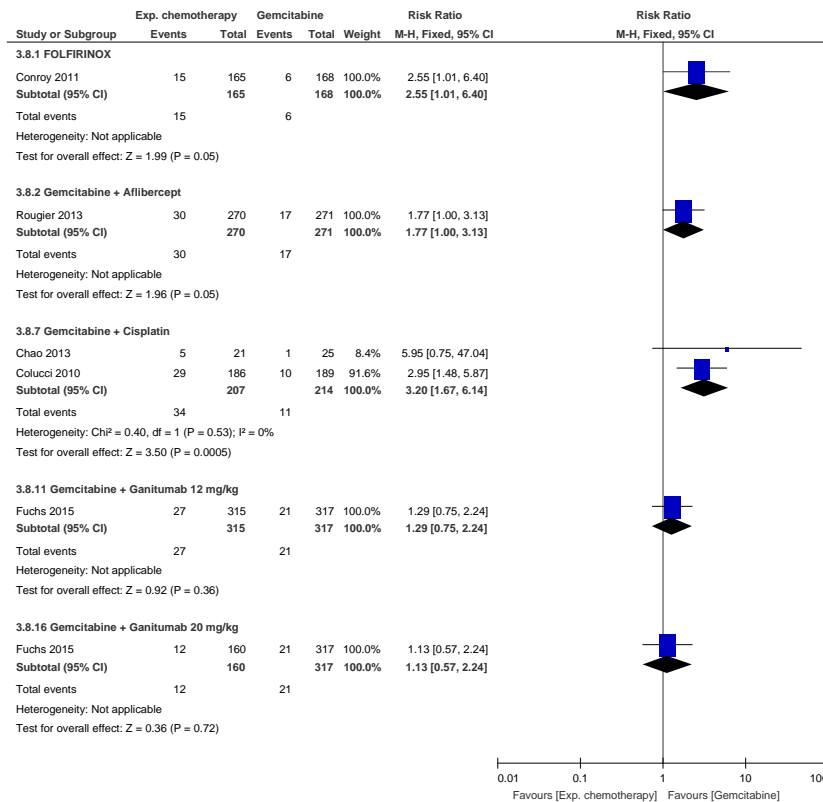
4

### 1 Figure 445: Grade 3/4 toxicities: Neutropenia



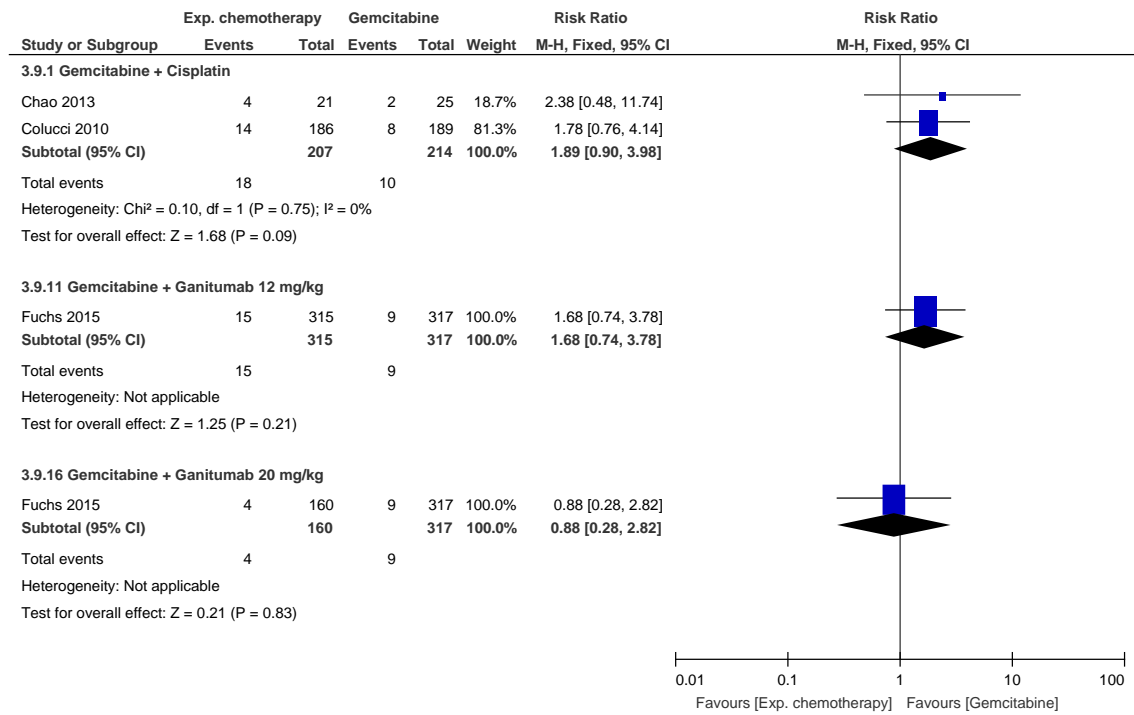
2

### 3 Figure 446: Grade 3/4 toxicities: Thrombocytopenia



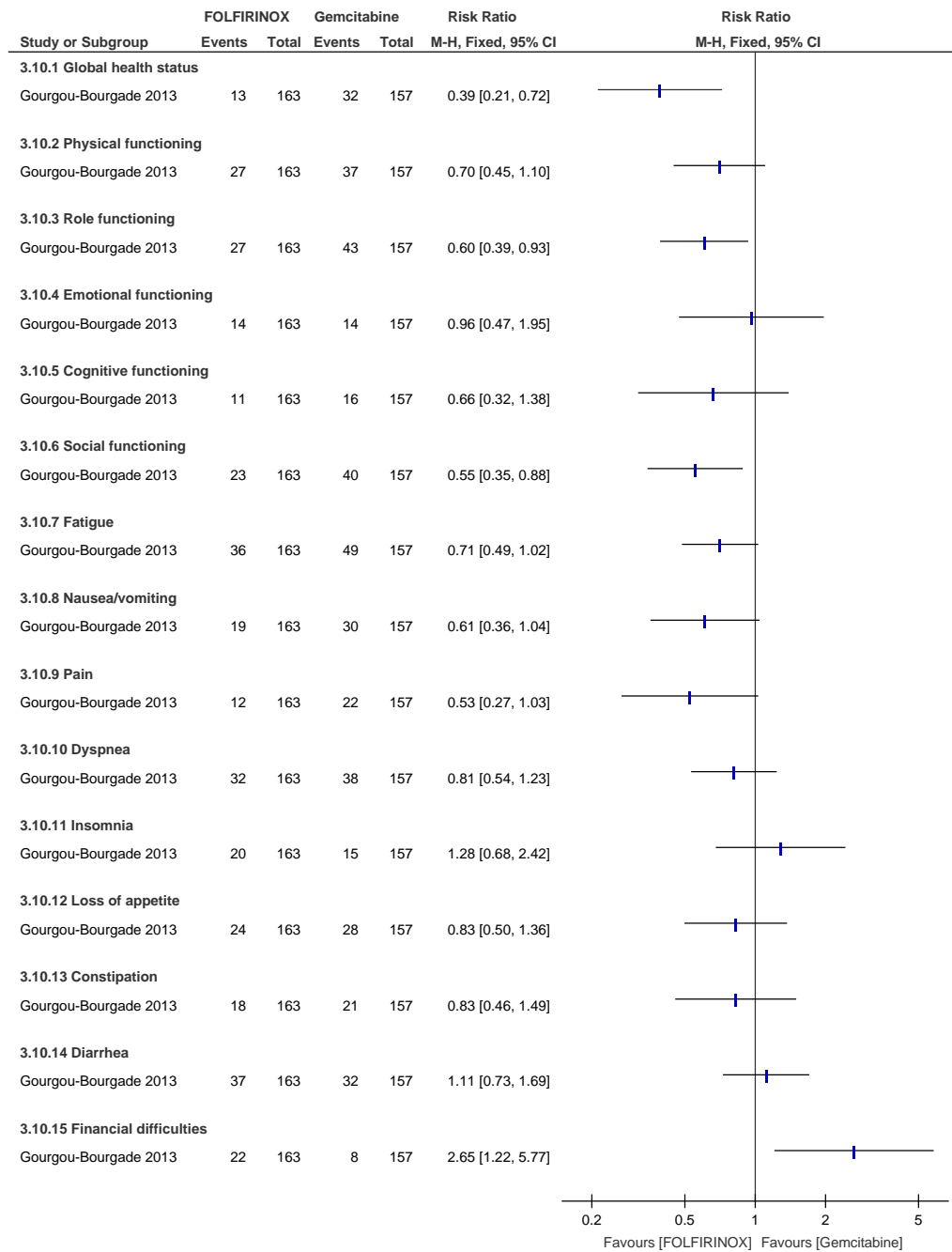
4

## 1 Figure 447: Grade 3/4 toxicities: Leucopenia



2

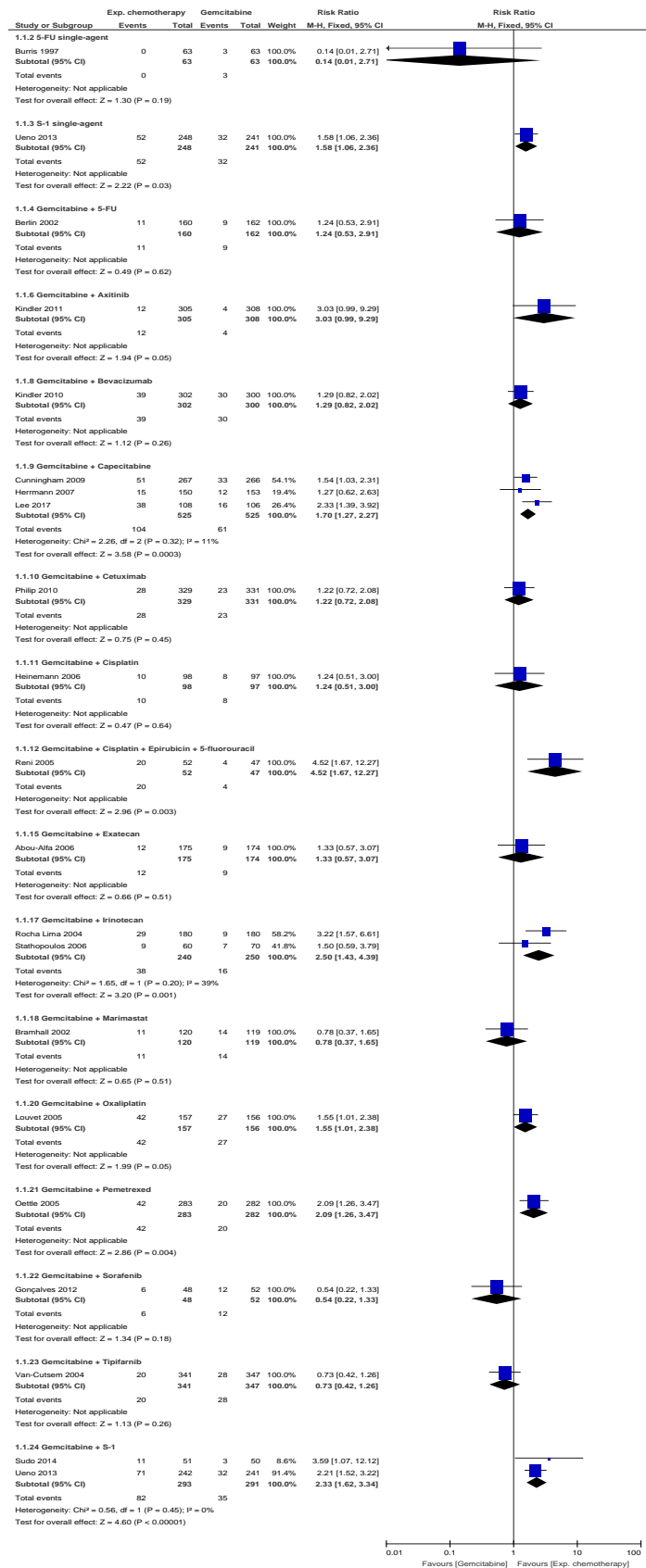
1 **Figure 448: HRQL - Number of patients with a clinically significant (10 point)**  
 2 **deterioration QLQ-C30 [between baseline and the end of treatment (6**  
 3 **months)]**



4

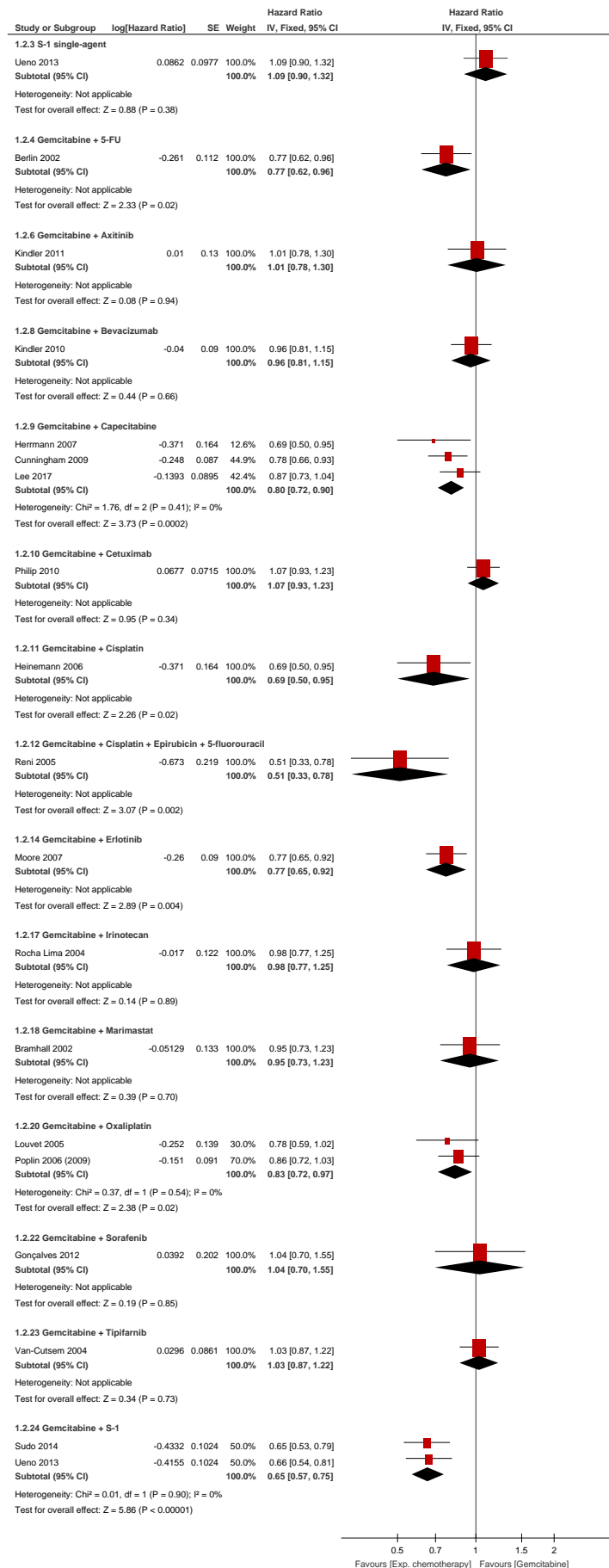
## H.17.2.21 In adults with locally advanced or metastatic pancreatic cancer

### 2 Figure 449: Overall response rate



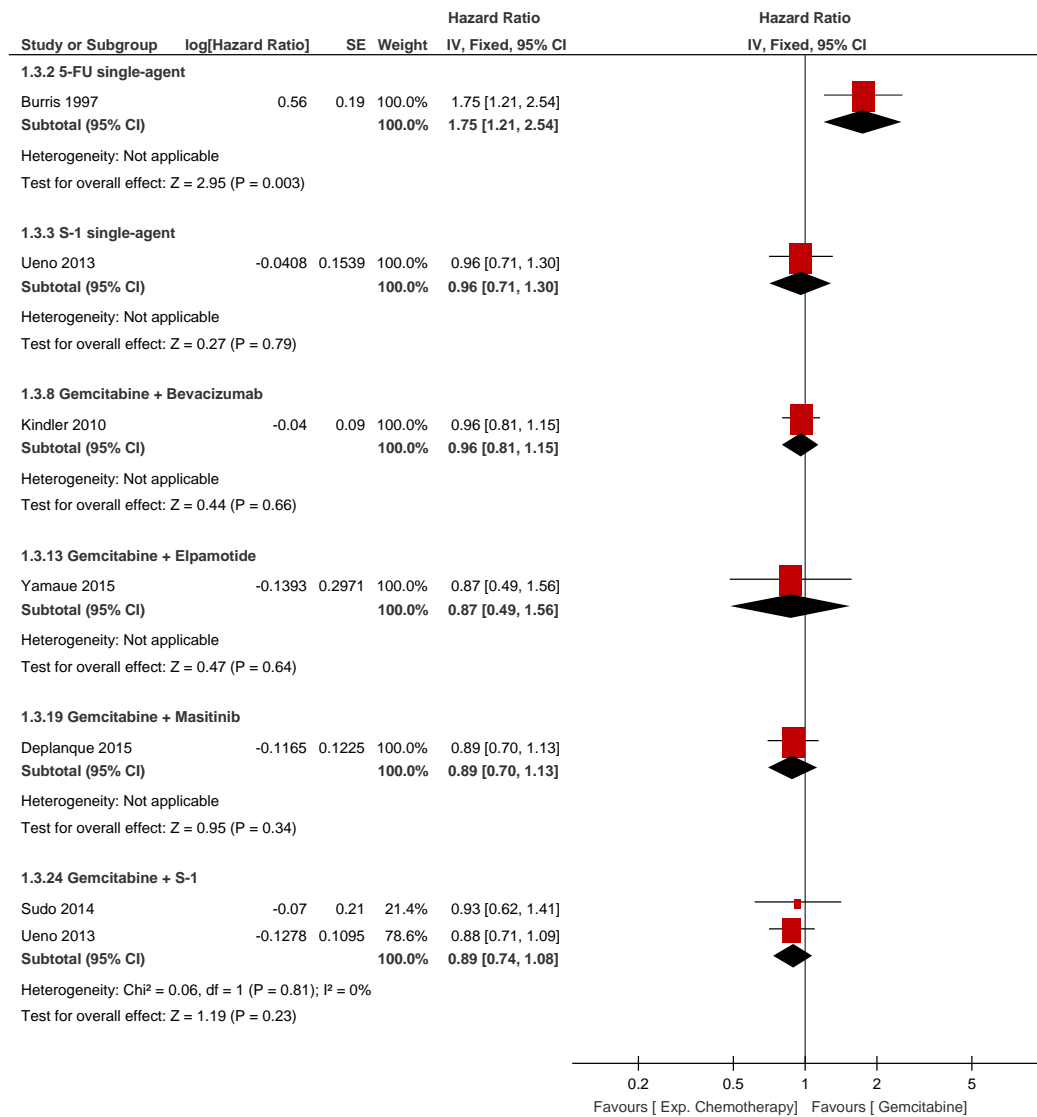
3

### 1 Figure 450: Progression-free survival



2

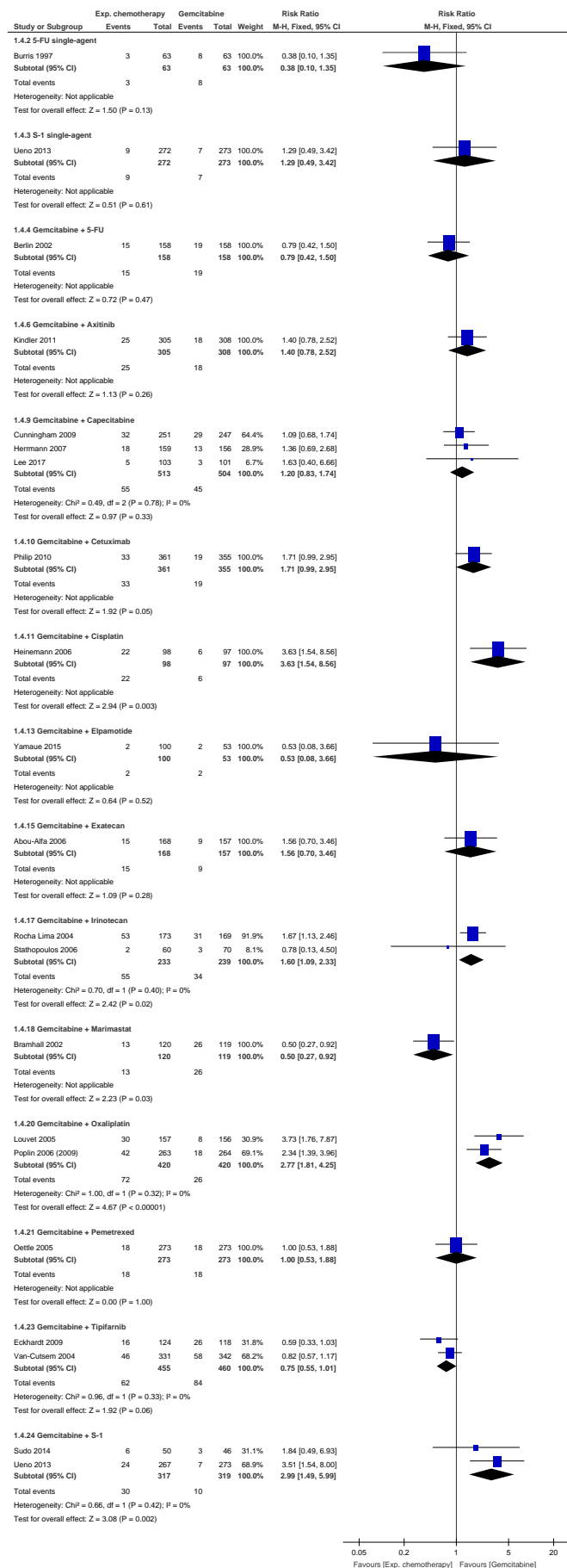
## 1 Figure 451: Overall survival



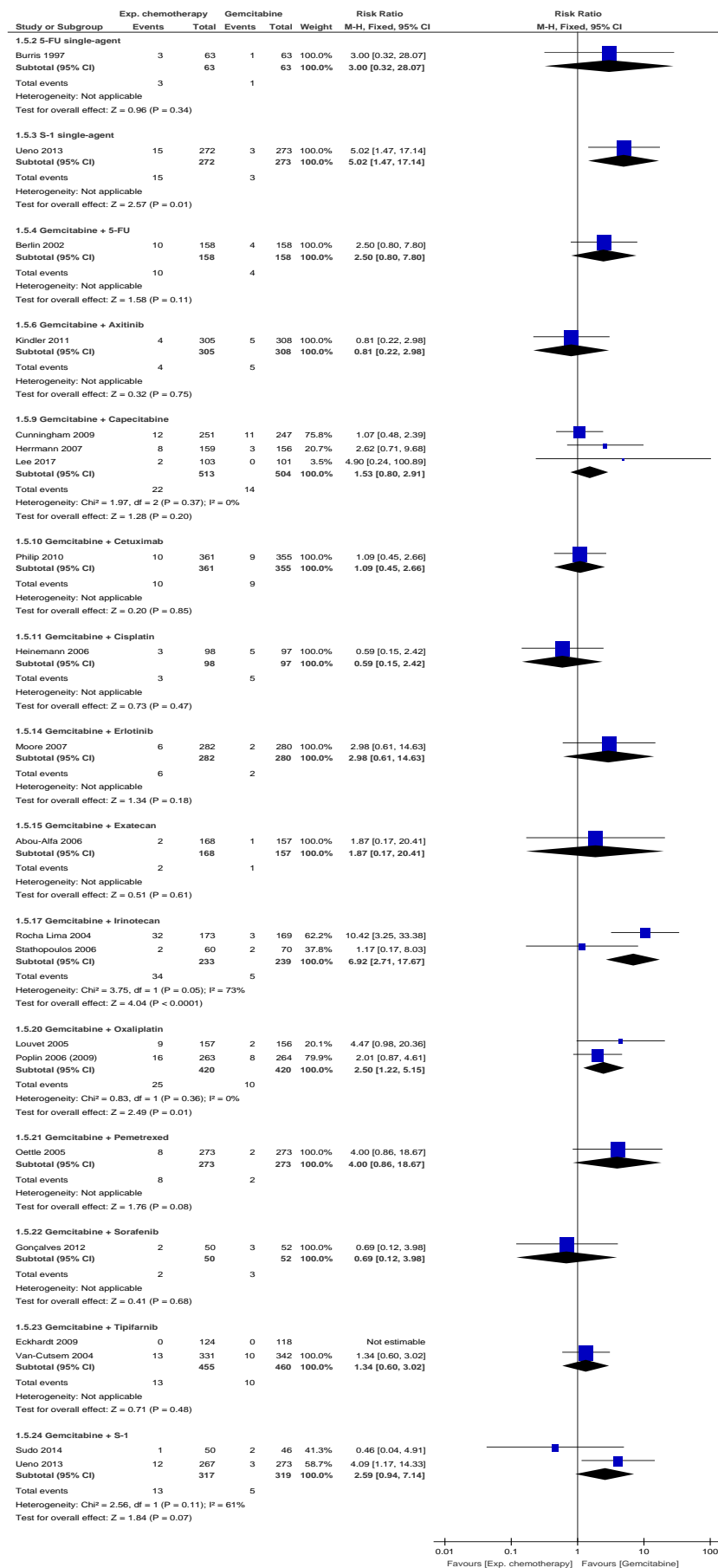
2



# 1 Figure 452: Grade 3/4 toxicities - Nausea/Vomiting

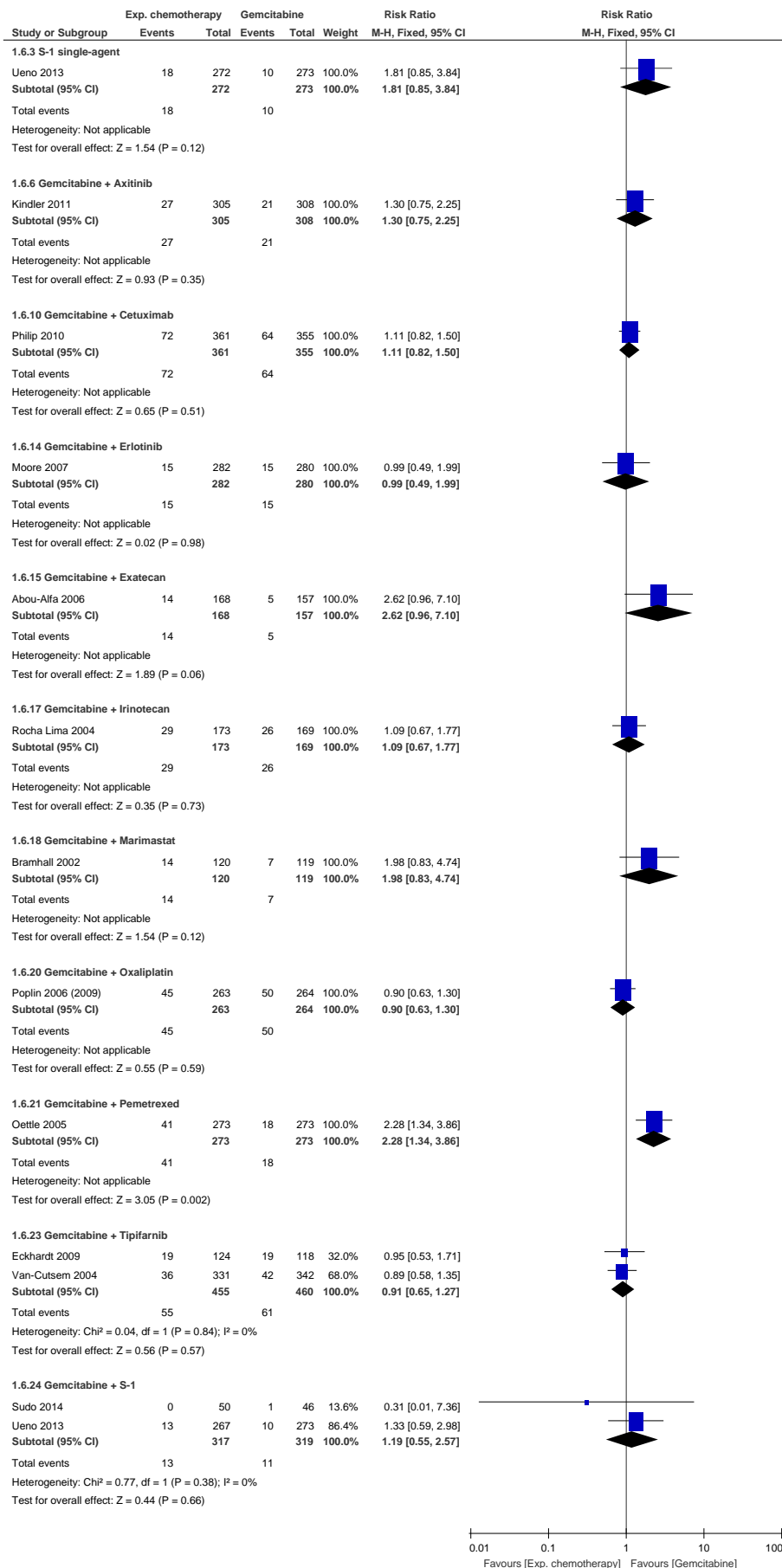


### 1 Figure 453: Grade 3/4 toxicities – Diarrhoea



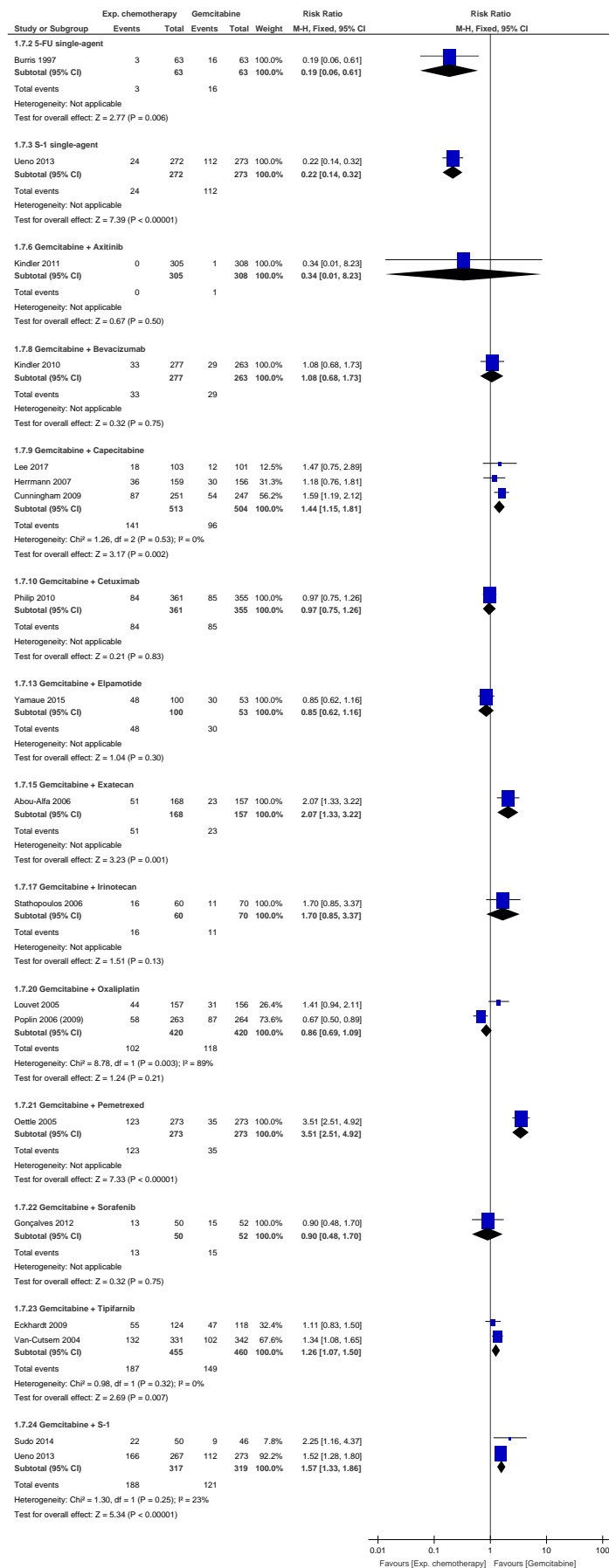
2

### 1 Figure 454: Grade 3/4: Fatigue



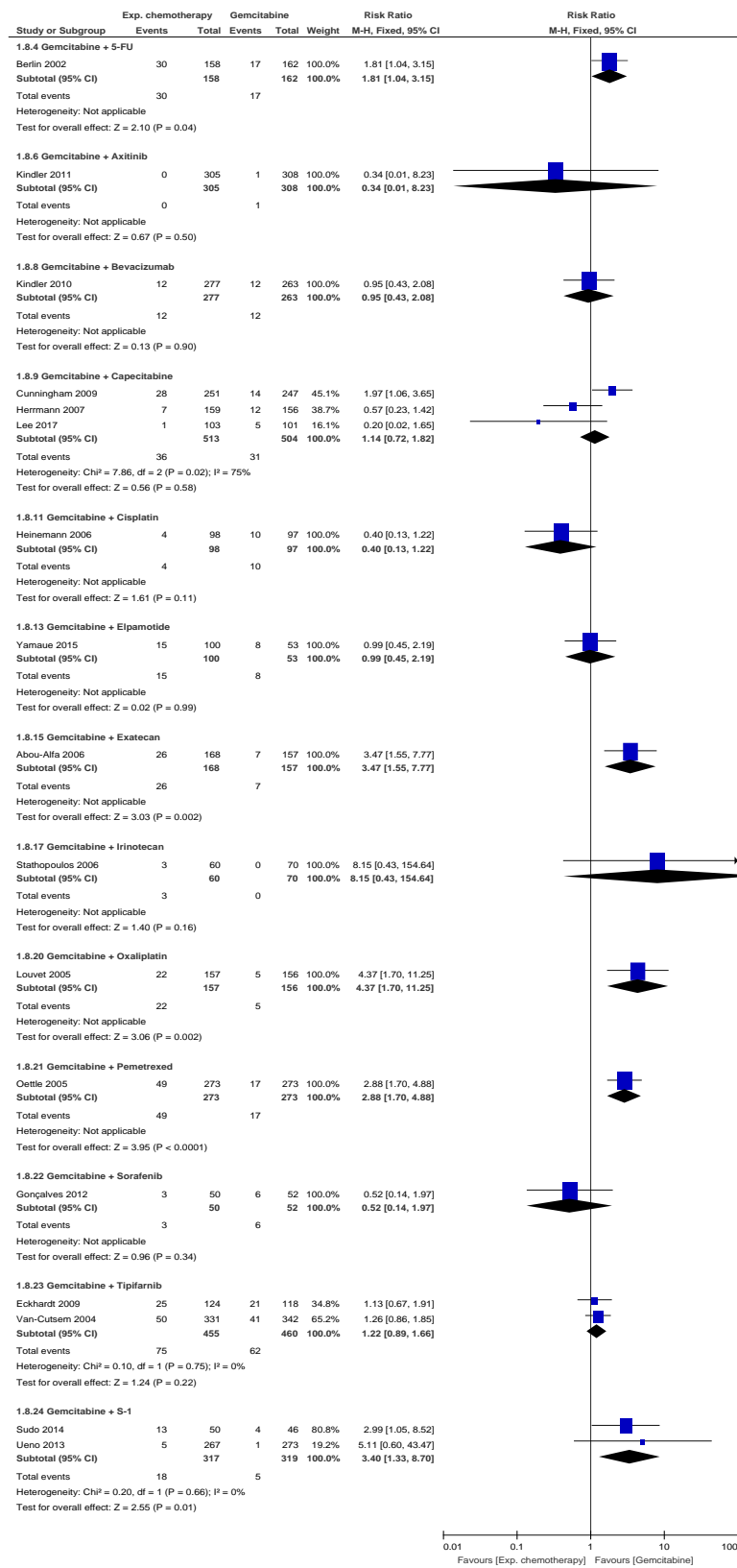
2

# 1 Figure 455: Grade 3/4: Neutropenia



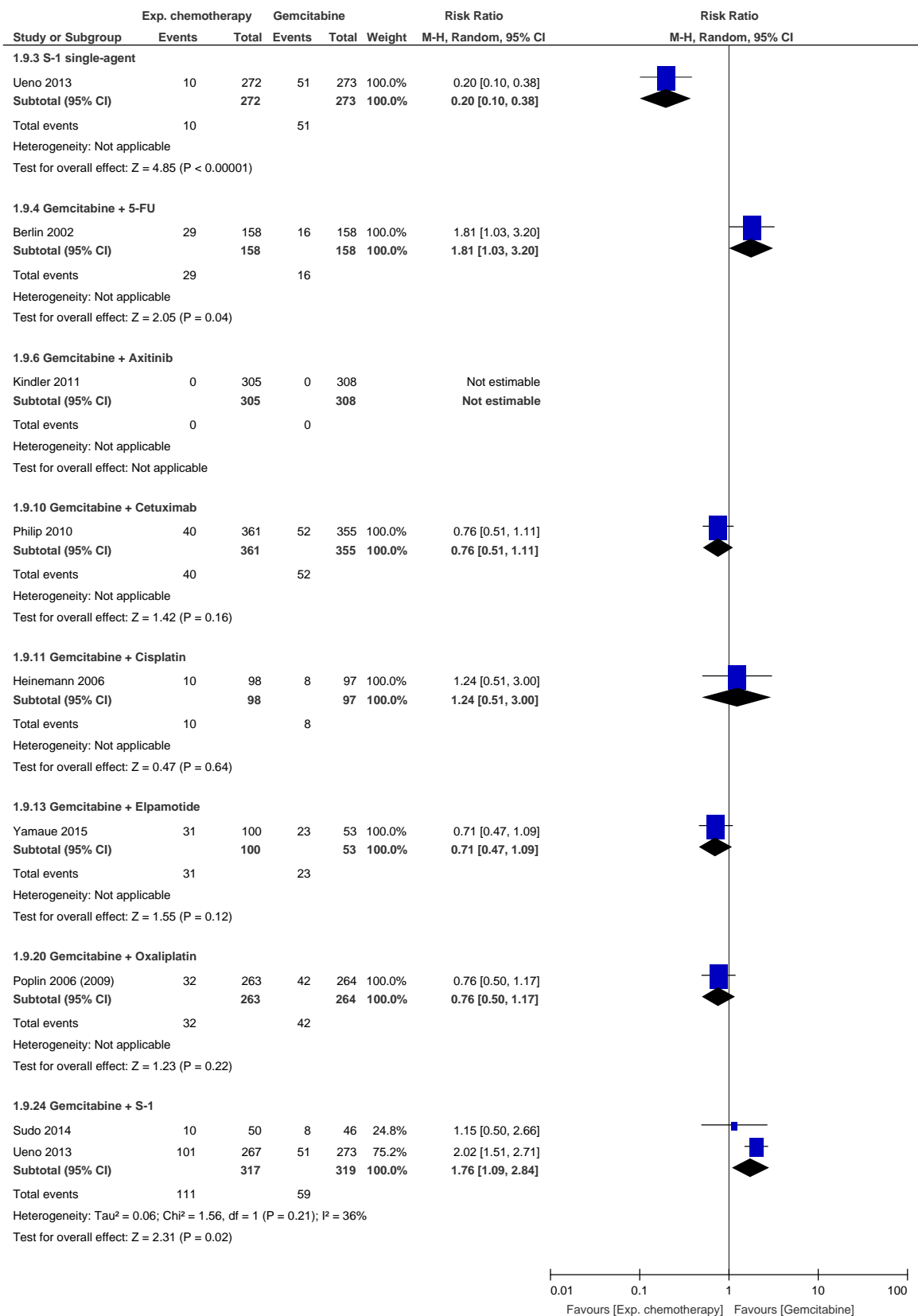
2

# 1 Figure 456: Grade 3/4: Thrombocytopenia



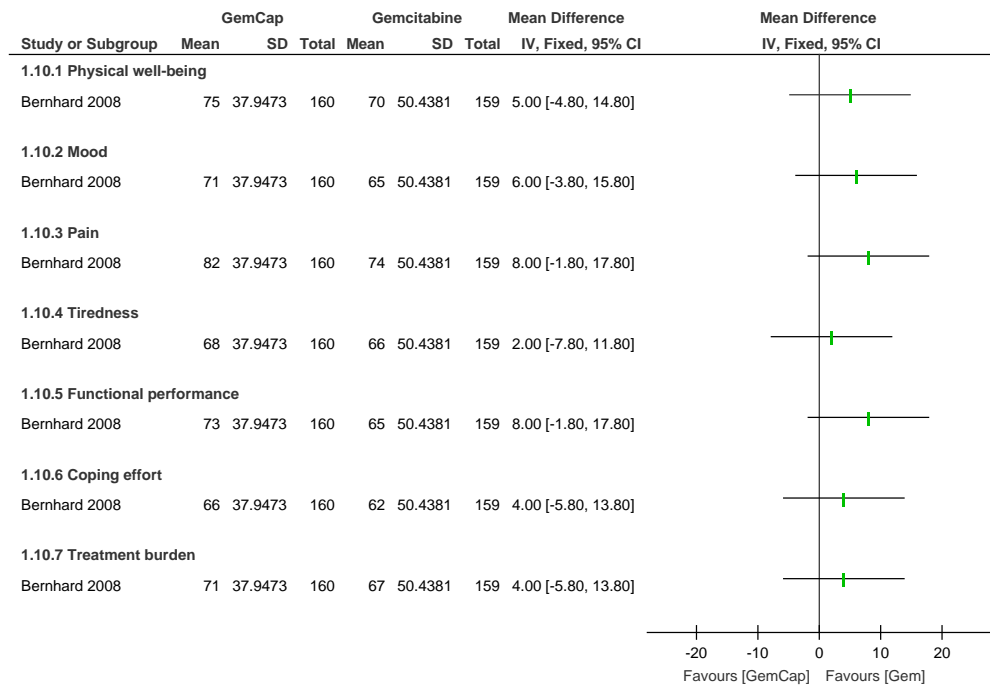
2

## 1 Figure 457: Grade 3/4: Leucopenia



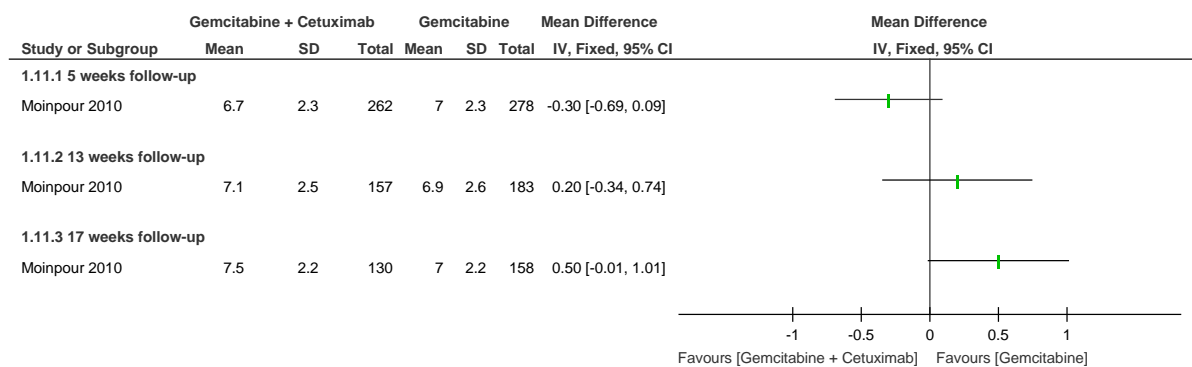
2

1 **Figure 458: HRQL\*(\*mean score difference at 6 months -linear-analogy-self-**  
2 **assessment [LASA]indicators)**



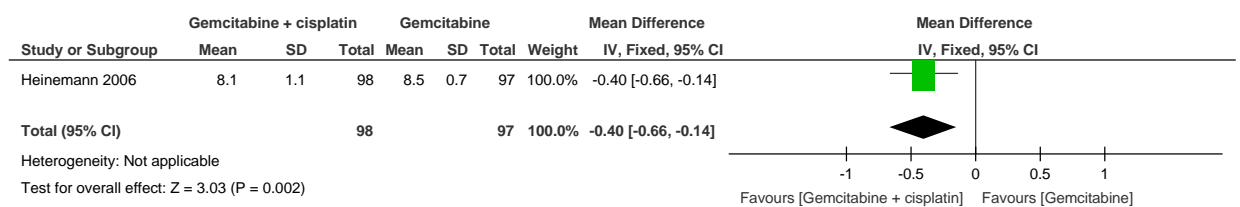
3

4 **Figure 459: HRQL\*(Emotional Well-Being Score at 5, 13, and 17 weeks follow-up)**



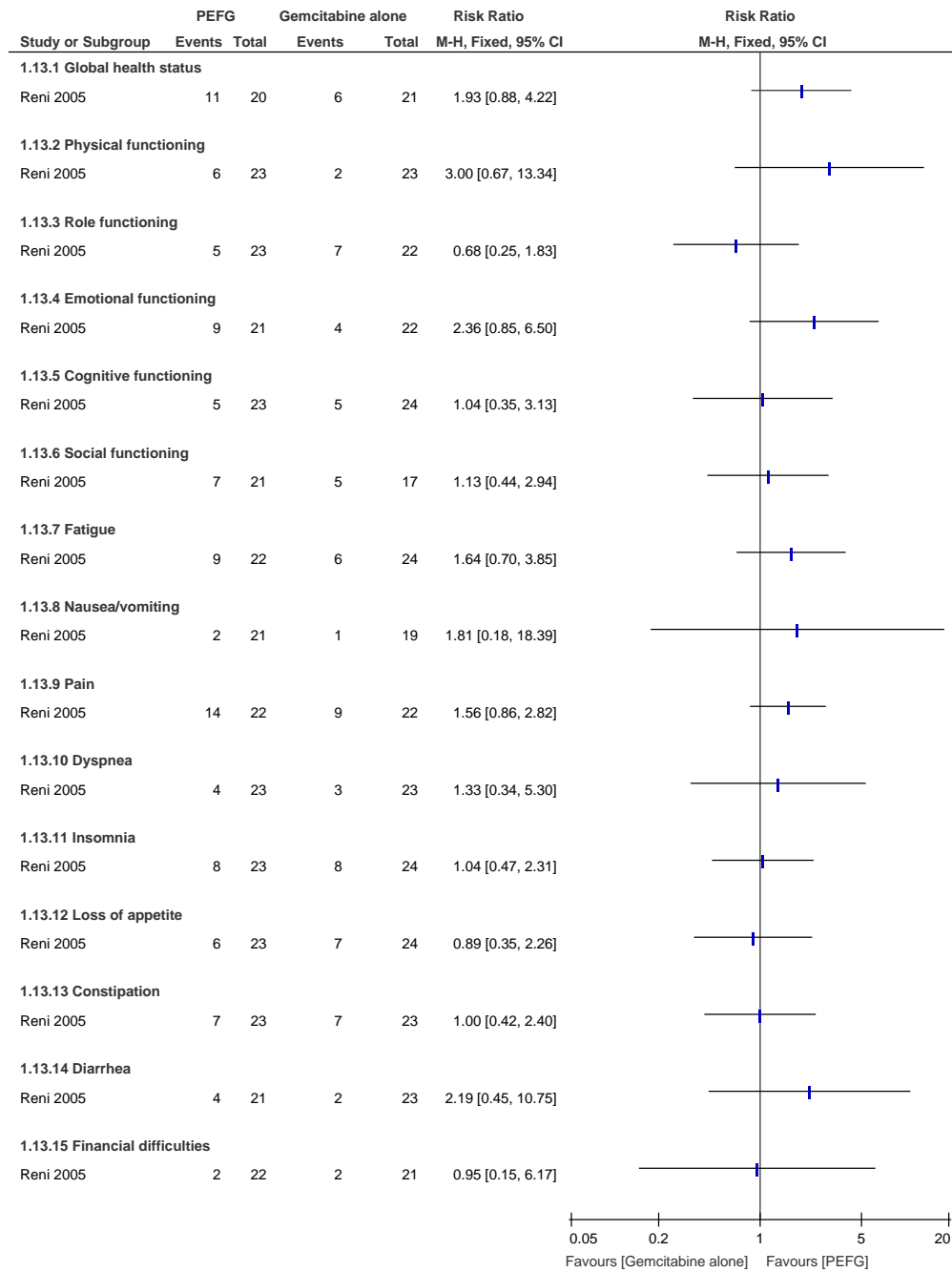
5

6 **Figure 460: HRQL\*(follow-up at at 6 treatment cycles-Spitzer 5-Item Index)**



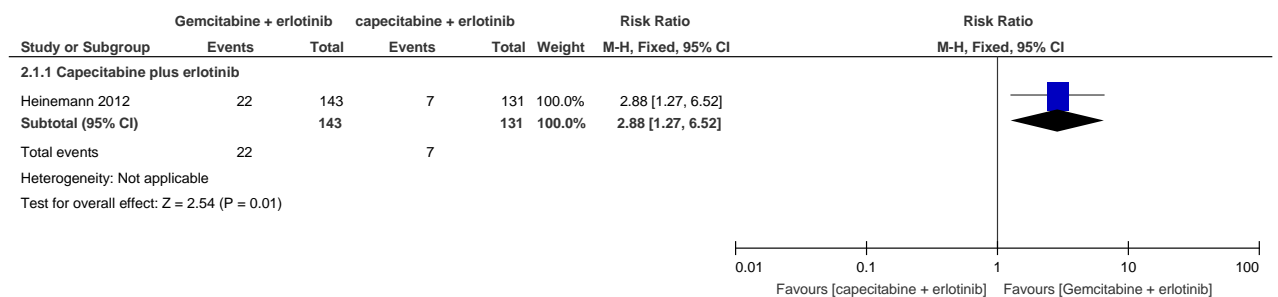
7

1 **Figure 461: HRQL\*(Number of patients with a clinically significant improvement QLQ-**  
2 **C30 at one cycle)**



3

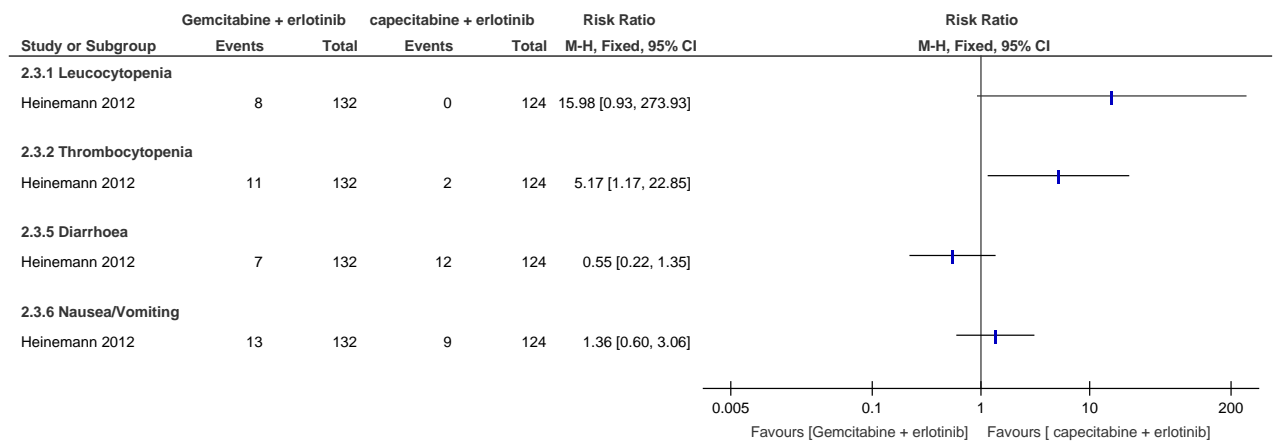
4 **Figure 462: GEM + erlotinib versus capecitabine + erlotinib - Overall response rate (CR**  
5 **+ PR)**



6



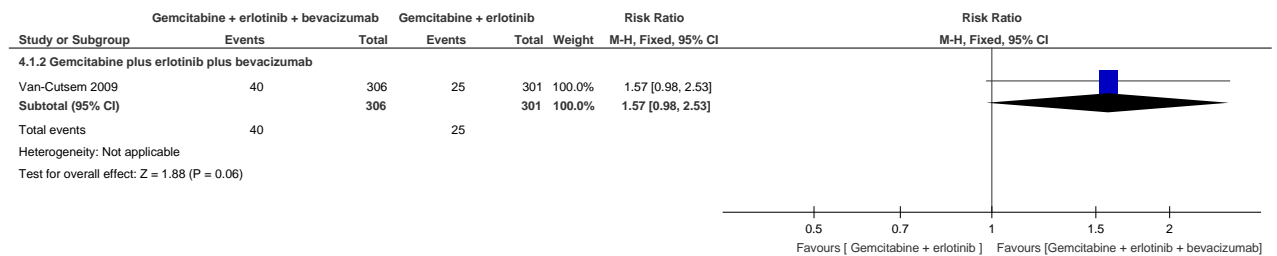
1 **Figure 463: GEM + erlotinib versus capecitabine + erlotinib - Grade 3/4 toxicities**



2

3 **Figure 464: GEM + erlotinib versus GEM + erlotinib + bevacizumab - Overall response rate (CR + PR)**

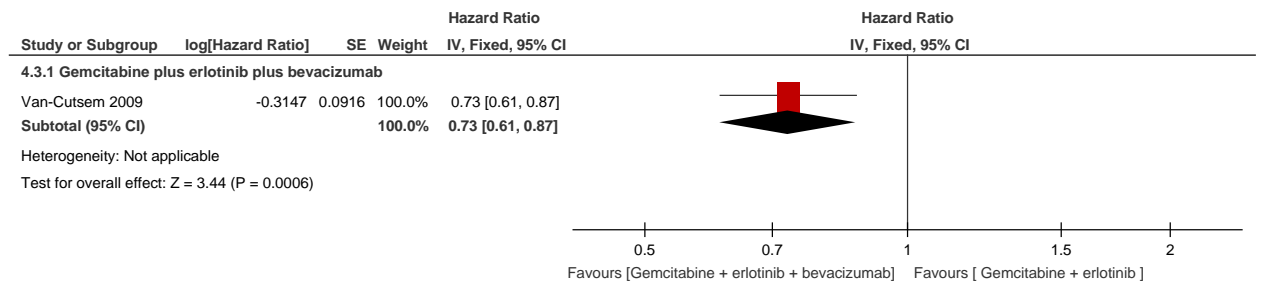
4



5

6 **Figure 465: GEM + erlotinib versus GEM + erlotinib + bevacizumab - Progression-free survival**

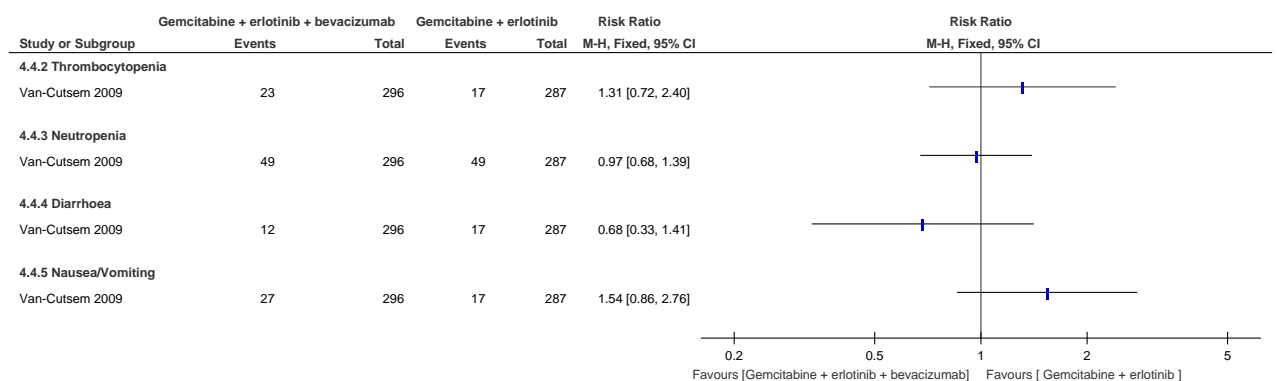
7



8

9 **Figure 466: GEM + erlotinib versus GEM + erlotinib + bevacizumab - Grade 3/4 toxicities**

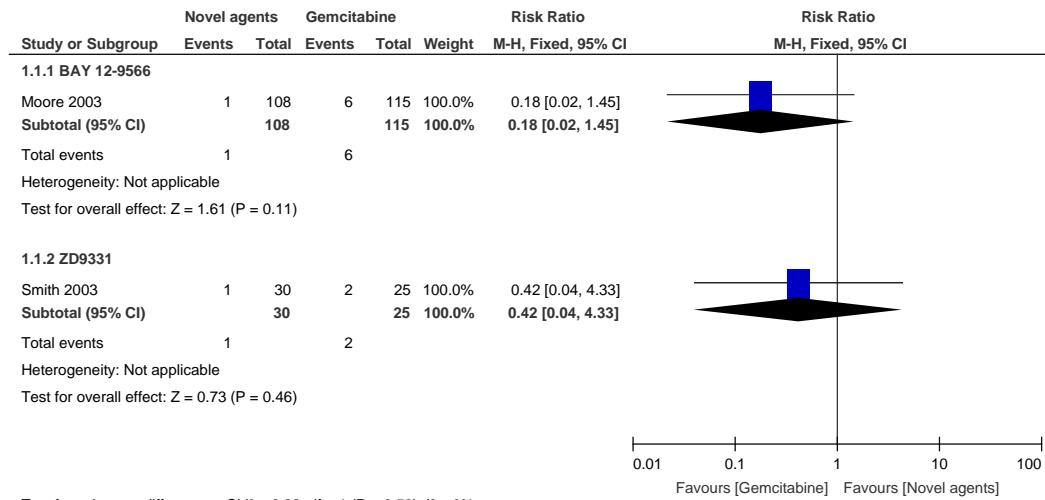
10



11

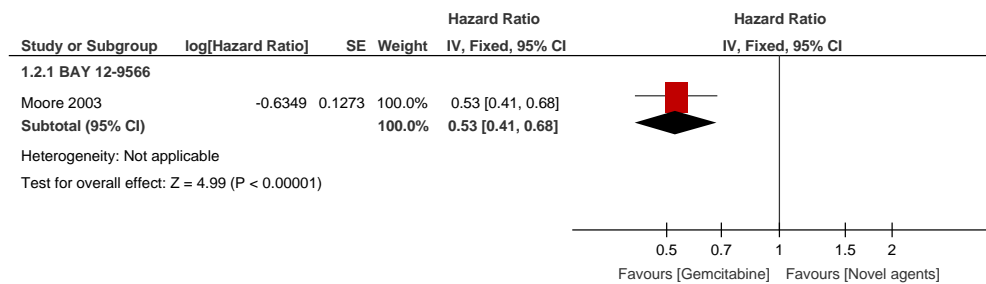
## H.17.31 Gemcitabine versus novel agents in adults with locally advanced or metastatic pancreatic cancer

### 3 Figure 467: Overall response rate (CR + PR) at 8 weeks of therapy



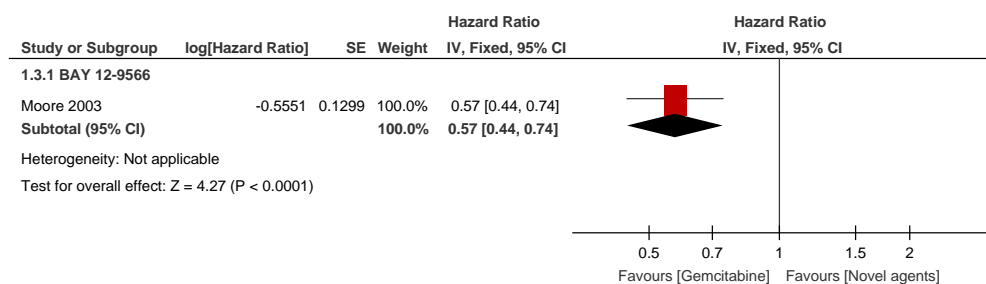
4 Test for subgroup differences: Chi<sup>2</sup> = 0.28, df = 1 (P = 0.59), I<sup>2</sup> = 0%

### 5 Figure 468: Progression-free survival



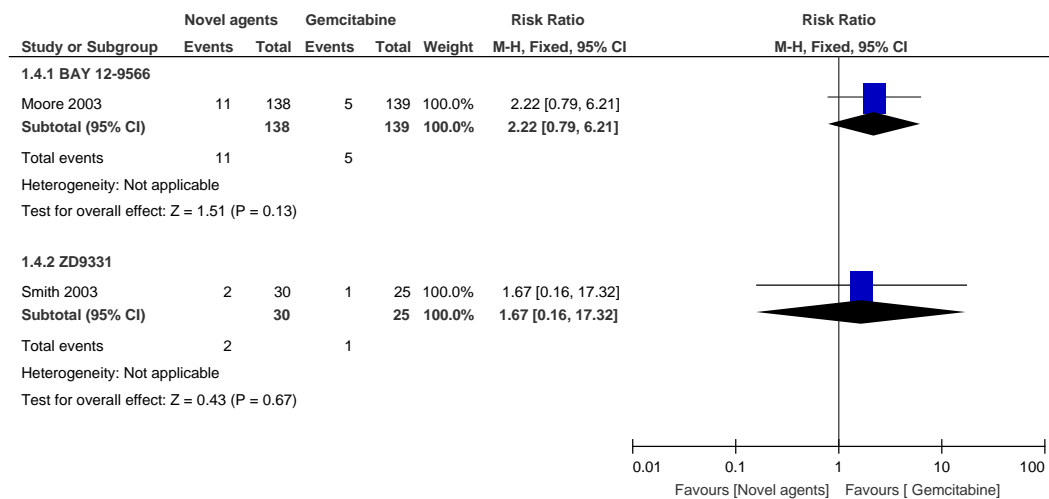
6

### 7 Figure 469: Overall survival



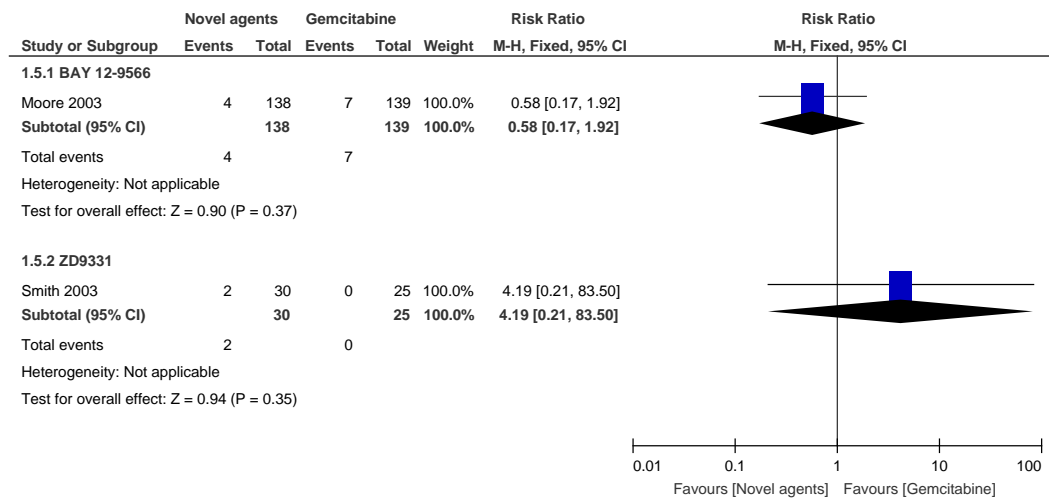
8

### 1 Figure 470: Grade 3/4 toxicities: Nausea



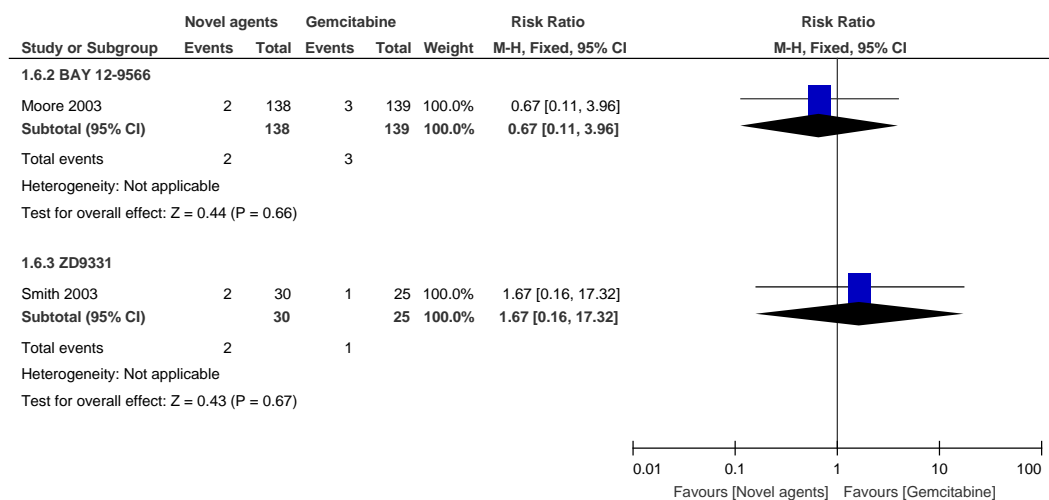
2 Test for subgroup differences: Chi<sup>2</sup> = 0.05, df = 1 (P = 0.83), I<sup>2</sup> = 0%

### 3 Figure 471: Grade 3/4 toxicities: Vomiting



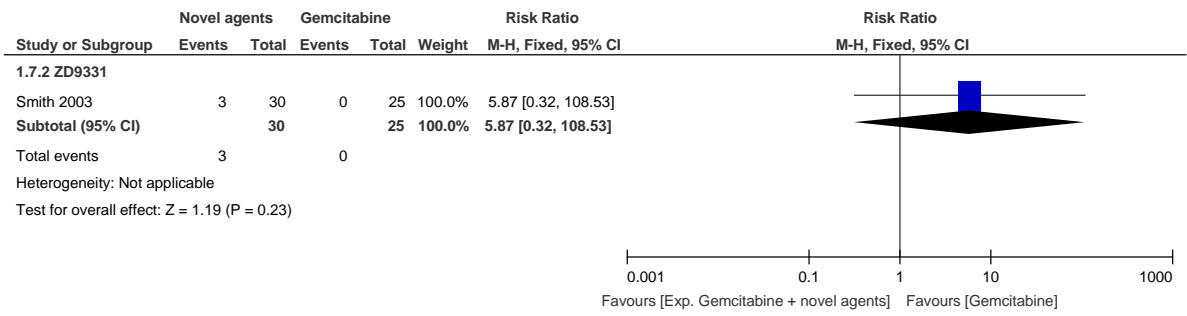
4 Test for subgroup differences: Chi<sup>2</sup> = 1.46, df = 1 (P = 0.23), I<sup>2</sup> = 31.3%

### 5 Figure 472: Grade 3/4 toxicities: Diarrhoea



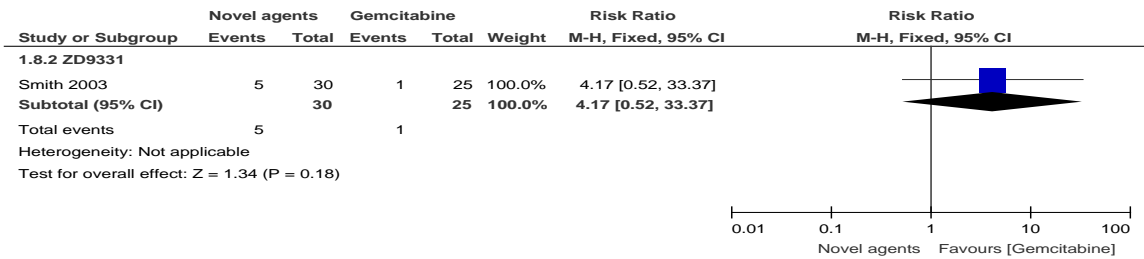
6 Test for subgroup differences: Chi<sup>2</sup> = 0.37, df = 1 (P = 0.54), I<sup>2</sup> = 0%

### 1 Figure 473: Grade 3/4 toxicities: Fatigue



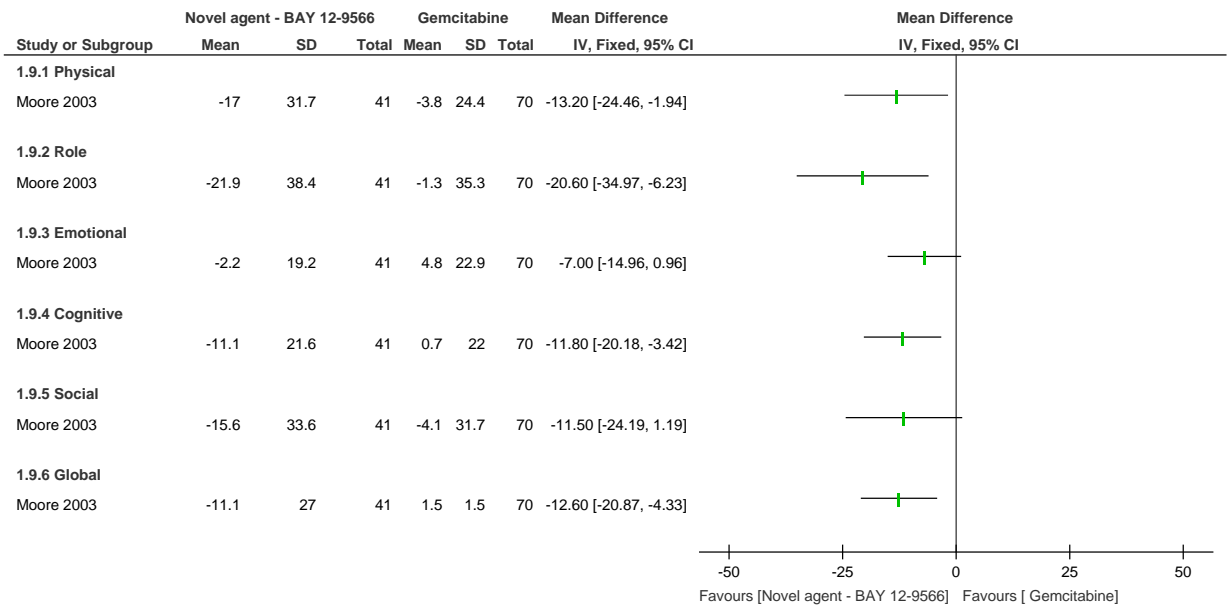
2

### 3 Figure 474: Grade 3/4 toxicities: Neutropenia



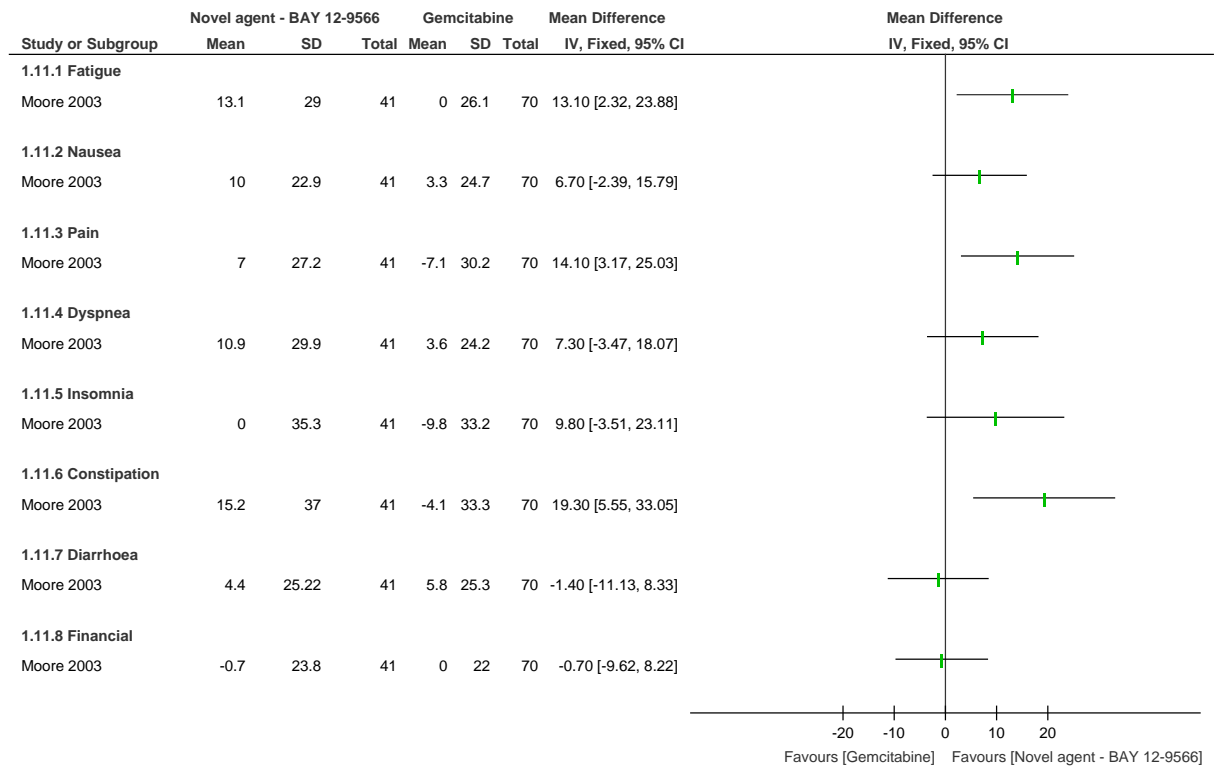
4

### 5 Figure 475: HRQL (EORTC C-30: Domains) - Mean change from Baseline at 8 weeks 6 follow-up



7

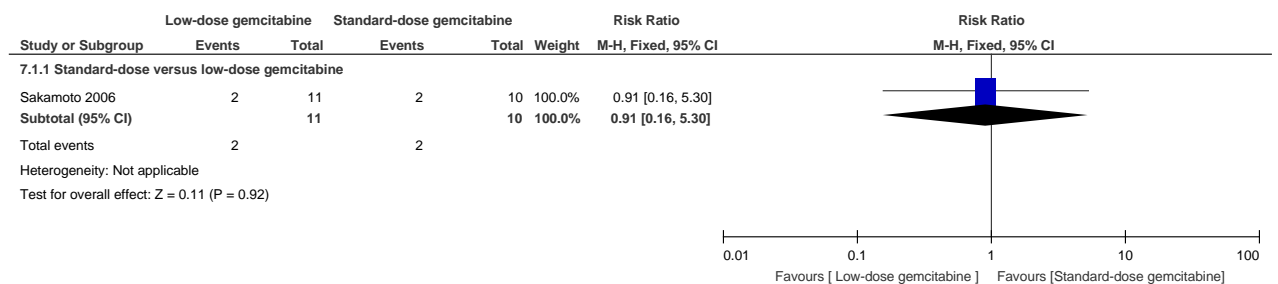
1 **Figure 476: HRQL (EORTC C-30: Symptoms) - Mean change From Baseline at 8 weeks**  
2 **follow-up**



3

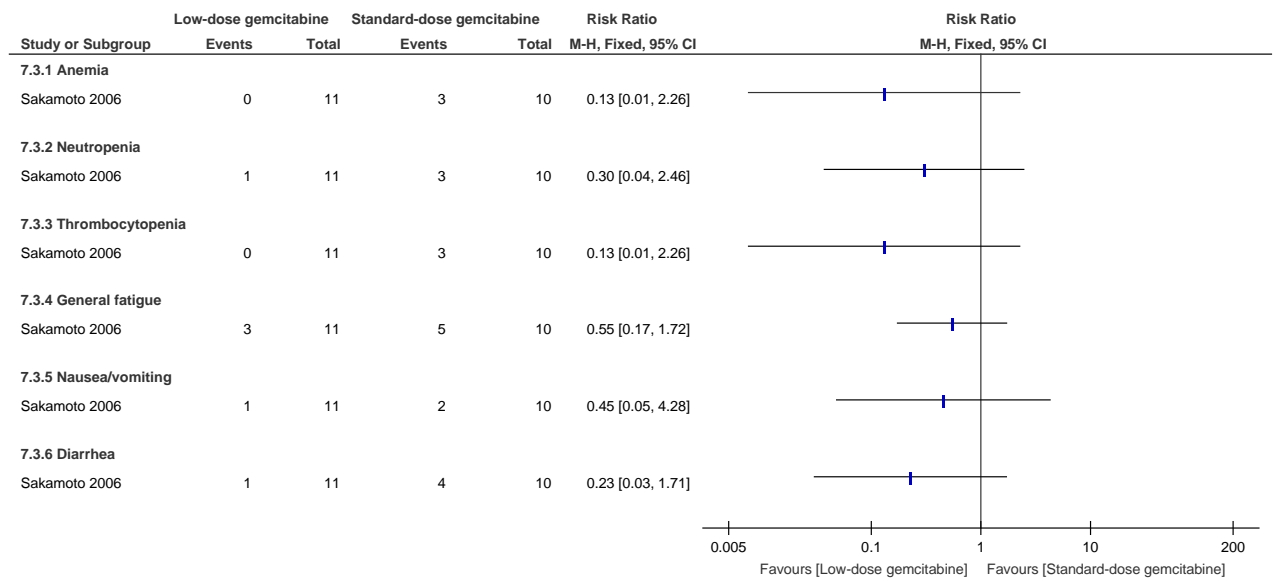
H.17.44 **Standard-dose gemcitabine versus low-dose gemcitabine in adults with locally**  
5 **advanced or metastatic pancreatic cancer**

6 **Figure 477: Overall response rate (CR + PR)**



7

### 1 Figure 478: Grade 3/4 toxicities

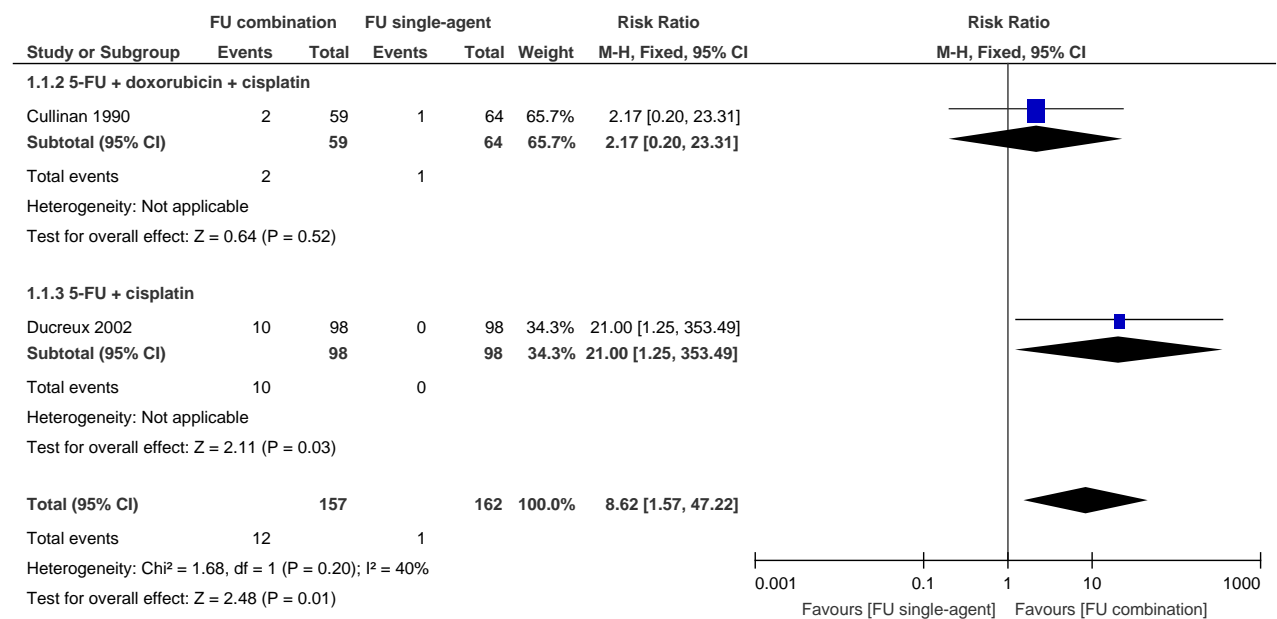


2

### H.17.53 5-FU versus combination 5-FU

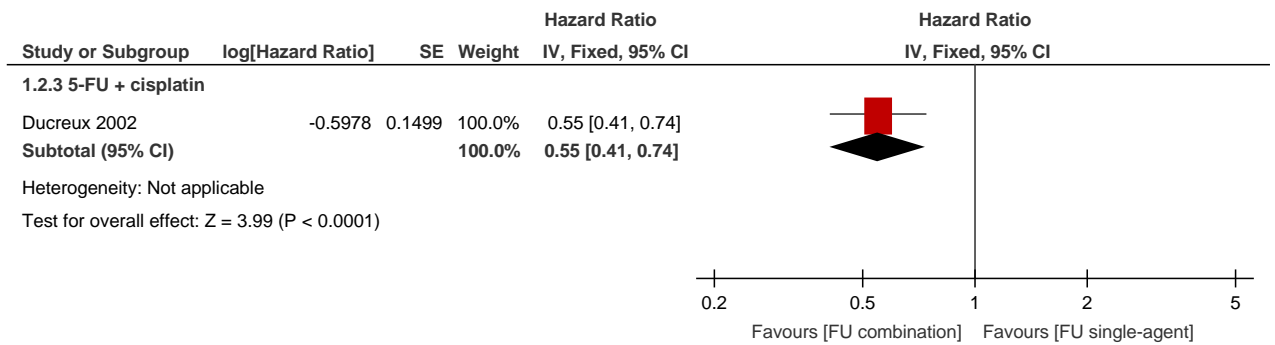
#### H.17.5.14 In adults with metastatic pancreatic cancer

### 5 Figure 479: Overall response rate (CR + PR)



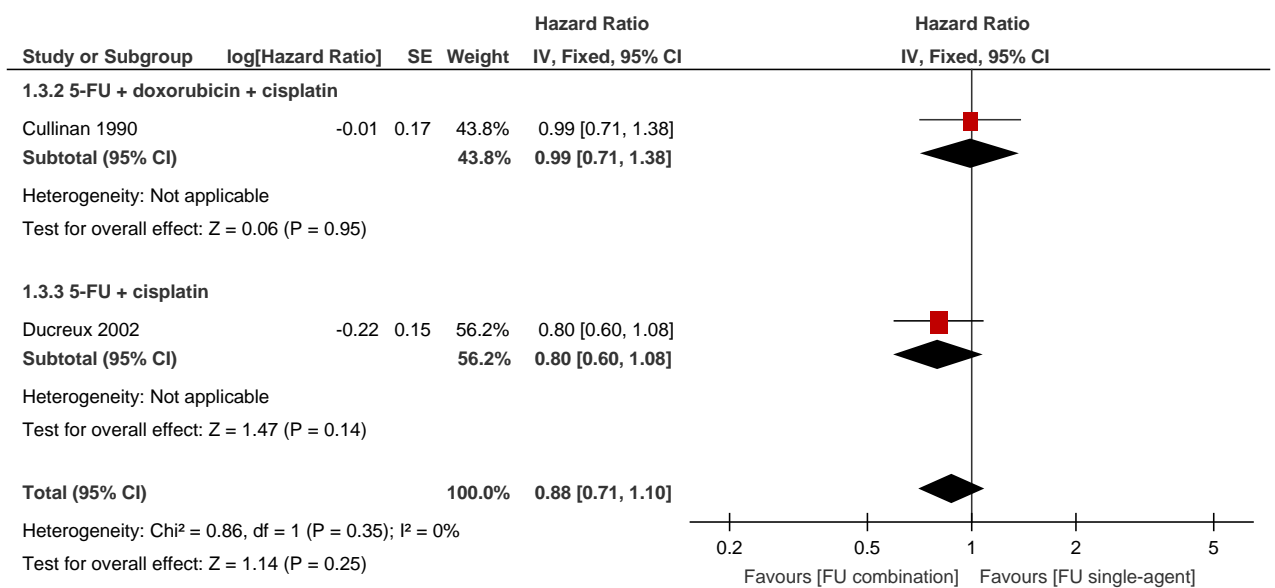
6

### 1 Figure 480: Progression-free survival



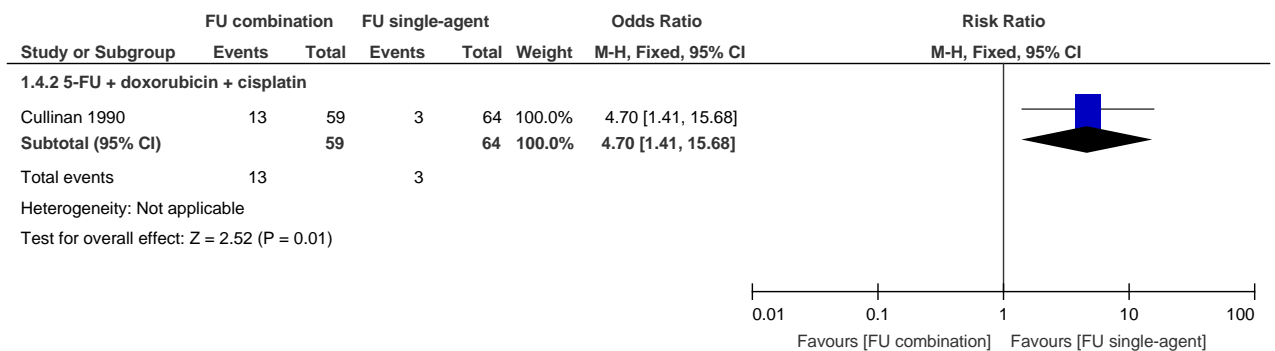
2

### 3 Figure 481: Overall survival



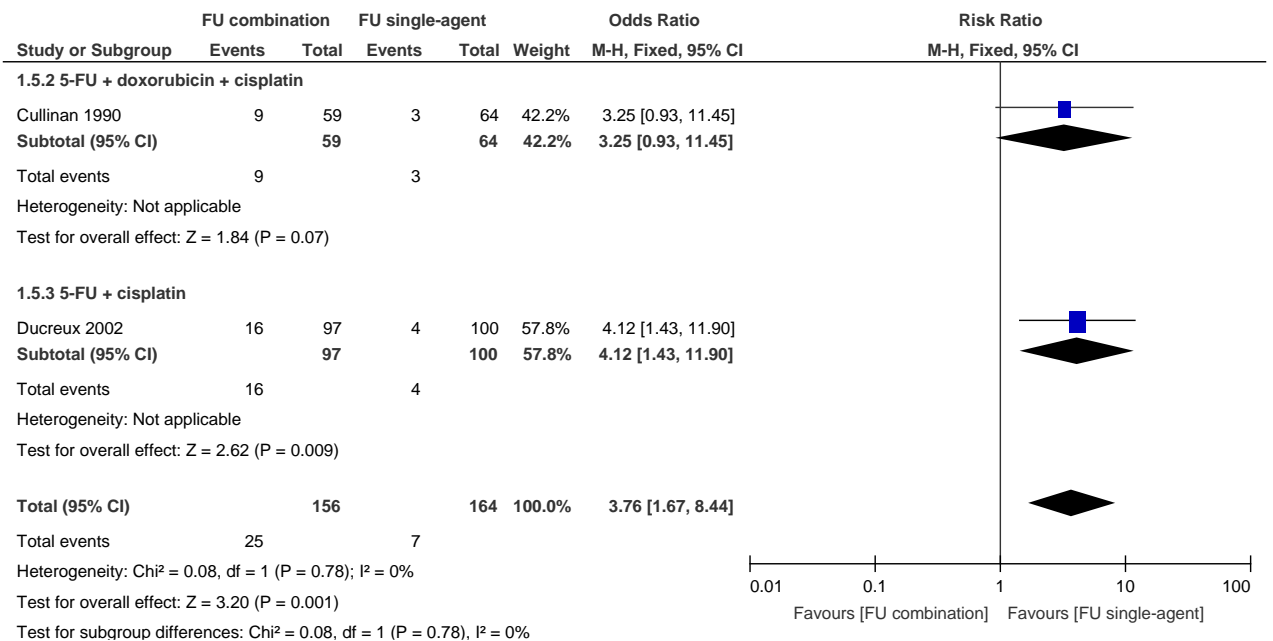
4 Test for subgroup differences: Chi<sup>2</sup> = 0.86, df = 1 (P = 0.35), I<sup>2</sup> = 0%

### 5 Figure 482: Grade 3/4 toxicities: Nausea



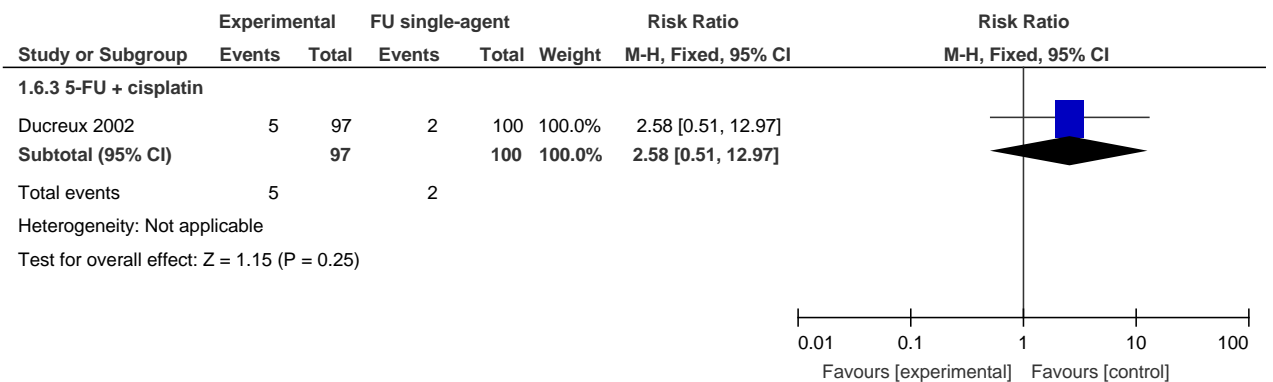
6

### 1 Figure 483: Grade 3/4 toxicities: Vomiting



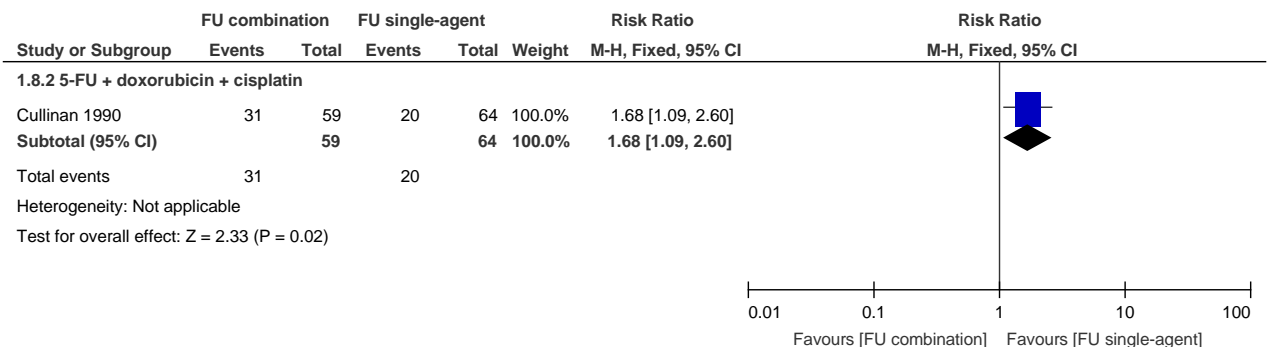
2

### 3 Figure 484: Grade 3/4 toxicities: Diarrhoea



4

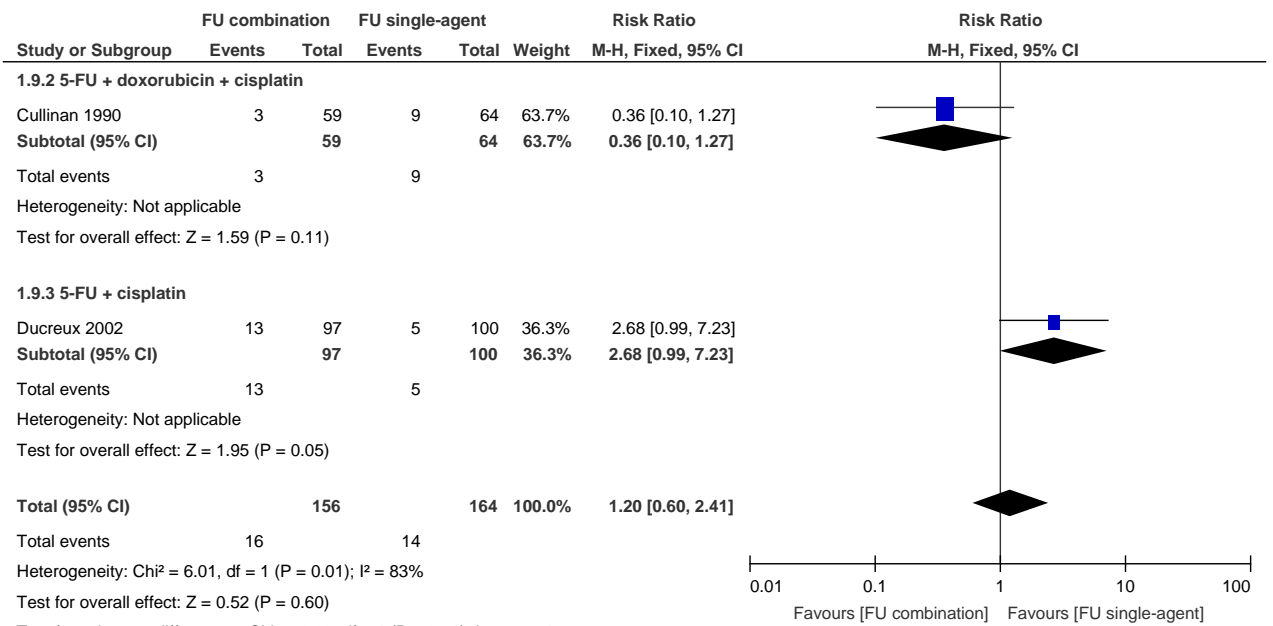
### 5 Figure 485: Grade 3/4 toxicities: Leucopenia



6



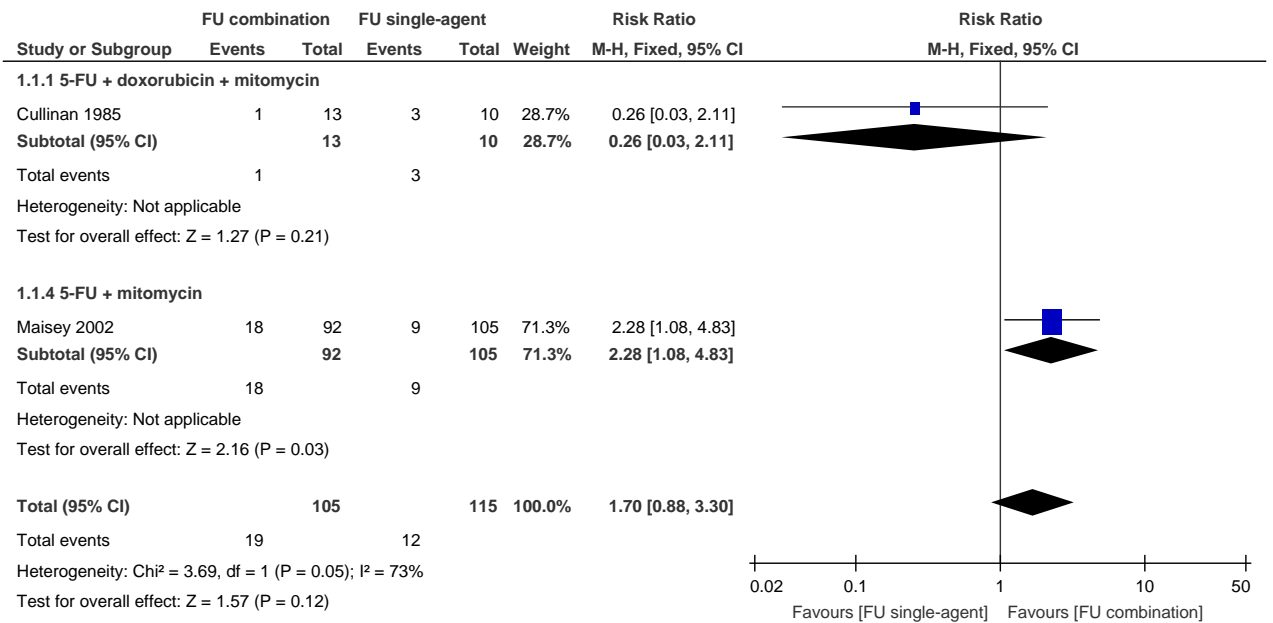
### 1 Figure 486: Grade 3/4 toxicities: Stomatitis



2 Test for subgroup differences: Chi<sup>2</sup> = 6.00, df = 1 (P = 0.01), I<sup>2</sup> = 83.3%

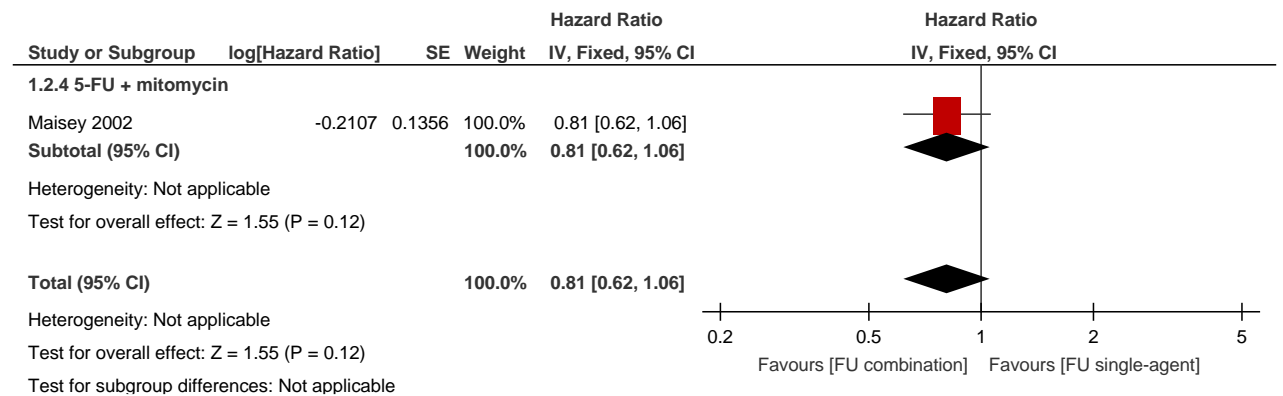
### H.17.5.23 In adults with locally advanced metastatic pancreatic cancer

### 4 Figure 487: Overall response rate (CR + PR)



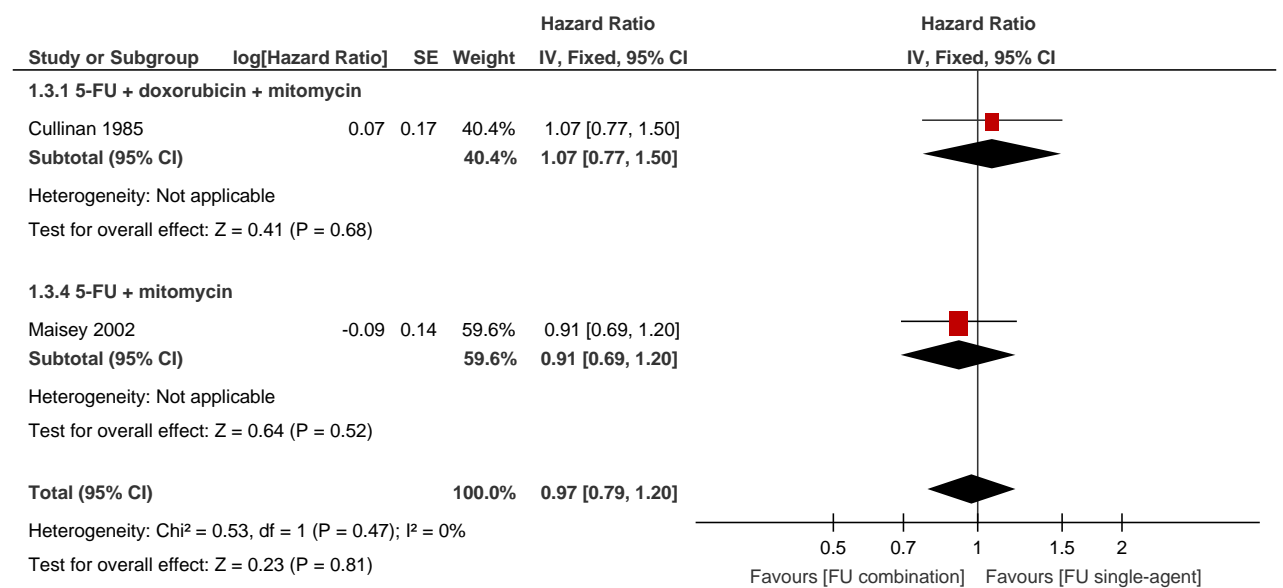
5 Test for subgroup differences: Chi<sup>2</sup> = 3.67, df = 1 (P = 0.06), I<sup>2</sup> = 72.7%

### 1 Figure 488: Progression-free survival



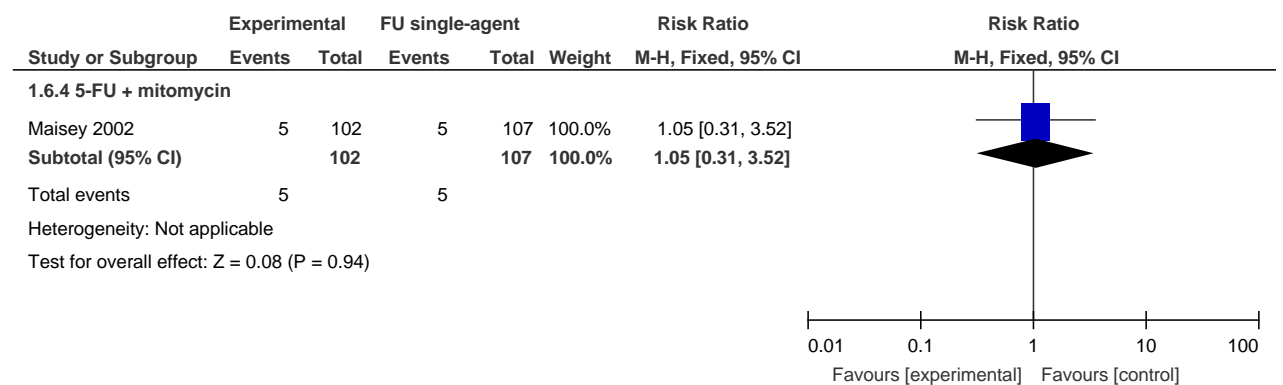
2 Test for subgroup differences: Not applicable

### 3 Figure 489: Overall Survival



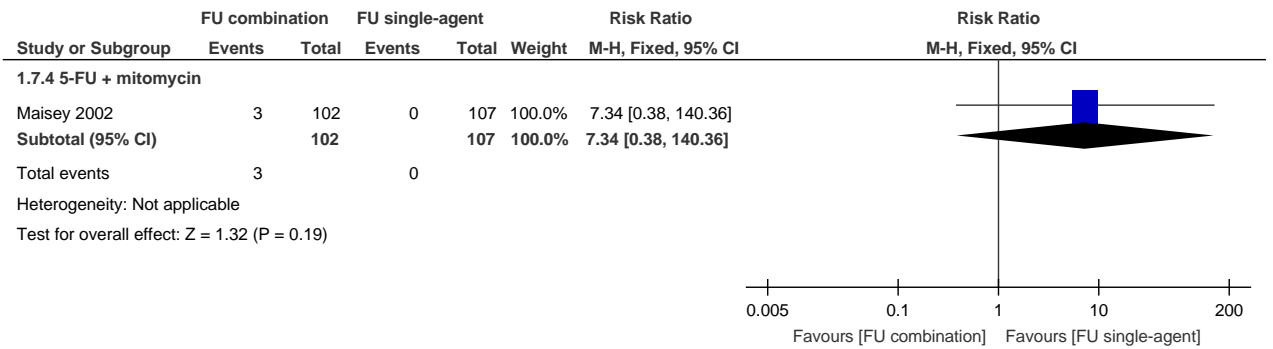
4 Test for subgroup differences: Chi<sup>2</sup> = 0.53, df = 1 (P = 0.47), I<sup>2</sup> = 0%

### 5 Figure 490: Grade 3/4 toxicities: Diarrhoea



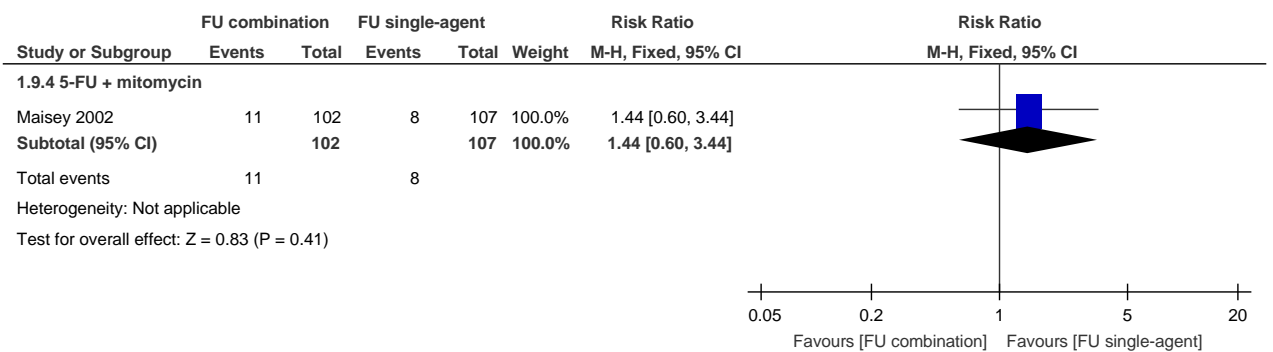
6

1 **Figure 491: Grade 3/4 toxicities: Neutropenia**



2

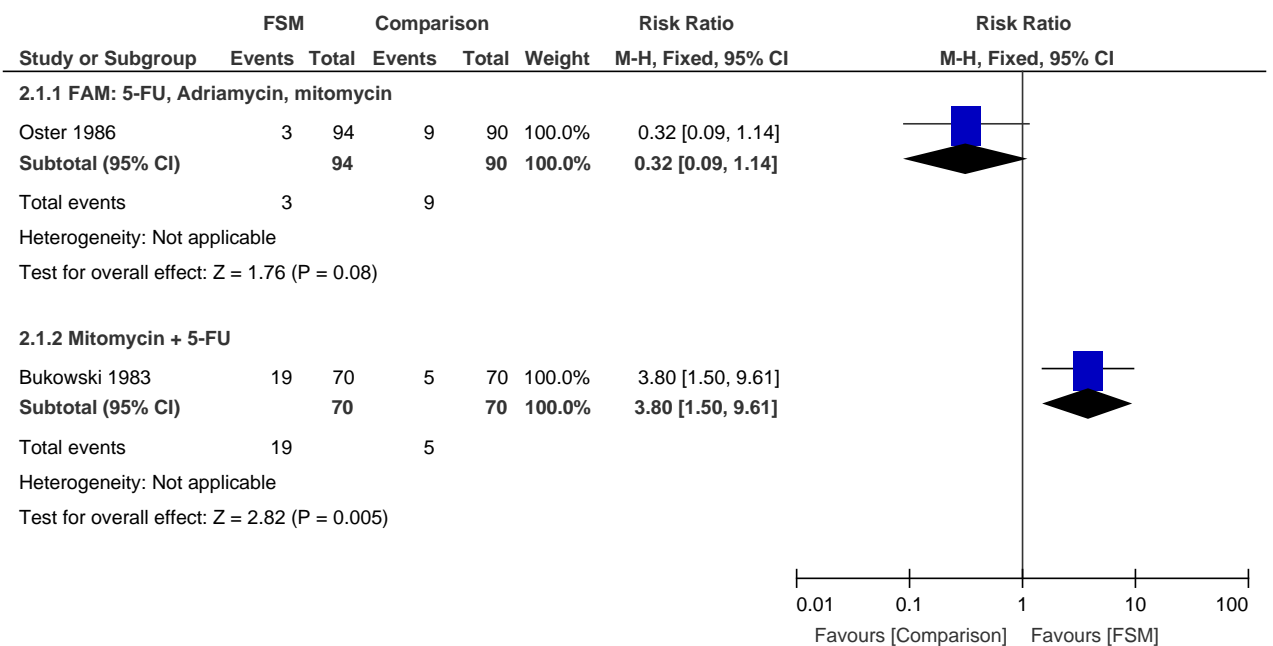
3 **Figure 492: Grade 3/4 toxicities: Stomatitis**



4

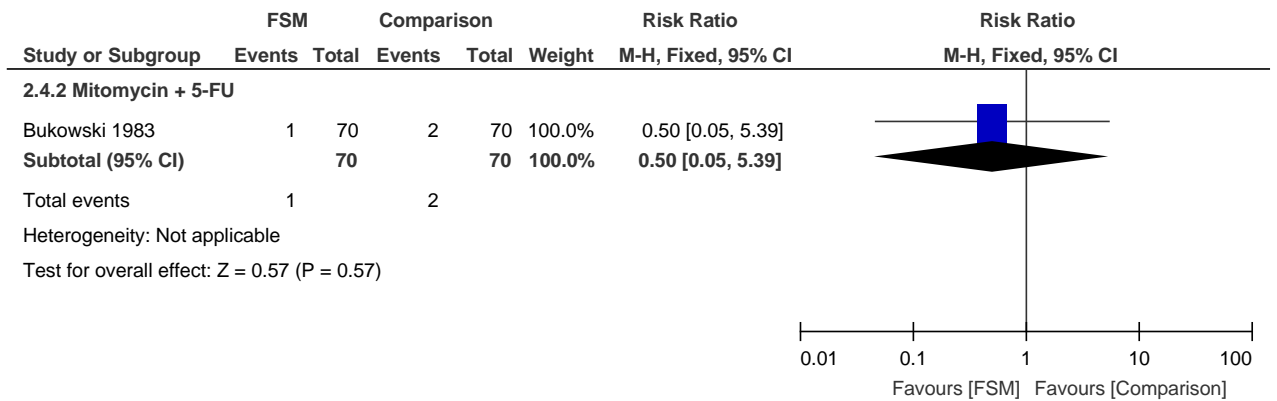
**H.17.65 Combination 5-FU (FSM) versus other chemotherapy regimens in adults with locally advanced or metastatic pancreatic cancer**

7 **Figure 493: Overall response rate (CR + PR)**



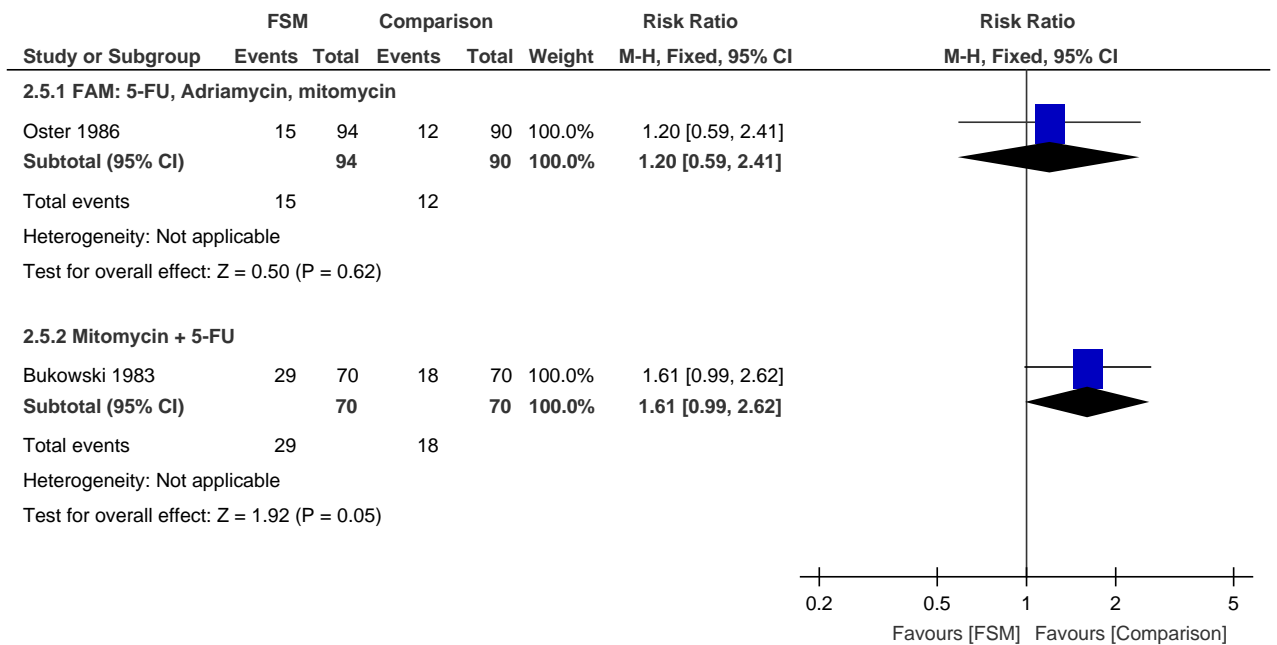
8

1 **Figure 494: Grade 3/4 toxicities: Diarrhoea**



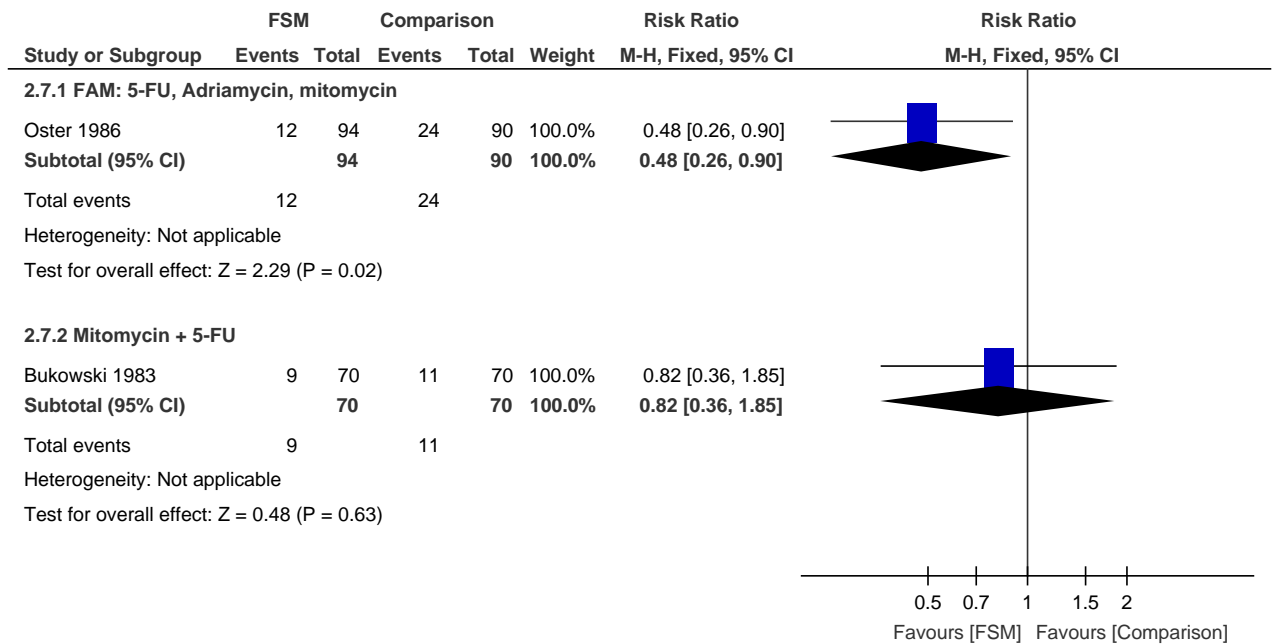
2

3 **Figure 495: Grade 3/4 toxicities: Nausea/vomiting**

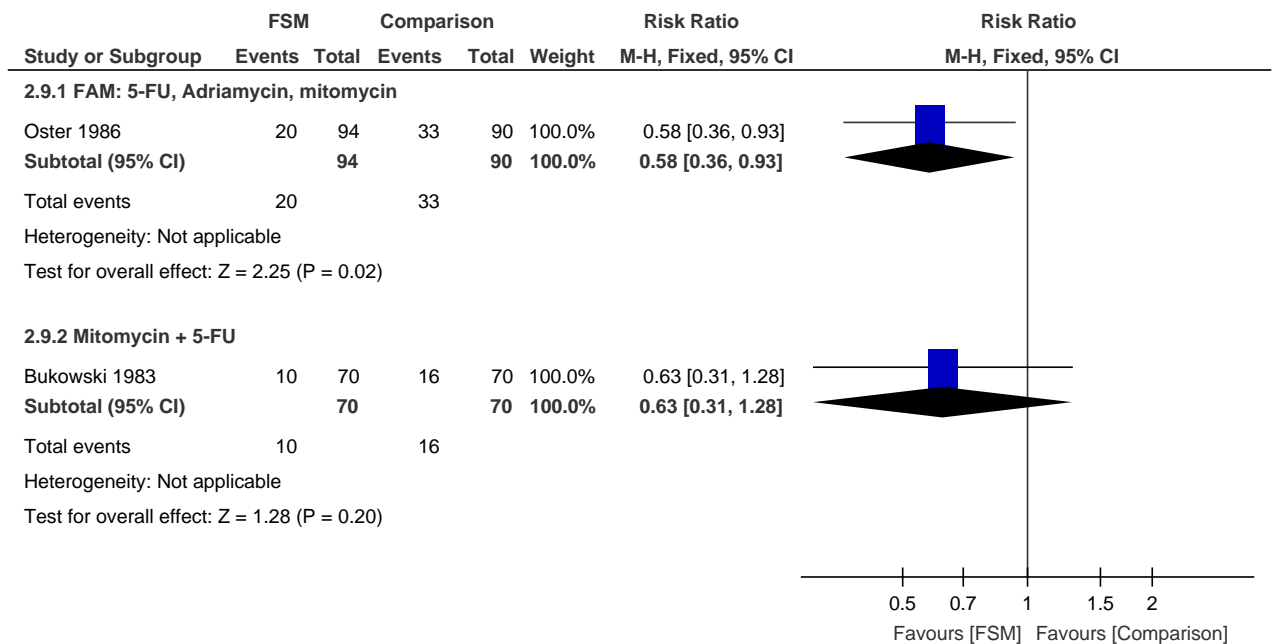


4

1 **Figure 496: Grade 3/4 toxicities: Leucopenia**

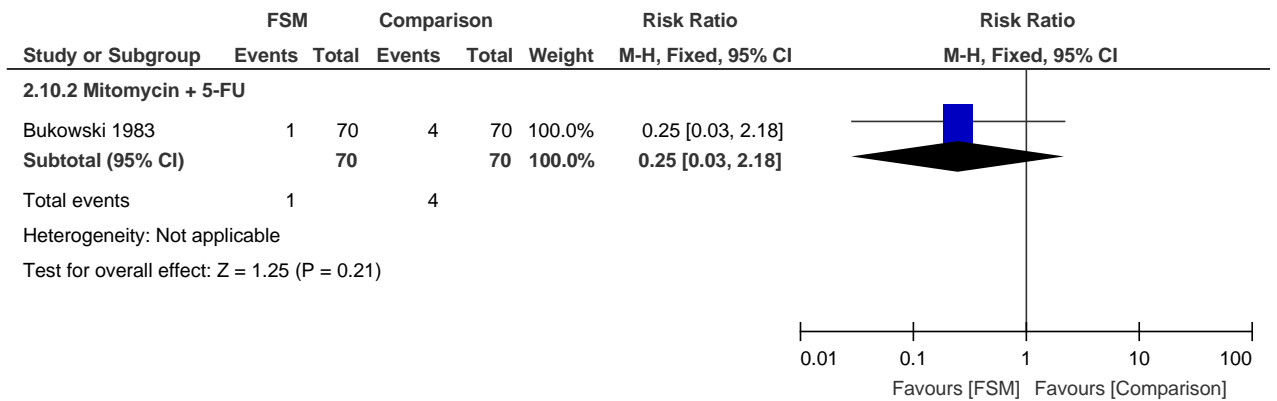


2  
3 **Figure 497: Grade 3/4 toxicities: Thrombocytopenia**



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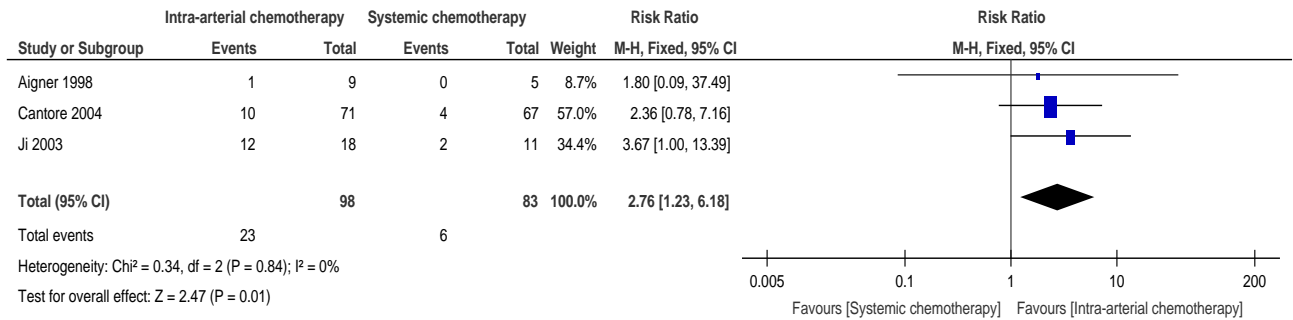
1 **Figure 498: Drug-related deaths**



2

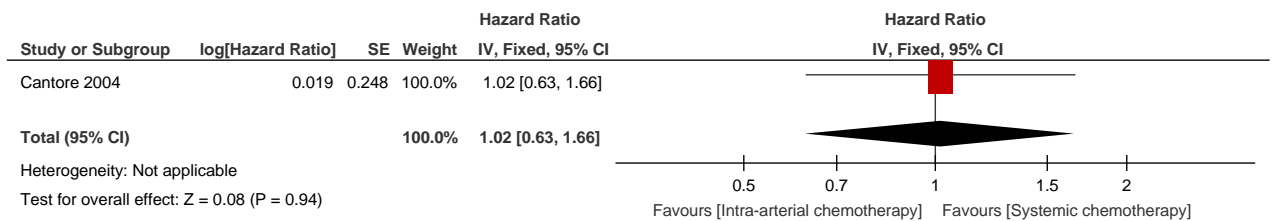
**H.17.73 Intra-arterial chemotherapy versus systemic chemotherapy in adults with locally advanced and metastatic pancreatic cancer**

5 **Figure 499: Overall response rate (CR + PR)**



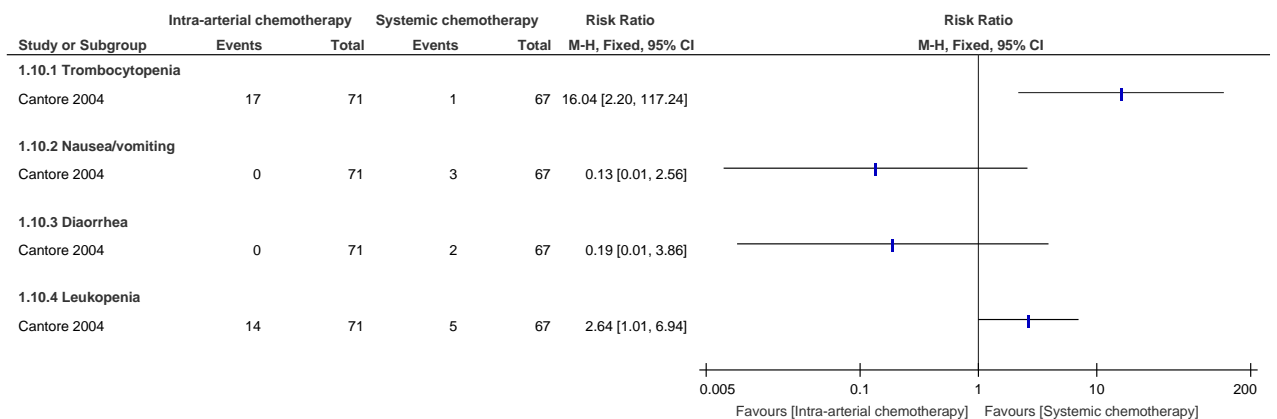
6

7 **Figure 500: Overall survival**



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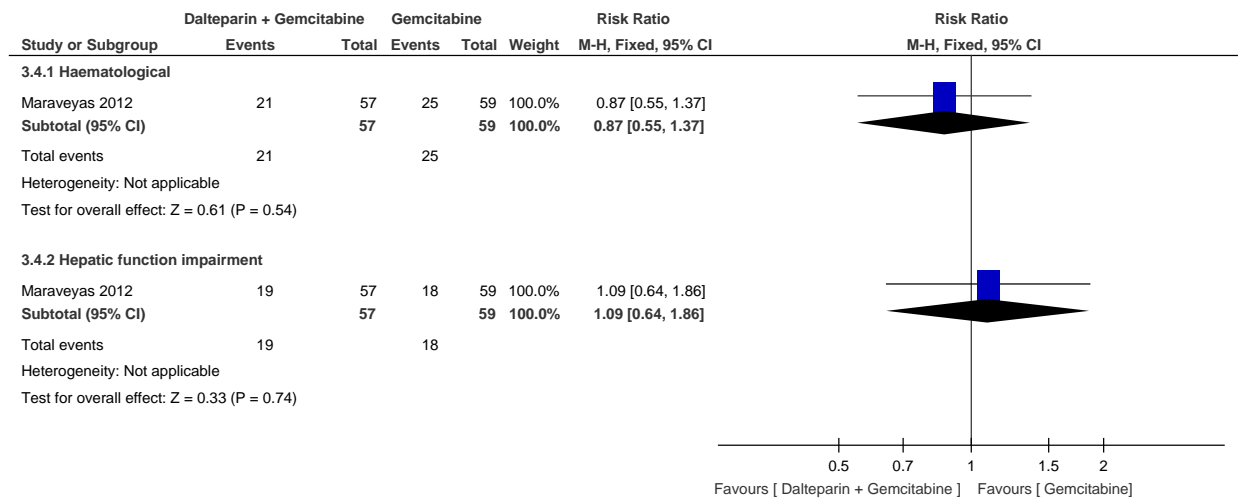
9 **Figure 501: Grade 3/4 toxicities**



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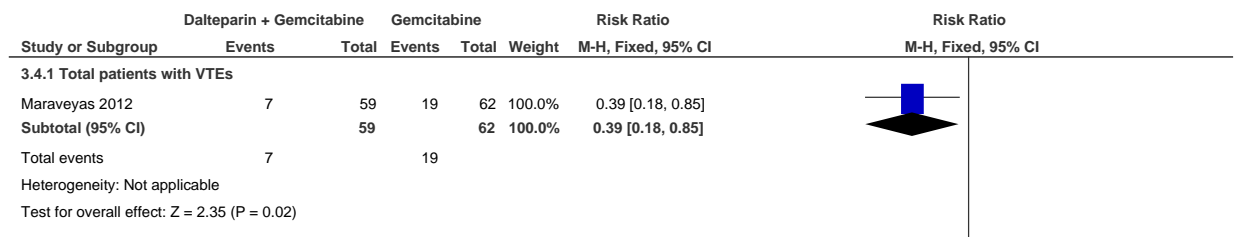
## H.17.81 Chemotherapy versus chemotherapy and prophylactic anticoagulant

### 2 Figure 502: Adverse effects: Grade 3/4 toxicities



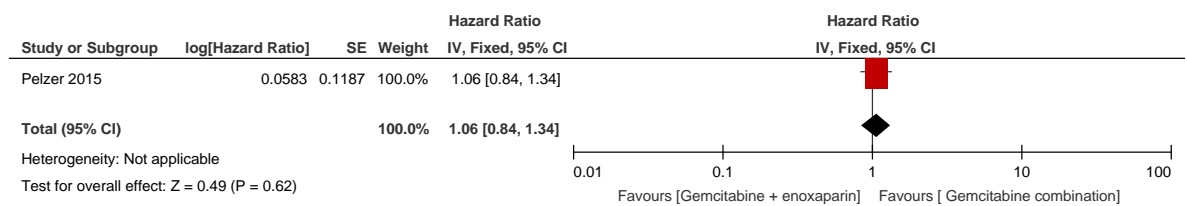
3

### 4 Figure 503: Adverse effects: vascular thromboembolism events (VTEs)



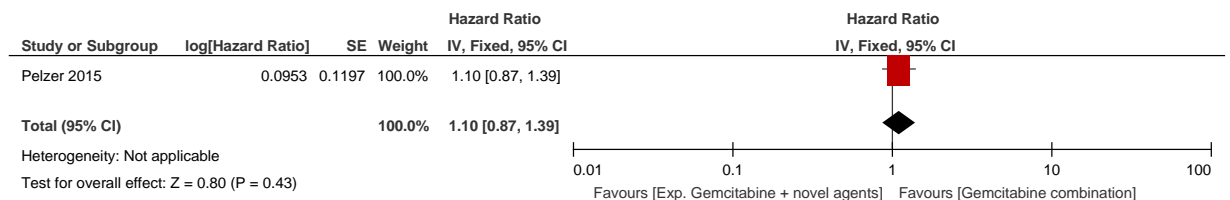
5

### 6 Figure 504: Combination gemcitabine vs gemcitabine + enoxaparin – Progression-free survival



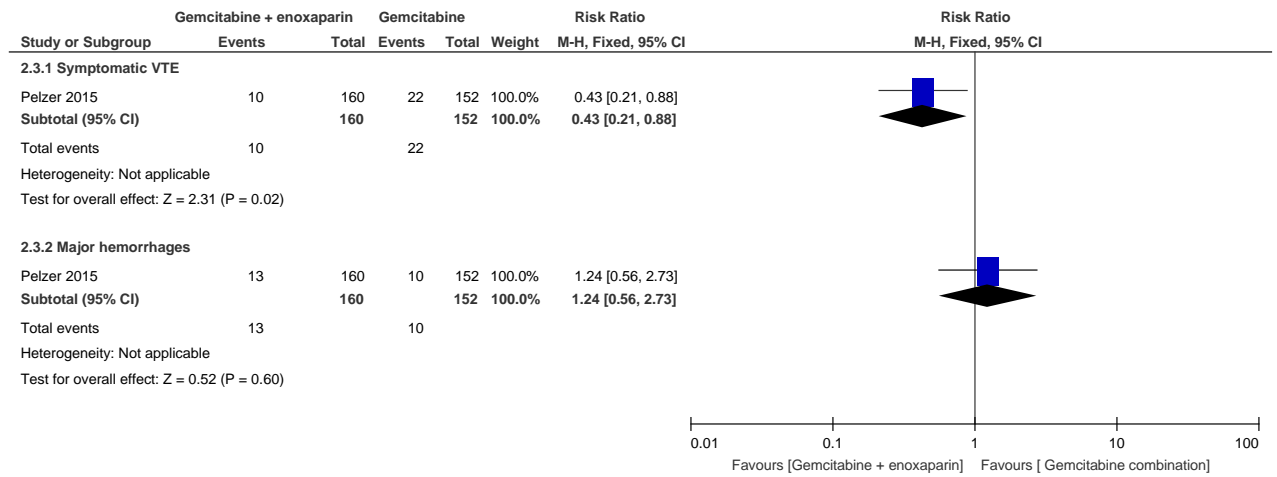
8

### 9 Figure 505: Combination gemcitabine vs gemcitabine + enoxaparin – Overall Survival



10

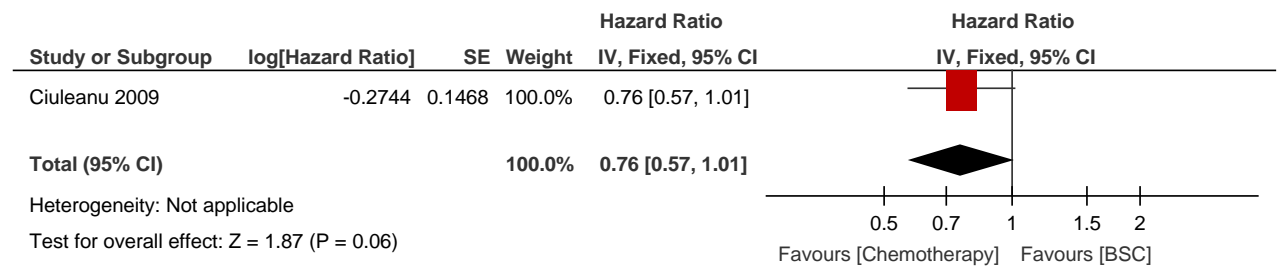
1 **Figure 506: Combination gemcitabine vs gemcitabine + enoxaparin – Adverse effects:**  
2 **vascular thromboembolism (VTE)**



3

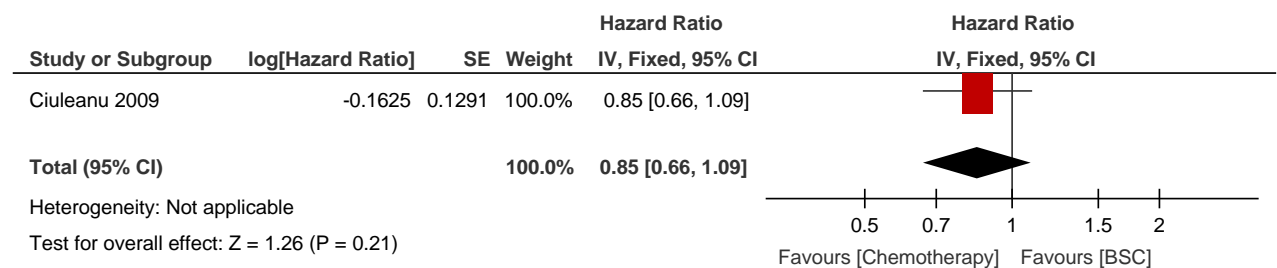
**H.17.94 Second-line chemotherapy versus best supportive care**

5 **Figure 507: Progression-free survival**



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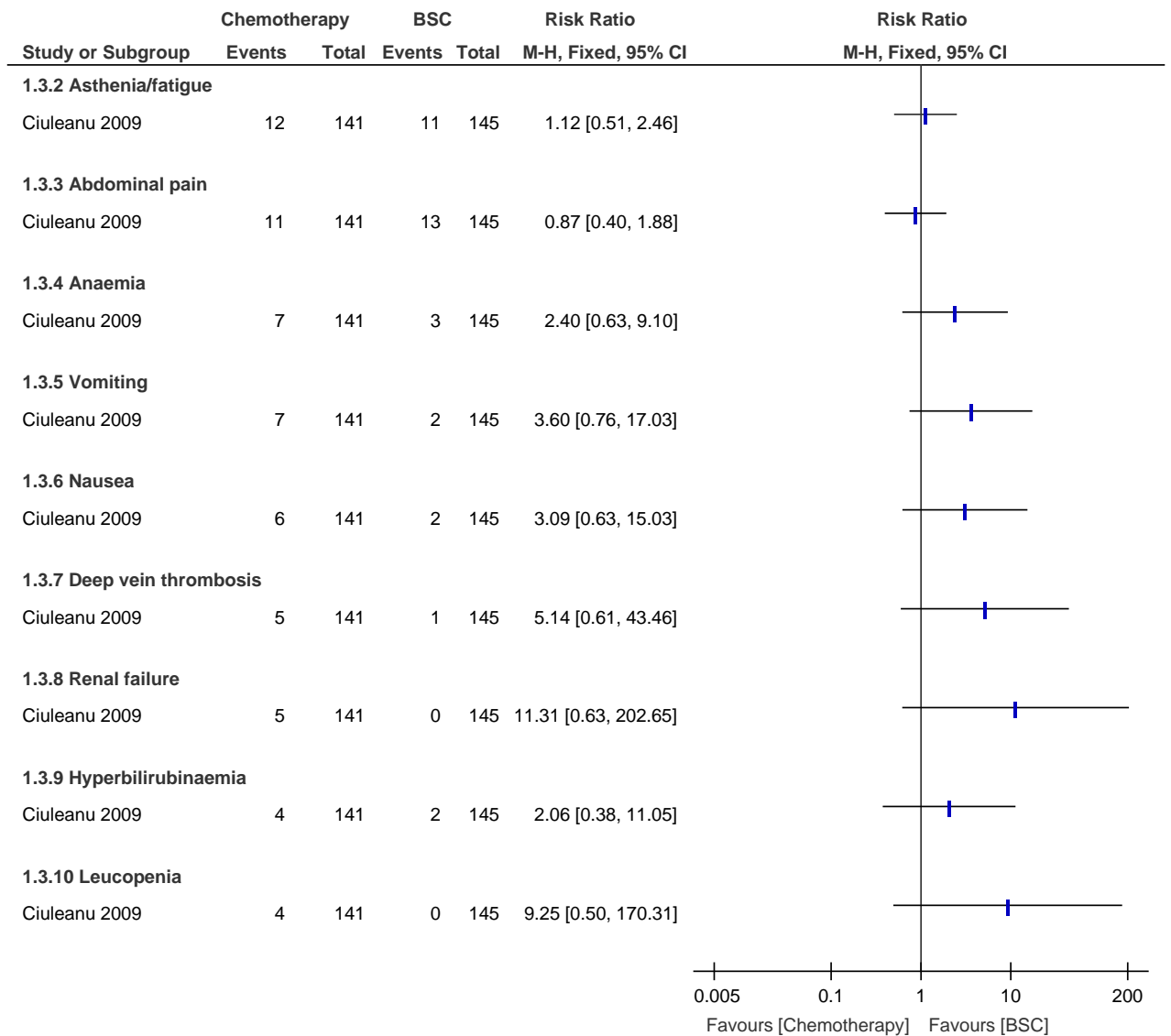
7 **Figure 508: Overall survival**



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9



1 **Figure 509: Grade 3/4/5 adverse effects**

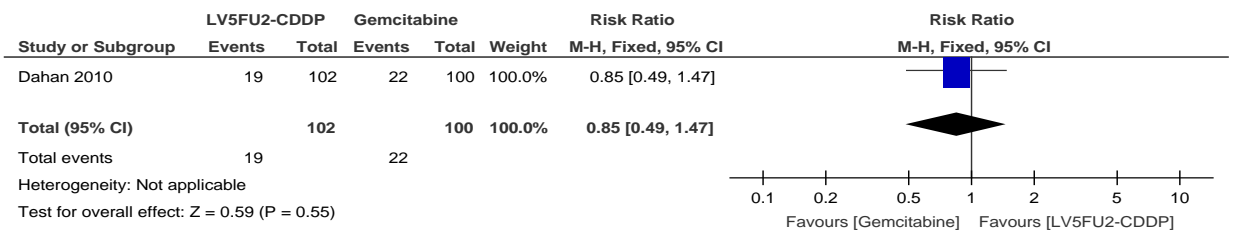


2

**H.17.103 Second-line chemotherapy versus other chemotherapy**

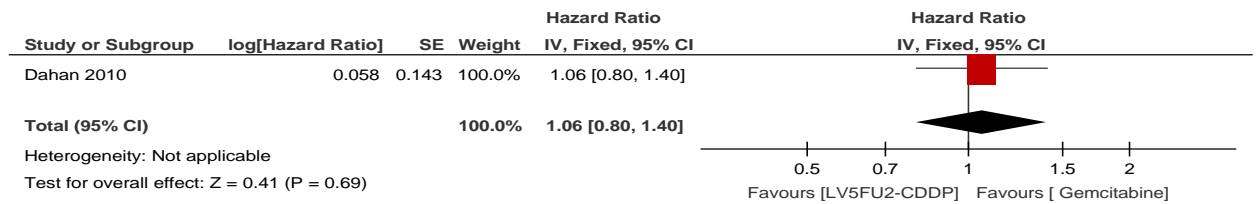
**H.17.10.14 LV5FU2-CDDP then Gemcitabine versus Gemcitabine then LV5FU2-CDDP in adults with metastatic pancreatic cancer**

6 **Figure 510:– Overall response rate (CR + PR)**



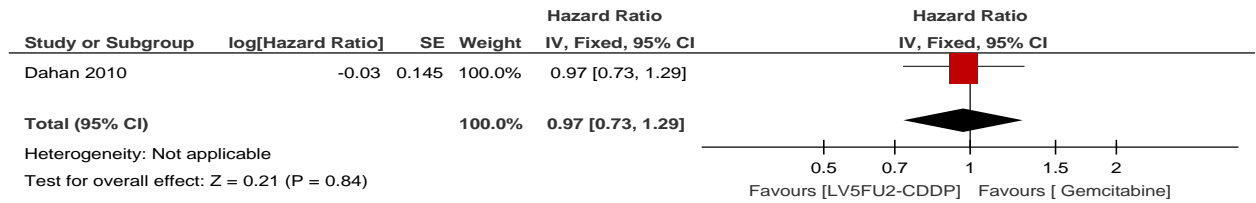
7

### 1 Figure 511: Progression Free Survival



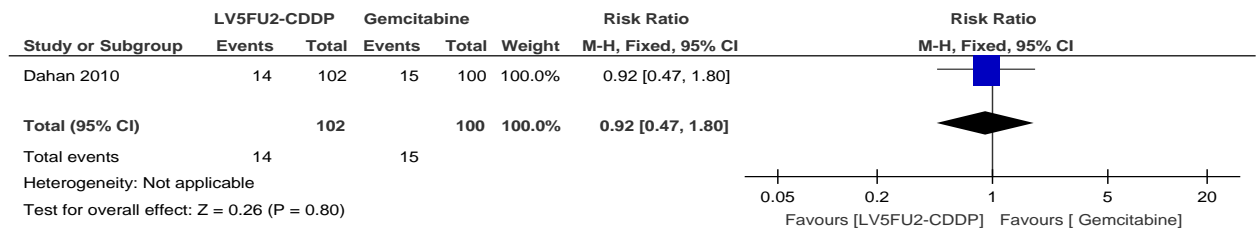
2

### 3 Figure 512: Overall Survival



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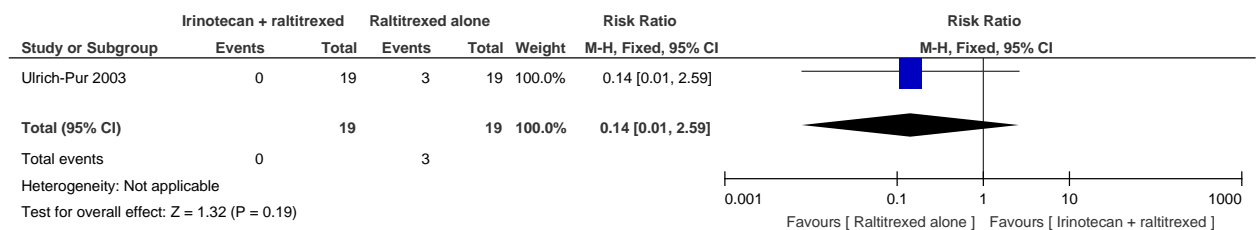
### 5 Figure 513: Grade 3/4 toxicities: Nausea/vomiting



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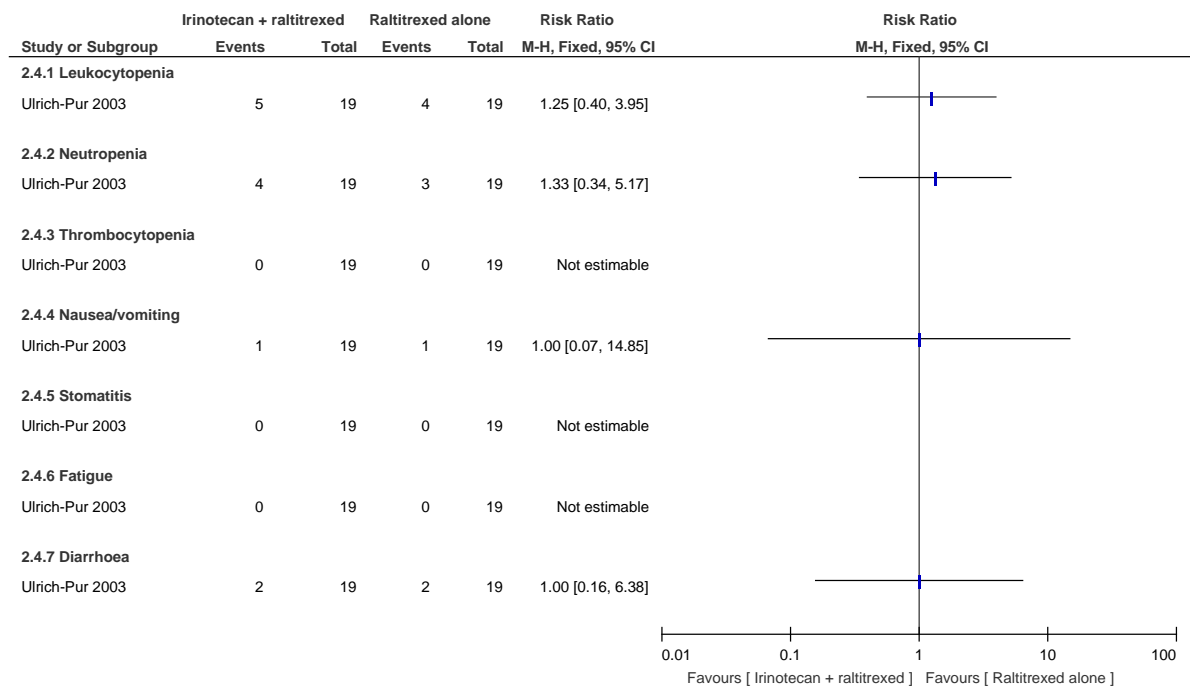
## H.17.10.27 Irinotecan + raltitrexed versus raltitrexed in adults with metastatic pancreatic cancer

### 8 Figure 514: Overall response rate (CR + PR)



9

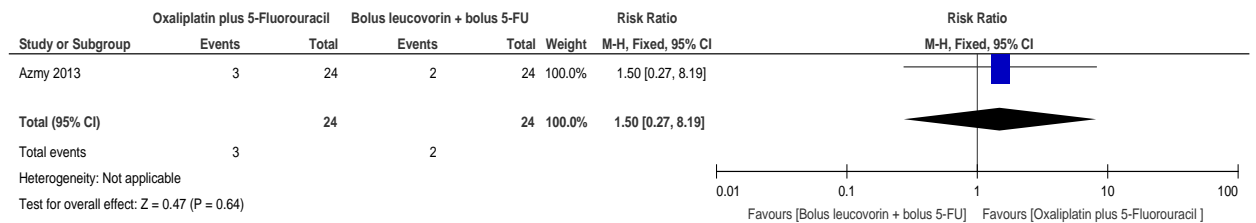
1 **Figure 515: Grade 3/4 toxicities**



2

H.17.10.33 **5-FU and Oxaliplatin versus bolus 5-FU and bolus FA in adults with locally advanced or metastatic pancreatic cancer**

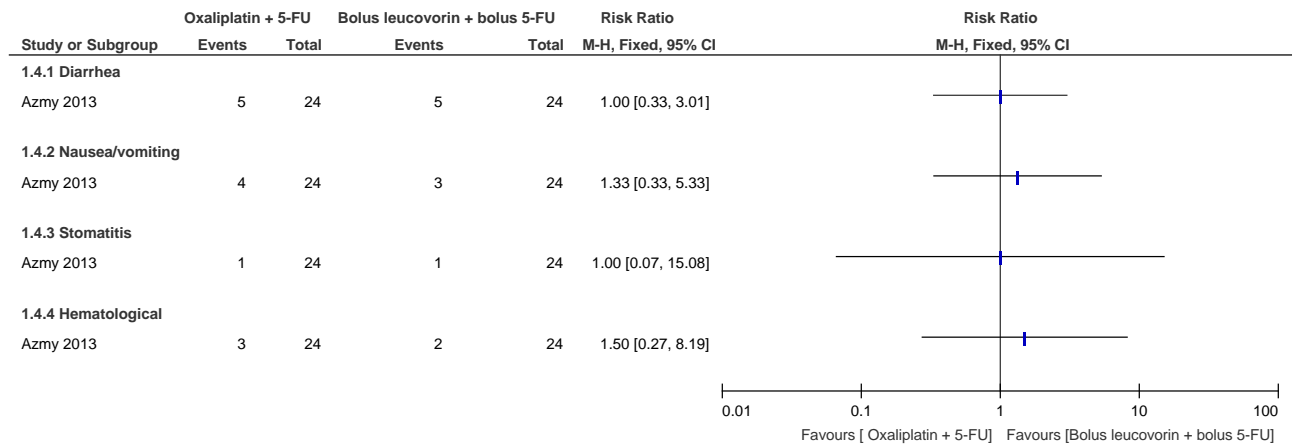
5 **Figure 516: Overall response rate (CR + PR)**



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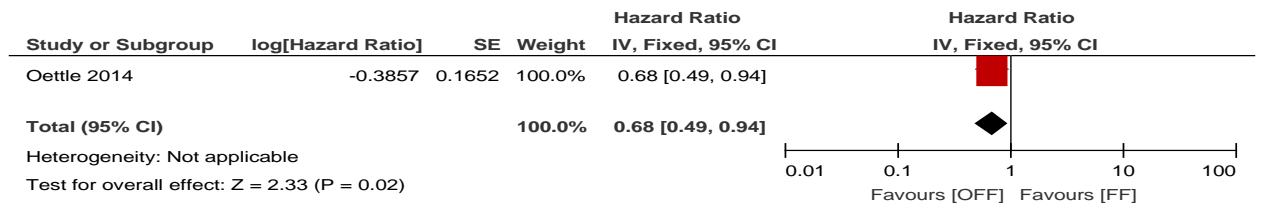
8 **Figure 517: Grade 3/4 toxicities**



9

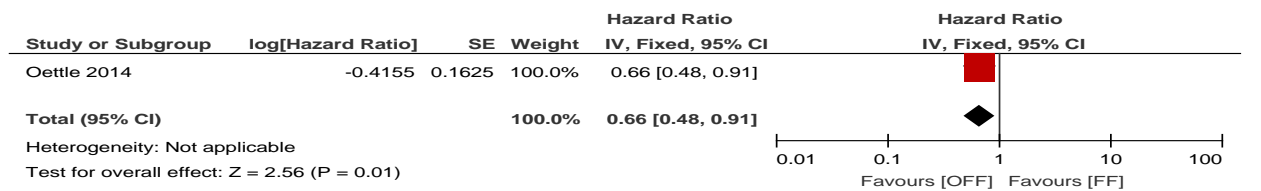
**H.17.10.41 Oxaliplatin + 5-FU versus FA + 5-FU in adults with locally advanced and metastatic pancreatic cancer**

**2 Figure 518: Progression-free survival**



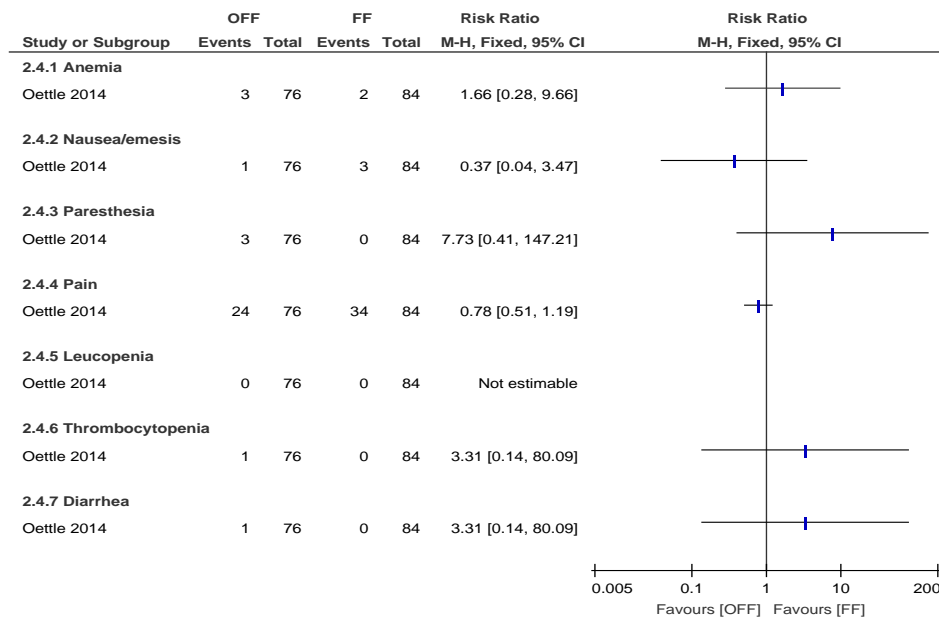
4  
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**6 Figure 519: Overall Survival**



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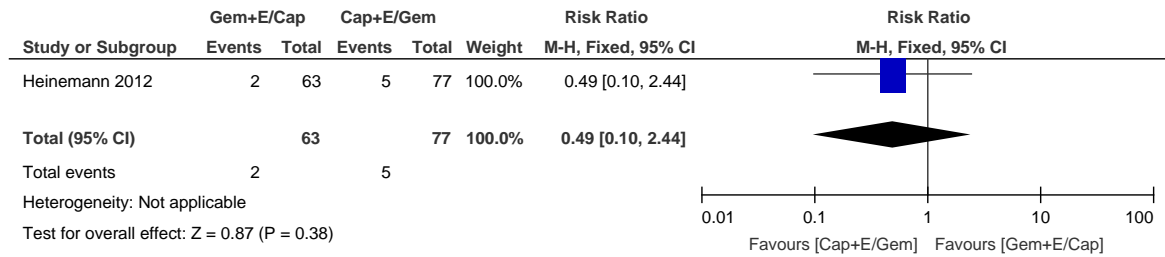
**8 Figure 520: Grade 3/4 toxicities**



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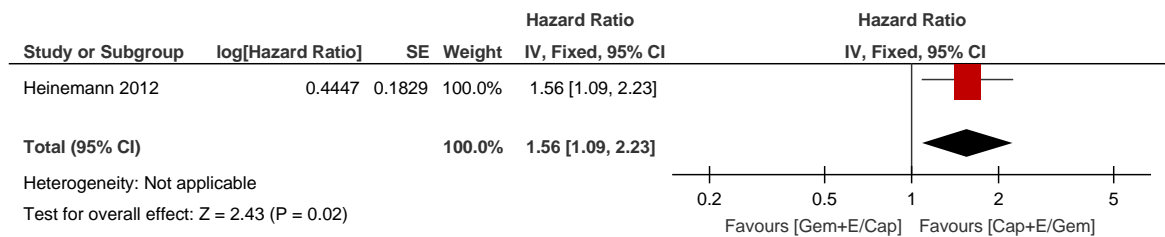
**H.17.10.51** Capecitabine + erlotinib then gemcitabine *versus* gemcitabine and erlotinib then capecitabine in adults with locally advanced or metastatic pancreatic cancer

**3 Figure 521: Overall response rate (CR + PR)**



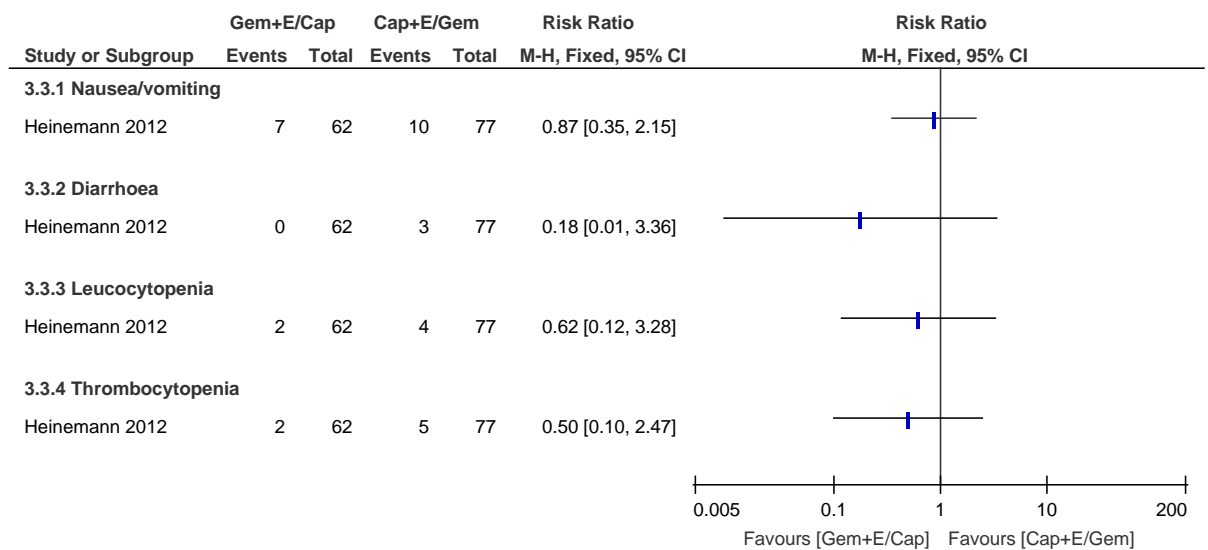
4

**5 Figure 522: Overall survival**



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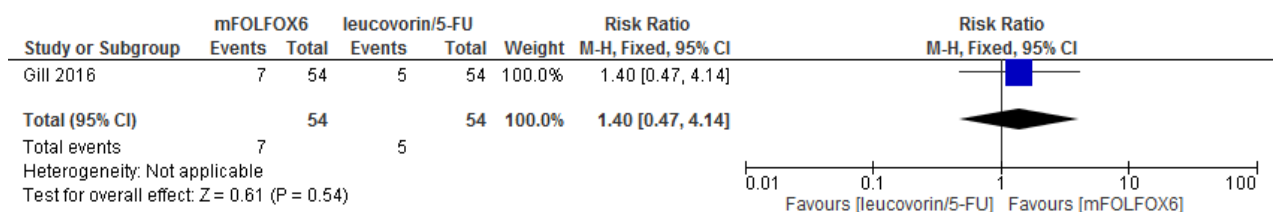
**7 Figure 523: Grade 3/4 toxicities**



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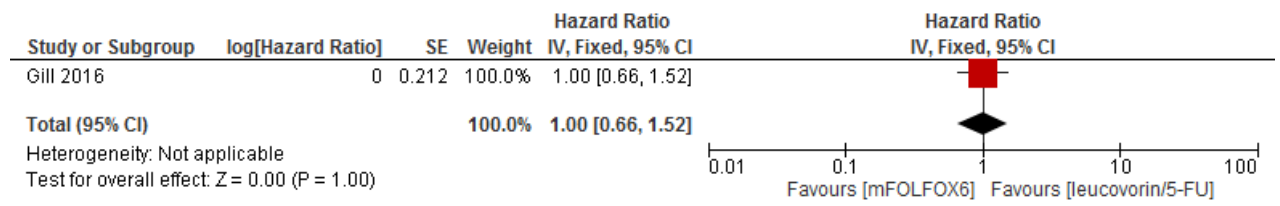
**H.17.10.69** Modified FOLFOX6 (infusion) vs infusional 5-FU and FA in adults with locally advanced or metastatic pancreatic cancer

**11 Figure 524: Overall response rate (CR + PR)**



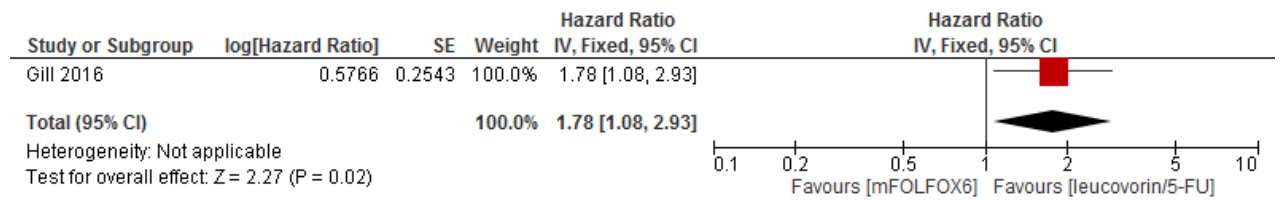
12

1 **Figure 525: Progression-free survival**



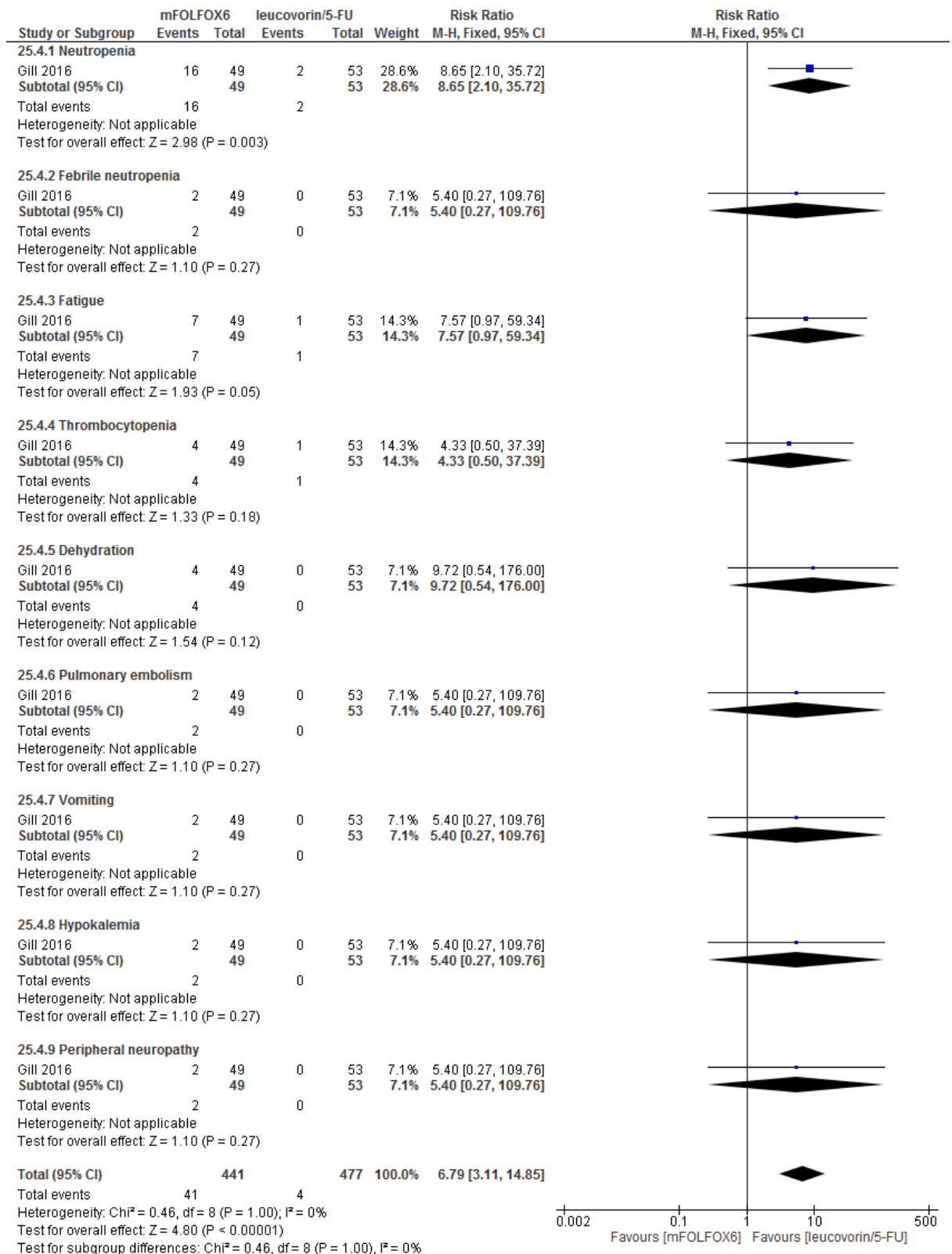
2

3 **Figure 526: Overall survival**



4

1 **Figure 527: Grade 3/4 toxicities**



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