National Institute for Health and Care Excellence

Final

Pancreatic cancer in adults:

diagnosis and management

Appendix H
Forest Plots and Summary ROC Curves
February 2018

Final

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

Disclaimer

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Contents

Appendix H: Forest plots and Summary ROC curves	8
H.1 People with jaundice	8
H.2 People without jaundice but with a pancreatic abnormality	10
H.3 Pancreatic Cysts	14
H.4 People with inherited high risk of pancreatic cancer	28
H.5 Referral to specialist multidisciplinary teams	28
H.6 Staging	28
H.7 Psychological support needs	35
H.8 Pain	36
H.8.1 NCPB versus medical management alone	36
H.8.2 Early NCPB versus late NCPB	43
H.8.3 NCPB plus medical management versus thoracic splanchnicectomy plus medical management	45
H.8.4 Thoracic splanchnicectomy + medical management versus medical management alone	45
H.8.5 EUS- guided NCPB: 1 injection versus EUS- guided NCPB: 2 injections	46
H.8.6 NCPB versus splanchnic nerve blocks	46
H.9 Nutritional Interventions	47
H.9.1 Standard Enteral nutrition versus enteral immunonutrition before and after surgery	
H.9.2 Standard Enteral nutrition (versus enteral immunonutrition after surgery	
H.9.3 Enteral immunonutrition versus Standard nutrition (no intervention)	49
H.9.4 Parenteral nutrition versus standard enteral nutrition after surge	ry . 50
H.9.5 Parenteral nutrition versus enteral immunonutrition after surgery	/ 51
H.9.6 Parenteral nutrition versus no intervention after surgery	52
H.9.7 Oral nutritional supplements (n-3 fatty acids) versus isocaloricisonitrogenous supplement (without n-3 fatty acids)	53
H.9.8 Oral nutritional supplements (oral L-Carnitine therapy) versus placebo	54
H.9.9 Pancreatic enzyme replacement therapy (PERT) versus placebo	o 55
H.9.10 PERT versus pancrelipase replacement therapy	57
H.10	Biliary
obstruction	57
H.10.1 Plastic stent versus self-expanding metal stent in adults with pancreatic cancer	57
H.10.2 Covered self-expanding metal stent versus uncovered self-expanding metal stent	64
H.10.3 Partially covered self-expanding metal stent versus uncovere	d 66

H.10.4 Paclitaxel-eluting self-expanding metal stent versus covered SEMS in adults with unresectable distal malignant biliary obstruction	37
H.10.5 Preoperative endoscopic biliary drainage then surgery versus surgery in adults with suspected pancreatic cancer	38
H.10.6 Endoscopic sphincterotomy then stent versus stent in adults with unresectable pancreatic cancer	71
H.10.7 Endoscopic sphincterotomy then stent versus surgical bypass in adults with unresectable pancreatic cancer	74
H.10.8 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	76
H.10.9 Endoscopic ultrasound-guided choledochoduodenostomy and stent versus surgical bypass in adults with an unresectable malignant biliary obstruction where ERCP has failed	78
H.11	
obstruction 8	
H.11.1 Prophylactic GJJ and hepaticojejunostomy versus hepaticojejunostomy only	33
H.11.2 GJJ versus duodenal stent placement	35
H.11.3 Type I GJJ (proximal to the Jejunal limb: Ligament of Treitz) versus Type II GJJ (Pylorus)	37
H.11.4 Type I GJJ (proximal to the Jejunal limb: Ligament of Treitz) versus Type III GJJ (proximal to Roux-limb Jejunum)	38
H.11.5 Type II GJJ (Pylorus) versus Type III GJJ (proximal to Roux- limb Jejunum)	39
H.11.6 Duodenal stent-1 versus duodenal stent-2	
treatment	
H.12.1 Neoadujvant chemoradiotherapy followed by surgery versus surgery alone in adults with resectable pancreatic cancer	91
H.12.2 Neoadjuvant chemotherapy then neoadjuvant chemoradiotherapy followed by surgery then adjuvant chemotherapy versus neoadjuvant chemotherapy followed by surgery then adjuvant chemotherapy in adults with resectable or borderline resectable pancreatic cancer	92
H.13Resectable and borderline resectable pancreat	
H.13.1 Minimally invasive (laparoscopic and robotic) pancreaticoduodenectomy versus open pancreaticoduodenectomy	
H.13.2 Pylorus preserving Whipple versus classic Whipple)2
H.13.3 Minimally invasive laparoscopic distal pancreatectomy versus open pancreatectomy)5
H.13.4 Minimally invasive robotic pancreatectomy versus open pancreatectomy)8

H.13		Extended lymphadenectomy versus standard ymphadenectomy	110
⊔ 12	•	Arterial resection versus no arterial resection	
		Venous resection versus no venous resection	
		Adju	
		Auju	
H.14		Adjuvant chemotherapy versus no adjuvant therapy in esected pancreatic cancer patients	116
H.14		Adjuvant chemotherapy-1 (gemcitabine) versus adjuvant chemotherapy-2 (other) in resected pancreatic cancer patients	122
H.14		Adjuvant chemotherapy versus adjuvant chemoradiotherapy in esected pancreatic cancer patients	133
H.14		Adjuvant chemotherapy versus adjuvant chemoimmunotherapy in resected pancreatic cancer patients	137
H.14	С	Adjuvant chemotherapy versus adjuvant chemoradioimmunotherapy in resected pancreatic cancer patients	138
H.14		Adjuvant chemoradiotherapy followed by chemotherapy versus no adjuvant therapy in resected pancreatic cancer patients	139
H.14		Adjuvant chemoradiotherapy followed by chemotherapy versus chemotherapy in resected pancreatic cancer patients	140
H.14		Adjuvant chemoradiotherapy followed by chemotherapy versus chemoradiotherapy in resected pancreatic cancer patients	142
H.14	С	Adjuvant chemotherapy-1 (gemcitabine) followed by chemoradiotherapy versus chemotherapy-2 (other) followed by chemoradiotherapy in resected pancreatic cancer patients	143
H.14		Adjuvant immunotherapy versus no adjuvant therapy in esected pancreatic cancer patients	145
H.14		1 Adjuvant chemoimmunotherapy versus no adjuvant therapy in esected pancreatic cancer patients	
		Follow-up for people with resected pancre	
		Management of locally advanced pancre	
H.16	.1	Different chemoradiotherapy regimens	148
H.16		Different chemoradiotherapy regimens after induction chemotherapy	150
H.16	.3	Chemoradiotherapy versus best supportive care	151
H.16		Chemoradiotherapy followed by chemotherapy versus chemoradiotherapy alone	151
H.16	.5	Chemoradiotherapy + R115777 versus chemoradiotherapy	152
H.16	.6	Chemoradiotherapy + TNFerade versus chemoradiotherapy	152
H.16	.7	Chemoradiotherapy versus chemotherapy	153
H.16		Chemoradiotherapy versus chemotherapy after induction chemotherapy	154
H.16		Chemoradiotherapy versus radiotherapy	

H.16.10 Different chemotherapy regimens15
H.16.11 GEM-CT + upmostat versus GEM-CT156
H.16.12 Radiotherapy + PR-350 versus Radiotherapy + Placebo 156
H.17 Management of metastatic pancreatic cancer
H.17.1 Chemotherapy versus chemoimmunotherapy in adults with locally advanced or metastatic pancreatic cancer
H.17.2 Gemcitabine versus other chemotherapy
H.17.3 Gemcitabine versus novel agents in adults with locally advanced or metastatic pancreatic cancer
H.17.4 Standard-dose gemcitabine versus low-dose gemcitabine in adults with locally advanced or metastatic pancreatic cancer 182
H.17.5 5-FU versus combination 5-FU
H.17.6 Combination 5-FU (FSM) versus other chemotherapy regimens in adults with locally advanced or metastatic pancreatic cancer
H.17.7 Intra-arterial chemotherapy versus systemic chemotherapy in adults with locally advanced and metastatic pancreatic cancer 19
H.17.8 Chemotherapy versus chemotherapy and prophylactic anticoagulant192
H.17.9 Second-line chemotherapy versus best supportive care 193
H.17.10 Second-line chemotherapy versus other chemotherapy 194

Appendix H: Forest plots and Summary 2 ROC curves

H.13 People with jaundice

4

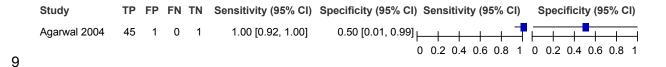
5 Figure 1: Forest plot of CT

6

7

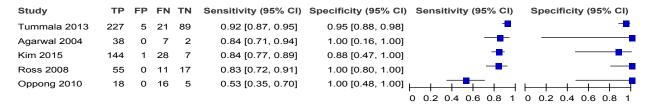
Study	TP	FP	FN	TN	Type of CT	Sensitivity (95% CI)	Specificity (95% CI)	Sensitivity (95% CI)	Specificity (95% CI)
Agarwal 2004	30	0	15	2	Spiral	0.67 [0.51, 0.80]	1.00 [0.16, 1.00]	-	
Ghaneh 2017	82	24	9	33	MDCT	0.90 [0.82, 0.95]	0.58 [0.44, 0.71]	0 02 04 06 08 1	0 0.2 0.4 0.6 0.8 1

8 Figure 2: Forest plot of EUS

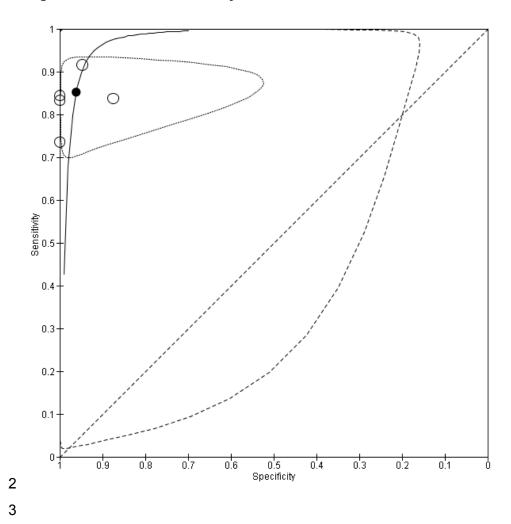


10 Figure 3: Forest plots for EUS-FNA

11



1 Figure 4: EUS-FNA - Summary ROC curve



4 Figure 5: Forest plot of ERCP + BB.

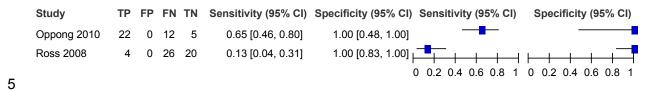


Figure 6: Forest plot of PET/CT



H.21 People without jaundice but with a pancreatic abnormality

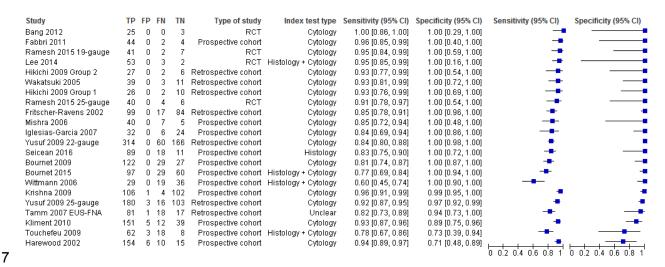
2 Figure 7: Forest plot of computer tomography

	Study	TP	FP	FN	TN	Type of observational study	Index test type	Sensitivity (95% CI)	Specificity (95% CI)	Sensitivity (95% CI)	Specificity (95% CI)
3	Tamm 2007 CT	96	5	3	13	Retrospective cohort	Not applicable	0.97 [0.91, 0.99]	0.72 [0.47, 0.90]	0 0.2 0.4 0.6 0.8 1	0 0.2 0.4 0.6 0.8 1

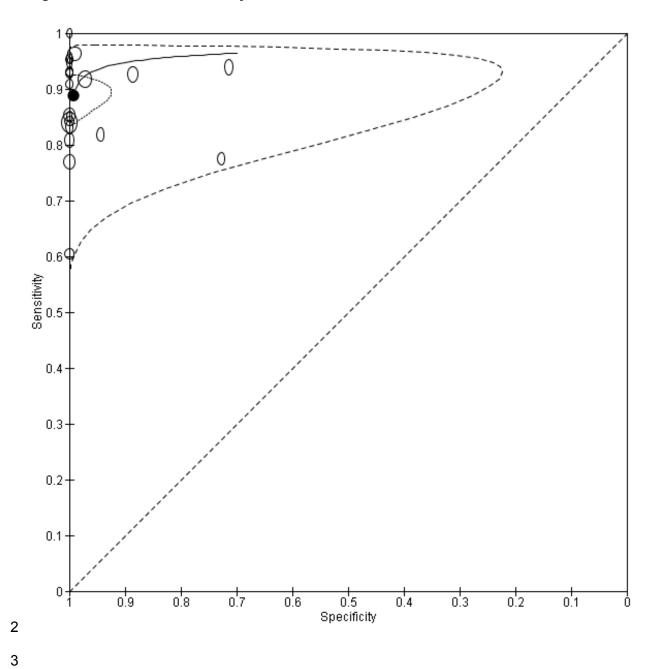
4 Figure 8: Forest plot of EUS

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]	0 0.2 0.4 0.6 0.8 1	0 0.2 0.4 0.6 0.8 1

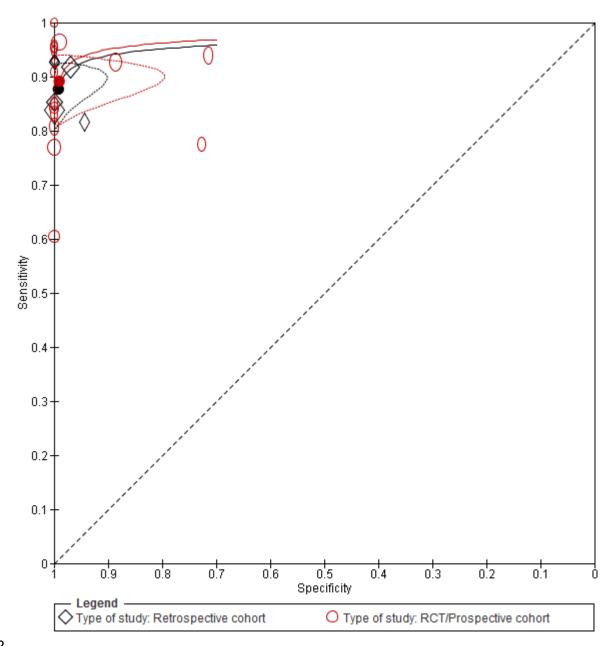
6 Figure 9: Forest plot of EUS-FNA



1 Figure 10: EUS-FNA - Summary ROC curve

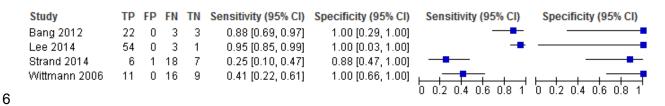


1 Figure 11: EUS-FNA - Summary ROC curve (subgroup analysis by type of study)

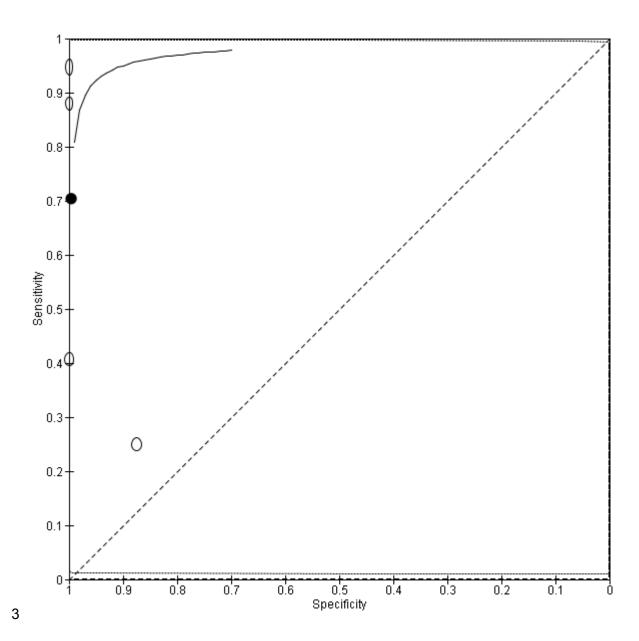


2 3 Note: Red and black dotted line represent the 95% confidence region for, respectively, the RCT/prospective cohort and retrospective cohort study groups.

5 Figure 12: Forest plot of EUS-Core



2 Figure 13: EUS-Core Biopsy - Summary ROC curve



4 Figure 14: Forest plot of EUS-FNA + Core

 Study
 TP
 FP
 FN
 TN
 Sensitivity (95% CI)
 Specificity (95% CI)
 Sensitivity (95% CI)
 Specificity (95% CI)

7 Figure 15: Forest plot of PUS-Core

6

Study TP FP FN TN Sensitivity (95% CI) Specificity (95% CI) Sensitivity (95% CI) Specificity (95% CI)

Yang 2015 50 0 4 6 0.93 [0.82, 0.98] 1.00 [0.54, 1.00

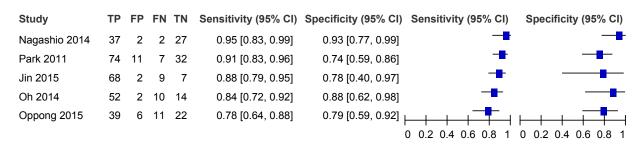
1 Figure 16: Forest plot of PUS-FNA + Core

2

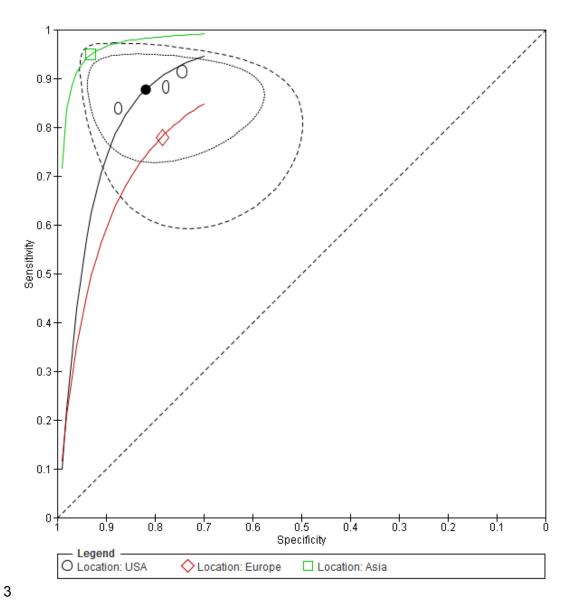


H.34 Pancreatic Cysts

5 Figure 17: Forest plot for Cystic fluid CEA at cut-off level of <30-<70 ng/ml for differentiating between MCNs and NMCNs of pancreas



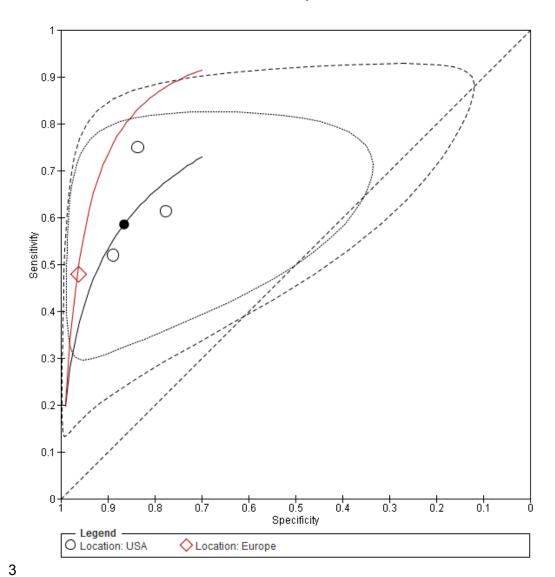
1 Figure 18: Summary ROC curve of cystic fluid CEA at cut-off level of <30-<70 ng/ml for differentiating between MCNs and NMCNs of pancreas



4 Figure 19: Forest plot for cystic fluid CEA at cut-off level of <192 ng/ml for differentiating between MCNs and NMCNs of pancreas

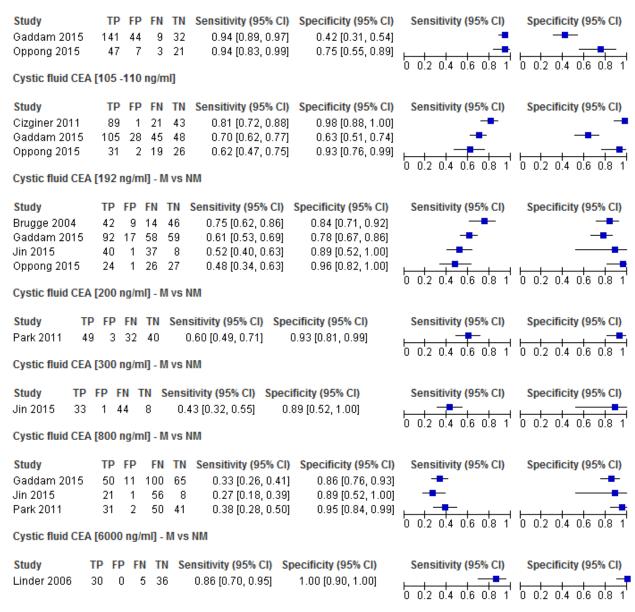
Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)	Sensitivity (95% CI)	Specificity (95% CI)
Brugge 2004	42	9	14	46	0.75 [0.62, 0.86]	0.84 [0.71, 0.92]	-	-
Gaddam 2015	92	17	58	59	0.61 [0.53, 0.69]	0.78 [0.67, 0.86]	-	-
Jin 2015	40	1	37	8	0.52 [0.40, 0.63]	0.89 [0.52, 1.00]	-	
Oppong 2015	24	1	26	27	0.48 [0.34, 0.63]	0.96 [0.82, 1.00]	_	
						1	0 0.2 0.4 0.6 0.8 1	0 0.2 0.4 0.6 0.8 1

1 Figure 20: Summary ROC curve of cystic fluid CEA [192 ng/ml] for differentiating between MCNs and NMCNs of pancreas

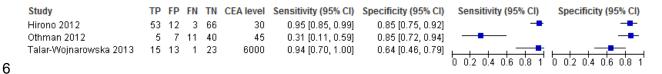


1 Figure 21: Forest plots for other studies on cystic fluid CEA at various cut-off levels 2 for differentiating between MCNs and NMCNs of pancreas

Cystic fluid CEA [<30 ng/ml]



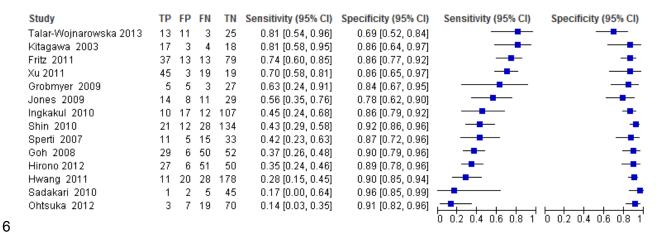
4 Figure 22: Forest plot for cystic fluid CEA in differentiating between (potentially) 5 malignant and benign PCLs



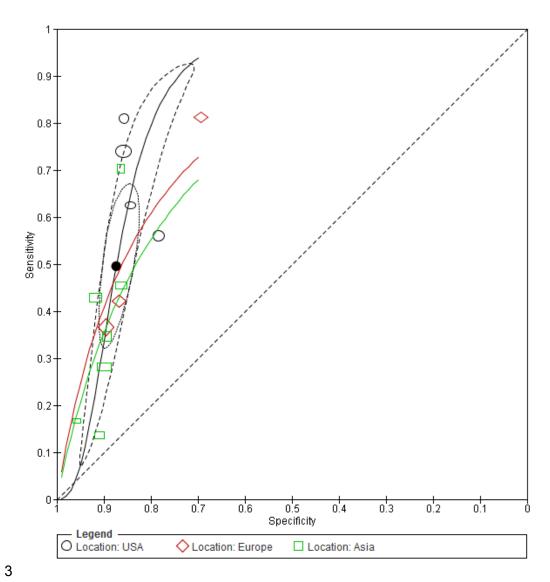
1 Figure 23: Forest plot for serum CEA at unspecified cut-off level for differentiating between (potentially) malignant and benign PCLs



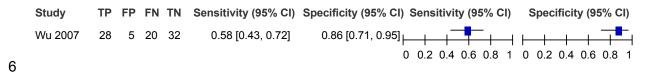
4 Figure 24: Forest plot for cystic fluid CA 19-9 at cut-off level of <35-<45 ng/ml] for differentiating between (potentially) malignant and benign PCLs



1 Figure 25: Summary ROC curve for cystic fluid CA 19-9 at cut-off level of <35-<45 ng/ml] for differentiating between (potentially) malignant and benign PCLs



4 Figure 26: Forest plot for serum CA 19-9 at unspecified cut-off level for differentiating between (potentially) malignant and benign PCLs



1 Figure 27: Forest plot for EUS-FNA-based cytology for differentiating between MCNs and NMCNs of pancreas

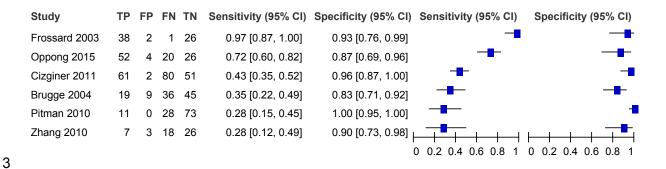
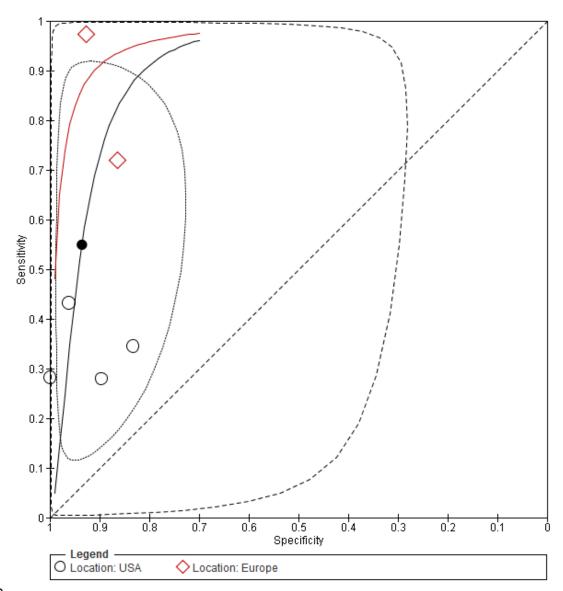


Figure 28: Summary ROC curve for EUS-FNA-based cytology for differentiating
 between MCNs and NMCNs of pancreas



1 Figure 29: Forest plot for EUS-FNA-based cytology to differentiate between (potentially) malignant and benign PCLs

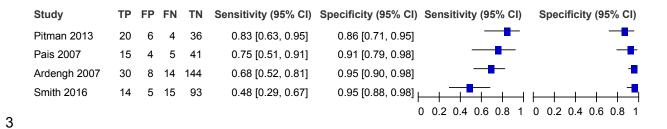
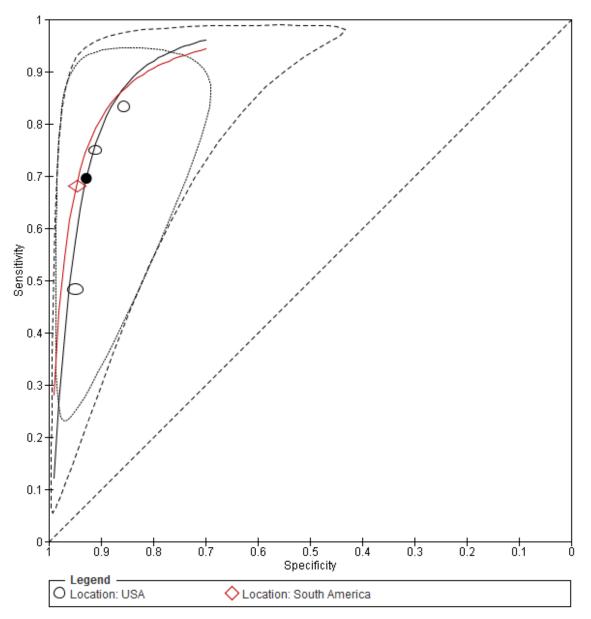


Figure 30: Summary ROC curve for EUS-FNA-based cytology to differentiate between (potentially) malignant and benign PCLs



5

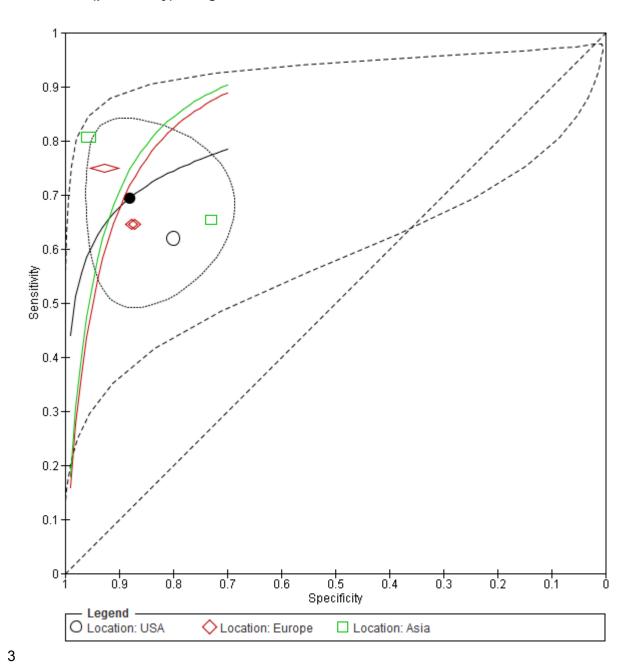
1 Figure 31: Forest plot for CT to differentiate between MCNs and NMCNs of pancreas

 Study
 TP
 FP
 FN
 TN
 Sensitivity (95% CI)
 Specificity (95% CI)
 Sensitivity (95% CI)
 Specificity (95% CI)

Figure 32 Forest plot for CT to differentiate between benign and (potentially) malignant PCLs

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)	Sensitivity (95% CI)	Specificity (95% CI)
Nara 2009	25	4	6	88	0.81 [0.63, 0.93]	0.96 [0.89, 0.99]	_	-
Ghaneh 2017	6	39	2	503	0.75 [0.35, 0.97]	0.93 [0.90, 0.95]		
Lee 2011	17	10	9	27	0.65 [0.44, 0.83]	0.73 [0.56, 0.86]		-
Sperti 2005	11	4	6	29	0.65 [0.38, 0.86]	0.88 [0.72, 0.97]		-
Sperti 2001	11	5	6	34	0.65 [0.38, 0.86]	0.87 [0.73, 0.96]		-
Gerke 2006	13	4	8	16	0.62 [0.38, 0.82]	0.80 [0.56, 0.94]	0 0.2 0.4 0.6 0.8 1	0 0.2 0.4 0.6 0.8 1

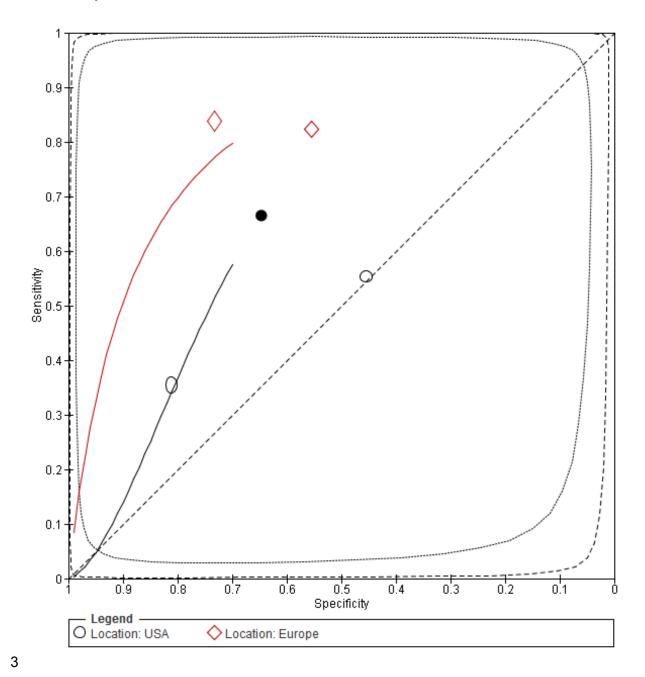
1 Figure 33: Summary ROC curve for CT to differentiate between benign and (potentially) malignant PCLs



4 Figure 34: 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 0.2 0.4 0.6 0.8 1	0 0.2 0.4 0.6 0.8 1

1 Figure 35: Summary ROC curve for EUS to differentiate between MCNs and NMCNs of pancreas



4 Figure 36: Forest plot for EUS to differentiate between (potentially) malignant and benign PCLs

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)	Sensitivity (95% CI)	Specificity (95% CI)
Kim 2012	35	4	1	11	0.97 [0.85, 1.00]	0.73 [0.45, 0.92]	-	
Kamata 2016	29	24	1	16	0.97 [0.83, 1.00]	0.40 [0.25, 0.57]	-	-
Gerke 2006	22	13	9	22	0.71 [0.52, 0.86]	'		
							0 0.2 0.4 0.6 0.8 1	0 0.2 0.4 0.6 0.8 1

1 Figure 37: Forest plot for EUS-FNA 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)
 Specificity (95% CI)
 Specificity (95% CI)
 Specificity (95% CI)
 O.72 [0.56, 0.85]
 O.72 [0.5

4 Figure 38: Forest plot for PET/CT to differentiate between (potentially) malignant and benign PCLs

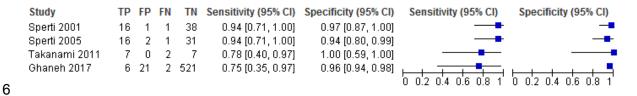
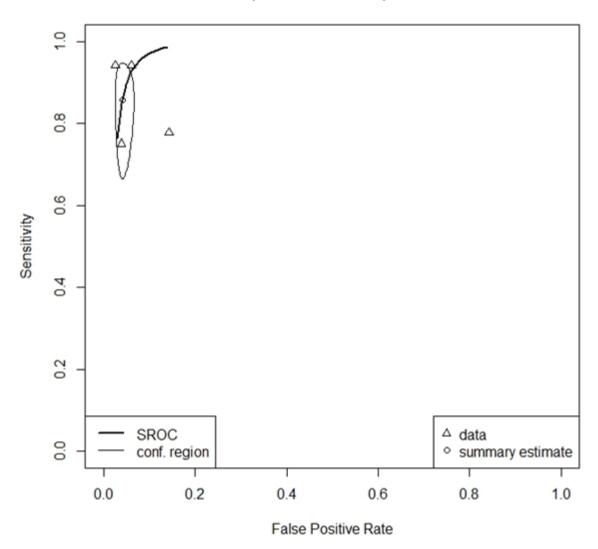
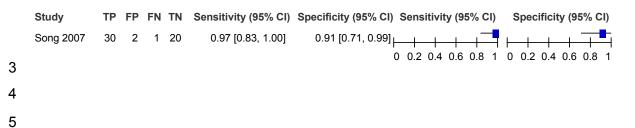


Figure 39: Summary ROC curve for PET/CT differentiating between (potentially) malignant and benign PCLs

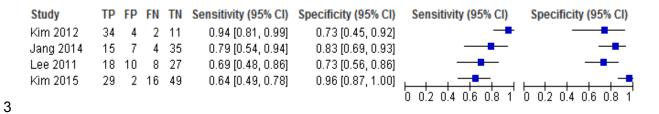
SROC curve (bivariate model) for PETCT data



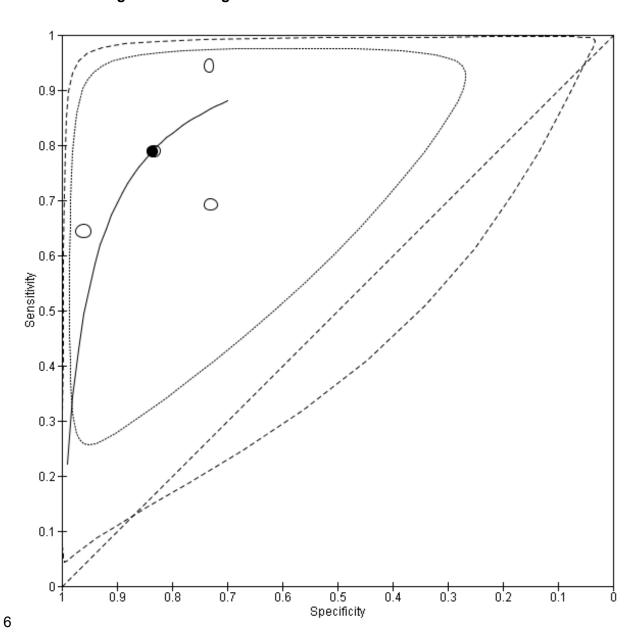
2 Figure 40: Forest plot for MRI differentiating between MCNs and NMCNs of pancreas



1 Figure 41: Forest plot for MRI differentiating between (potentially) malignant and 2 benign PCLs

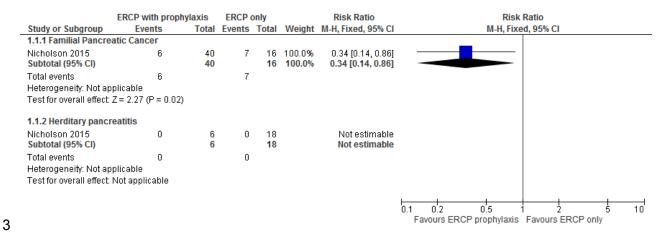


4 Figure 42: Summary ROC curve for MRI to differentiate between (potentially)
5 malignant and benign PCLs



H.41 People with inherited high risk of pancreatic cancer

2 Figure 43: # ERCP procedures with post-ERCP pancreatitis

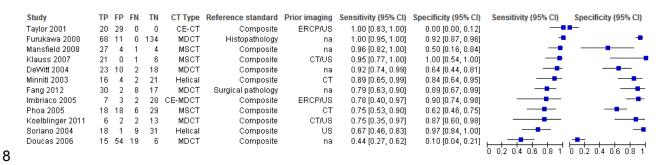


H.54 Referral to specialist multidisciplinary teams

5 Not applicable for this review.

H.66 Staging

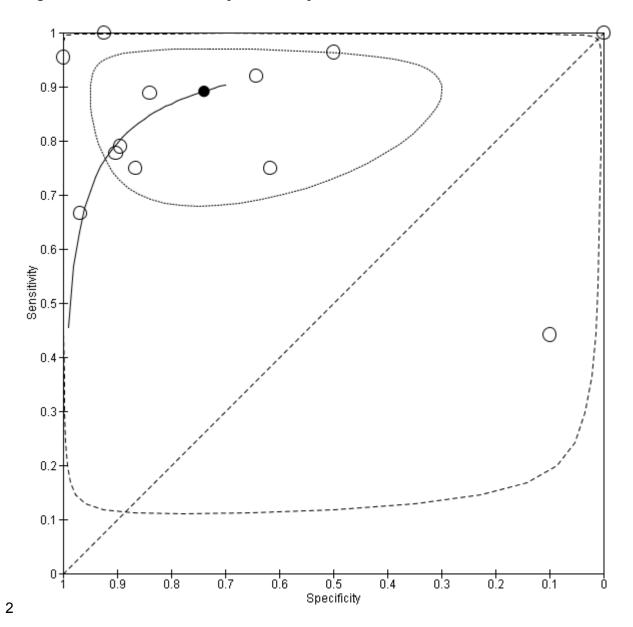
7 Figure 44: CT for resectability - Forest plots



1 Figure 45: 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	Sensitivity (95% CI) Specificity (95% CI) 0 0.2 0.4 0.6 0.8 1 0 0.2 0.4 0.6 0.8 1
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	Sensitivity (95% CI) Specificity (95% CI) 0 0.2 0.4 0.6 0.8 1 0 0.2 0.4 0.6 0.8 1
Study TP FP FN TN Reference standard Prior imaging Sensitivity (95% CI) Specificity (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	
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)	Sensitivity (95% CI) Specificity (95% CI) 0 0.2 0.4 0.6 0.8 1 0 0.2 0.4 0.6 0.8 1
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	Sensitivity (95% CI) Specificity (95% CI) 0 0.2 0.4 0.6 0.8 1 0 0.2 0.4 0.6 0.8 1
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	Sensitivity (95% CI) Specificity (95% CI) 0 0.2 0.4 0.6 0.8 1 0 0.2 0.4 0.6 0.8 1
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]	Sensitivity (95% CI) Specificity (95% CI) 0 0.2 0.4 0.6 0.8 1 0 0.2 0.4 0.6 0.8 1

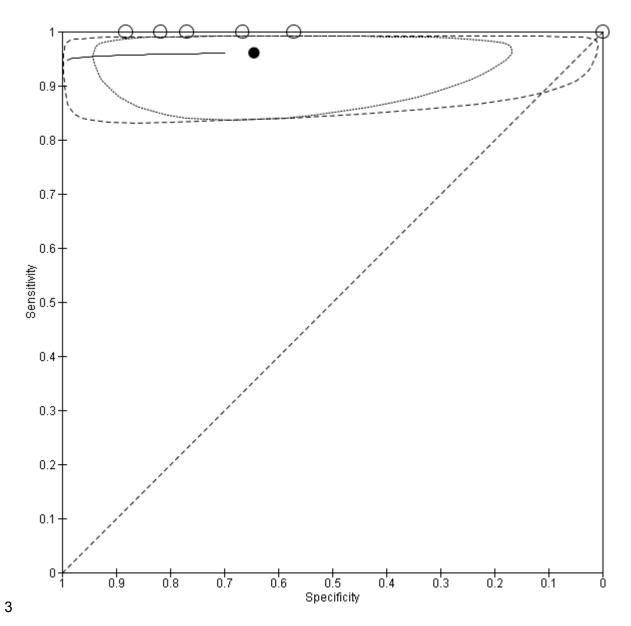
1 Figure 46: CT for Resectability - Summary ROC curve



3 Figure 47: Laparoscopy with laparoscopic ultrasonography for resectability in patients with potentially resectable pancreatic cancer – forest plots

	_
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]	0.2 0.4 0.6 0.8 1

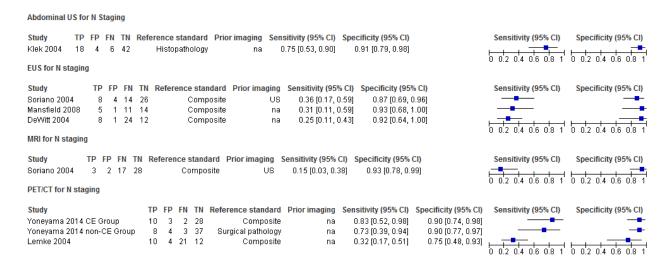
1 Figure 48: Laparoscopy with laparoscopic ultrasonography for resectability in patients with potentially resectable pancreatic cancer – summary ROC curve



4 Figure 49: CT for N Staging – forest plots

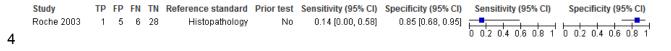
Study	TP	FP	FN	TN	CT Type	Reference standard	Prior imaging	Sensitivity (95% CI)	Specificity (95% CI)	Sensitivity (95% CI)	Specificity (95% CI)
Klek 2004	10	3	3	54	Helical	Histopathology	na	0.77 [0.46, 0.95]	0.95 [0.85, 0.99]		-
Mansfield 2008	2	0	3	26	MSCT	Composite	na	0.40 [0.05, 0.85]	1.00 [0.87, 1.00]		-
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]		<u> </u>
										0 0.2 0.4 0.6 0.8 1	0 0.2 0.4 0.6 0.8 1

1 Figure 50: N Staging for other types of imaging - Forest plots

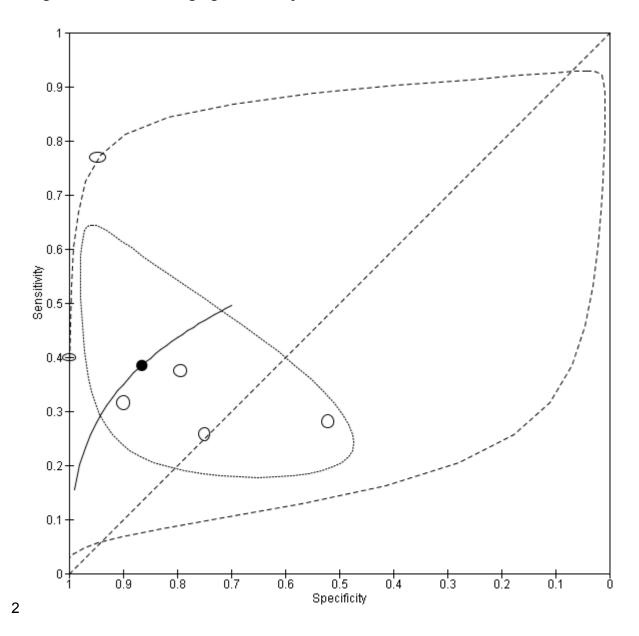


2

3 Figure 51: N Staging by number of lymph nodes - forest plot



1 Figure 52: CT for N Staging - Summary ROC curve



CT for M staging

1 Figure 53: M Staging - Forest plots

Study TP FP FN TN Reference standard Prior imaging Sensitivity (95% CI) Specificity (95% CI) Soriano 2004 2 5 46 Composite US 0.55 [0.23, 0.83] 0.96 [0.86, 0.99] Farma 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

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

 Farma 2008
 20
 5
 3
 54
 Composite
 na
 0.87 [0.66, 0.97]
 0.92 [0.81, 0.97]

0 0.2 0.4 0.6 0.8 1 0 0.2 0.4 0.6 0.8 1

Sensitivity (95% CI) Specificity (95% CI)

0 0.2 0.4 0.6 0.8 1 0 0.2 0.4 0.6 0.8 1

0 0.2 0.4 0.6 0.8 1 0 0.2 0.4 0.6 0.8 1

0 0.2 0.4 0.6 0.8 1 0 0.2 0.4 0.6 0.8 1

0 0.2 0.4 0.6 0.8 1 0 0.2 0.4 0.6 0.8 1

Sensitivity (95% CI)

Sensitivity (95% CI)

Sensitivity (95% CI)

Sensitivity (95% CI)

Specificity (95% CI)

Specificity (95% CI)

Specificity (95% CI)

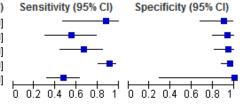
Specificity (95% CI)

2

3 Figure 54: Vascular invasion - forest plots

CT for vascular invasion

Study TP FP FN TN Sensitivity (95% CI) Specificity (95% CI) Klauss 2007 7 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] 16 Soriano 2004 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 0 23 3 0.48 [0.32, 0.63] 1.00 [0.29, 1.00]

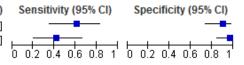


EUS for vascular invasion

 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]

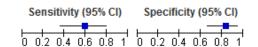
 Soriano 2004
 8
 1
 11
 32
 0.42 [0.20, 0.67]
 0.97 [0.84, 1.00]



MRI for vascular invasion

 Study
 TP
 FP
 FN
 TN
 Sensitivity (95% CI)
 Specificity (95% CI)

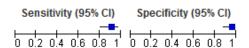
 Soriano 2004
 13
 5
 9
 26
 0.59 [0.36, 0.79]
 0.84 [0.66, 0.95]



Abdominal US for vascular invasion

 Study
 TP
 FP
 FN
 TN
 Sensitivity (95% CI)
 Specificity (95% CI)

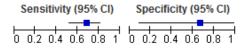
 Klek 2004
 50
 3
 5
 68
 0.91 [0.80, 0.97]
 0.96 [0.88, 0.99]



PET/CT for vascular invasion

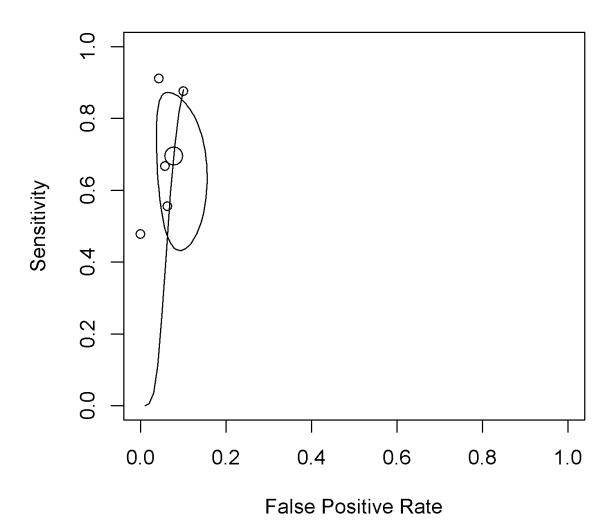
 Study
 TP
 FP
 FN
 TN
 Sensitivity (95% CI)
 Specificity (95% CI)

 Lemke 2004
 30
 1
 14
 2
 0.68 [0.52, 0.81]
 0.67 [0.09, 0.99]



1 Figure 55: CT for vascular invasion - Summary ROC curve





2

3 Figure 56: CA 19-9 for improving staging laparoscopy – forest plots



5

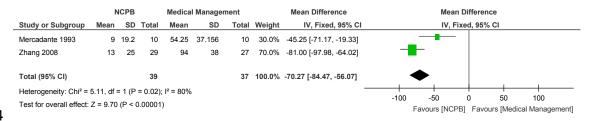
H.76 Psychological support needs

7 Not applicable for this review.

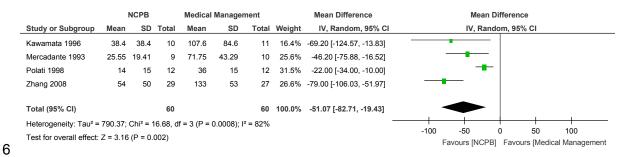
H.8₁ Pain

H.8.12 NCPB versus medical management alone

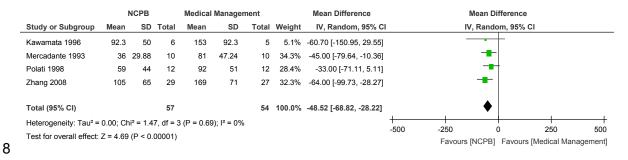
3 Figure 57: Opioid use at 2 weeks



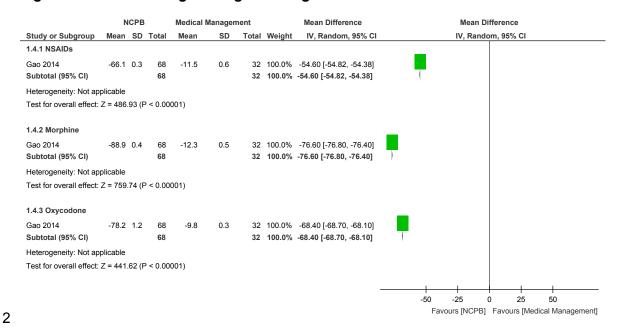
5 Figure 58: Opioid use at 4 weeks



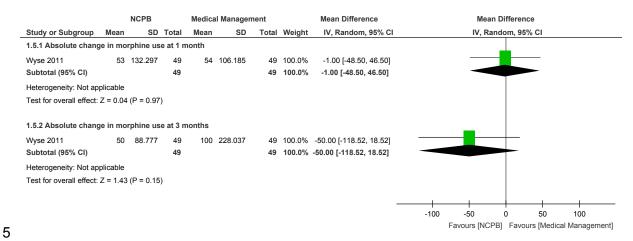
7 Figure 59: Opioid use the day before to death



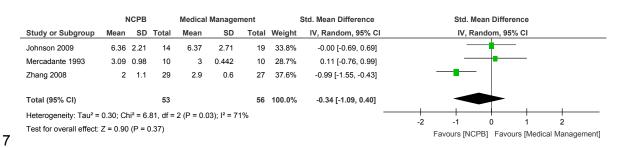
1 Figure 60: Percentage change in analgesic medications use and 3 months



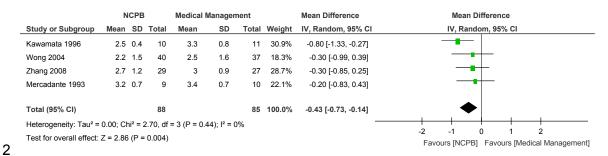
3 Figure 61: Reduction in opioid medication: Absolute change in morphine use at 1 4 and 3 months



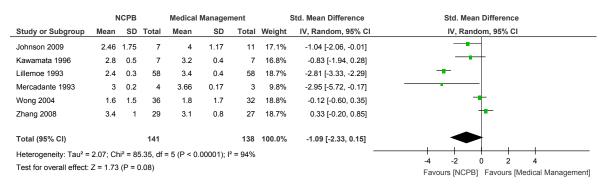
6 Figure 62: Pain scores at 2 weeks



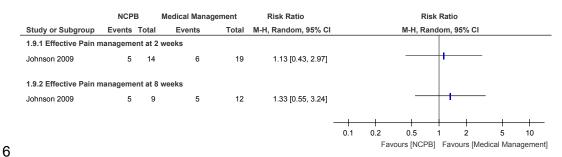
1 Figure 63: Pain scores at 4 weeks



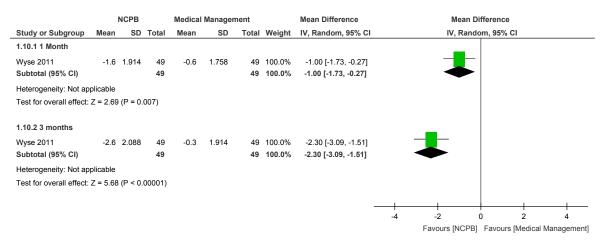
3 Figure 64: Pain scores at 8 weeks



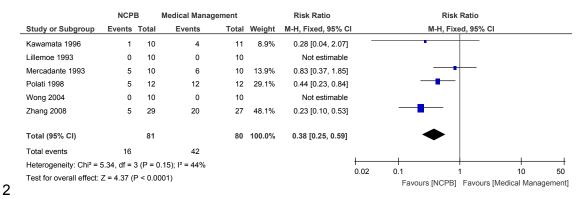
5 Figure 65: Patients reporting effective pain management at 2 and 8 weeks



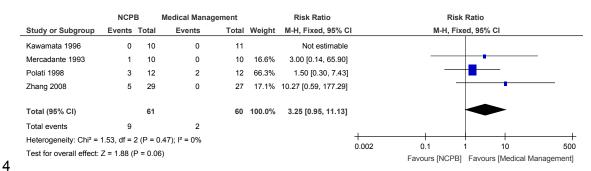
7 Figure 66: Absolute Change in Pain score at 1 and 3 months



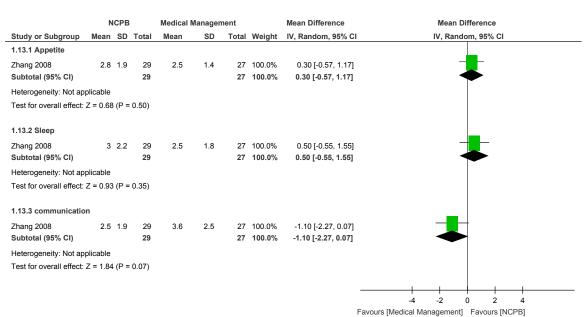
1 Figure 67: Adverse effects – constipation



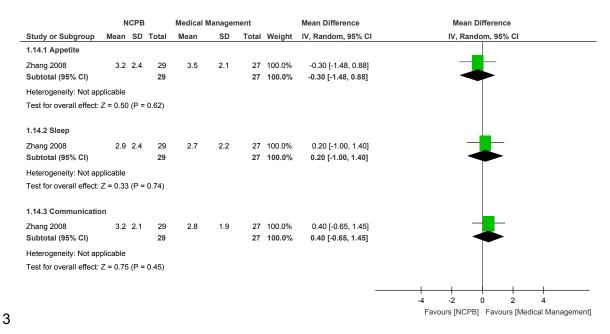
3 Figure 68: Adverse effects: diarrhoea



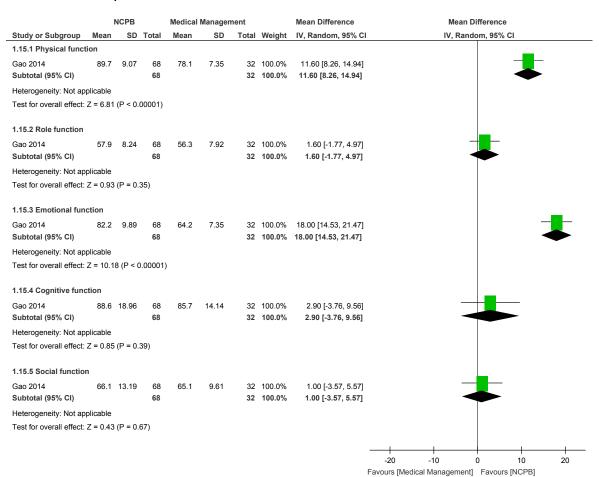
5 Figure 69: QOL scores (as interference with appetite, sleep, communication) at 1 6 month



1 Figure 70: QOL scores (as interference with appetite, sleep, communication) 3 months

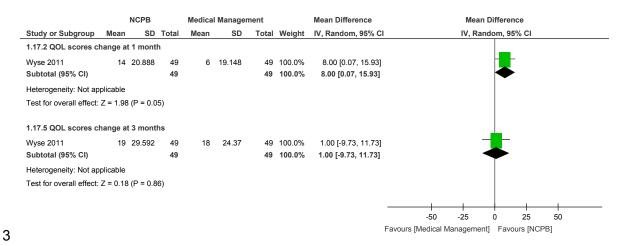


4 Figure 71: QOL scores (Functional scales: physical; role; emotional; cognitive and social) at 3 months



5

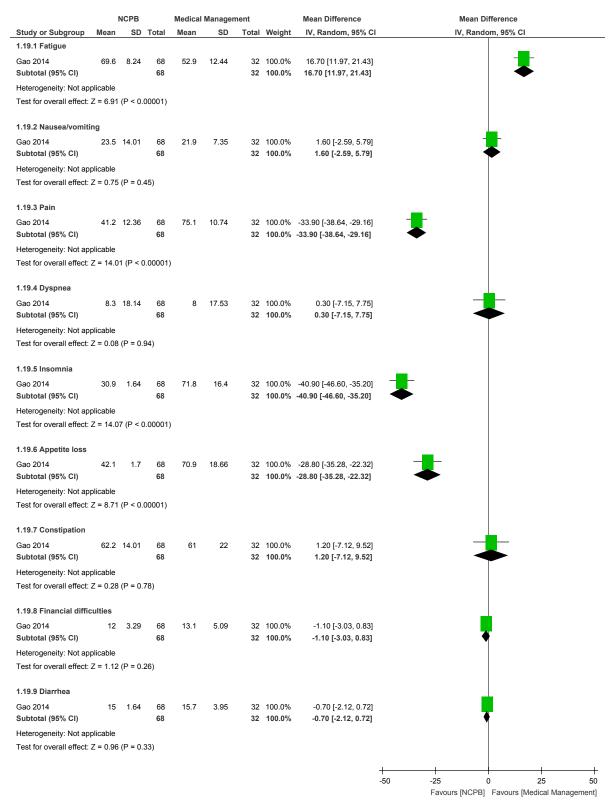
1 Figure 72: QOL scores - Digestive Disease questionnaire-15: Percentage change at 2 1 and 3 months



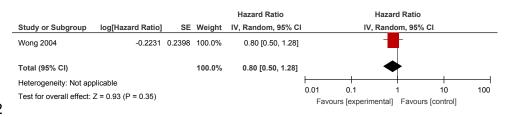
4 Figure 73: QOL scores - Global quality of life at 3 month

	NCPB			Medical Management				Mean Difference			Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% C			IV, Rande	om, 95% CI		
Gao 2014	65.6	0.4	68	51.3	0.5	32	100.0%	14.30 [14.10, 14.50]						
Total (95% CI)			68			32	100.0%	14.30 [14.10, 14.50]					•	
Heterogeneity: Not ap									-20	-1	0	0	 10	20
Test for overall effect: Z = 141.83 (P < 0.00001)								Favours	s [Medical M	lanagement]	Favours [NO	CPB]		

1 Figure 74: QOL scores – Symptom (Fatigue; Nausea/vomiting; Pain; Dyspnea; Insomnia; Appetite loss; Constipation and financial difficulties) at 3 months

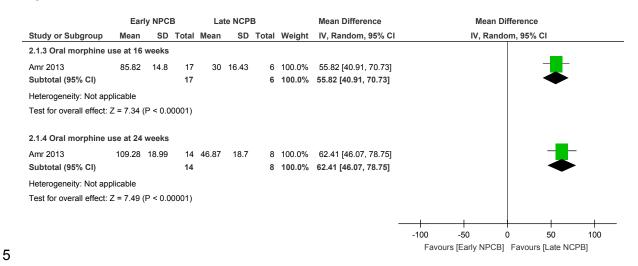


1 Figure 75: Overall survival

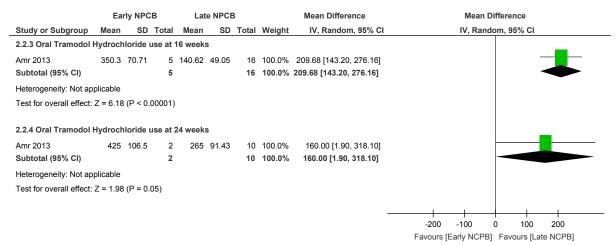


H.8.23 Early NCPB versus late NCPB

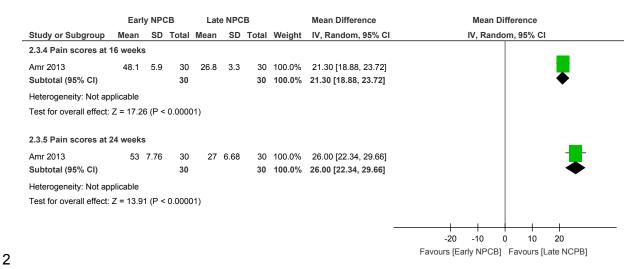
4 Figure 76: Oral morphine use at 16 and 24 weeks follow-up



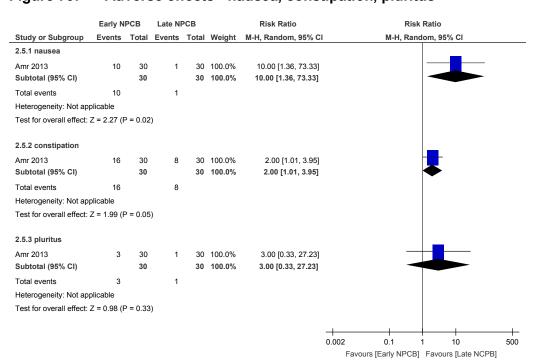
6 Figure 77: Oral Tramodol Hydrochloride use at 16 and 24 weeks follow-up.



1 Figure 78: Pain scores at 16 and 24 weeks follow-up.

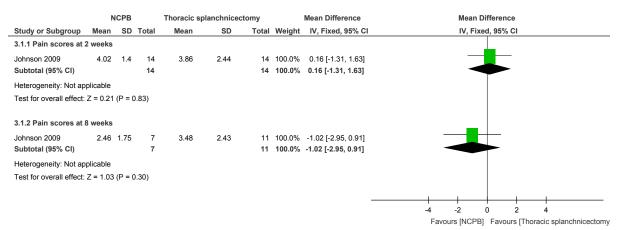


3 Figure 79: Adverse effects - nausea, constipation, pluritus



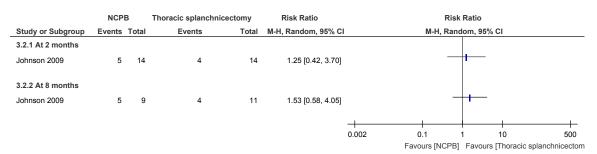
H.8.31 NCPB plus medical management versus thoracic splanchnicectomy plus 2 medical management

3 Figure 80: Pain scores at 2 and 8 weeks



4

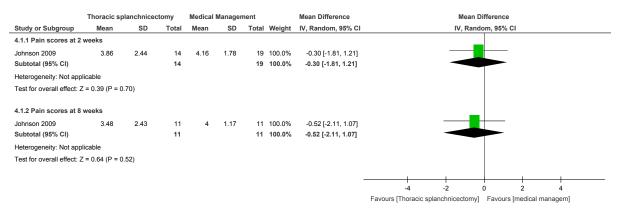
5 Figure 81: Patients reporting effective pain management at 2 and 8 weeks



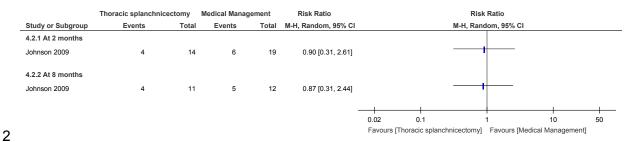
6

H.8.47 Thoracic splanchnicectomy + medical management versus medical 8 management alone

9 Figure 82: Pain scores at 2 and 8 weeks

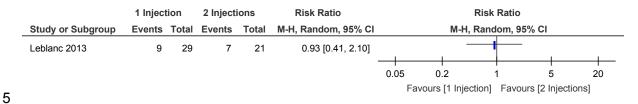


1 Figure 83: Patients reporting effective pain management at 2 and 8 weeks



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

4 Figure 84: Reduction in pain medication



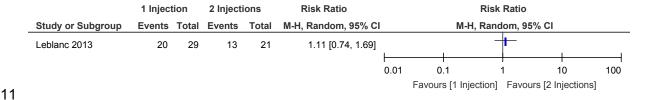
6 Figure 29: Patients with pain relief

	1 Injection 2		2 Inject	ions	Risk Ratio	Risk Ratio						
Study or Subgroup	Events	vents Total Events		Total	M-H, Random, 95% CI		М-Н	5% CI				
Leblanc 2013	20	29	17	21	0.85 [0.62, 1.17]					1		
						0.01	0.1	1	10	100		
							Favours [1 Inje	ection] Favou	urs [2 Injections	s]		

8 Figure 85: Patients with a complete pain relief

	1 Injection		2 Inject	ions	Risk Ratio	Risk Ratio						
Study or Subgroup	Events	Events Total Events		Total	M-H, Random, 95% CI		M-H, R	Random,	95% CI			
Leblanc 2013	2	29 2		21	0.72 [0.11, 4.74]			+	-			
						0.002	0.1	1	10	500		
							ours [1 Injecti	ion] Fav				

10 Figure 86: Patients reporting a block effective (subjective)



H.8.62 NCPB versus splanchnic nerve blocks

13 None

14

7

14

H.91 Nutritional Interventions

H.9.12 Standard Enteral nutrition versus enteral immunonutrition before and after 3 surgery

4 Figure 87: Treatment related morbidity - postoperative complications

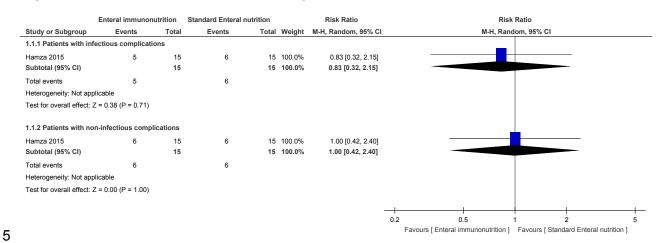
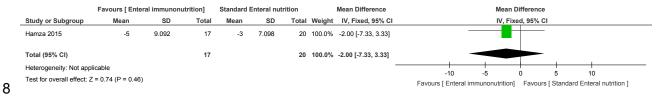
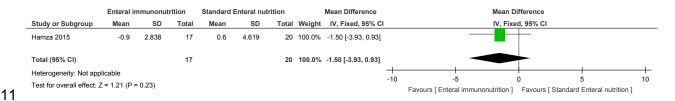


Figure 88: Health Related Quality of Life - Karnofsky score at 2 weeks after surgery, change from baseline



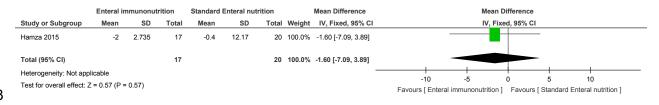
9 Figure 89: Nutritional status at 2 weeks after surgery - BMI (kg/m2), change from baseline



12 Figure 90: Nutritional status at 2 weeks after surgery - mid-arm circumference (cm), change from baseline

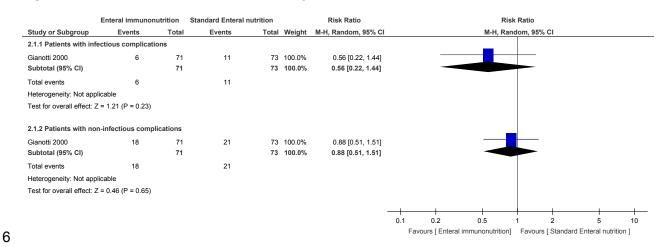
	Enteral in	nmunonut	rition	Standard	Enteral nut	rition		Mean Difference			Mean D	Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI			IV, Fixe	ed, 95% CI			
Hamza 2015	-1	2.735	17	-0.4	4.39	20	100.0%	-0.60 [-2.92, 1.72]		_					
Total (95% CI)			17			20	100.0%	-0.60 [-2.92, 1.72]		_					
Heterogeneity: Not app Test for overall effect: 2		0.61)						_	Favours [Ent		-2 ionutrition]	0 Favours	2 [Standar	4 d Enteral nutrition	n]

1 Figure 91: Nutritional status at 2 weeks after surgery - corrected arm muscle area (cm2), change from baseline

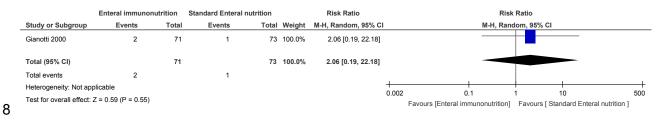


H.9.24 Standard Enteral nutrition (versus enteral immunonutrition after surgery

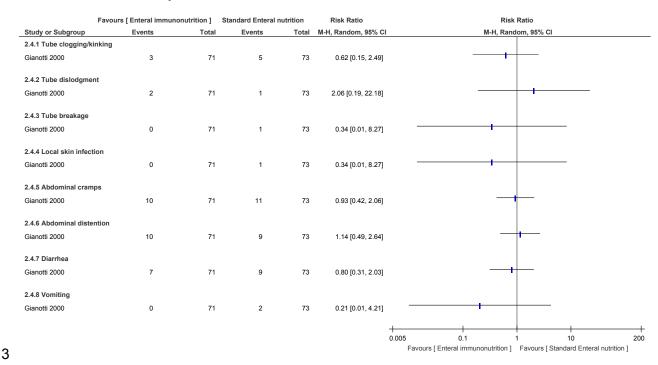
5 Figure 92: Treatment related morbidity - postoperative complications



7 Figure 93: Treatment related morbidity - postoperative mortality

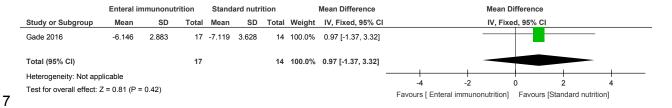


1 Figure 94: Treatment related morbidity - Jejunostomy and enteral nutritional related complications

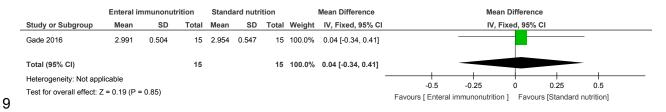


H.9.34 Enteral immunonutrition versus Standard nutrition (no intervention)

5 Figure 95: Nutritional status at 30 days after surgery - Absolute change in weight 6 (kg) from baseline



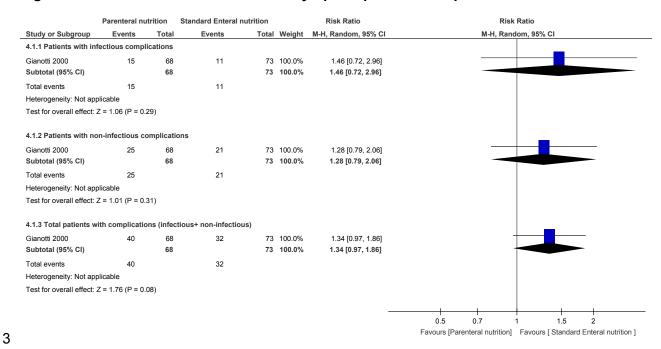
8 Figure 10: PROMS - Satisfaction with nutritional treatment at 1 month after surgery



5

H.9.41 Parenteral nutrition versus standard enteral nutrition after surgery

2 Figure 96: Treatment related morbidity - postoperative complications

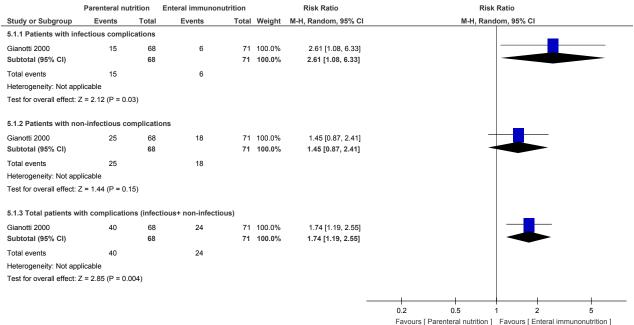


4 Figure 97: Treatment related morbidity - postoperative mortality

	Parenteral nu	trition	Standard Enteral nutrition			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
Gianotti 2000	4	68	1	73	100.0%	4.29 [0.49, 37.47]	- -
Liu 2011	0	30	0	28		Not estimable	
Total (95% CI)		98		101	100.0%	4.29 [0.49, 37.47]	
Total events	4		1				
Heterogeneity: Not app	olicable						0.02 0.1 1 10 50
Test for overall effect: 2	Z = 1.32 (P = 0.	19)					Favours [Parenteral nutrition] Favours [Standard Enteral nutrition]

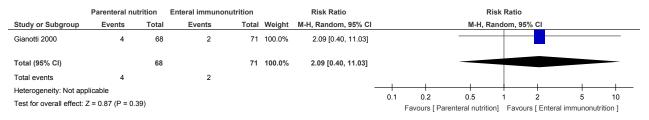
H.9.51 Parenteral nutrition versus enteral immunonutrition after surgery

2 Figure 98: Treatment related morbidity - postoperative complications



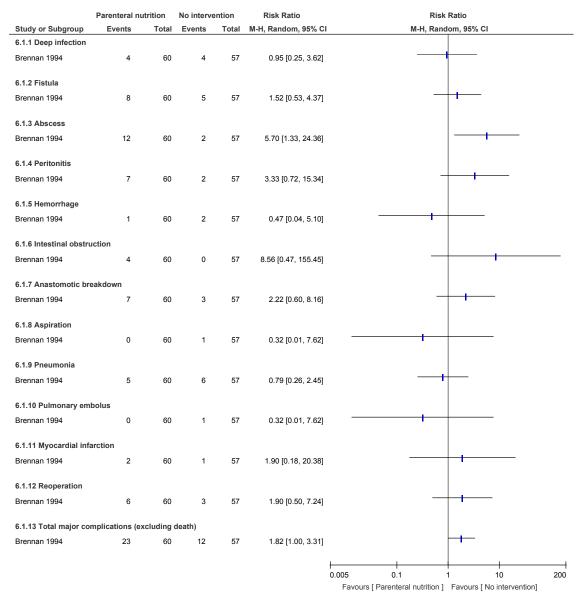
Test for subgroup differences: Chi² = 1.29, df = 2 (P = 0.52), $I^2 = 0\%$

4 Figure 99: Treatment related morbidity - postoperative mortality

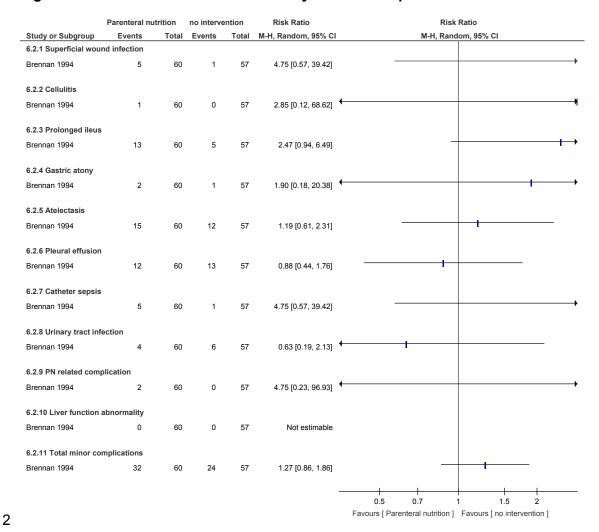


H.9.61 Parenteral nutrition versus no intervention after surgery

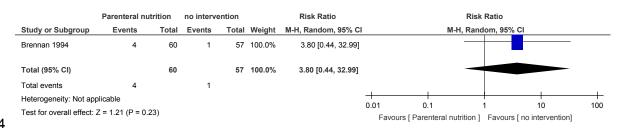
2 Figure 100: Treatment related morbidity - major complications



1 Figure 101: Treatment related morbidity - minor complications

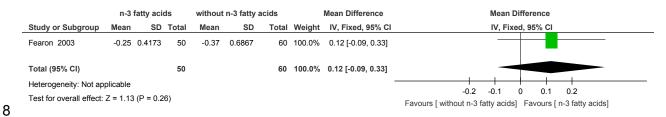


3 Figure 102: Treatment related morbidity - postoperative mortality

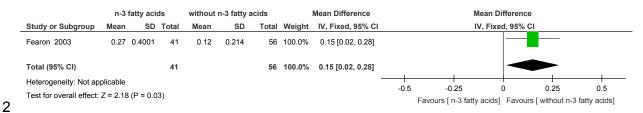


H.9.75 Oral nutritional supplements (n-3 fatty acids) versus isocaloric-isonitrogenous supplement (without n-3 fatty acids)

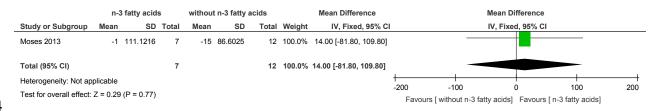
7 Figure 103: Nutritional status - Change in weight (kg/month) at 8 weeks



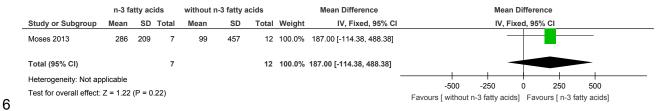
1 Figure 104: Nutritional status - Change in lean body mass (kg) at 8 weeks



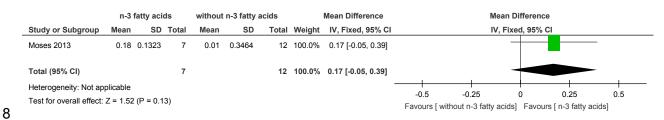
3 Figure 105: Change in resting energy expenditure at 8 weeks



5 Figure 106: Change in total energy expenditure at 8 weeks

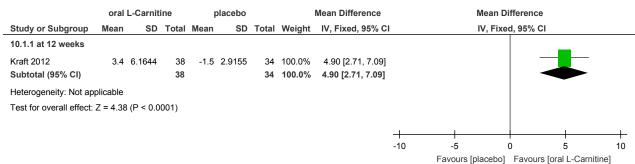


7 Figure 107: Change in physical activity level at 8 weeks



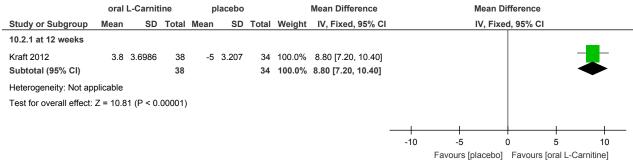
H.9.89 Oral nutritional supplements (oral L-Carnitine therapy) versus placebo

10 Figure 108: Nutritional status - % change of BMI at 12 weeks



11 Test for subgroup differences: Not applicable

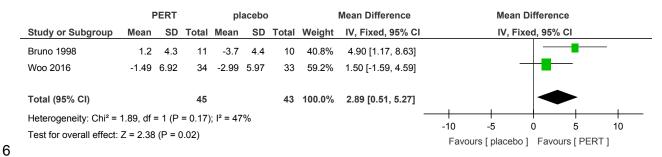
1 Figure 109: Nutritional status - % change of body fat and BCM at 12 weeks



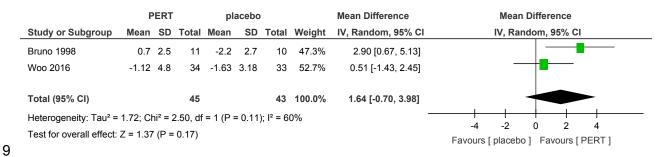
2 Test for subgroup differences: Not applicable

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

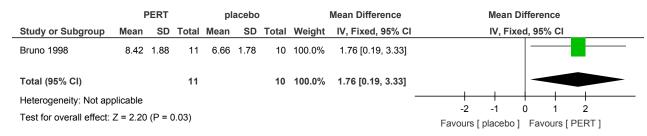
4 Figure 110: Nutritional status - Percentage change in body weight (%) at 8 weeks follow-up



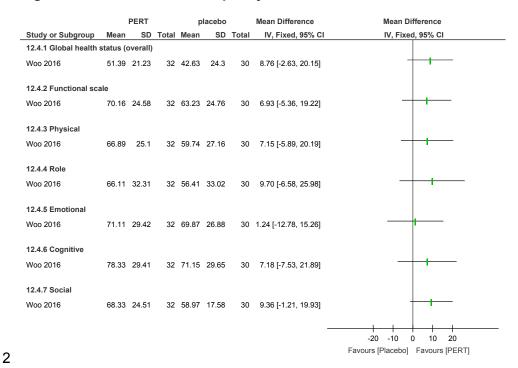
7 Figure 111: Nutritional status - Absolute change in body weight (Kg) at 8 weeks follow-up



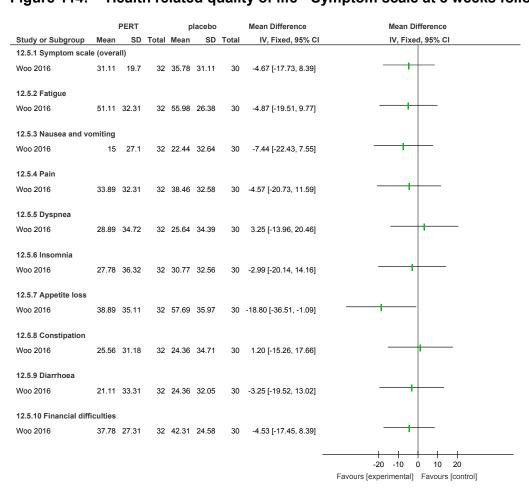
10 Figure 112: Nutritional status - Daily dietary intake of total calories at 8 weeks follow-up



1 Figure 113: Health related quality of life - Global Health status at 8 weeks follow-up

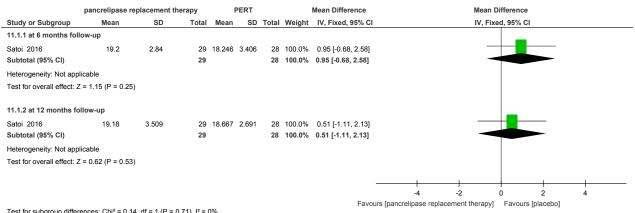


3 Figure 114: Health related quality of life - Symptom scale at 8 weeks follow-up



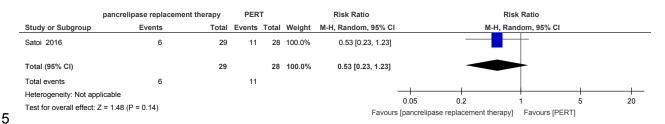
H.9.101 PERT versus pancrelipase replacement therapy

2 Figure 115: Nutritional status - BMI (kg/m2) at 6 and 12 months follow-up



Test for subgroup differences: $Chi^2 = 0.14$, df = 1 (P = 0.71), $I^2 = 0\%$

4 Figure 116: Treatment related morbidity - NAFLD at 1 year follow-up



H.10₆ Biliary obstruction

H.10.17 Plastic stent versus self-expanding metal stent in adults with pancreatic 8 cancer

Treatment-related mortality Figure 117:

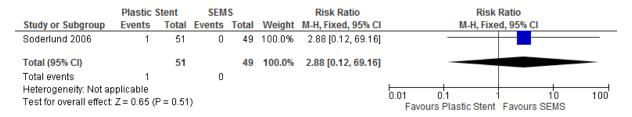


Figure 118: Overall survival

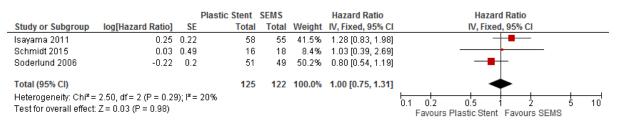


Figure 119: Time to stent dysfunction – primary and/or secondary stent

		F	Plastic Stent	SEMS		Hazard Ratio	Hazard Ratio
Study or Subgroup	log[Hazard Ratio]	SE	Total	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Isayama 2011	0.65	0.28	58	55	63.3%	1.92 [1.11, 3.32]	-
Moses 2013	1.24	0.47	41	41	22.5%	3.46 [1.38, 8.68]	_ -
Schmidt 2015	1.83	0.59	16	18	14.3%	6.23 [1.96, 19.81]	
Total (95% CI)			115	114	100.0%	2.59 [1.67, 4.00]	•
Heterogeneity: Chi² = Test for overall effect			7%				0.01 0.1 1 10 100 Favours Plastic Stent Favours SEMS

Figure 120: Time to stent dysfunction – primary stent subgroup analysis by covered status

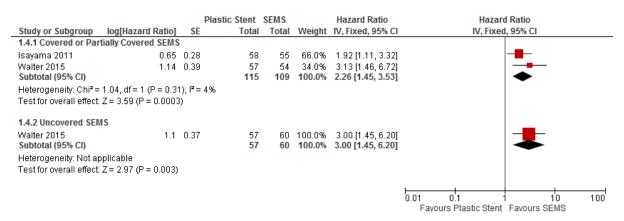


Figure 121: Time to stent dysfunction – secondary stent subgroup analysis by covered status

			Plastic Stent	SEMS		Hazard Ratio	Hazard Ratio
Study or Subgroup 1	og[Hazard Ratio]	SE	Total	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
1.5.1 Partially Covered	SEMS						
Walter 2015	1.9	0.8	16	17	100.0%	6.69 [1.39, 32.07]	
Subtotal (95% CI)			16	17	100.0%	6.69 [1.39, 32.07]	
Heterogeneity: Not appl	icable						
Test for overall effect: Z	= 2.37 (P = 0.02)						
1.5.2 Uncovered SEMS							_
Walter 2015	2.3	0.54	16	15	100.0%	9.97 [3.46, 28.74]	-
Subtotal (95% CI)			16	15	100.0%	9.97 [3.46, 28.74]	
Heterogeneity: Not appl	icable						
Test for overall effect: Z	= 4.26 (P < 0.0001)					
							0.01 0.1 1 10 100
							Favours Plastic Stent Favours SEMS

Figure 122: Number of patients with stent dysfunction

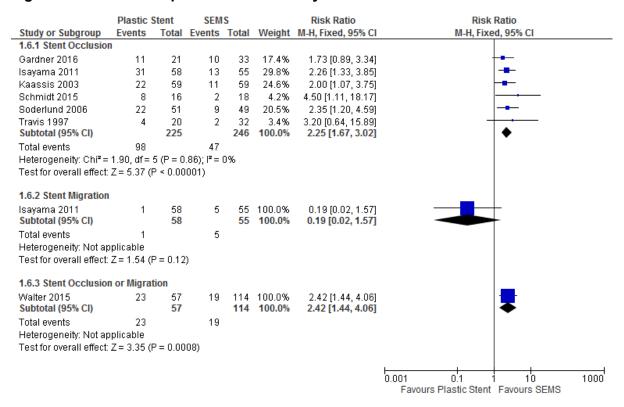


Figure 123: Number of patients with stent occlusion – subgroup analysis by covered status

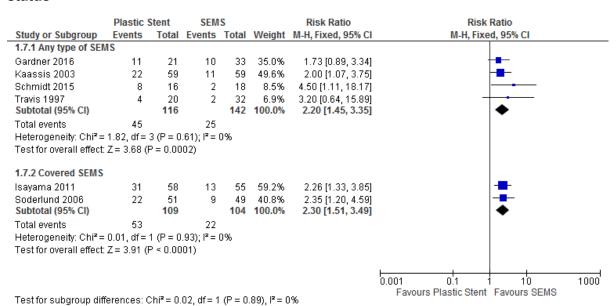


Figure 124: Number of patients with stent occlusion – subgroup analysis by resectability status

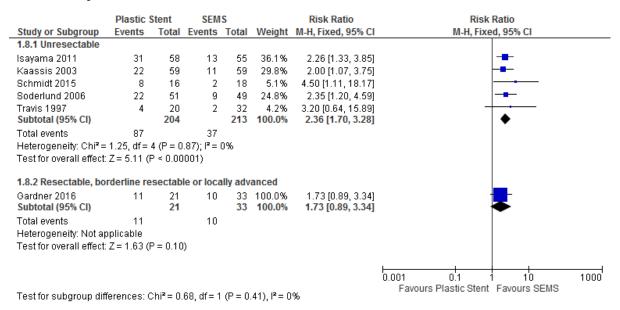


Figure 125: Number of patients with pancreatitis

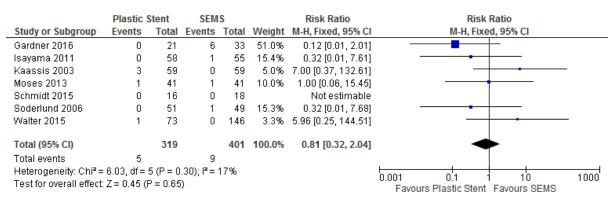


Figure 126: Number of patients with pancreatitis – subgroup analysis by covered status

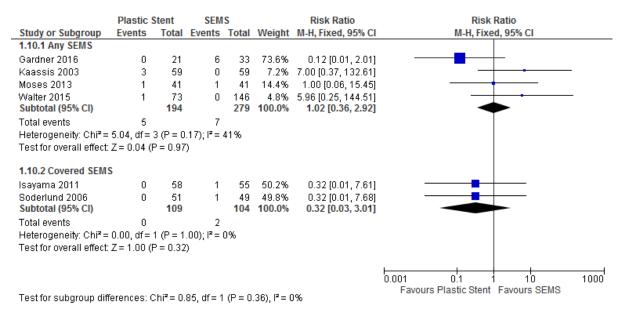


Figure 127: Number of patients with pancreatitis – subgroup analysis by resectability status

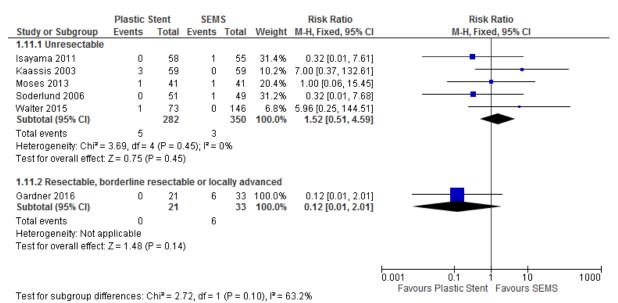


Figure 128: Number of patients with cholangitis – unresectable patients

	Plastic 9	Stent	SEM	S		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Kaassis 2003	0	59	1	59	25.5%	0.33 [0.01, 8.02]	
Moses 2013	10	41	2	41	33.9%	5.00 [1.17, 21.43]	
Schmidt 2015	5	16	2	18	31.9%	2.81 [0.63, 12.54]	
Soderlund 2006	2	51	0	49	8.7%	4.81 [0.24, 97.68]	
Total (95% CI)		167		167	100.0%	3.10 [1.28, 7.48]	•
Total events	17		5				
Heterogeneity: Chi²=	2.40, df = 3	3(P = 0)	.49); (2=	0%			1001
Test for overall effect:	Z = 2.51 (F	P = 0.01)				0.01 0.1 1 10 100 Favours Plastic Stent Favours SEMS

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

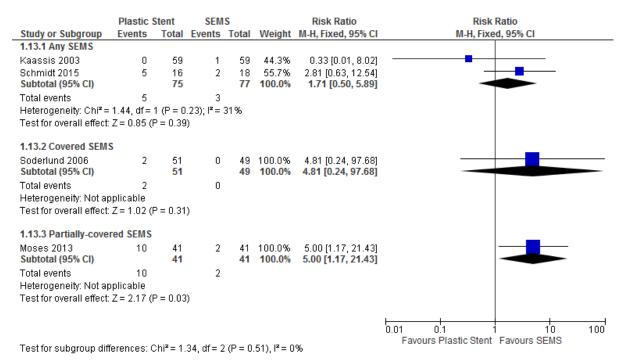


Figure 130: Number of patients with cholecystitis - unresectable patients

	Plastic 9	Plastic Stent		SEMS		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Isayama 2011	0	58	4	55	55.9%	0.11 [0.01, 1.91]	
Moses 2013	0	41	2	41	30.3%	0.20 [0.01, 4.04]	
Schmidt 2015	1	16	0	18	5.7%	3.35 [0.15, 76.93]	- •
Walter 2015	1	73	1	146	8.1%	2.00 [0.13, 31.52]	
Total (95% CI)		188		260	100.0%	0.47 [0.15, 1.53]	•
Total events	2		7				
Heterogeneity: Chi ² =	3.90, df=1	3 (P = 0	.27); l²=	23%			1000
Test for overall effect	: Z = 1.25 (F	P = 0.21)				0.001 0.1 1 10 1000 Favours Plastic Stent Favours SEMS

Figure 131: Number of patients with cholecystitis – subgroup analysis by covered status

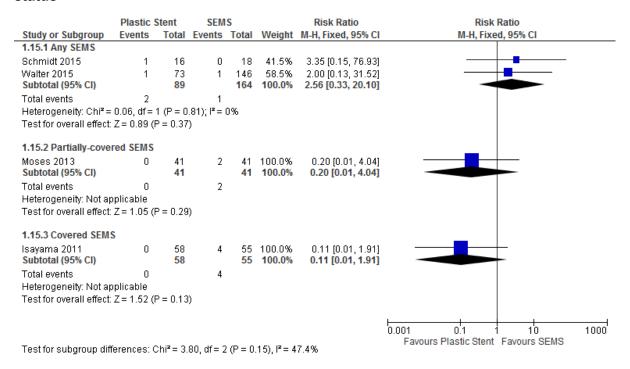


Figure 132: Number of patients with cholestatic symptoms to 2-year follow up

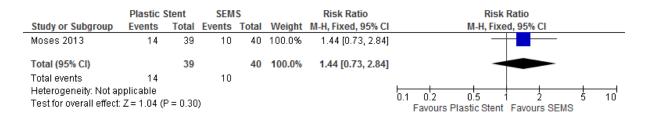


Figure 133: Number of patients with post-endoscopic sphincterotomy haemorrhage

	Plastic Stent		SEMS			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Kaassis 2003	1	59	0	59	100.0%	3.00 [0.12, 72.18]	
Total (95% CI)		59		59	100.0%	3.00 [0.12, 72.18]	
Total events	1		0				
Heterogeneity: Not ap Test for overall effect:	•	P = 0.50)				0.01

Figure 134: Number of days hospitalised

			Plastic Stent	SEMS		Std. Mean Difference	Std. Mean	Difference	4	
Study or Subgroup	Std. Mean Difference	SE	Total	Total	Weight	IV, Fixed, 95% CI	IV, Fixed	d, 95% CI		
Kaassis 2003	0.36466	0.185639	59	59	60.9%	0.36 [0.00, 0.73]				
Moses 2013	0.6872	0.2315807	39	40	39.1%	0.69 [0.23, 1.14]		-		
Total (95% CI)			98	99	100.0%	0.49 [0.21, 0.77]		♦		
Heterogeneity: Chi² = Test for overall effect:	1.18, df = 1 (P = 0.28); I ^z Z = 3.39 (P = 0.0007)	= 15%					 -5 Plastic Stent	0 Favours \$	5 SEMS	10

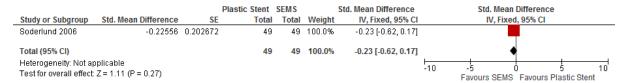
Figure 135: Number of patients with ≥30% decrease in total serum bilirubin

	Plastic 9	Stent	SEM	S		Risk Ratio	Risk Ratio						
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI			M-H, Fixe	d, 95%	CI		
Schmidt 2015	15	16	18	18	100.0%	0.94 [0.79, 1.10]				-			
Total (95% CI)		16		18	100.0%	0.94 [0.79, 1.10]			•	-			
Total events	15		18										
Heterogeneity: Not ap Test for overall effect:	•	P = 0.44)				0.1	0.2	0.5 Favours SEMS	Favour	l 2 rs Plastic	1 5 Ster	10 nt

Figure 136: Percentage reduction in total serum bilirubin

	Plas	stic Ste	nt		SEMS			Mean Difference		Mean I	Difference	е	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, Fixe	ed, 95% C	l .	
Moses 2013	63.7	56.14	39	74	43.62	40	100.0%	-10.30 [-32.51, 11.91]			+		
Total (95% CI)			39			40	100.0%	-10.30 [-32.51, 11.91]		-			
Heterogeneity: Not ap Test for overall effect:			36)						-100	-50 Favours SEM	0 3 Favour	50 rs Plastic	100 Stent

Figure 137: Total serum bilirubin - rate of change



H.10.21 Covered self-expanding metal stent versus uncovered self-expanding metal 2 stent

Figure 138: Stent dysfunction

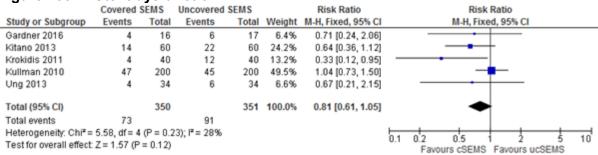


Figure 139: Stent dysfunction by cause

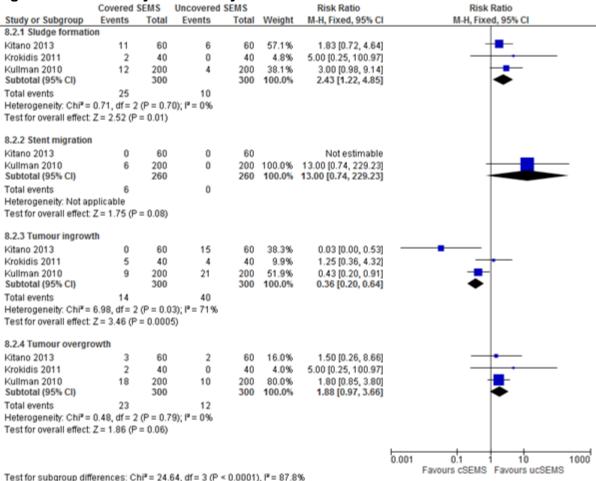
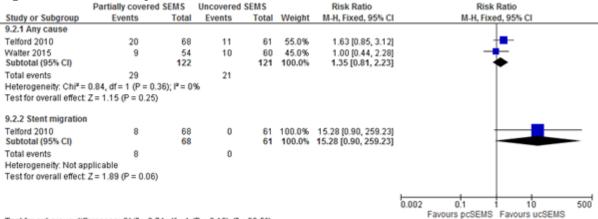


Figure 140: Adverse events Covered SEMS Uncovered SEMS Risk Ratio Risk Ratio Study or Subgroup Total Events Total Weight M-H, Fixed, 95% CI M-H, Fixed, 95% CI Events Kitano 2013 2 60 2 60 7.5% 1.00 [0.15, 6.87] Krokidis 2011 15.1% 5 40 40 1.25 [0.36, 4.32] Kullman 2010 200 20 75.5% 0.70 [0.36, 1.35] 14 200 Ung 2013 2 34 0 34 1.9% 5.00 [0.25, 100.43] Total (95% CI) 334 334 100.0% 0.89 [0.52, 1.51] Total events 23 26 Heterogeneity: Chi² = 2.09, df = 3 (P = 0.55); I² = 0% 0.01 100 10 0.1 Test for overall effect: Z = 0.44 (P = 0.66) Favours cSEMS Favours ucSEMS

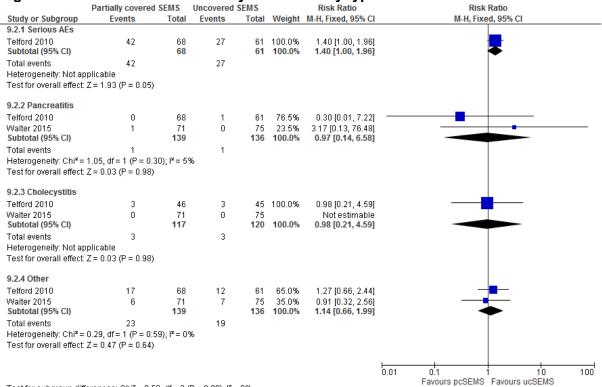
H.10.31 Partially covered self-expanding metal stent versus uncovered self-expanding metal stent

Figure 141: Stent dysfunction



Test for subgroup differences: $Chi^2 = 2.74$, df = 1 (P = 0.10), $I^2 = 63.5\%$

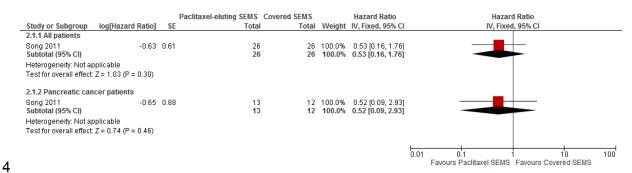
Figure 142: Adverse events – any cause and by type



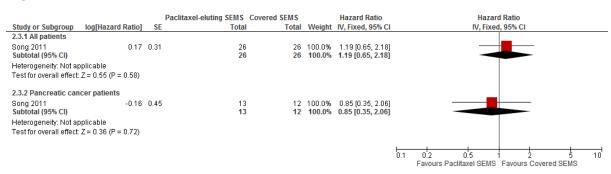
Test for subgroup differences: $Chi^2 = 0.59$, df = 3 (P = 0.90), $I^2 = 0\%$

H.10.41 Paclitaxel-eluting self-expanding metal stent versus covered SEMS in adults 2 with unresectable distal malignant biliary obstruction

3 Figure 143: Time to stent dysfunction



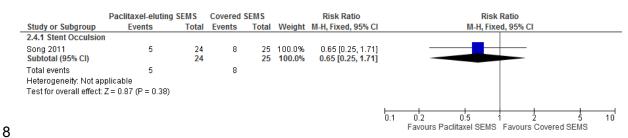
5 Figure 144: Overall survival



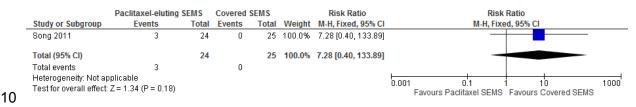
7 Figure 145: Stent dysfunction

6

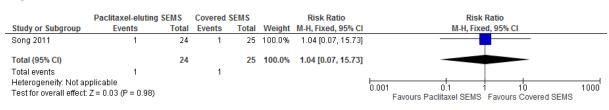
12



9 Figure 146: Cholangitis symptoms



11 Figure 147: Pancreatitis



H.10.51 Preoperative endoscopic biliary drainage then surgery versus surgery in 2 adults with suspected pancreatic cancer

Figure 148: Mortality at 120 days

1	Bilary Drainage->Su	irgery	Surge	егу		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Eshuis 2010/van der Gaag 2010	15	102	12	94	100.0%	1.15 [0.57, 2.33]	
Total (95% CI)		102		94	100.0%	1.15 [0.57, 2.33]	
Total events	15		12				
Heterogeneity: Not applicable Test for overall effect: Z = 0.39 (P = 0.	.69)						0.1 0.2 0.5 1 2 5 10 Favours BD->Surgery Favours Surgery

Figure 149: Mortality at 2 years

	Bilary Drainage.>Sı	ırgery	Surge	егу		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Eshuis 2010/van der Gaag 2010	77	95	76	90	100.0%	0.96 [0.84, 1.09]	•
Total (95% CI)		95		90	100.0%	0.96 [0.84, 1.09]	*
Total events	77		76				
Heterogeneity: Not applicable Test for overall effect: Z = 0.61 (P = 0	.54)						0.1 0.2 0.5 1 2 5 10 Favours BD->Surgery Favours Surgery

Figure 150: Treatment-related mortality

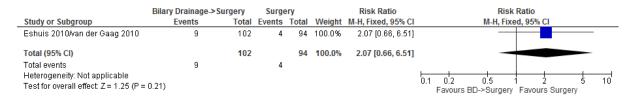


Figure 151: Overall survival at 2 years

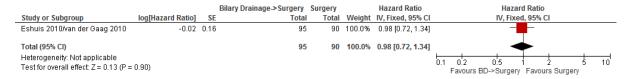


Figure 152: Overall survival at 2 years – subgroup analysis by type of surgery

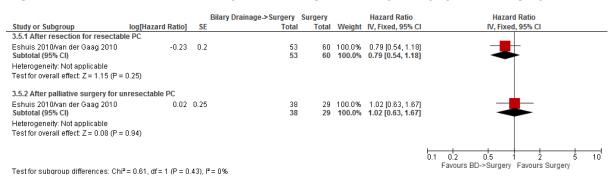


Figure 153: Delay to surgery (weeks)

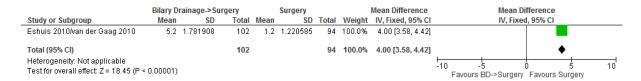


Figure 154: Hospitalisation due to protocol-specific complications

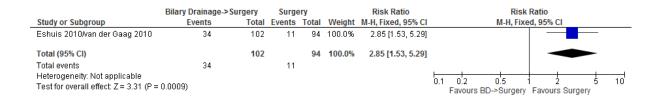


Figure 155: Rate of serious complications (<120 days after randomisation)

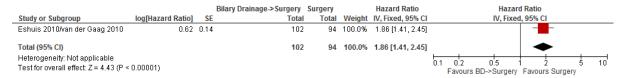


Figure 156: Total number of patients with protocol-specific complications

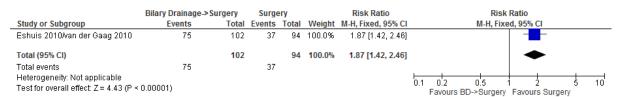


Figure 157: Total number of patients with stent dysfunction



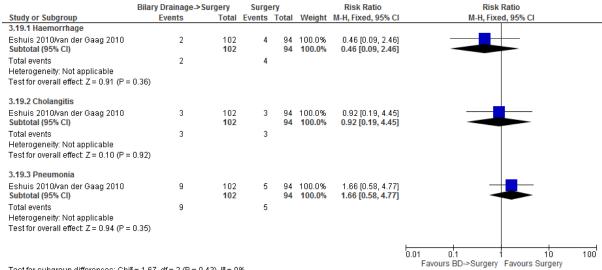
Figure 158: Total number of patients with surgery-related complications

1	Bilary Drainage⇒	Surgery	Surge	егу		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Eshuis 2010/van der Gaag 2010	48	102	35	94	100.0%	1.26 [0.91, 1.76]	+
Total (95% CI)		102		94	100.0%	1.26 [0.91, 1.76]	•
Total events Heterogeneity: Not applicable Test for overall effect: Z = 1.38 (P = 0.	.17)		35				0.1 0.2 0.5 1 2 5 10 Favours BD->Surgery Favours Surgery

Figure 159: Total number of patients with surgery-related complications – after palliative bypass

I I	Bilary Drainage->S	Surgery	Surge	егу		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Eshuis 2010/van der Gaag 2010	18	33	5	28	100.0%	3.05 [1.30, 7.17]	
Total (95% CI)		33		28	100.0%	3.05 [1.30, 7.17]	
Total events Heterogeneity: Not applicable	18		5				
Test for overall effect: $Z = 2.56$ (P = 0.	01)						0.1 0.2 0.5 1 2 5 10 Favours BD->Surgery Favours Surgery

Figure 160: Surgery-related adverse events



Test for subgroup differences: $Chi^2 = 1.67$, df = 2 (P = 0.43), $I^2 = 0\%$

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

Figure 161: Deaths due to progression of pancreatic cancer

_	En Sphincterotomy-	>Stent	Sten	ıt	-	Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hayashi 2015	67	100	78	100	100.0%	0.86 [0.72, 1.02]	•
Total (95% CI)		100		100	100.0%	0.86 [0.72, 1.02]	•
Total events	67		78				
Heterogeneity: Not ap Test for overall effect:							0.1 0.2 0.5 1 2 5 10 Favours ES->Stent Favours Stent

Figure 162: Number of patients with stent dysfunction by type

E	n Sphincterotomy	>Stent	Sten	t		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
4.2.1 Stent Occulsion							
Artifon 2008	3	37	3	37	11.0%	1.00 [0.22, 4.64]	
Giorgio 2004	16	92	15	90	55.8%	1.04 [0.55, 1.98]	
Hayashi 2015 Subtotal (95% CI)	6	100 229	9	100 227	33.1% 100.0%	0.67 [0.25, 1.80] 0.91 [0.55, 1.52]	
Total events	25		27				
Heterogeneity: Chi ^z = 0.:	56, df = 2 (P = 0.75)	$ I^2 = 0\% $					
Test for overall effect: Z	= 0.35 (P = 0.73)						
4.2.2 Stent Migration							
Artifon 2008	6	37	1	37	14.2%	6.00 [0.76, 47.42]	
Giorgio 2004	3	92	3	90	43.1%	0.98 [0.20, 4.72]	
Hayashi 2015 Subtotal (95% CI)	4	100 229	3	100 227	42.7% 100.0%	1.33 [0.31, 5.81] 1.84 [0.75, 4.54]	
Total events	13		7				
Heterogeneity: Chi ^z = 2.i	06, df = 2 (P = 0.36)	I² = 3%					
Test for overall effect: Z	= 1.33 (P = 0.18)						
							0.01 0.1 1 10 10
							Favours ES->Stent Favours Stent

Figure 163: Number of patients with early complications (≤30 days)

	En Sphincterotomy->Stent		Sten	ıt		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Giorgio 2004	6	92	4	90	31.2%	1.47 [0.43, 5.03]	
Hayashi 2015	10	96	9	98	68.8%	1.13 [0.48, 2.67]	
Total (95% CI)		188		188	100.0%	1.24 [0.61, 2.50]	
Total events	16		13				
Heterogeneity: Chi²= Test for overall effect:	0.11, df = 1 (P = 0.74); i Z = 0.60 (P = 0.55)	²= 0%					0.1 0.2 0.5 1 2 5 10 Favours ES->Stent Favours Stent

Figure 164: Number of patients with stent-related early complications (≤30 days)

	En Sphincterotomy-	Stent	Sten	t		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hayashi 2015	15	100	15	100	100.0%	1.00 [0.52, 1.93]	_
Total (95% CI)		100		100	100.0%	1.00 [0.52, 1.93]	
Total events	15		15				
Heterogeneity: Not ap Test for overall effect:							0.1 0.2 0.5 1 2 5 10 Favours ES->Stent Favours Stent

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



Figure 166: Number of patients with stent-related pancreatitis (≤30 days)

	En Sphincterotomy->	Sten	ıt		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Giorgio 2004	2	92	2	90	20.3%	0.98 [0.14, 6.80]	
Hayashi 2015	9	96	8	98	79.7%	1.15 [0.46, 2.85]	
Total (95% CI)		188		188	100.0%	1.11 [0.49, 2.54]	
Total events	11		10				
Heterogeneity: Chi ^z =	0.02, df = 1 (P = 0.88);	l² = 0%					01 02 05 1 2 5 10
Test for overall effect:	Z = 0.26 (P = 0.80)						0.1 0.2 0.5 1 2 5 10 Favours ES->Stent Favours Stent

Figure 167: Number of patients with perforation (≤30 days)

_	En Sphincterotomy->Stent		tent Stent			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hayashi 2015	0	96	1	98	100.0%	0.34 [0.01, 8.25]	
Total (95% CI)		96		98	100.0%	0.34 [0.01, 8.25]	
Total events	0		1				
Heterogeneity: Not ap Test for overall effect:							0.01 0.1 1 10 100 Favours ES->Stent Favours Stent

Figure 168: Number of patients with cholecystitis (≤30 days)

	En Sphincterotomy-	Stent	Ster	ıt		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hayashi 2015	1	91	4	93	100.0%	0.26 [0.03, 2.24]	
Total (95% CI)		91		93	100.0%	0.26 [0.03, 2.24]	
Total events	1		4				
Heterogeneity: Not app Test for overall effect: 2							0.01 0.1 10 100 Favours ES->Stent Favours Stent

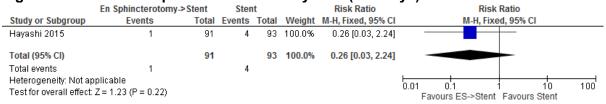
Figure 169: Number of patients with stent-related late complications (>30 days)

	En Sphincterotomy-	itent Stent			Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hayashi 2015	6	100	5	100	100.0%	1.20 [0.38, 3.81]	
Total (95% CI)		100		100	100.0%	1.20 [0.38, 3.81]	
Total events	6		5				
Heterogeneity: Not ap Test for overall effect:	•						0.1 0.2 0.5 1 2 5 10 Favours ES->Stent Favours Stent

Figure 170: Number of patients with cholangitis (>30 days)

	En Sphincterotomy	>Stent	Sten	t		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Giorgio 2004	16	92	15	90	100.0%	1.04 [0.55, 1.98]	_ _
Total (95% CI)		92		90	100.0%	1.04 [0.55, 1.98]	
Total events	16		15				
Heterogeneity: Not ap	pplicable						0.1 0.2 0.5 1 2 5 10
Test for overall effect	: Z = 0.13 (P = 0.90)						0.1 0.2 0.5 1 2 5 10 Favours ES->Stent Favours Stent

Figure 171: 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 172: Relief of biliary obstruction

	ES->cS	EMS	Surgical B	ypass		Risk Ratio		Risk Ratio					
Study or Subgroup	Events Total		Events	Total	Weight	M-H, Fixed, 95% CI			M-H, Fixe	ed, 95% CI			
Artifon 2006	15	15	15	15	100.0%	1.00 [0.88, 1.13]							
Total (95% CI)		15		15	100.0%	1.00 [0.88, 1.13]			•				
Total events	15		15										
Heterogeneity: Not ap Test for overall effect		P = 1.0	0)				0.1	0.2 Eavours	0.5 ES->cSEMS	Favours	Surgical By	5 nass	10

Figure 173: Treatment-related morbidity

_	ES->cS	EMS	Surgical B	ypass		Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Artifon 2006	3	15	4	15	100.0%	0.75 [0.20, 2.79]	
Total (95% CI)		15		15	100.0%	0.75 [0.20, 2.79]	
Total events	3		4				
Heterogeneity: Not ap Test for overall effect		P = 0.6	7)				0.1 0.2 0.5 1 2 5 10 Favours ES->cSEMS Favours Surgical Bypass

Figure 174: Treatment-related hospitalisation

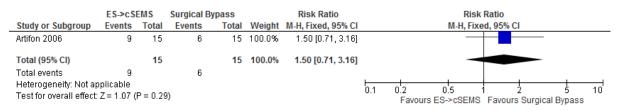


Figure 175: Number of patients with bilirubin level <2.5 mg/dL at day 30

	ES->cS	EMS	Surgical B	ypass		Risk Ratio		Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, Fixed, 95% CI
Artifon 2006	8	15	8	15	100.0%	1.00 [0.51, 1.95]		
Total (95% CI)		15		15	100.0%	1.00 [0.51, 1.95]		
Total events	8		8					
Heterogeneity: Not ap Test for overall effect		P = 1.00	D)				0.1	0.2 0.5 1 2 5 10 Favours ES->cSEMS Favours Surgical Bypass

Figure 176: Serum bilirubin level at 30 days

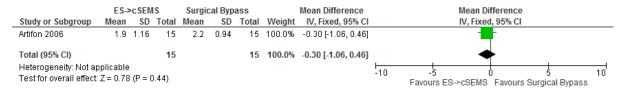


Figure 177: Number of patients with stent-related complications

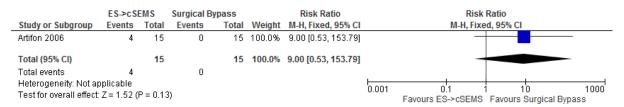


Figure 178: Treatment-related early complications

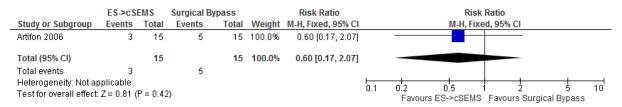


Figure 179: Treatment-related late complications

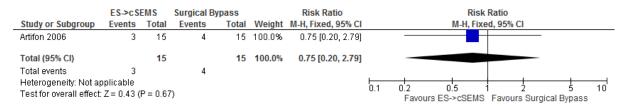


Figure 180: Post-operative complications

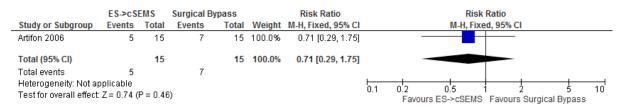


Figure 181: Number of patients with pneumonia

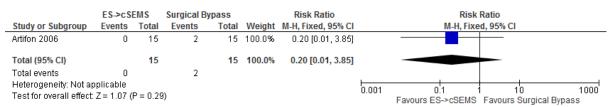


Figure 182: Number of patients with post-ERCP pancreatitis

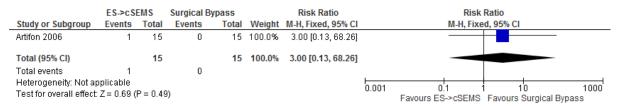
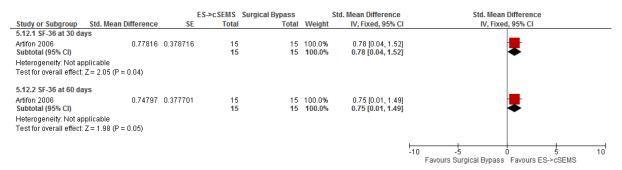


Figure 183: SF-36 Total (Quality of life) at 30 and 60 days



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

Figure 184: Total serum bilirubin at 7 and 30 days

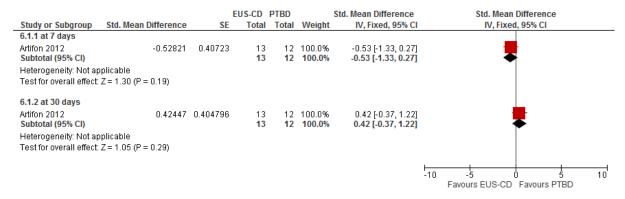


Figure 185: Treatment-related complications

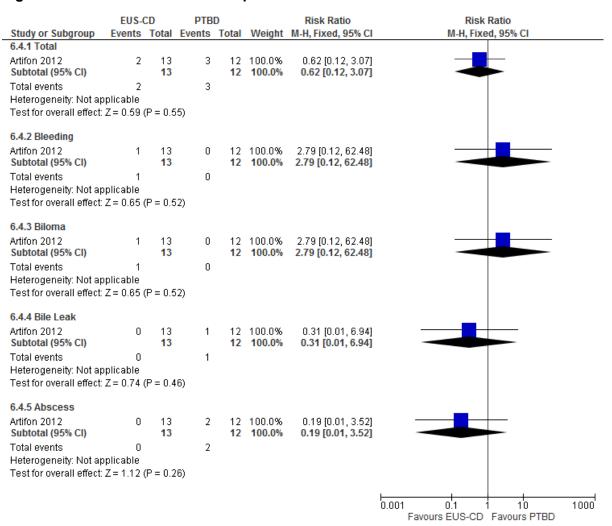
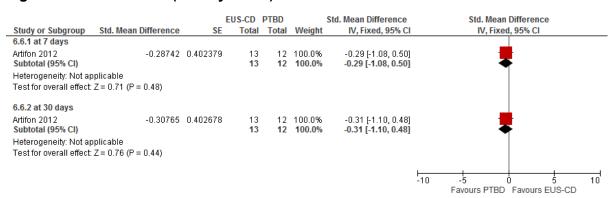


Figure 186: SF-36 Total (Quality of life)



H.10.91 Endoscopic ultrasound-guided choledochoduodenostomy and stent versus 2 surgical bypass in adults with an unresectable malignant biliary obstruction

3 where ERCP has failed

Figure 187: Number of patients with ≥50% reduction in total serum bilirubin after 7 days

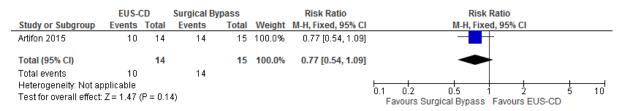


Figure 188: Total serum bilirubin at 7, 30, 60 and 90 days

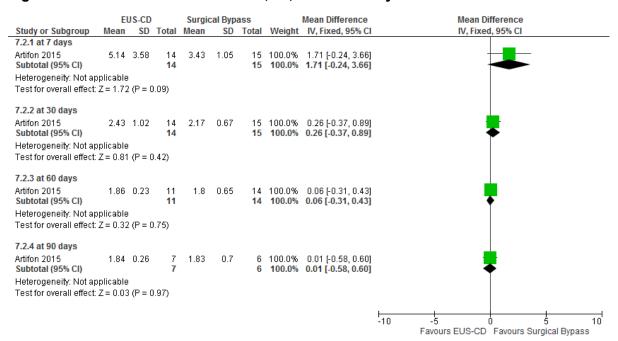


Figure 189: Treatment-related complications



Figure 190: Overall survival 90 days after surgery

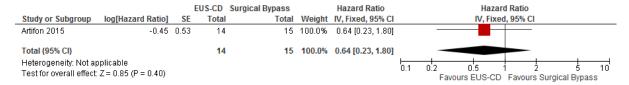


Figure 191: SF-36 Functional capacity at 7, 30, 60 and 90 days

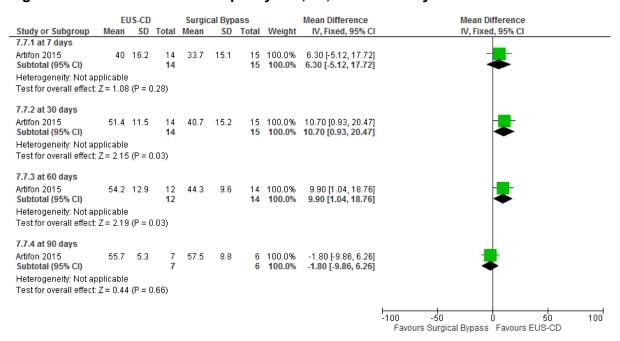


Figure 192: SF-36 Physical health at 7, 30, 60 and 90 days

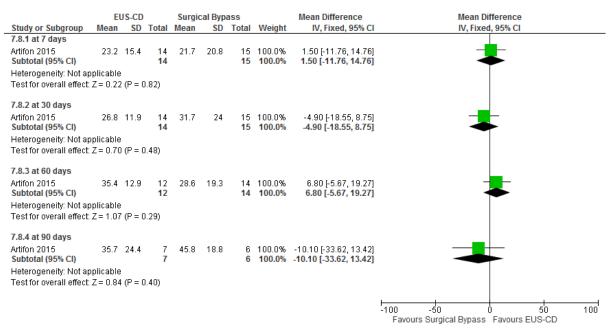


Figure 193: SF-36 Pain at 7, 30, 60 and 90 days

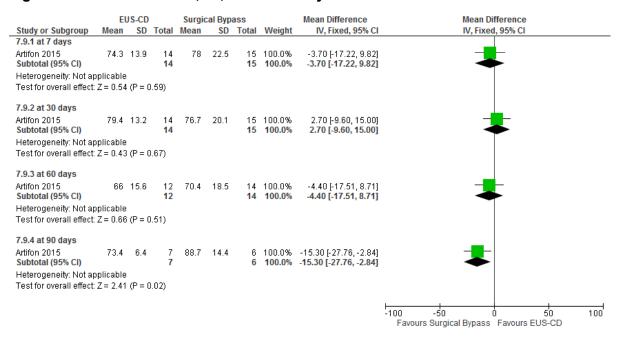


Figure 194: SF-36 General health at 7, 30, 60 and 90 days

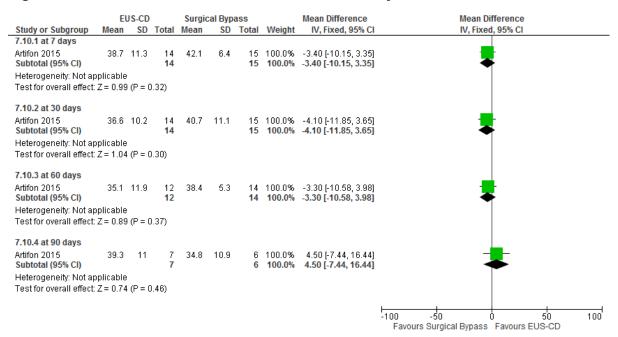


Figure 195: SF-36 Vitality at 7, 30, 60 and 90 days

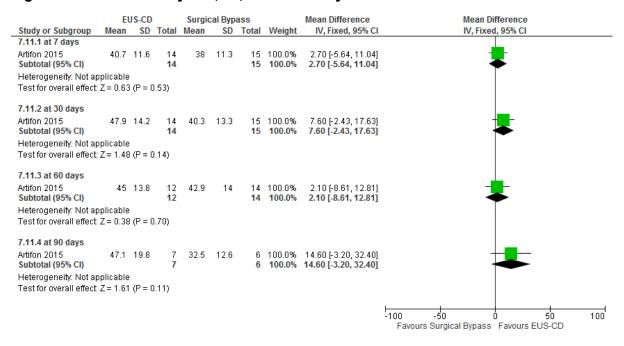


Figure 196: SF-36 Social role functioning at 7, 30, 60 and 90 days

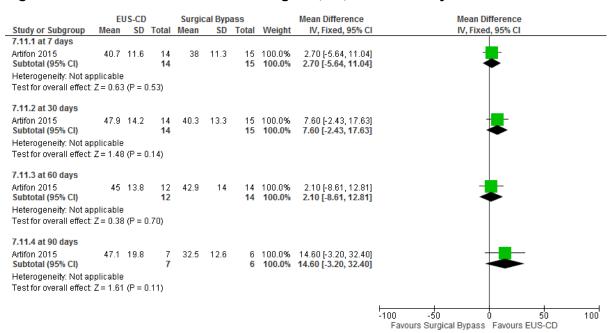


Figure 197: SF-36 Emotional role functioning at 7, 30, 60 and 90 days

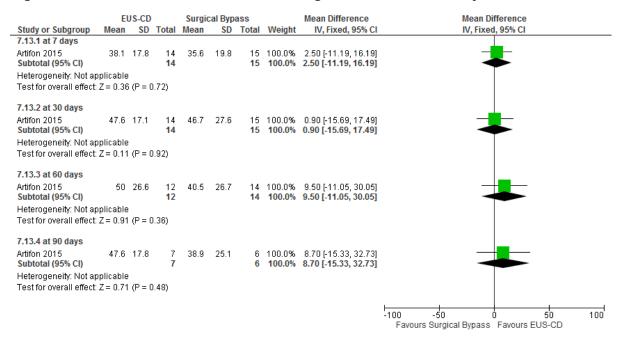
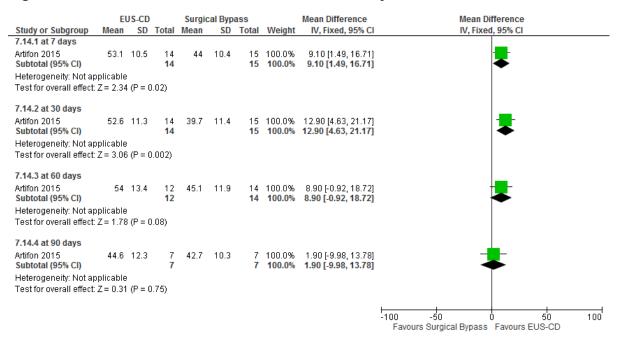


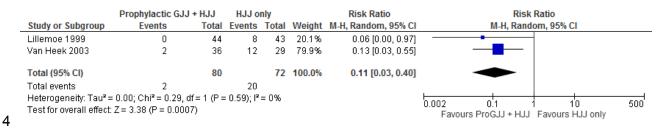
Figure 198: SF-36 Mental Health at 7, 30, 60 and 90 days



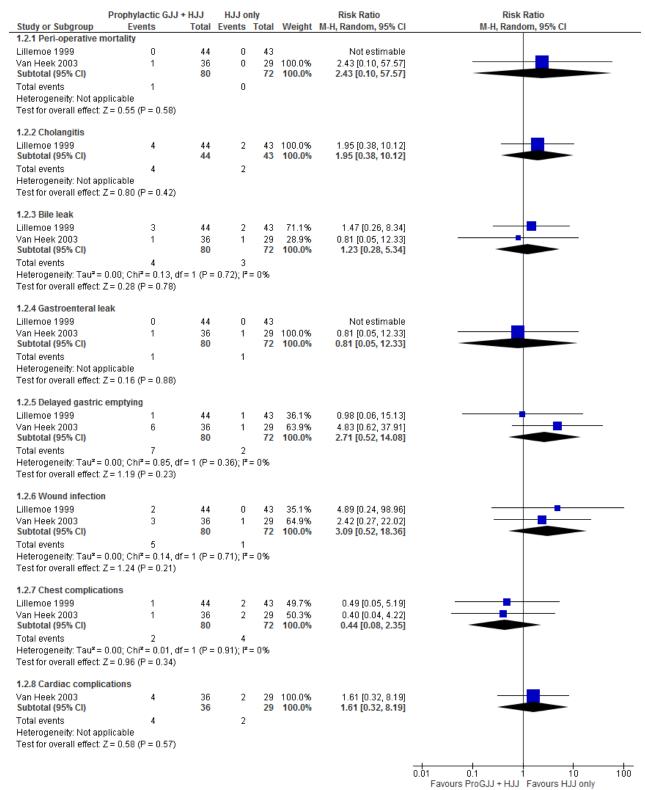
H.11₁ Duodenal obstruction

H.11.12 Prophylactic GJJ and hepaticojejunostomy versus hepaticojejunostomy only

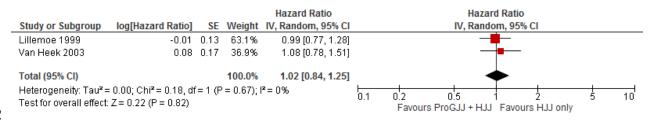
3 Figure 199: Gastric outlet obstruction at 1 month



1 Figure 200: Adverse events (Perioperative morbidity)

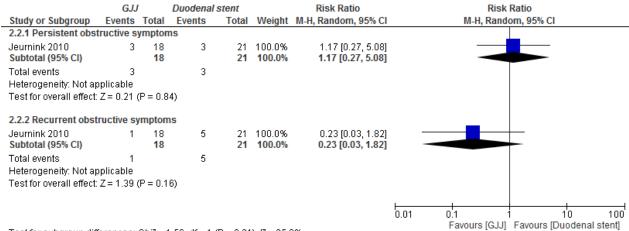


1 Figure 201: Overall survival



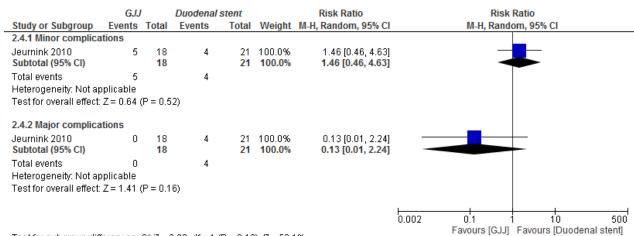
H.11.23 GJJ versus duodenal stent placement

4 Figure 202: Change in symptoms - Persistent obstructive symptoms



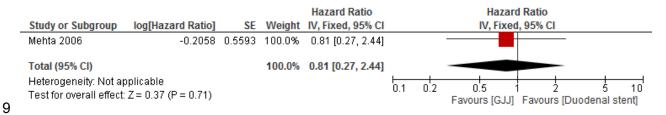
5 Test for subgroup differences: Chi² = 1.56, df = 1 (P = 0.21), I^2 = 35.9%

6 Figure 203: Adverse effects - Minor and Major complications

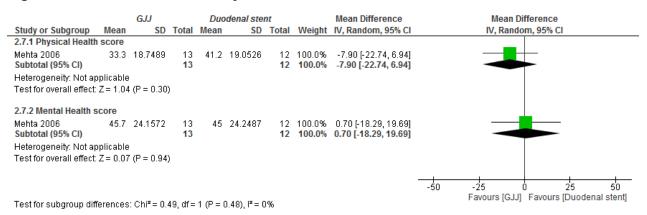


7 Test for subgroup differences: $Chi^2 = 2.39$, df = 1 (P = 0.12), $I^2 = 58.1\%$

8 Figure 204: Overall survival



1 Figure 205: Health-related Quality of Life: SF-36 at 1 month



2

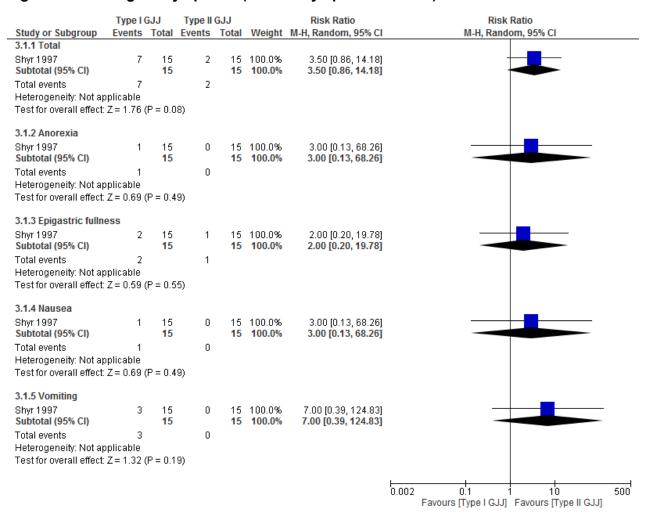
4

3 Figure 206: PROMS - Self-report Pain (Visual Analog Scale) at 1 month

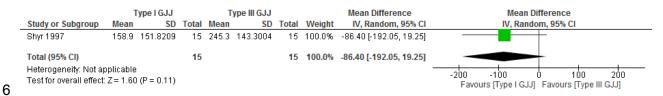
	Proh	ylactic G	JJ	No prohylactic GJJ				Mean Difference	Mean Difference		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI		
Mehta 2006	4.4	2.8844	13	2.4	3.1177	12	100.0%	2.00 [-0.36, 4.36]			
Total (95% CI)			13			12	100.0%	2.00 [-0.36, 4.36]	-		
Heterogeneity: Not ap Test for overall effect:			0)						-10 -5 0 5 10 Favours [GJJ] Favours [Duodenal stent]		

H.11.31 Type I GJJ (proximal to the Jejunal limb: Ligament of Treitz) versus Type II GJJ 2 (Pylorus)

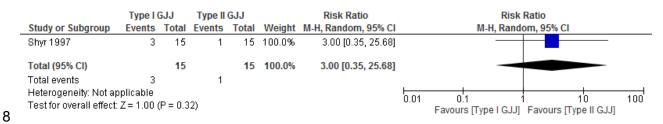
3 Figure 207: Change in symptoms (Clinical symptoms of GOO)



5 Figure 208: Nutritional status - Gastric emptying time (minutes)

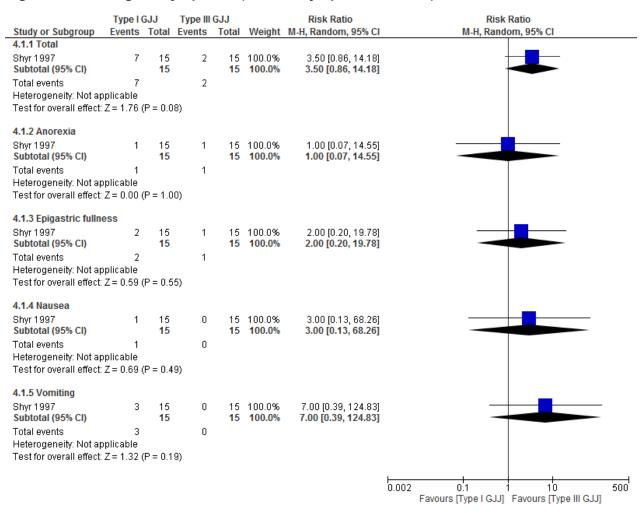


7 Figure 209: Nutritional status - Patients with delayed gastric emptying

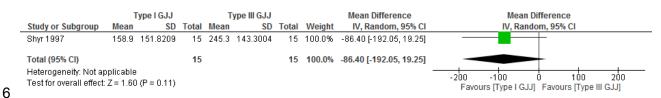


H.11.41 Type I GJJ (proximal to the Jejunal limb: Ligament of Treitz) versus Type III 2 GJJ (proximal to Roux-limb Jejunum)

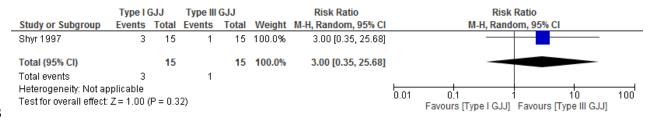
3 Figure 210: Change in symptoms (Clinical symptoms of GOO)



5 Figure 211: Nutritional status - Gastric emptying time (minutes)

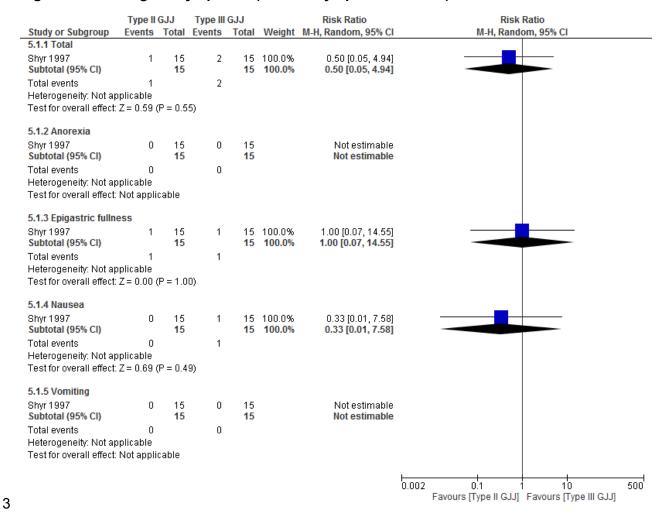


7 Figure 212: Nutritional status - Patients with delayed gastric emptying

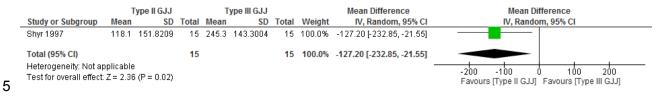


H.11.51 Type II GJJ (Pylorus) versus Type III GJJ (proximal to Roux-limb Jejunum)

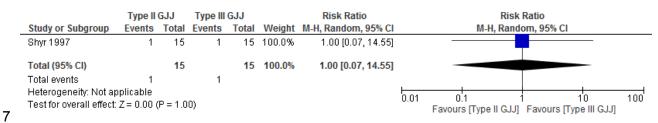
2 Figure 213: Change in symptoms (Clinical symptoms of GOO)



4 Figure 214: Nutritional status - Gastric emptying time (minutes)

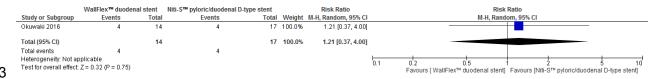


6 Figure 215: Nutritional status - Patients with delayed gastric emptying



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

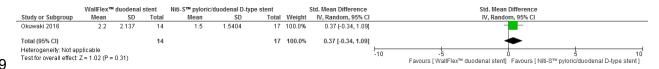
2 Figure 216: Relief of obstruction - Duodenal obstruction recurrence



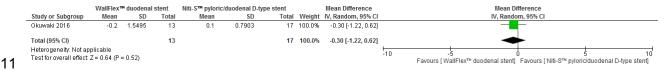
4 Figure 217: Change in symptoms - Mean change in Nausea and Vomiting Scoring System (NVSS) score



7 Figure 218: Nutritional status - Mean change in gastric outlet obstruction (GOO) score 8 at 2 weeks recurrence



10 Figure 219: Nutritional status- Mean change in BMI at 4 weeks



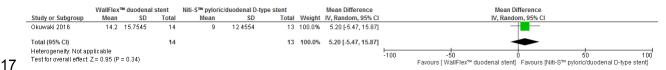
12 Figure 220: Adverse events (procedure-related)



14 Figure 221: Overall survival



16 Figure 222: HRQL - Mean change in Karnofsky performance score at 2 weeks



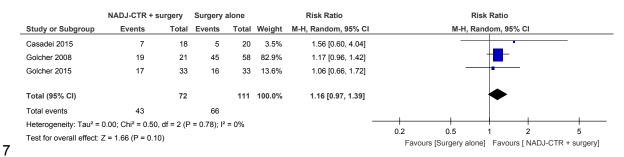
1 Figure 223: HRQL - Mean change in Performance score at 2 weeks



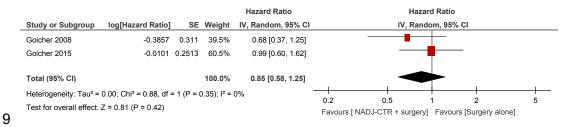
H.123 Neo-adjuvant treatment

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

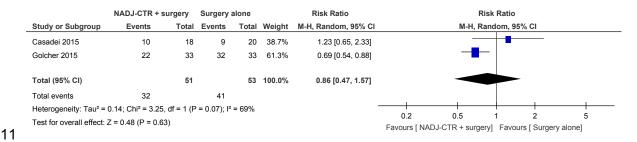
6 Figure 224: R0 resection rate



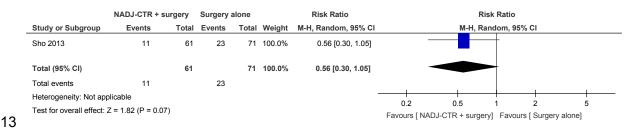
8 Figure 225: Overall survival



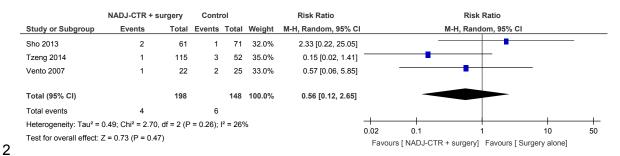
10 Figure 226: Postoperative complications



12 Figure 227: Postoperative complications (Pancreatic fistula)



1 Figure 228: Postoperative complications (Postoperative bleeding)

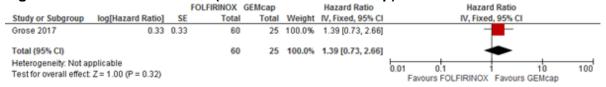


- H.12.23 Neoadjuvant chemotherapy then neoadjuvant chemoradiotherapy followed by 4 surgery then adjuvant chemotherapy versus neoadjuvant chemotherapy
 - 5 followed by surgery then adjuvant chemotherapy in adults with resectable or
 - 6 borderline resectable pancreatic cancer

Figure 229: Response to neoadjuvant treatment prior to surgery (FOLFIRINOX vs GEMcap)

	FOLFIRI	NOX	GEMc	ар		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI	
Grose 2017	11	64	1	19	100.0%	3.27 [0.45, 23.70]		
Total (95% CI)		64		19	100.0%	3.27 [0.45, 23.70]		
Total events	11		1					
Heterogeneity: Not ap							0.01 0.1 1 10 10	4
Test for overall effect:	Z = 1.17 (P = 0.24	4)				Favours FOLFIRINOX Favours GEMcap	

Figure 230: Overall survival (FOLFIRINOX vs GEMcap)





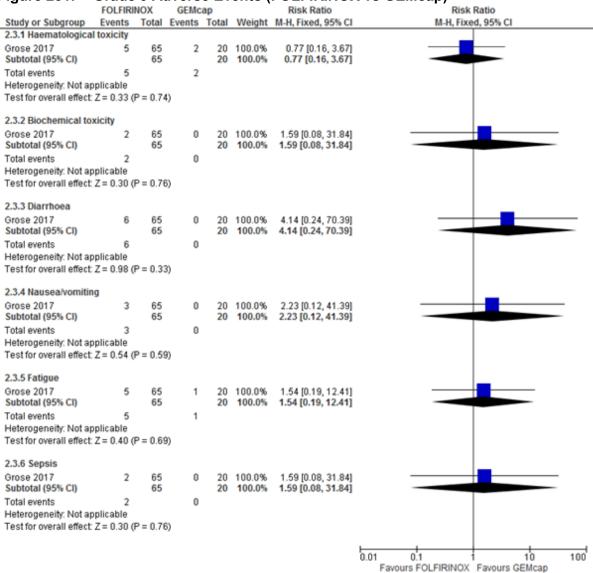


Figure 232: Grade 4 Adverse Events (FOLFIRINOX vs GEMcap)

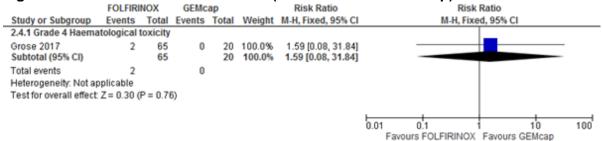


Figure 233: R0 (complete) resection rate (CRT then Surgery vs Surgery)

	CRT + Su	rgery	Surge	ery		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Grose 2017	12	17	7	15	100.0%	1.51 [0.81, 2.82]	_
Total (95% CI)		17		15	100.0%	1.51 [0.81, 2.82]	
Total events	12		7				
Heterogeneity: Not as	pplicable						0.1 0.2 0.5 1 2 5 10
Test for overall effect	Z = 1.30 (P	= 0.19)					Favours Surgery Favours CRT + Surgery

Figure 234: R1 resection rate (CRT then Surgery vs Surgery)

	CRT + Sur	RT + Surgery Surgery Risk Ratio				Risk Ratio	Risk Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI			
Grose 2017	5	17	8	15	100.0%	0.55 [0.23, 1.32]				
Total (95% CI)		17		15	100.0%	0.55 [0.23, 1.32]				
Total events	5		8							
Heterogeneity: Not ap	plicable						01 02 05 1 2 5 10			
Test for overall effect:	Z = 1.33 (P	= 0.18)					Favours CRT + Surgery Favours Surgery			

H.131 Resectable and borderline resectable pancreatic cancer

- H.13.12 Minimally invasive (laparoscopic and robotic) pancreaticoduodenectomy
 - 3 versus open pancreaticoduodenectomy
 - 4 Figure 235: Postoperative Mortality (cohort studies)

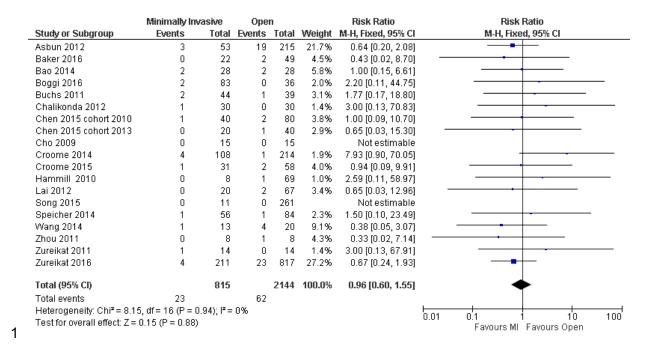
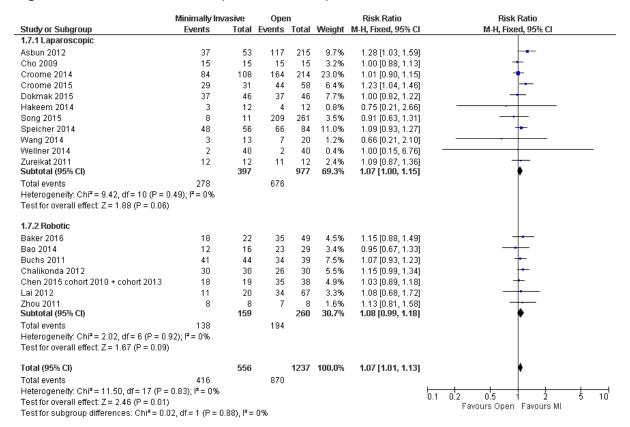


Figure 236: Postoperative Mortality (Registry studies)

9	Joseph J.			~,	/· ·~3·	ou, journiou,	
_	Minimally Im	/asive	Оре	en		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
Abdelgadir Adam 2015	50	983	188	6078	35.6%	1.64 [1.21, 2.23]	-
Sharpe 2015	20	385	117	4037	31.2%	1.79 [1.13, 2.85]	_
Tran 2016	25	681	744	14893	33.2%	0.73 [0.50, 1.09]	
Total (95% CI)		2049		25008	100.0%	1.29 [0.74, 2.25]	-
Total events	95		1049				
Heterogeneity: Tau² = 0.3	20; Chi ^z = 12.64	4, df = 2 ((P = 0.002)	2); I * = 84	1%		01 02 05 1 2 5 10
Test for overall effect: Z =	0.91 (P = 0.36)					Favours MI Favours Open

1 Figure 237: R0 resection rate (cohort studies)



2

Figure 238: R0 resection rate (Registry studies)

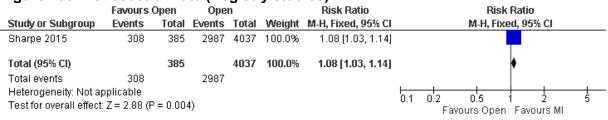
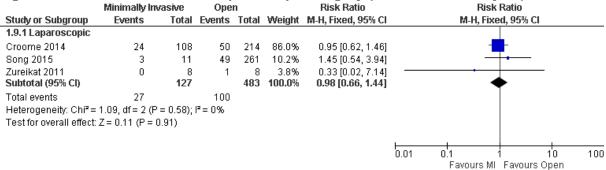


Figure 239: R1 resection rate – laparoscopic surgery (fixed effects analysis)



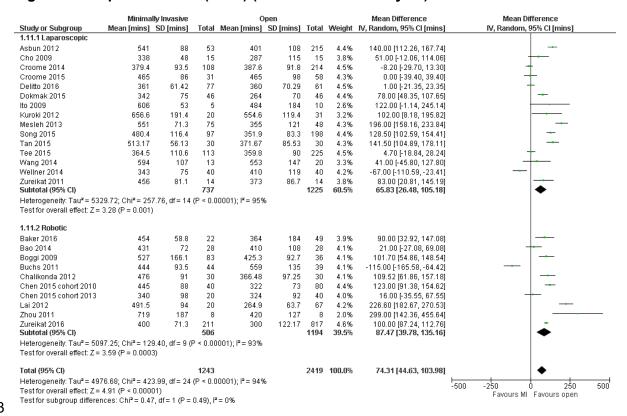
2

Figure 240: R1 resection rate – robotic surgery (random effects analysis)

	Minimally In	vasive	Ope	n		Risk Ratio		Ri	sk Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI		M-H, Ra	ndom, 95	% CI	
1.10.1 Robotic											
Boggi 2016	2	16	6	13	26.8%	0.27 [0.07, 1.12]		-	-		
Chen 2015 cohort 2010 + cohort 2013	1	19	3	38	17.4%	0.67 [0.07, 5.99]			•	_	
Zhou 2011	0	2	1	2	12.8%	0.33 [0.02, 5.33]		-		_	
Zureikat 2016	35	70	139	452	43.0%	1.63 [1.24, 2.13]			-		
Subtotal (95% CI)		107		505	100.0%	0.70 [0.22, 2.28]			-		
Total events	38		149								
Heterogeneity: Tau² = 0.82; Chi² = 8.02, i	df = 3 (P = 0.09)	5); I² = 63	%								
Test for overall effect: Z = 0.59 (P = 0.56)	ı										
						F	.01	0.1	+	10	1
						·			MI Favou		

Test for subgroup differences: Not applicable

2 Figure 241: Operation time (mins) (random effects analysis)



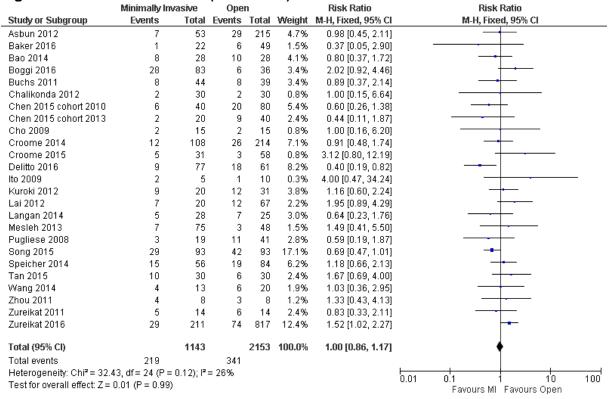
4 Figure 242: Delayed Gastric Emptying

	Minimally Inv	asive	Ope	n		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Asbun 2012	6	53	32	215	6.9%	0.76 [0.34, 1.72]	
Baker 2016	3	22	15	49	5.1%	0.45 [0.14, 1.38]	
Bao 2014	4	28	4	28	2.2%	1.00 [0.28, 3.61]	
Boggi 2009	46	83	22	36	16.8%	0.91 [0.66, 1.25]	
Buchs 2011	2	44	1	39	0.6%	1.77 [0.17, 18.80]	
Chalikonda 2012	1	30	1	30	0.5%	1.00 [0.07, 15.26]	
Chen 2015 cohort 2010	4	40	12	80	4.4%	0.67 [0.23, 1.94]	
Chen 2015 cohort 2013	1	20	6	40	2.2%	0.33 [0.04, 2.58]	
Cho 2009	1	15	0	15	0.3%	3.00 [0.13, 68.26]	
Croome 2014	10	108	39	214	14.3%	0.51 [0.26, 0.98]	-
Ito 2009	1	5	1	10	0.4%	2.00 [0.16, 25.75]	
Kuroki 2012	3	20	3	31	1.3%	1.55 [0.35, 6.94]	
Lai 2012	1	20	8	67	2.0%	0.42 [0.06, 3.15]	
Mesleh 2013	10	75	4	48	2.7%	1.60 [0.53, 4.81]	 -
Song 2015	3	93	7	93	3.8%	0.43 [0.11, 1.61]	
Tan 2015	2	30	3	30	1.6%	0.67 [0.12, 3.71]	
Tee 2015	27	113	79	225	28.8%	0.68 [0.47, 0.99]	
Wang 2014	1	13	0	20	0.2%	4.50 [0.20, 102.76]	
Wellner 2014	5	40	11	40	6.0%	0.45 [0.17, 1.19]	
Total (95% CI)		852		1310	100.0%	0.72 [0.59, 0.88]	◆
Total events	131		248				
Heterogeneity: Chi² = 12.7		0.81); l²:	= 0%				
Test for overall effect: Z=							'0.01 0.1 1 1'0 100' Favours MI Favours Open

3 4

5

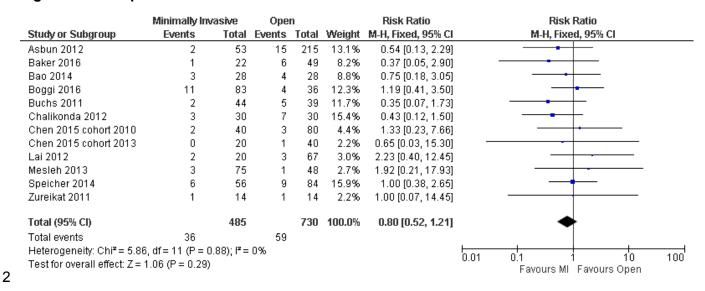
Figure 243: Pancreatic fistula (Grade A-C)



2 Figure 244: Pancreatic Fistula – Clinically relevant (Grade B-C)

	Minimally Inva	sive	Oper	n		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Asbun 2012	4	53	15	215	4.0%	1.08 [0.37, 3.13]	
Bao 2014	6	28	6	28	4.0%	1.00 [0.37, 2.73]	
Chalikonda 2012	2	30	5	30	3.4%	0.40 [0.08, 1.90]	
Chen 2015 cohort 2010 + cohort 2013	5	60	18	120	8.0%	0.56 [0.22, 1.42]	
Cho 2009	2	15	2	15	1.3%	1.00 [0.16, 6.20]	
Croome 2014	12	108	26	214	11.7%	0.91 [0.48, 1.74]	
Dokmak 2015	20	46	15	46	10.1%	1.33 [0.78, 2.27]	 -
Kuroki 2012	3	20	6	31	3.2%	0.78 [0.22, 2.75]	
Lai 2012	7	20	1	67	0.3%	23.45 [3.06, 179.43]	
Mesleh 2013	7	75	3	48	2.5%	1.49 [0.41, 5.50]	
Song 2015	6	93	6	93	4.0%	1.00 [0.33, 2.99]	
Speicher 2014	15	56	19	84	10.2%	1.18 [0.66, 2.13]	- - -
Tan 2015	1	30	3	30	2.0%	0.33 [0.04, 3.03]	
Tee 2015	26	113	57	225	25.6%	0.91 [0.61, 1.36]	-
Wang 2014	1	13	3	20	1.6%	0.51 [0.06, 4.41]	
Wellner 2014	7	40	11	40	7.4%	0.64 [0.27, 1.47]	
Zureikat 2011	0	9	1	14	0.8%	0.50 [0.02, 11.09]	
Total (95% CI)		809		1320	100.0%	0.99 [0.81, 1.21]	•
Total events	124		197				
Heterogeneity: Chi ² = 16.93, df = 16 (P =	0.39); $I^2 = 6\%$						
Test for overall effect: Z = 0.11 (P = 0.91)							0.01 0.1 1 10 100 100
							Favours MI Favours Open

1 Figure 245: Reoperation



3

4 Figure 246: Blood Loss (mls) (random effects analysis)

		ally invas			Open			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
1.16.1 Laparoscopic									
Cho 2009	445	384	15	552	336	15	5.4%	-107.00 [-365.22, 151.22]	
Croome 2014	492.4	519.3	108	866.7	733.7	214	7.0%	-374.30 [-513.06, -235.54]	-
Croome 2015	841.8	994.8	31	1,452.1	1,966.7	58	2.1%	-610.30 [-1225.78, 5.18]	
Delitto 2016	260	316	77	518	421.75	61	7.1%	-258.00 [-385.21, -130.79]	
Dokmak 2015	592	376	97	555	462	198	7.4%	37.00 [-61.69, 135.69]	+
Ito 2009	268	288	5	764	412	10	4.1%	-496.00 [-855.07, -136.93]	
Kuroki 2012	376.6	291.4	20	1,509.5	1,000.2	31	4.0%	-1132.90 [-1507.44, -758.36]	←
Song 2015	609	375	93	570	448	93	7.2%	39.00 [-79.74, 157.74]	+
Tee 2015	344.7	346.5	113	868.8	1,118.2	225	6.7%	-524.10 [-683.57, -364.63]	
Wang 2014	450	1,217	13	1,000	1,550	20	1.1%	-550.00 [-1498.22, 398.22]	
Zureikat 2011	300	167	14	400	556	14	4.8%	-100.00 [-404.10, 204.10]	
Subtotal (95% CI)			586			939	56.8%	-317.11 [-495.20, -139.02]	•
1.16.2 Robotic									
Baker 2016	425	538	22	650	1,488	49	3.0%	-225.00 [-698.42, 248.42]	
Bao 2014	100	185	28	300	519	28	6.1%	-200.00 [-404.08, 4.08]	
Buchs 2011	387	334	44	827	439	39	6.6%	-440.00 [-609.48, -270.52]	
Chalikonda 2012	485	863	30	775	1,225	30	2.6%	-290.00 [-826.21, 246.21]	
Chen 2015 cohort 2010	500	317	40	500	296	80	7.2%	0.00 [-117.72, 117.72]	+
Chen 2015 cohort 2013	200	259	20	500	296	40	6.9%	-300.00 [-445.94, -154.06]	
Lai 2012	358.25	209.75	20	775	1,988	67	3.0%	-416.75 [-901.57, 68.07]	
Zhou 2011	153	43	8	210	53	8	7.8%	-57.00 [-104.29, -9.71]	-
Subtotal (95% CI)			212			341	43.2%	-205.89 [-336.17, -75.61]	•
	05.23; Ch	$i^2 = 31.93$	3, df = 7	(P < 0.00	01); $I^2 = 7$	8%			
Heterogeneity: Tau² = 210		0.000							
	3.10 (P = l	0.002)							
Heterogeneity: Tau ^z = 210 Test for overall effect: Z = Total (95% CI)	3.10 (P = I	0.002)	798			1280	100.0%	-261.75 [-367.14, -156.36]	•
Test for overall effect: Z =	192.23; Ch	ni²= 126.9	92, df=	18 (P < 0.	00001); P			-261.75 [-367.14, -156.36]	-1000 -500 0 500 10

5

Test for subgroup differences: Chi² = 0.98, df = 1 (P = 0.32), I² = 0%

1 Figure 247: Retrieved Lymph Nodes (cohort studies) (random effects analysis)

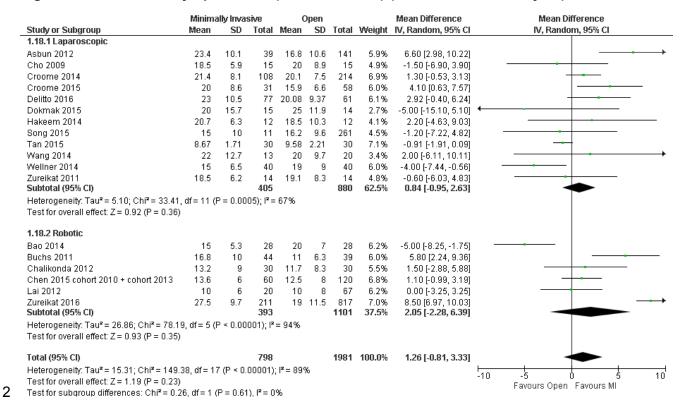


Figure 248: Retrieved Lymph Nodes (Registry studies)

			Minimally Invasive	Open		Std. Mean Difference		Std. N	ilean D	ifference	
Study or Subgroup	Std. Mean Difference	SE	Total	Total	Weight	IV, Fixed, 95% CI		IV,	Fixed,	95% CI	
Sharpe 2015	-0.20771	0.053385	385	4037	100.0%	-0.21 [-0.31, -0.10]					
Total (95% CI)			385	4037	100.0%	-0.21 [-0.31, -0.10]			1		
Heterogeneity: Not ap Test for overall effect:	oplicable Z = 3.89 (P < 0.0001)						-10	-5 Favours C) pen l	5 Favours MI	10

4

Figure 249: Hospital stay (days) (cohort studies)

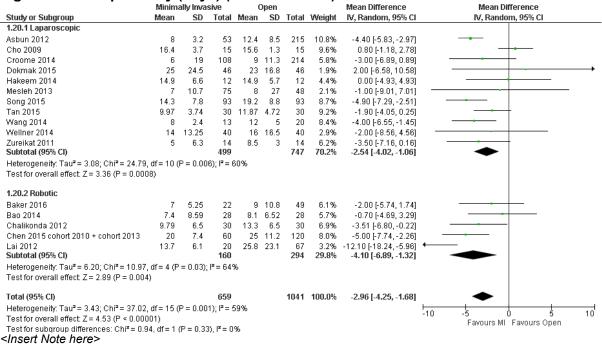


Figure 250: Hospital stay (days) (Registry studies)

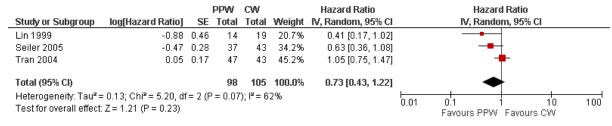
			Minimally Invasive	Open		Std. Mean Difference		Std. Mean	Difference	
Study or Subgroup	Std. Mean Difference	SE	Total	Total	Weight	IV, Fixed, 95% CI		IV, Fixed	i, 95% CI	
Sharpe 2015	-0.20771	0.053385	385	4037	35.0%	-0.21 [-0.31, -0.10]		-		
Tran 2016	-0.12897	0.039193	681	14893	65.0%	-0.13 [-0.21, -0.05]		-		
Total (95% CI)			1066	18930	100.0%	-0.16 [-0.22, -0.09]		•		
	1.41, df = 1 (P = 0.23); P Z = 4.96 (P < 0.00001)	= 29%					-1	-0.5 Favours MI	0 0.5 Favours Open	1

2

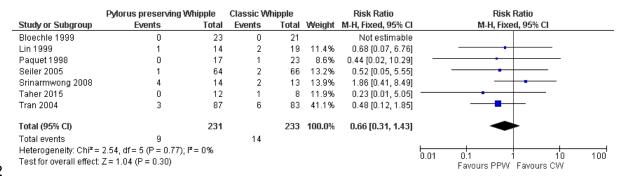
1

H.13.23 Pylorus preserving Whipple versus classic Whipple

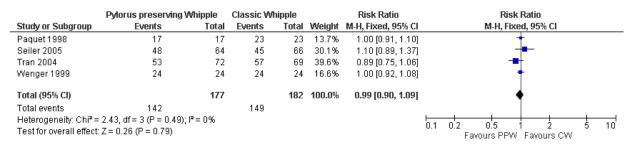
4 Figure 251: Overall Survival (Pancreatic Head Carcinoma)



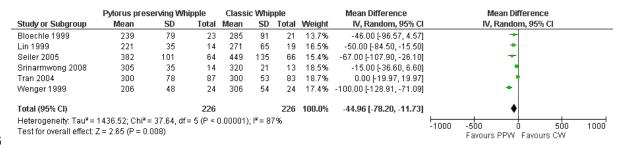
1 Figure 252: Postoperative Mortality



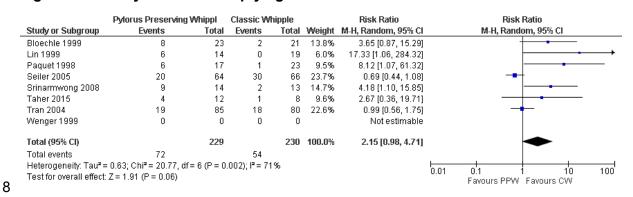
3 Figure 253: R0 Resection



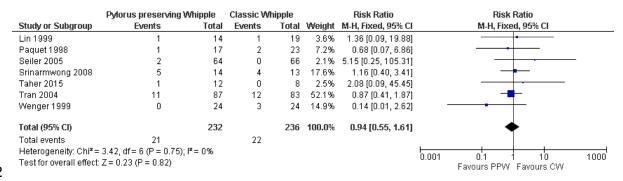
5 Figure 254: Operation Time (Minutes)



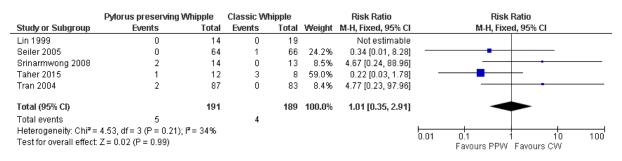
7 Figure 255: Delayed Gastric Emptying



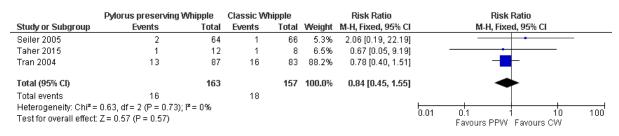
1 Figure 256: Pancreatic Fistula



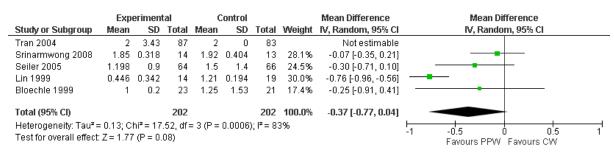
3 Figure 257: Biliary Leakage



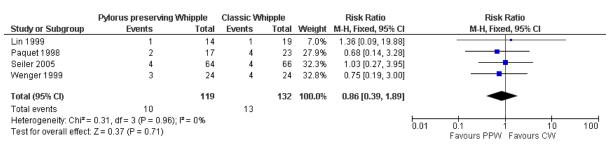
5 Figure 258: Reoperation rate



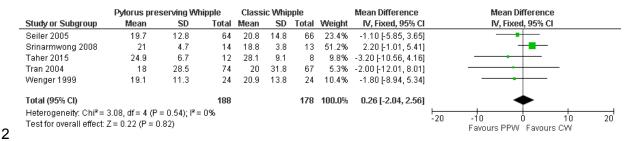
7 Figure 259: Intraoperative Blood Loss (litres)



9 Figure 260: Surgical site Infection

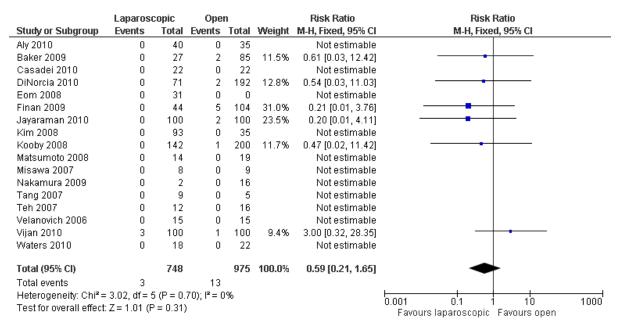


1 Figure 261: Hospital Stay (days)

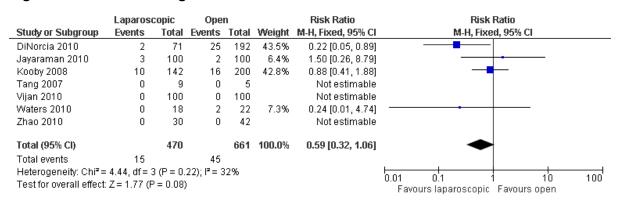


H.13.33 Minimally invasive laparoscopic distal pancreatectomy versus open 4 pancreatectomy

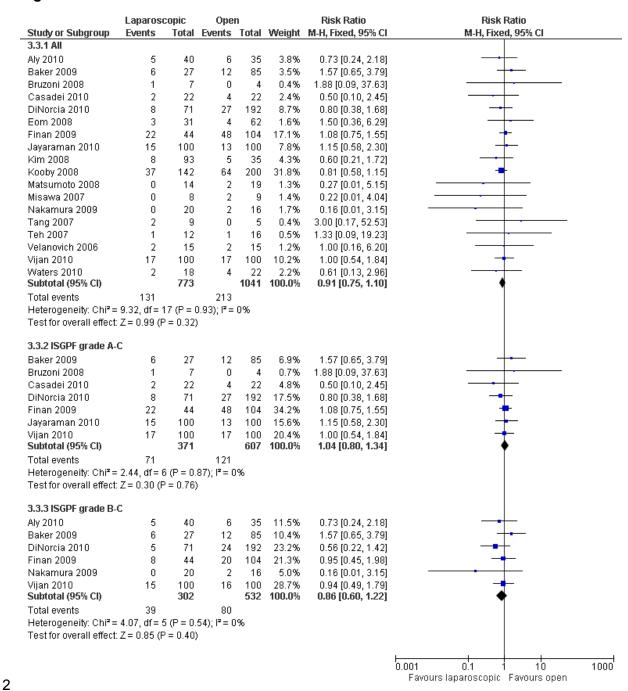
5 Figure 262: Mortality



7 Figure 263: Positive Margins



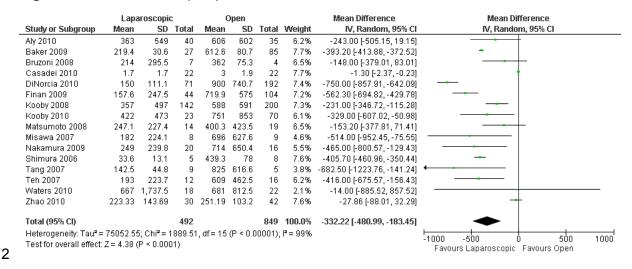
1 Figure 264: Pancreatic Fistula



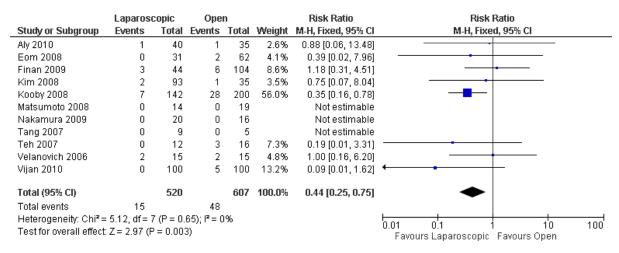
3 Figure 265: Reoperation

	Laparos	copic	Ope	n		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
DiNorcia 2010	4	71	7	192	31.7%	1.55 [0.47, 5.12]	- • -
Jayaraman 2010	2	100	4	100	33.5%	0.50 [0.09, 2.67]	
Kooby 2008	1	142	5	200	34.8%	0.28 [0.03, 2.39]	
Tang 2007	0	9	0	5		Not estimable	
Teh 2007	0	12	0	16		Not estimable	
Total (95% CI)		334		513	100.0%	0.76 [0.33, 1.75]	•
Total events	7		16				
Heterogeneity: Chi ² =	2.42, df = 3	2 (P = 0.	$30); I^2 = 1$	7%			100 100
Test for overall effect:	Z = 0.65 (F	e = 0.51))				0.01 0.1 1 10 100 Favours laparoscopic Favours open

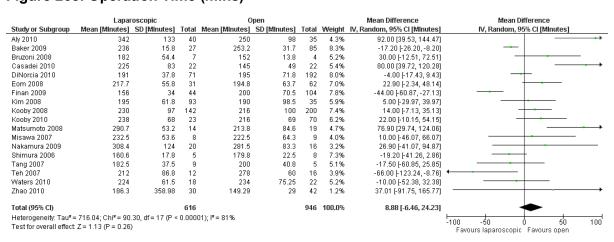
1 Figure 266: Blood Loss (mls)



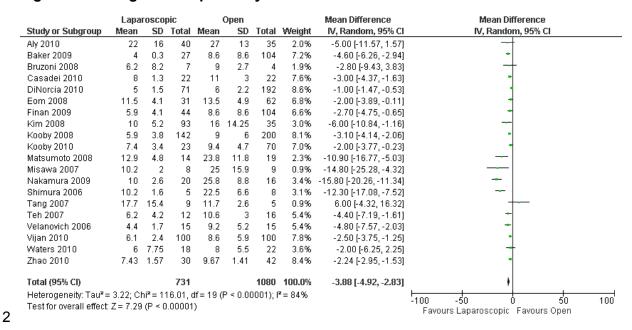
3 Figure 267: Surgical Site Infection



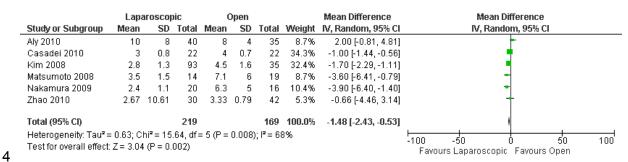
5 Figure 268: Operation Time (mins)



1 Figure 269: Length of hospital stay



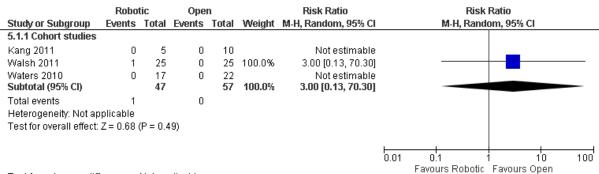
3 Figure 270: Time to oral intake



5

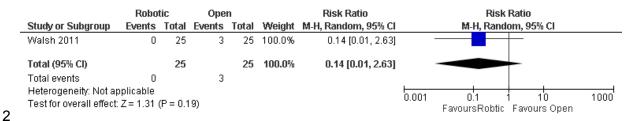
H.13.46 Minimally invasive robotic pancreatectomy versus open pancreatectomy

7 Figure 271: Postoperative Mortality

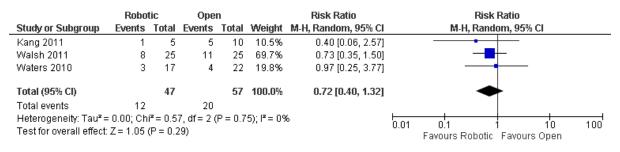


8 Test for subgroup differences: Not applicable

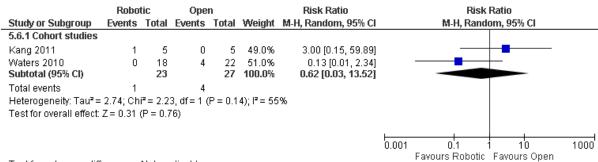
1 Figure 272: Positive Margin Rate



3 Figure 273: Overall complication rate

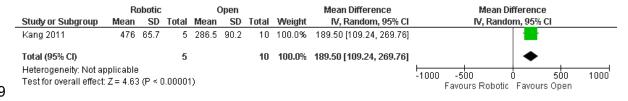


5 Figure 274: Pancreatic Fistula

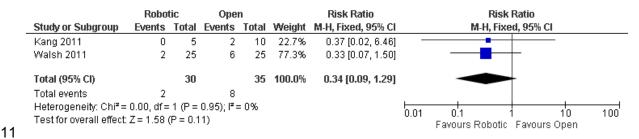


6 Test for subgroup differences: Not applicable

8 Figure 275: Operation time (mins)

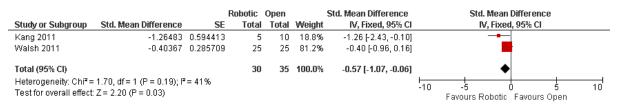


10 Figure 276: Reoperation rate



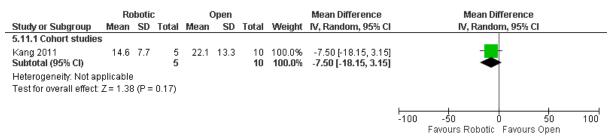
12

1 Figure 277: Blood loss (mls)



2

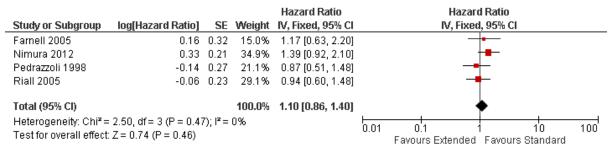
4 Figure 278: Length of hospital stay (days)



5

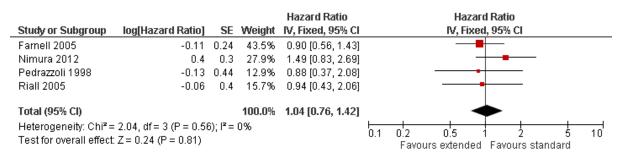
H.13.56 Extended lymphadenectomy versus standard lymphadenectomy

7 Figure 279: Overall Survival

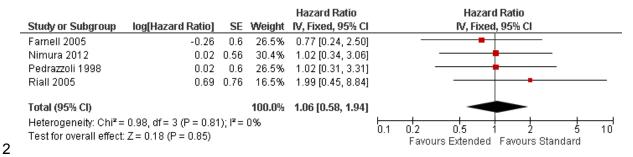


8

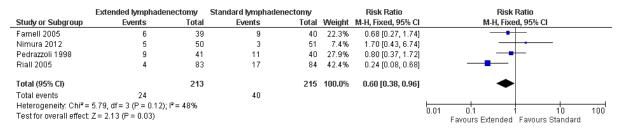
9 Figure 280: Lymph Node Positive



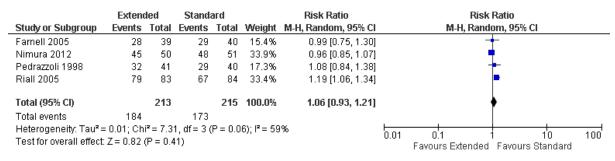
1 Figure 281: Lymph Node Negative



3 Figure 282 Positive Margins



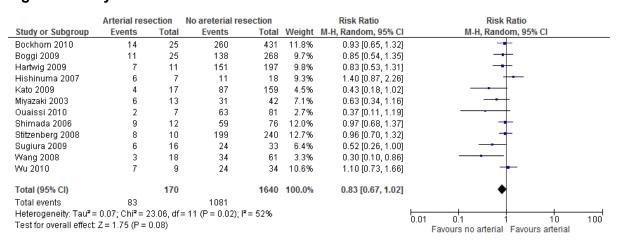
5 Figure 283: Negative Margins



H.13.67 Arterial resection versus no arterial resection

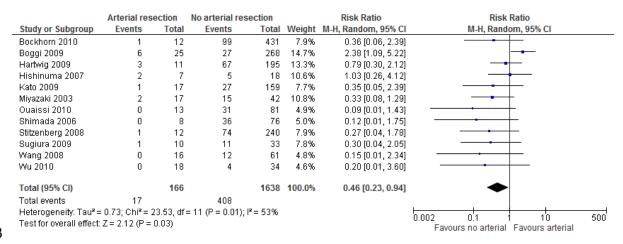
8 Figure 284: 1-year Overall Survival

6

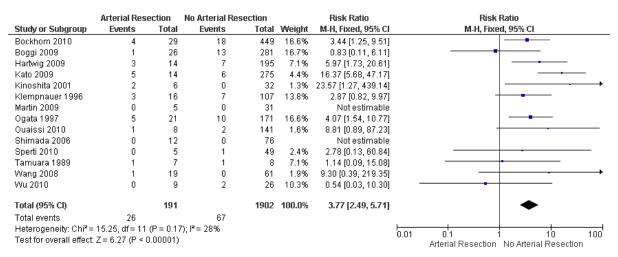


1

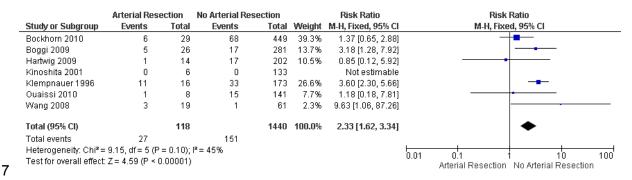
2 Figure 285: 3-Year Overall Survival



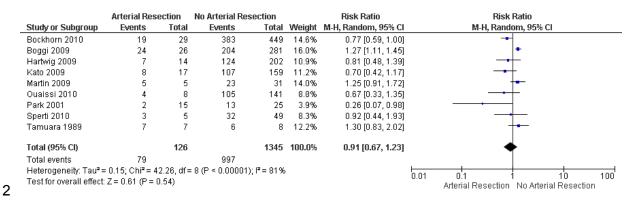
4 Figure 286: Post-operative Mortality



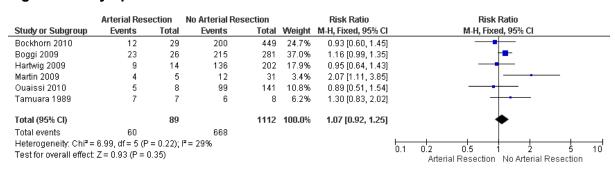
6 Figure 287: Reoperation Rate



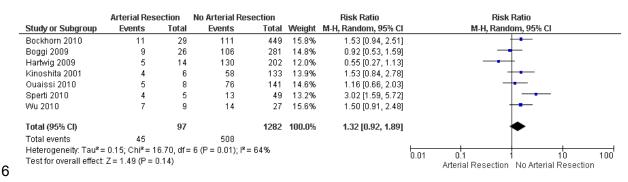
1 Figure 288: R0 Resection Rate



3 Figure 289: Lymph Node Positive

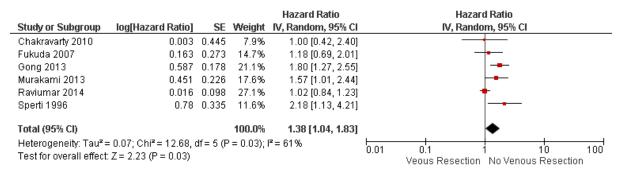


5 Figure 290: Post-operative Morbidity



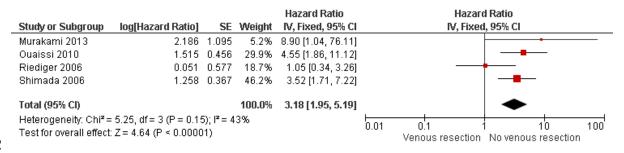
H.13.78 Venous resection versus no venous resection

9 Figure 291: 1-year overall survival

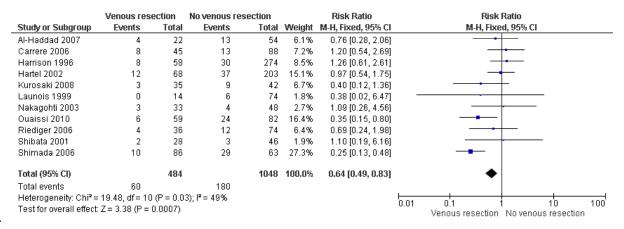


10

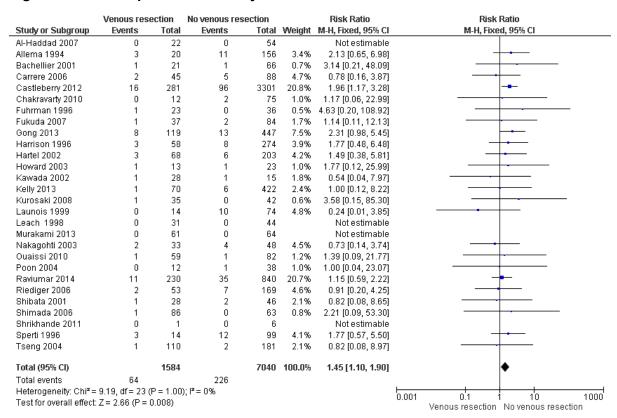
1 Figure 292: 5-year overall survival



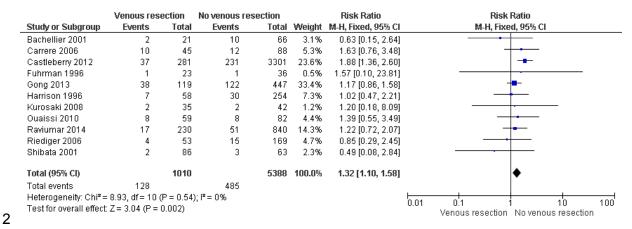
3 Figure 293: 5-year overall survival (all survival data)



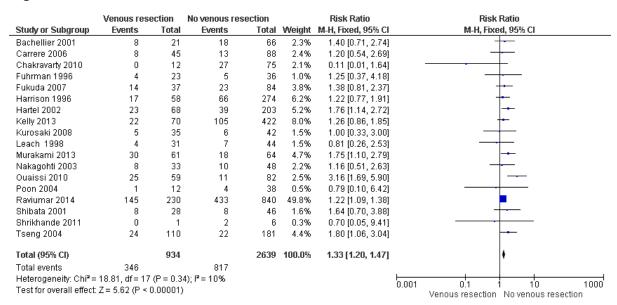
5 Figure 294: Post-operative Mortality



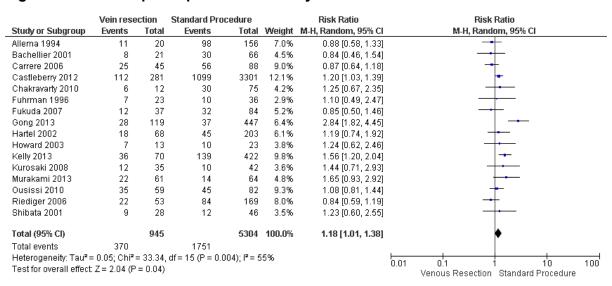
1 Figure 295: Reoperation Rate



3 Figure 296: R1-R2 resection Rate



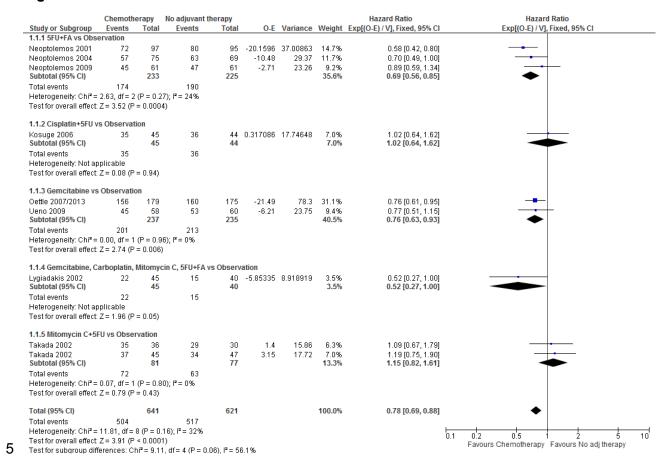
5 Figure 297: Overall post-operative morbidity



H.141 Adjuvant treatment

H.14.12 Adjuvant chemotherapy versus no adjuvant therapy in resected pancreatic 3 cancer patients

4 Figure 298: Overall survival



1 Figure 299: Disease-free survival

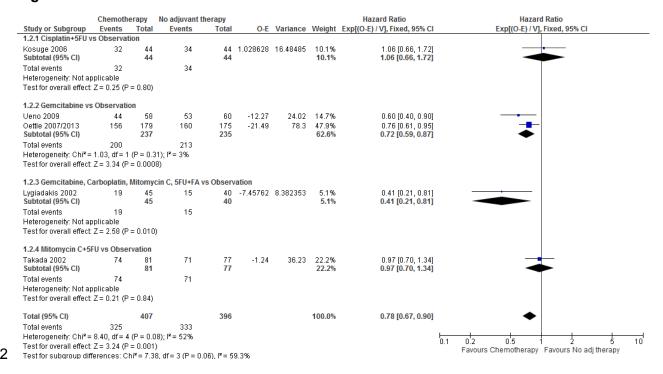
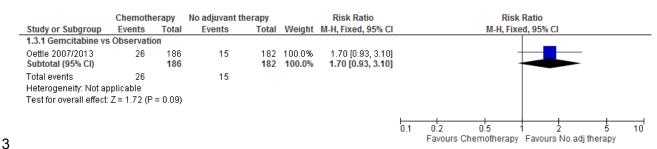
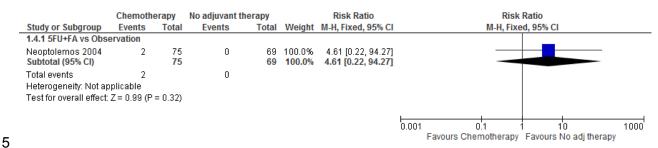


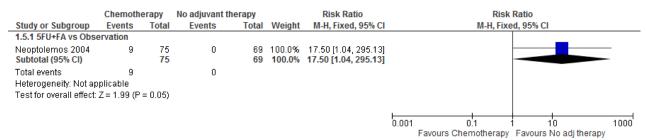
Figure 300: # patients with serious adverse events



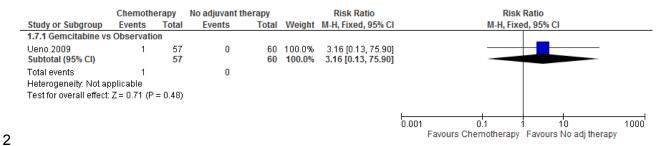
4 Figure 301: # patients with any Grade 3 or 4 haematological toxicity



6 Figure 302: # patients with Grade 3 or 4 non-haematological toxicity



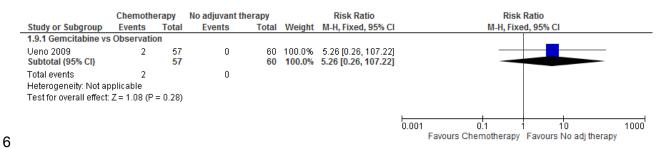
1 Figure 303: # patients with Grade 3 or 4 abscess



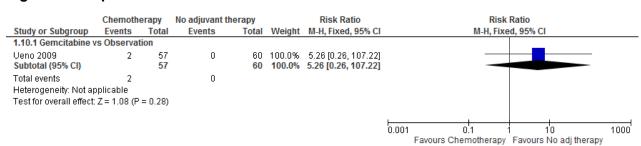
3 Figure 304: # patients with Grade 3 or 4 alanine aminotransferase

	Chemothe	егару	No adjuvant t	herapy		Risk Ratio		Risk Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, Fixe	ed, 95% CI		
1.8.1 Gemcitabine vs	observation of the contraction o	on									
Ueno 2009 Subtotal (95% CI)	4	57 57	0	60 60		9.47 [0.52, 171.95] 9.47 [0.52, 171.95]					
Total events Heterogeneity: Not ap Test for overall effect:		= 0.13)	0								
							0.005		1 10 Favours No adj therapy	201	

5 Figure 305: # patients with Grade 3 or 4 anaemia

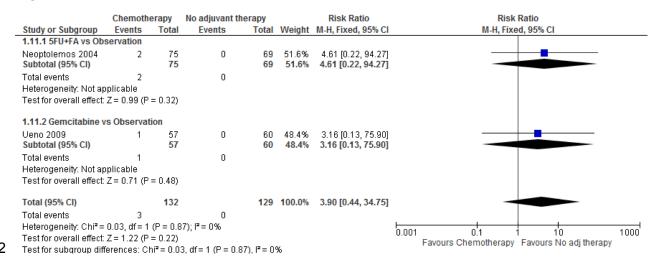


7 Figure 306: # patients with Grade 3 or 4 anorexia

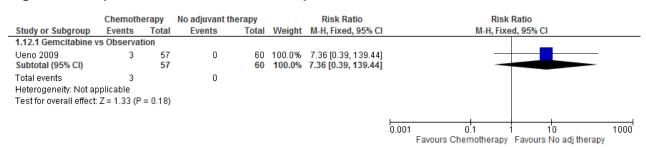


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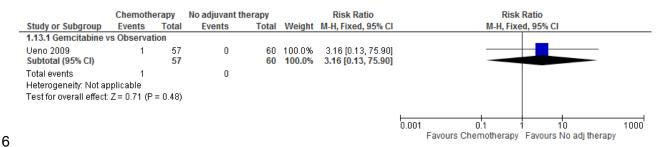
1 Figure 307: # patients with Grade 3 or 4 diarrhoea



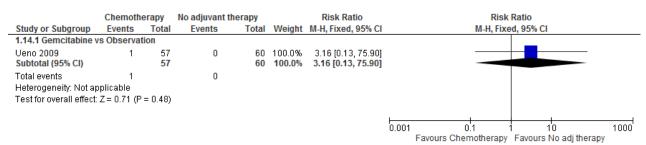
3 Figure 308: # patients with Grade 3 or 4 aspartate aminotransferase



5 Figure 309: # patients with Grade 3 or 4 fatigue

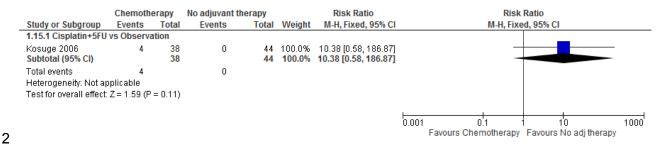


7 Figure 310: # patients with Grade 3 or 4 fever

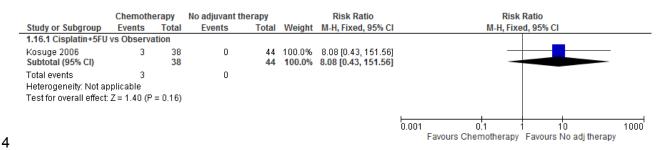


8

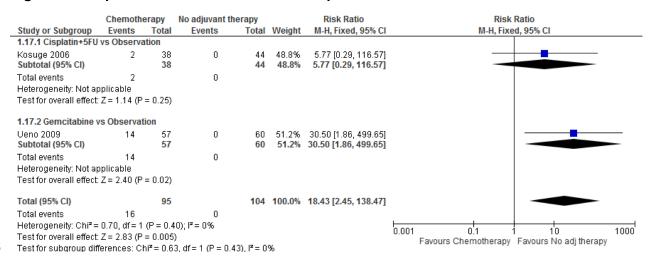
1 Figure 311: # patients with Grade 3 or 4 granulocytopenia



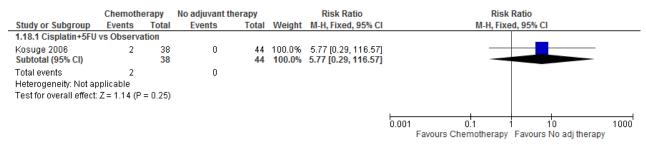
3 Figure 312: # patients with Grade 3 or 4 hepatic



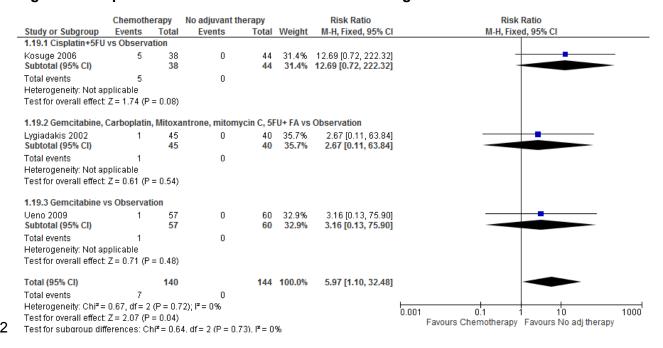
5 Figure 313: # patients with Grade 3 or 4 leukopenia



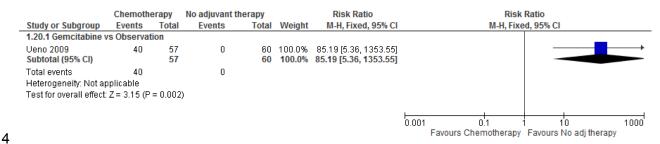
7 Figure 314: # patients with Grade 3 or 4 mucositis



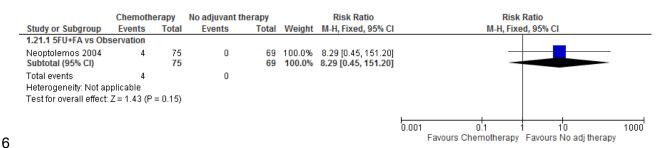
1 Figure 315: # patients with Grade 3 or 4 nausea/vomiting



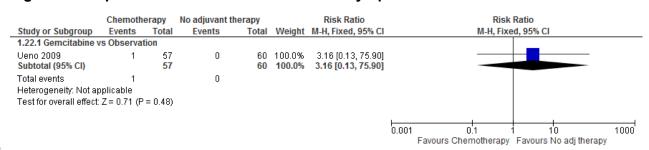
3 Figure 316: # patients with Grade 3 or 4 neutropenia



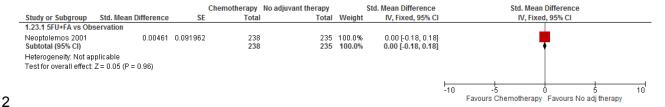
5 Figure 317: # patients with Grade 3 or 4 stomatitis



7 Figure 318: # patients with Grade 3 or 4 thrombocytopenia



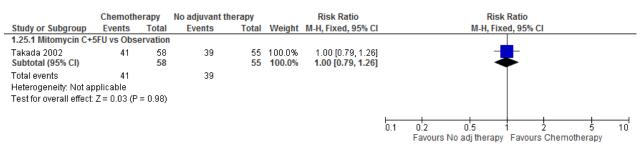
1 Figure 319: ESPAC-1 QoL overall score - change scores



3 Figure 320: # patients with improving ESPAC-1 QoL role functioning subscale scores

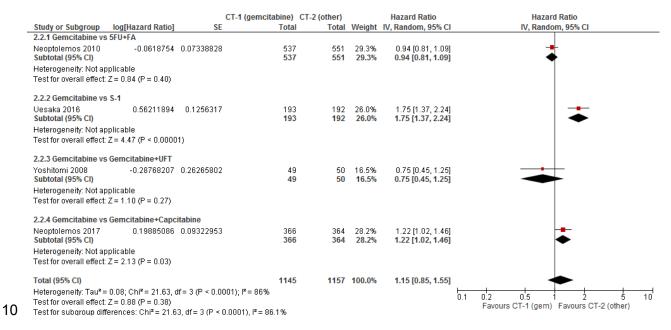


5 Figure 321: # patients improving by 1 or more ECOG performance score grade

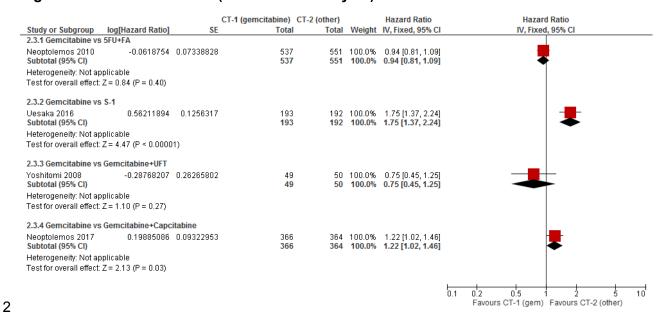


H.14.27 Adjuvant chemotherapy-1 (gemcitabine) versus adjuvant chemotherapy-2 (other) in resected pancreatic cancer patients

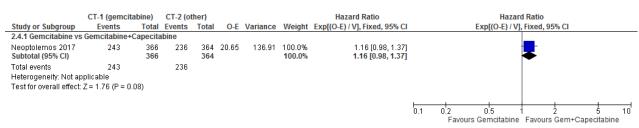
9 Figure 322: Overall survival (random effects analysis)



1 Figure 323: Overall Survival (fixed effects analysis)



3 Figure 324: Relapse-free Survival

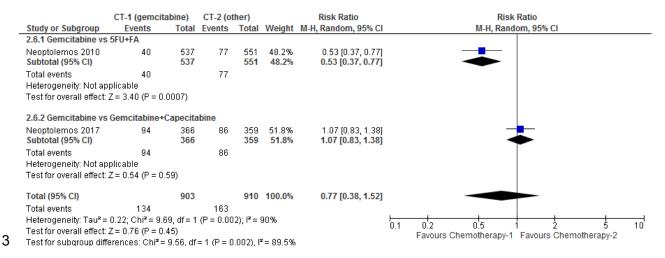


5 Figure 325: Disease-free survival

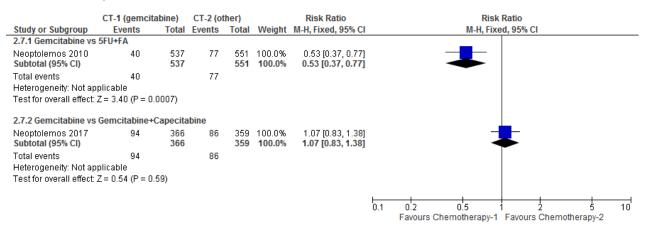
	CT-1 (gemcita	abine)	CT-2 (ot	her)				Hazard Ratio	Hazard Ratio
Study or Subgroup	Events	Total	Events	Total	O-E	Variance	Weight	Exp[(O-E) / V], Fixed, 95% CI	Exp[(O-E) / V], Fixed, 95% CI
2.5.1 Gemcitabine vs	5FU+FA								
Neoptolemos 2010 Subtotal (95% CI)	406	486 486	417	499 499	-1.03	205.47	70.5% 70.5 %	0.99 [0.87, 1.14] 0.99 [0.87, 1.14]	
Total events	406		417						
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.07 (P = 0.9)	94)							
2.5.2 Gemcitabine vs	S-1								
Uesaka 2016	149	190	123		34.42	67.11	23.0%		
Subtotal (95% CI)		190		187			23.0%	1.67 [1.31, 2.12]	•
Total events	149		123						
Heterogeneity: Not ap									
Test for overall effect:	Z = 4.20 (P < 0.0	0001)							
2.5.3 Gemcitabine vs	Gemcitabine+l	JFT							
Yoshitomi 2008	36	49	39	50	-1.84	18.72	6.4%	0.91 [0.58, 1.43]	
Subtotal (95% CI)		49		50			6.4%	0.91 [0.58, 1.43]	-
Total events	36		39						
Heterogeneity: Not ap	plicable								
Test for overall effect:		67)							
Total (95% CI)		725		736			100.0%	1.11 [0.99, 1.25]	◆
Total events	591		579						
Heterogeneity: Chi ² =	14.42, df = 2 (P	= 0.000	7); I² = 86°	%					0.1 0.2 0.5 1 2 5 10
Test for overall effect:	Z = 1.85 (P = 0.0)	06)							Favours CT1 (gemcitabine) Favours CT2 (other)
Test for subgroup diff	erences: Chi²=	14.42, d	f= 2 (P=	0.0007), I² = 86	6.1%			rations of regulations, rations of 2 (units)
			-						

6

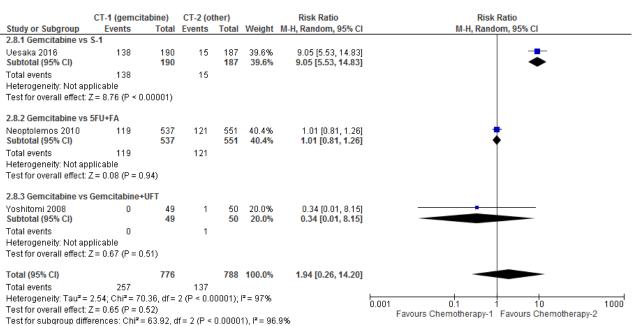
1 Figure 326: # patients with serious treatment-related adverse events (random effects analysis)



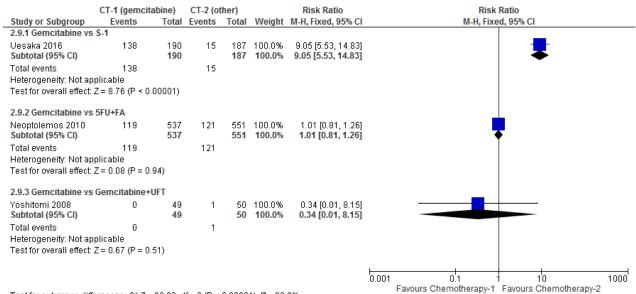
4 Figure 327: # patients with serious treatment-related adverse events (fixed effects analysis)



7 Figure 328: # patients with Grade 3 or 4 alanine aminotransferase/aspartate 8 aminotransferase (random effects analysis)

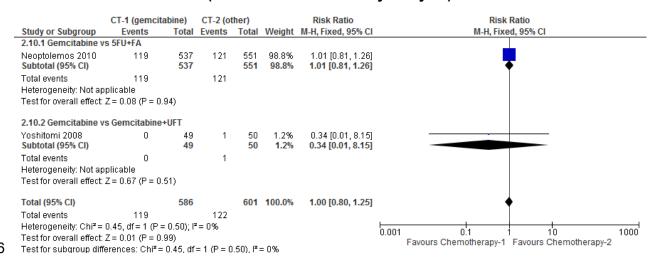


1 Figure 329: # patients with Grade 3 or 4 alanine aminotransferase/aspartate 2 aminotransferase (fixed effects analysis)

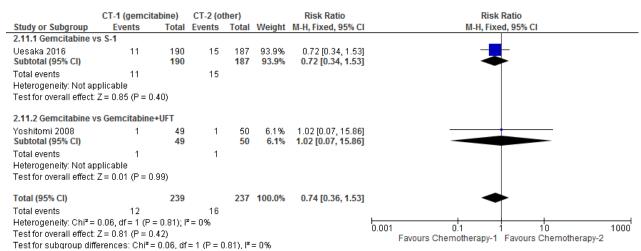


3 Test for subgroup differences: Chi² = 63.92, df = 2 (P < 0.00001), I^2 = 96.9%

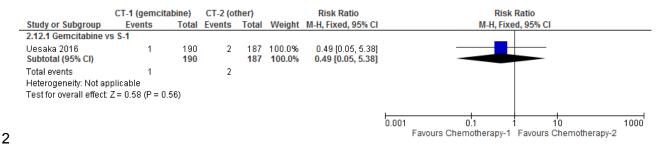
4 Figure 330: # patients with Grade 3 or 4 alanine aminotransferase/aspartate 5 aminotransferase (fixed effects – sensitivity analysis)



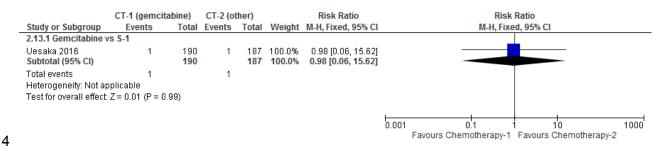
7 Figure 331: # patients with Grade 3 or 4 anorexia



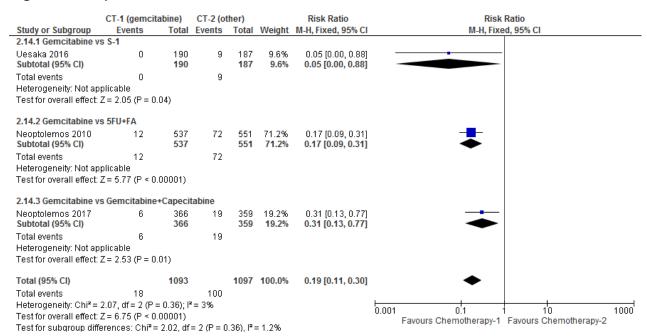
1 Figure 332: # patients with Grade 3 or 4 bilirubin



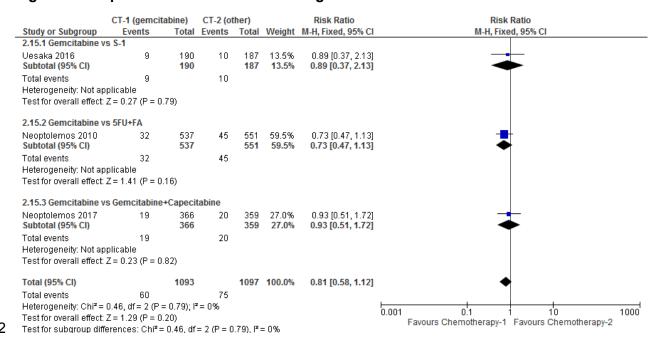
3 Figure 333: # patients with Grade 3 or 4 creatinine



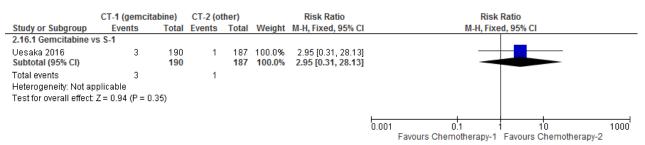
5 Figure 334: # patients with Grade 3 or 4 diarrhoea



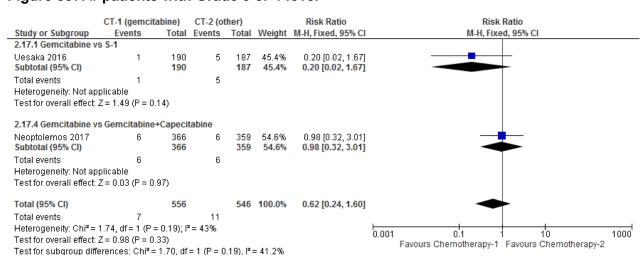
1 Figure 335: # patients with Grade 3 or 4 fatigue/tiredness



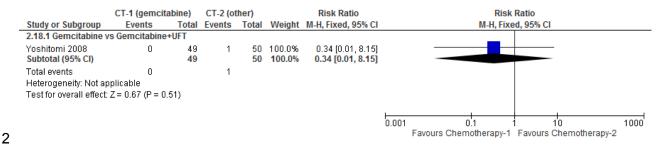
3 Figure 336: # patients with Grade 3 or 4 febrile neutropenia



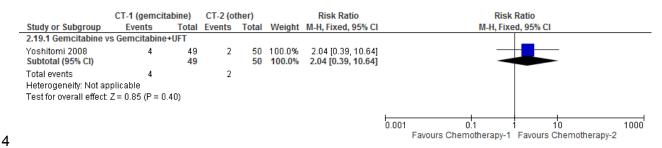
5 Figure 337: # patients with Grade 3 or 4 fever



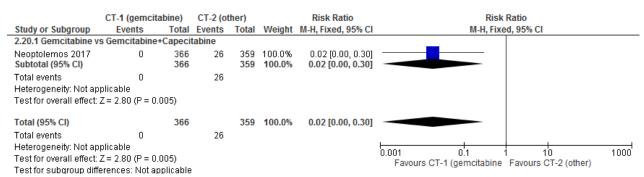
1 Figure 338: # patients with Grade 3 or 4 glucose intolerance



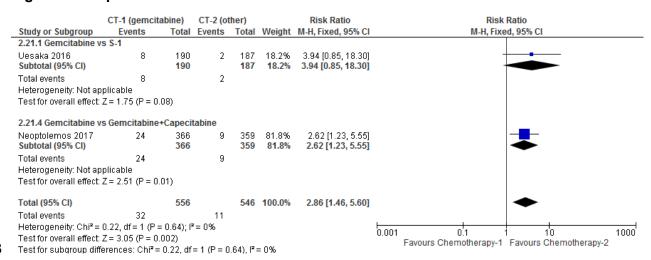
3 Figure 339: # patients with Grade 3 or 4 haemoglobin



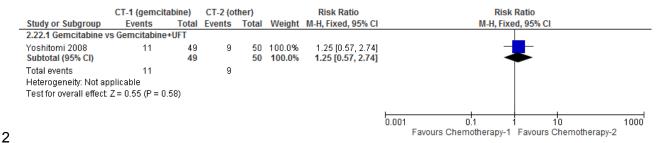
5 Figure 340: # patients with Grade 3 or 4 hand foot syndrome



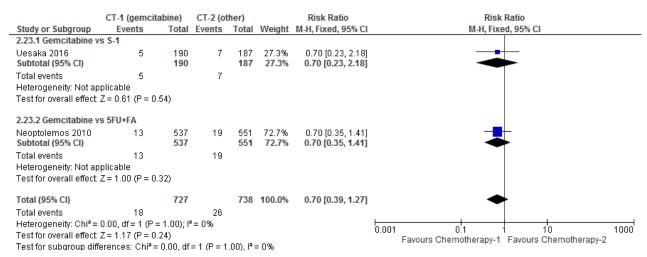
7 Figure 341: # patients with Grade 3 or 4 infection



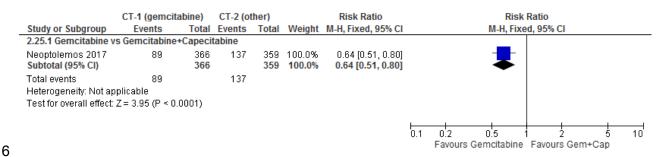
1 Figure 342: # patients with Grade 3 or 4 leukocytes



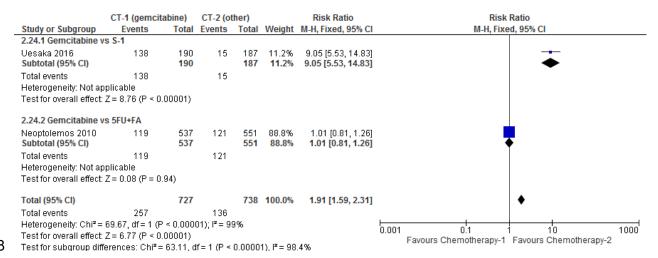
3 Figure 343: # patients with Grade 3 or 4 nausea



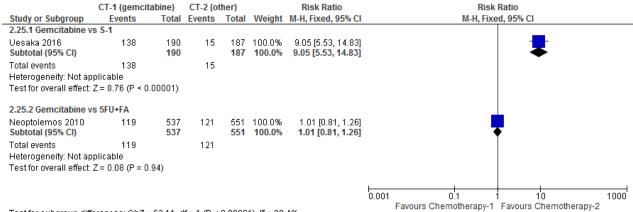
5 Figure 344: # patients with Grade 3 or 4 neutropenia



7 Figure 345: # patients with Grade 3 or 4 neutrophils (random effects)

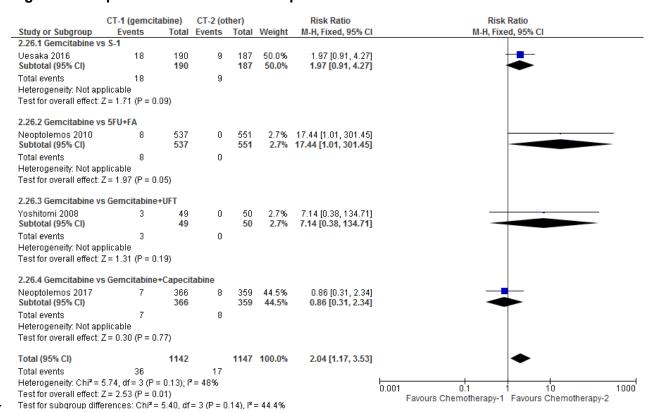


1 Figure 346: # patients with Grade 3 or 4 neutrophils (fixed effects)

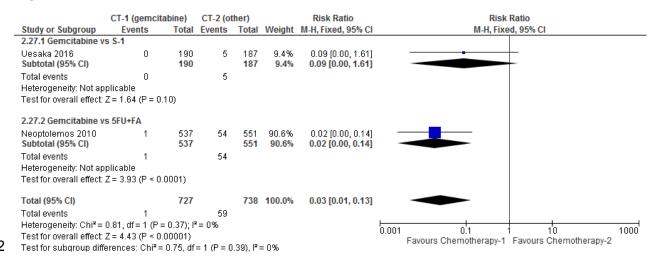


Test for subgroup differences: $Chi^2 = 63.11$, df = 1 (P < 0.00001), $I^2 = 98.4\%$

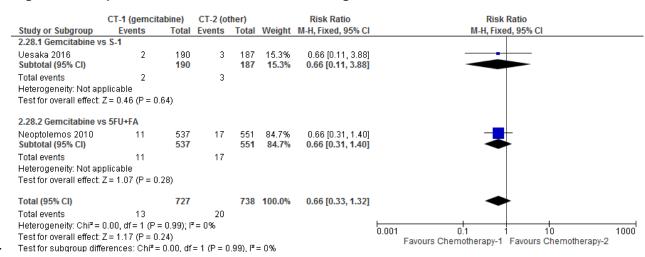
3 Figure 347: # patients with Grade 3 or 4 platelets



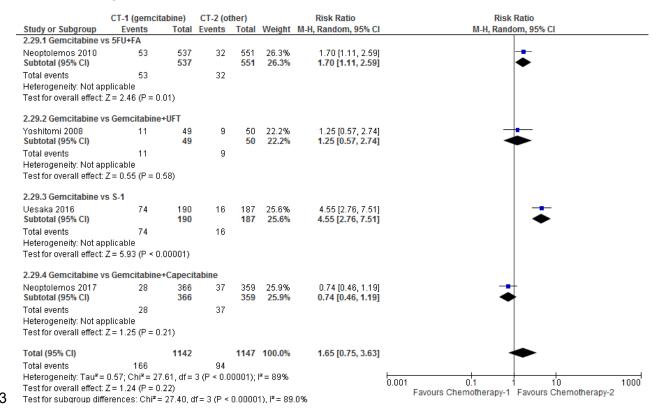
1 Figure 348: # patients with Grade 3 or 4 stomatitis



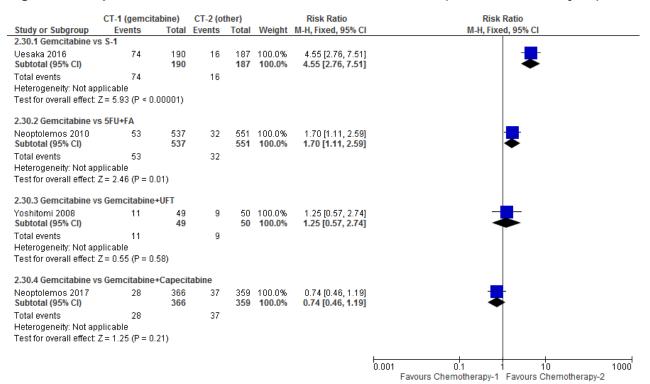
3 Figure 349: # patients with Grade 3 or 4 vomiting



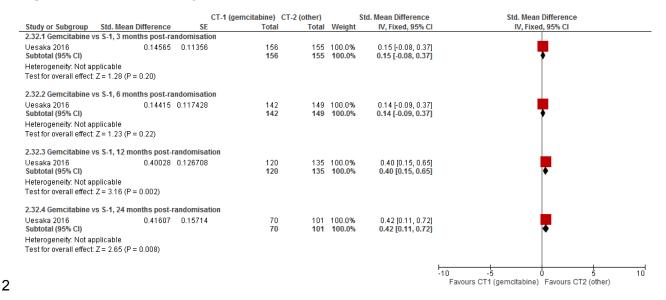
1 Figure 350: # patients with Grade 3 or 4 white blood cell count (random effects analysis)



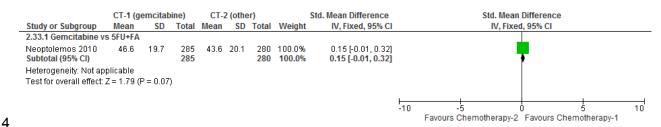
4 Figure 351: # patients with Grade 3 or 4 white blood cell count (fixed effects analysis)



1 Figure 352: EQ-5D Quality of Life

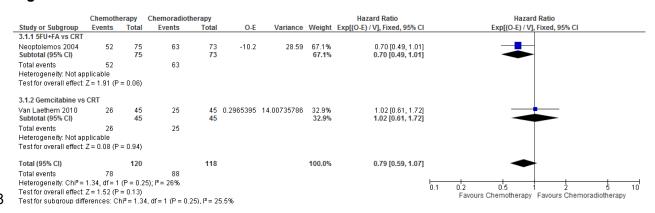


3 Figure 353: Global quality of life

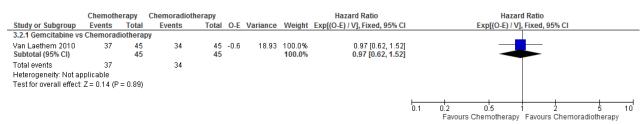


H.14.35 Adjuvant chemotherapy versus adjuvant chemoradiotherapy in resected pancreatic cancer patients

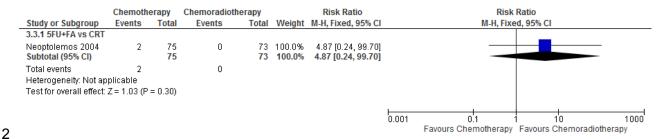
7 Figure 354: Overall survival



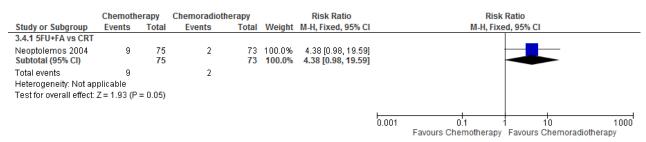
9 Figure 355: Disease-free survival



1 Figure 356: # patients with any Grade 3 or 4 haematological toxicity

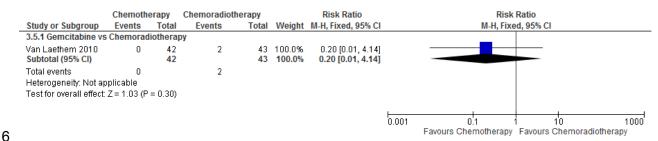


3 Figure 357: # patients with any Grade 3 or 4 non-haematological toxicity

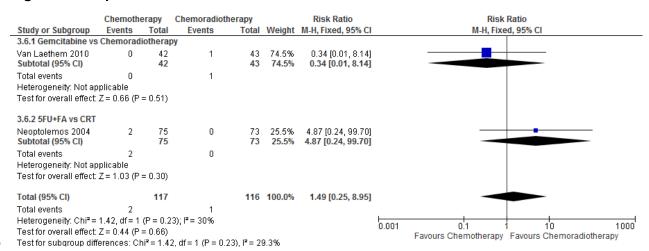


5 Figure 358: # patients with Grade 3 or 4 anorexia

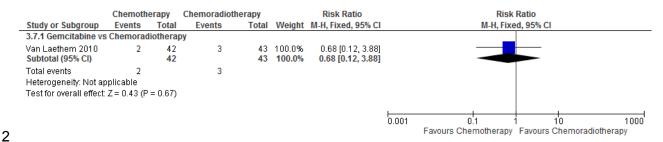
4



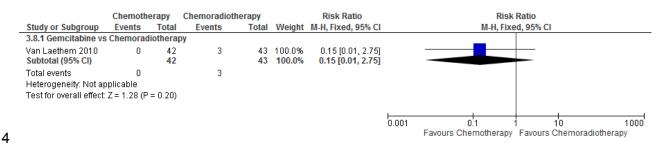
7 Figure 359: # patients with Grade 3 or 4 diarrhoea



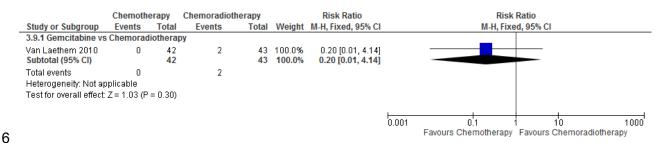
1 Figure 360: # patients with Grade 3 or 4 fatigue



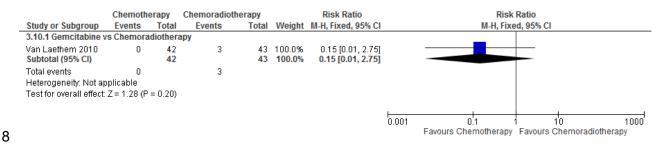
3 Figure 361: # patients with Grade 3 or 4 fever



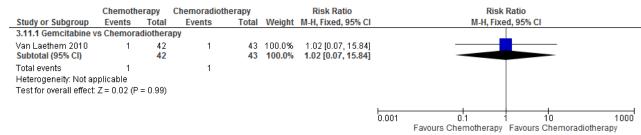
5 Figure 362: # patients with Grade 3 or 4 gastritis



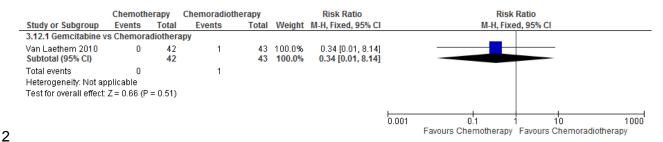
7 Figure 363: # patients with Grade 3 or 4 haemoglobin



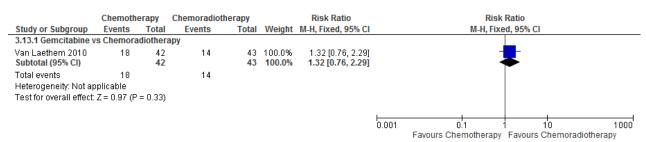
9 Figure 364: # patients with Grade 3 or 4 haemorrhage



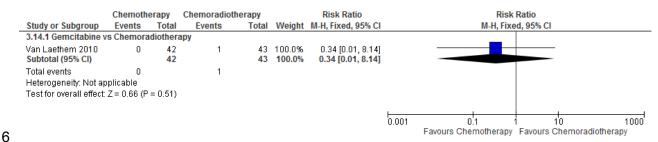
1 Figure 365: # patients with Grade 3 or 4 nausea



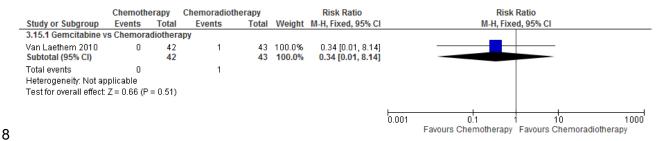
3 Figure 366: # patients with Grade 3 or 4 neutrophils



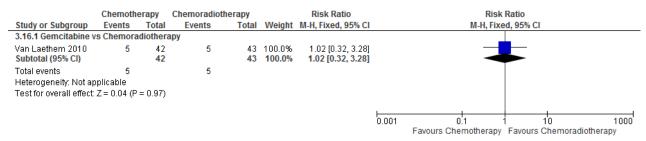
5 Figure 367: # patients with Grade 3 or 4 other gastrointestinal toxicity



7 Figure 368: # patients with Grade 3 or 4 platelets

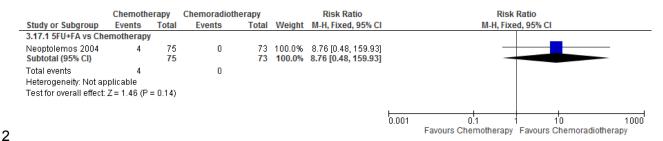


9 Figure 369: # patients with Grade 3 or 4 serum glutamicpyruvic transaminase

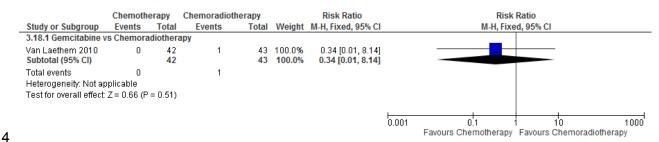


10

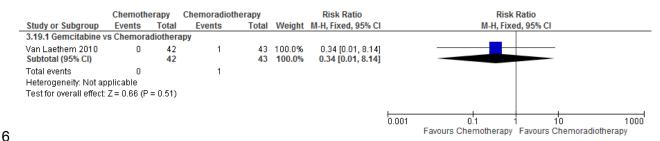
1 Figure 370: # patients with Grade 3 or 4 stomatitis



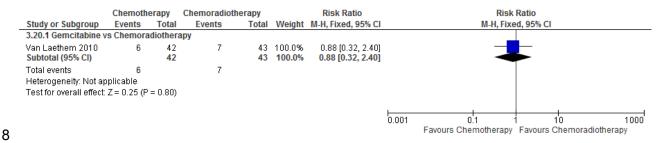
3 Figure 371: # patients with Grade 3 or 4 vomiting



5 Figure 372: # patients with Grade 3 or 4 weight loss

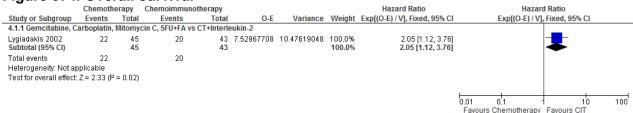


7 Figure 373: # patients with Grade 3 or 4 white blood cell count



H.14.49 Adjuvant chemotherapy versus adjuvant chemoimmunotherapy in resected 10 pancreatic cancer patients

11 Figure 374: Overall survival



1 Figure 375: Disease-free survival

2

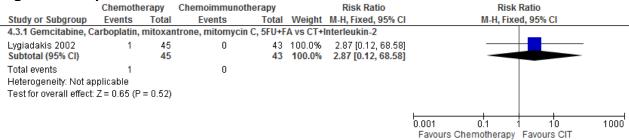
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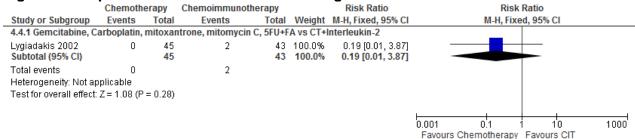
10

	Chemoth	егару	Chemoimmuno	therapy				Hazard Ratio		Ha	izard Ratio		
Study or Subgroup	Events	Total	Events	Total	0-E	Variance	Weight	Exp[(O-E) / V], Fixed, 95% CI		Exp[(O-E)	/ V], Fixed, 95	5% CI	
4.2.1 Gemcitabine, Ca	arboplatin,	Mitomyci	in C, 5FU+FA vs	CT+Interleuk	kin-2								
Lygiadakis 2002 Subtotal (95% CI)	19	45 45	21	43 6. 43	.85384492	9.975	100.0% 100.0%	1.99 [1.07, 3.70] 1.99 [1.07, 3.70]					
Total events Heterogeneity: Not ap Test for overall effect:		= 0.03)	21										
									0.01	0.1	1	10	100
									Favour	c Chemother:	any Favoure	CIT	

3 Figure 376: # patients with Grade 3 or 4 nausea



5 Figure 377: # patients with Grade 3 or 4 vomiting

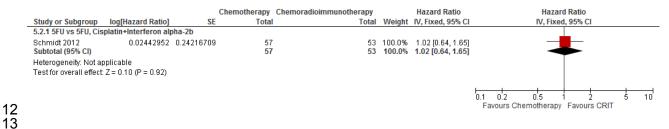


H.14.57 Adjuvant chemotherapy versus adjuvant chemoradioimmunotherapy in 8 resected pancreatic cancer patients

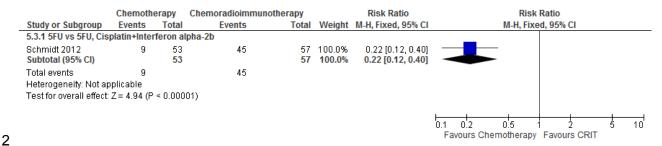
9 Figure 378: Overall survival

			Chemotherapy	Chemoradioimmunotherapy		Hazard Ratio	Hazar	rd Ratio		
Study or Subgroup	log[Hazard Ratio]	SE	Total	Total	Weight	IV, Fixed, 95% CI	IV, Fixe	d, 95% CI		
5.1.1 5FU vs 5FU, Cis	splatin+Interferon al _l	pha-2b					_			
Schmidt 2012	-0.03922071	0.21978488	68	64	100.0%	0.96 [0.63, 1.48]	_			
Subtotal (95% CI)			68	64	100.0%	0.96 [0.63, 1.48]	→			
Heterogeneity: Not a	pplicable									
Test for overall effect	: Z = 0.18 (P = 0.86)									
							01 02 05	1 1		10
1							Favours Chemotherapy	Favours CRI	Т	

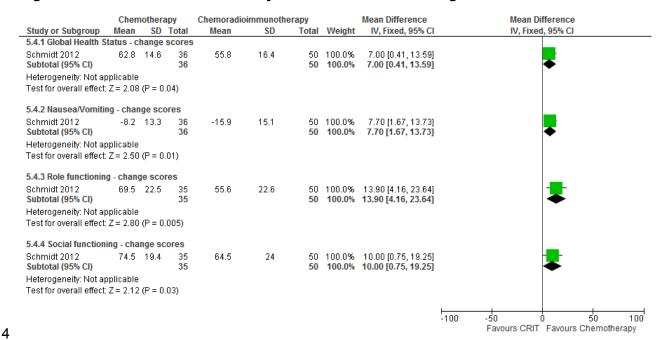
11 Figure 379: Disease-free survival



1 Figure 380: # patients with any Grade 3 or 4 toxicity

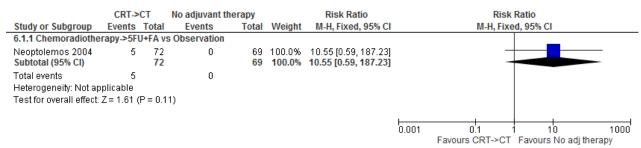


3 Figure 381: EORTC QLQ-C30 Quality of Life subscales - change scores

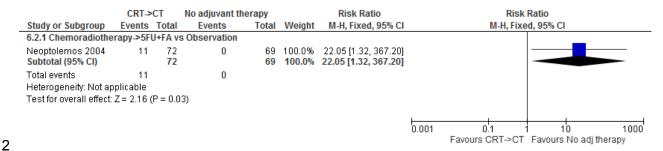


H.14.65 Adjuvant chemoradiotherapy followed by chemotherapy versus no adjuvant 6 therapy in resected pancreatic cancer patients

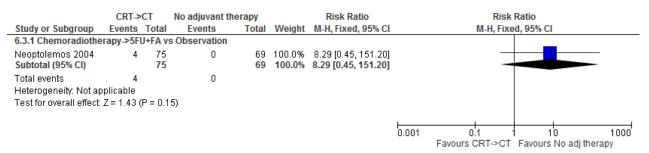
7 Figure 382: # patients with any Grade 3 or 4 haematological toxicity



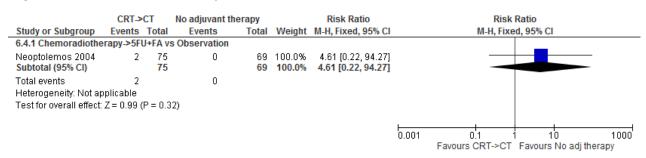
1 Figure 383: # patients with any Grade 3 or 4 haematological toxicity



3 Figure 384: # patients with Grade 3 or 4 stomatitis



5 Figure 385: # patients with any Grade 3 or 4 diarrhoea

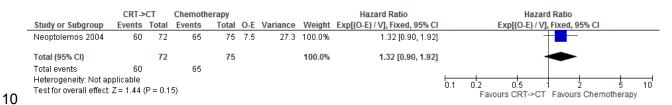


H.14.77 Adjuvant chemoradiotherapy followed by chemotherapy versus chemotherapy 8 in resected pancreatic cancer patients

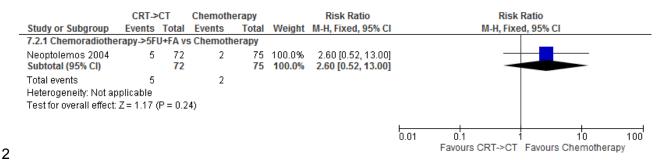
9 Figure 386: Overall survival

4

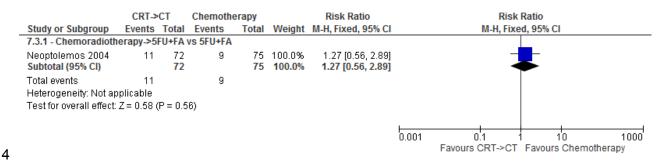
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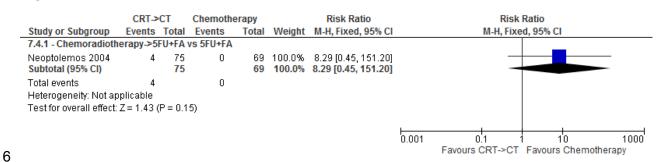
1 Figure 387: # patients with any Grade 3 or 4 haematological toxicity



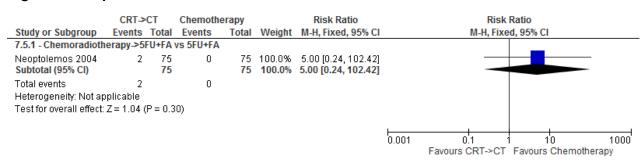
3 Figure 388: # patients with any Grade 3 or 4 non-haematological toxicity



5 Figure 389: # patients with Grade 3 or 4 stomatitis



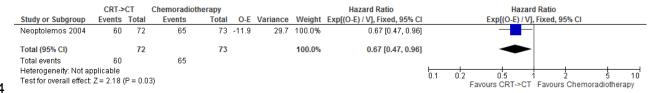
7 Figure 390: # patients with Grade 3 or 4 diarrhoea



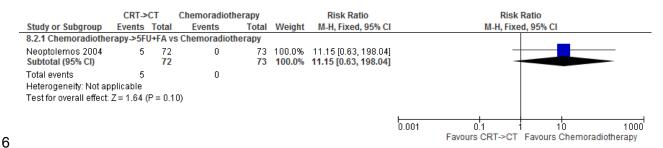
H.14.81 Adjuvant chemoradiotherapy followed by chemotherapy versus

2 chemoradiotherapy in resected pancreatic cancer patients

3 Figure 391: Overall survival



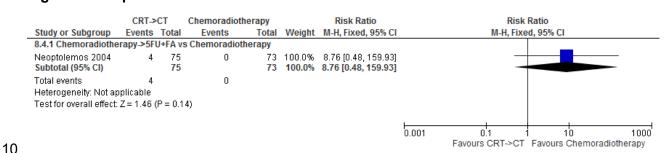
5 Figure 392: # patients with any Grade 3 or 4 haematological toxicity



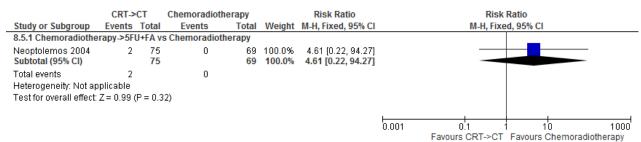
7 Figure 393: # patients with any Grade 3 or 4 non-haematological toxicity

	CRT->CT		Chemoradioth	emoradiotherapy		Risk Ratio		Risk		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, Fixe	ed, 95% CI	
8.3.1 Chemoradiothe	erapy->5Fl	U+FA vs	Chemoradioth	пегару						
Neoptolemos 2004 Subtotal (95% CI)	11	72 72	2	73 73	100.0% 100.0%	5.58 [1.28, 24.28] 5.58 [1.28, 24.28]				
Total events Heterogeneity: Not ap Test for overall effect:		P = 0.0	2							
							0.001	0.1 Favours CRT->CT	1 10 Favours Chemorad	1000 diotherapy

9 Figure 394: # patients with Grade 3 or 4 stomatitis



11 Figure 395: # patients with Grade 3 or 4 diarrhoea

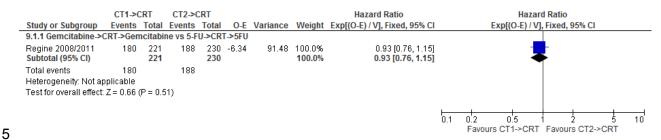


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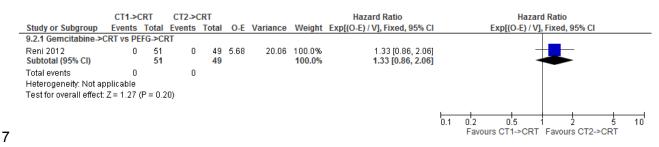
H.14.91 Adjuvant chemotherapy-1 (gemcitabine) followed by chemoradiotherapy

- 2 versus chemotherapy-2 (other) followed by chemoradiotherapy in resected
- 3 pancreatic cancer patients

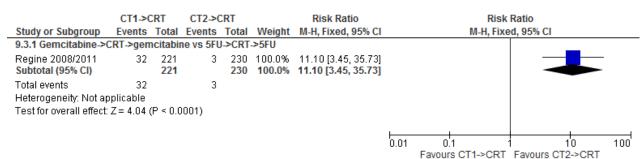
4 Figure 396: Overall survival



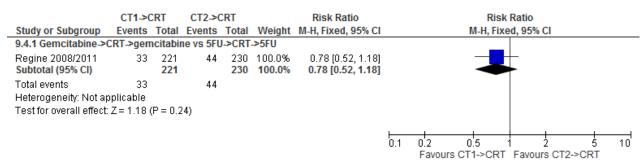
6 Figure 397: Disease-free survival



10 Figure 398: # patients with any Grade 4 toxicity



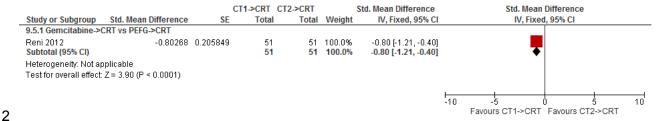
12 Figure 399: # patients with Grade 3 or 4 diarrhoea



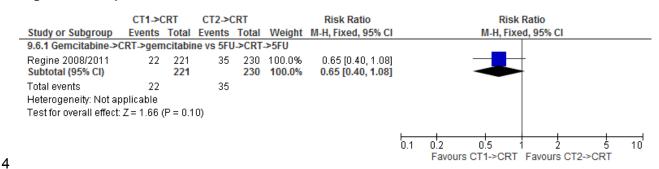
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11

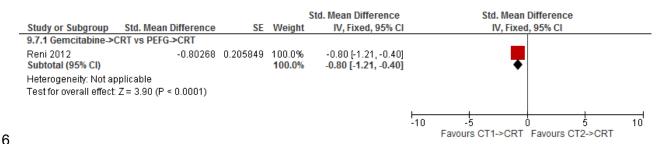
1 Figure 400: # patients with Grade 3 or 4 neutropenia



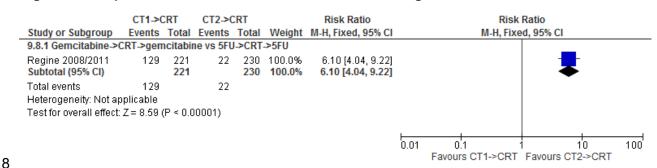
3 Figure 401: # patients with Grade 3 or 4 stomatitis



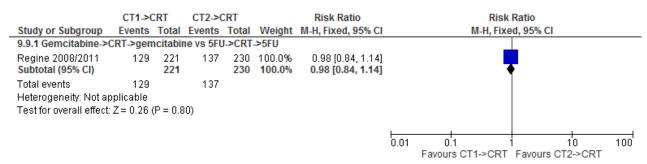
5 Figure 402: # patients with Grade 3 or 4 thrombocytopenia



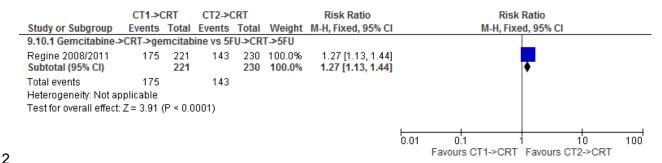
7 Figure 403: # patients with Grade 3 or 4 worst haematological toxicities



9 Figure 404: # patients with Grade 3 or 4 worst non-haematological toxicities

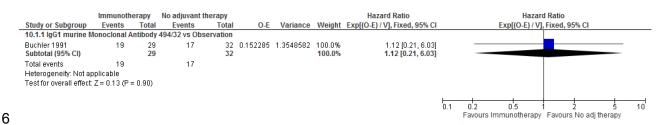


1 Figure 405: # patients with Grade 3 or 4 worst overall toxicities

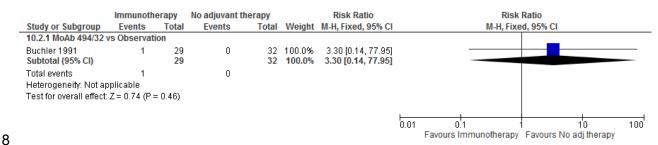


H.14.103 Adjuvant immunotherapy versus no adjuvant therapy in resected pancreatic 4 cancer patients

5 Figure 406: Overall survival

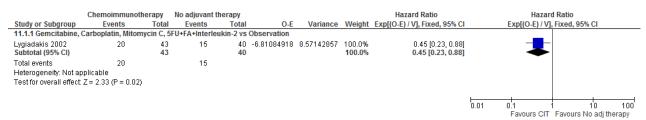


7 Figure 407: # patients with Grade 3 or 4 abdominal pain

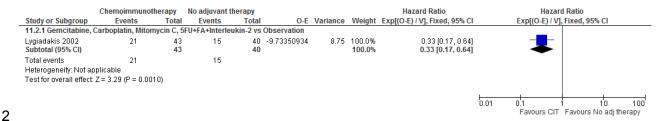


H.14.119 Adjuvant chemoimmunotherapy versus no adjuvant therapy in resected 10 pancreatic cancer patients

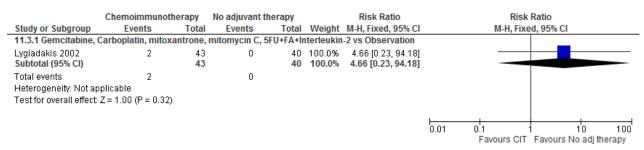
11 Figure 408: Overall survival



1 Figure 409: Disease-free survival

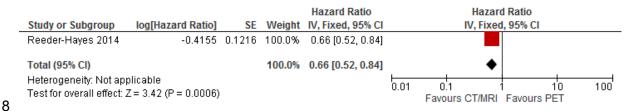


3 Figure 410: # patients with Grade 3 or 4 vomiting

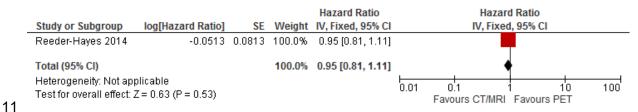


H.155 Follow-up for people with resected pancreatic cancer

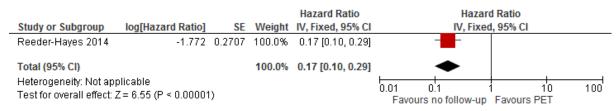
6 Figure 411: CT/MRI versus PET on mortality (time-varying exposure model) in 7 "surgical group" of pancreatic cancer patients



9 Figure 412: CT/MRI versus PET on mortality (time-varying exposure model) in 10 "borderline group" of pancreatic cancer patients



12 Figure 413: No follow-up versus PET on mortality (time-varying exposure model) in 13 "surgical group" of pancreatic cancer patients

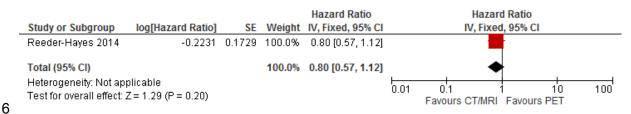


14

1 Figure 414: No follow-up versus PET on mortality (time-varying exposure model) in 2 "borderline group" of pancreatic cancer patients



4 Figure 415: CT/MRI versus PET on survival beyond 180 days in "surgical group" of pancreatic cancer patients



7 Figure 416: CT/MRI versus PET on survival beyond 180 days in "borderline group" of pancreatic cancer patients

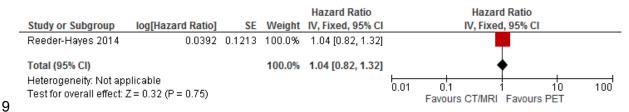


Figure 417: No follow-up versus PET on survival beyond 180 days in "surgical group" of pancreatic cancer patients

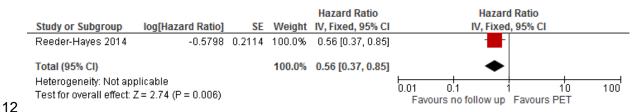


Figure 418: No follow-up versus PET on survival beyond 180 days in "borderline group" of pancreatic cancer patients

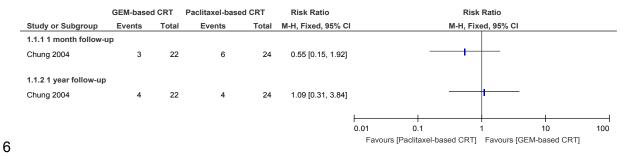


H.161 Management of locally advanced pancreatic cancer

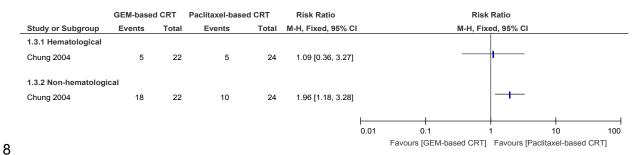
H.16.12 Different chemoradiotherapy regimens

3 Figure 419: GEM-CRT versus paclitaxel-CRT – Overall response rates (CR+PR) at 1 4 month and 1 year follow-up

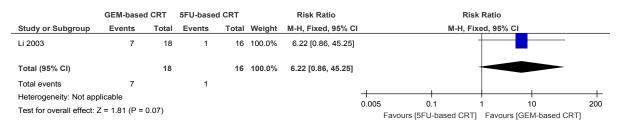
5



7 Figure 420: GEM-CRT versus paclitaxel-CRT - Adverse effects - Grade 3/4 toxicities



9 Figure 421: GEM-CRT versus 5FU-CRT – Overall pain control – follow-up not reported



1 Figure 422: GEM-CRT versus 5FU-CRT - Adverse effects - Grade 3/4 toxicities

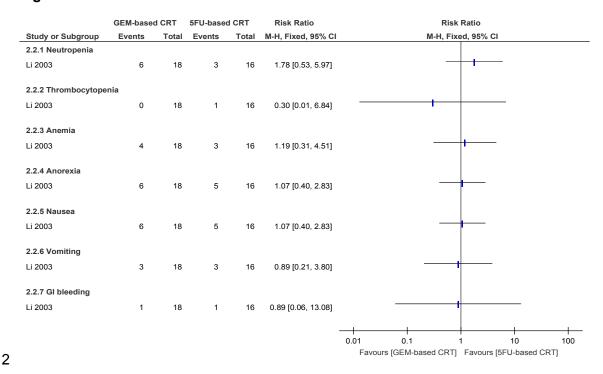
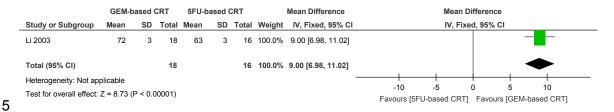
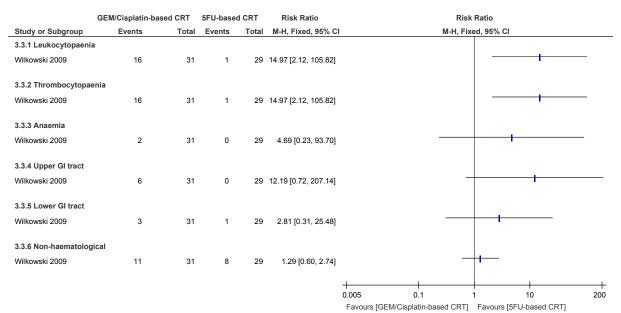


Figure 423: GEM/Cisplatin-CRT versus 5FU-CRT – HQRL: Average monthly Karnofsky performance score

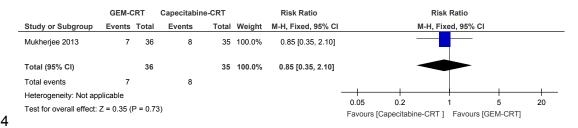


6 Figure 424: GEM/Cisplatin-CRT versus 5FU-CRT – Adverse effects, Grade 3/4 toxicities

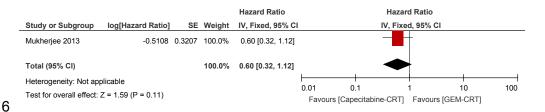


H.16.21 Different chemoradiotherapy regimens after induction chemotherapy

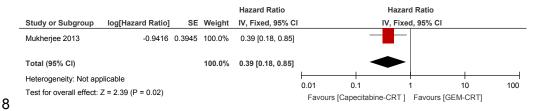
2 Figure 425: GEM-CRT versus capecitabine-CRT after induction CT – Overall 3 response rates (CR+PR)



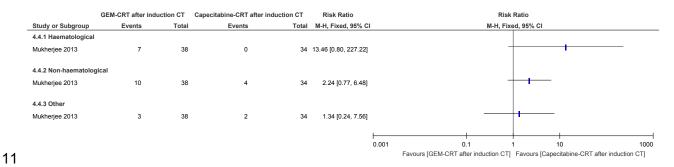
5 Figure 426: GEM-CRT versus capecitabine-CRT after induction CT – PFS



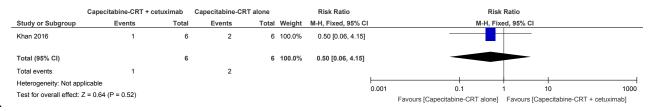
7 Figure 427: GEM-CRT versus capecitabine-CRT after induction CT - Overall Survival



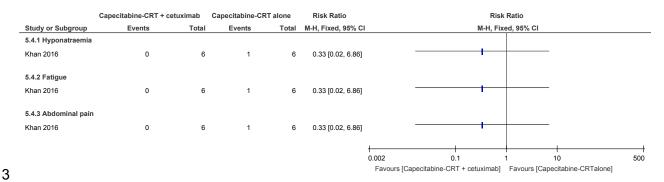
9 Figure 428: GEM-CRT versus capecitabine-CRT after induction CT – Adverse effects 10 - Grade 3/4 toxicities



12 Figure 429: Capecitabine-CRT + cetuximab versus capecitabine-CRT alone after induction CT – Objective response rate

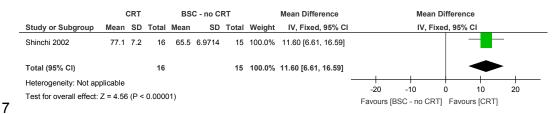


1 Figure 430: Capecitabine-CRT + cetuximab versus capecitabine-CRT alone after induction CT – Objective response rate



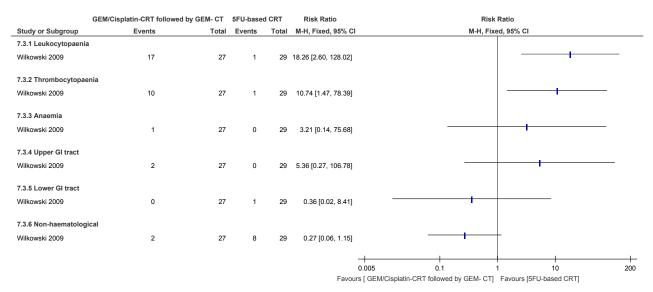
H.16.34 Chemoradiotherapy versus best supportive care

5 Figure 431: CRT versus best supportive care -no CRT- HQRL: Average of monthly Karnofsky scores



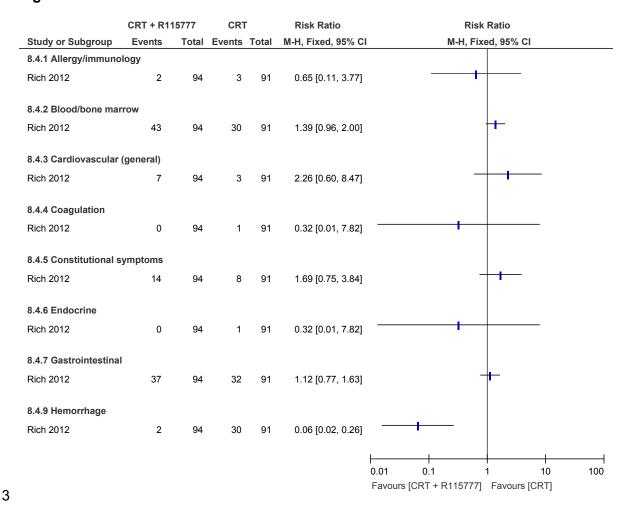
H.16.48 Chemoradiotherapy followed by chemotherapy versus chemoradiotherapy 9 alone

10 Figure 432: CRT followed by CT versus CRT - Adverse effects - Grade 3/4 toxicities



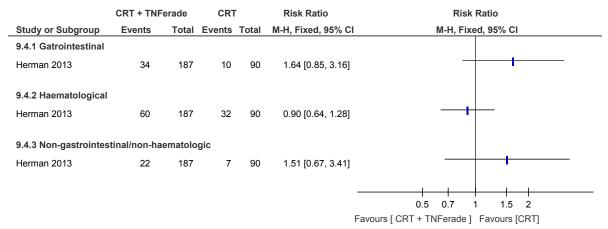
H.16.51 Chemoradiotherapy + R115777 versus chemoradiotherapy

2 Figure 433: CRT + R115777 versus CRT- Adverse effects - Grade 3/4 toxicities



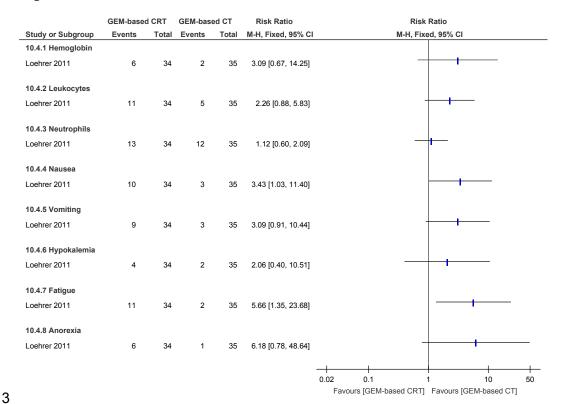
H.16.64 Chemoradiotherapy + TNFerade versus chemoradiotherapy

5 Figure 434: CRT + TNFerade versus CRT - Adverse effects - Grade 3/4 toxicities



H.16.71 Chemoradiotherapy versus chemotherapy

2 Figure 435: CRT versus CT - Adverse effects - Grade 3/4 toxicities



4 Figure 436: CRT versus CT – HQRL - Trial outcome index [mean difference of change from baseline] at week 6, 15/16 and at 9 months follow-up

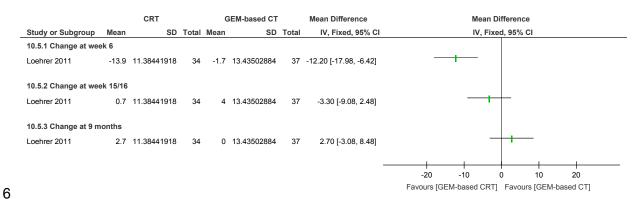
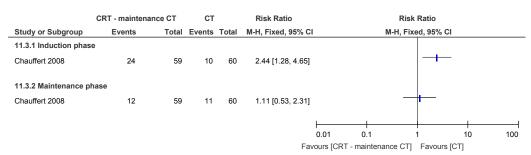
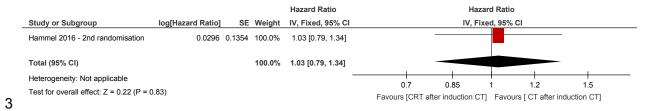


Figure 437: CRT versus CT followed by maintenance GEM-CT- Adverse effects - Grade 3/4 toxicities

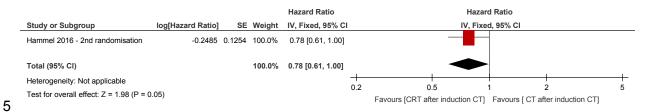


H.16.81 Chemoradiotherapy versus chemotherapy after induction chemotherapy

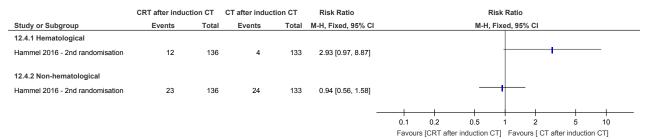
2 Figure 438: CRT versus CT after CT induction therapy - Overall survival



4 Figure 439: CRT versus CT after CT induction therapy - PFS

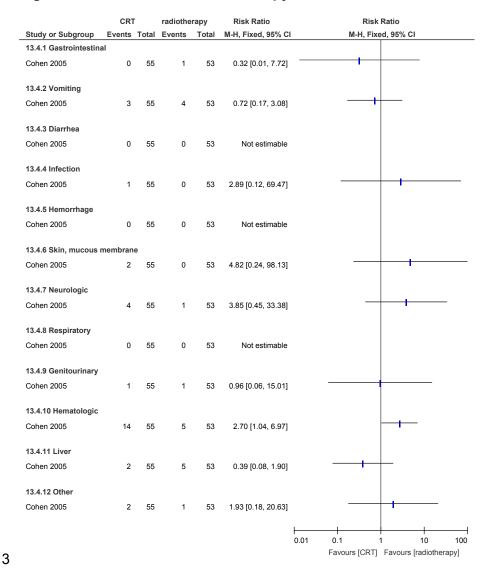


6 Figure 440: CRT versus CT after CT induction therapy – Adverse effects - Grade 3/4 toxicities



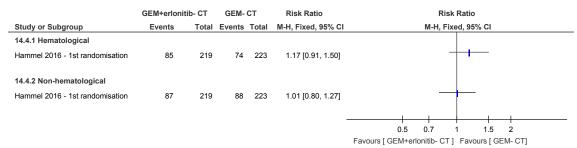
H.16.91 Chemoradiotherapy versus radiotherapy

2 Figure 441: CRT versus radiotherapy - Adverse effects - Grade 3/4 toxicities

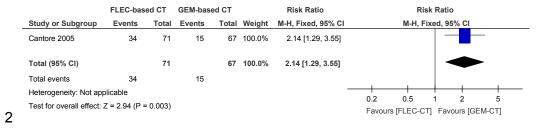


H.16.104 Different chemotherapy regimens

5 Figure 442: GEM+erlonitib-CT versus GEM-CT – Adverse effects - Grade 3/4 toxicities

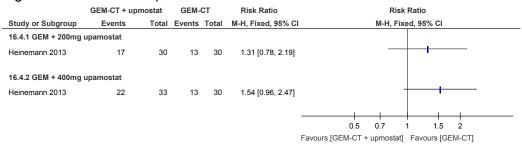


1 Figure 443: FLEC-CT versus GEM-CT - Adverse effects - Grade 3/4 toxicities



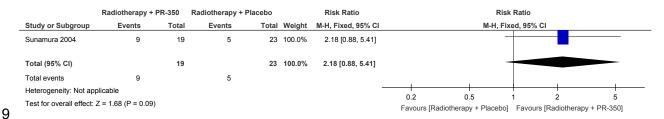
H.16.113 GEM-CT + upmostat versus GEM-CT

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

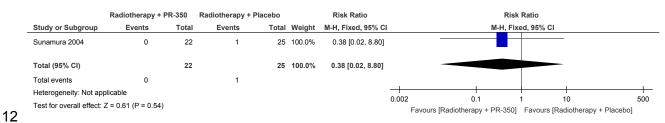


H.16.126 Radiotherapy + PR-350 versus Radiotherapy + Placebo

7 Figure 444: Radiotherapy + PR-350 versus Radiotherapy + Placebo - Objective 8 Response - Effective response



10 Figure 445: Radiotherapy + PR-350 versus Radiotherapy + Placebo - Adverse effects 11 - Grade 3/4 toxicities



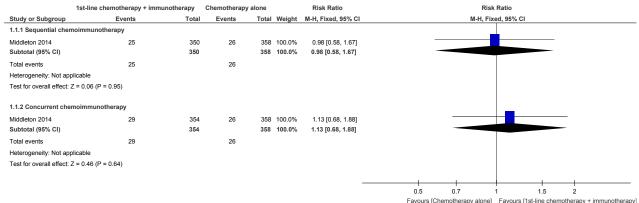
13

5

H.171 Management of metastatic pancreatic cancer

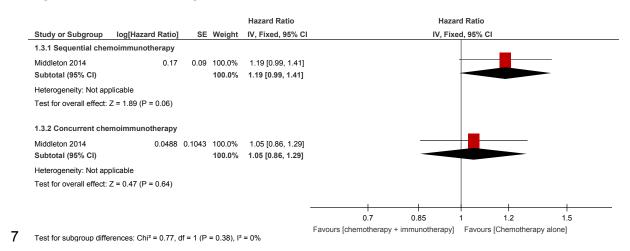
H.17.12 Chemotherapy versus chemoimmunotherapy in adults with locally advanced or 3 metastatic pancreatic cancer

4 Figure 446: Overall response rate (CR + PR) at 8 weeks

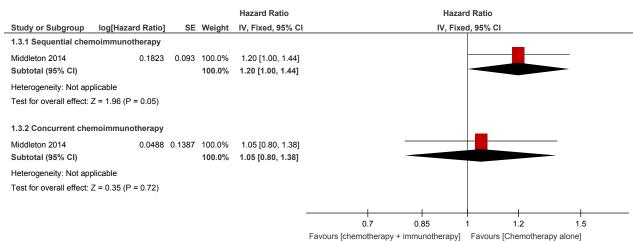


Test for subgroup differences: Chi² = 0.13, df = 1 (P = 0.71), I² = 0%

6 Figure 447: Time to progression

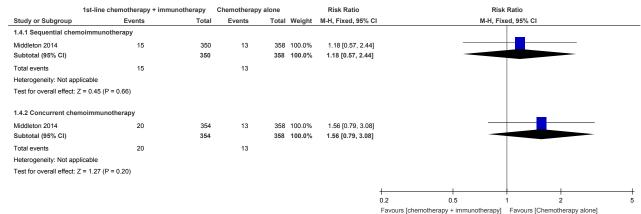


8 Figure 448: Overall survival



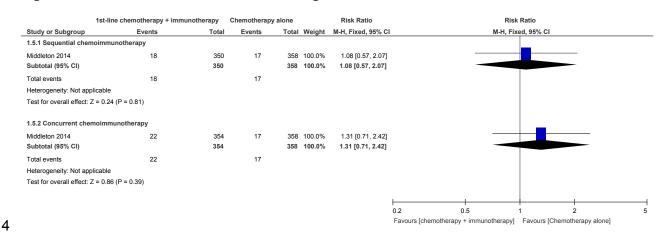
9 Test for subgroup differences: Chi² = 0.64, df = 1 (P = 0.42), $I^2 = 0\%$

1 Figure 449: Grade 3/4/5 toxicities: Nausea

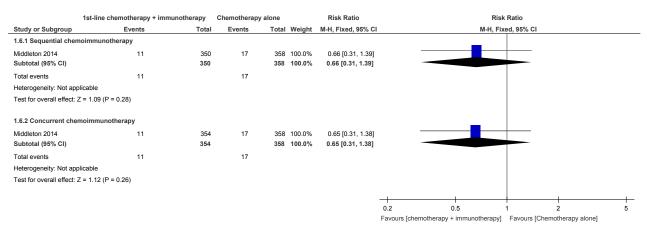


Test for subgroup differences: $Chi^2 = 0.29$, df = 1 (P = 0.59), $I^2 = 0$ %

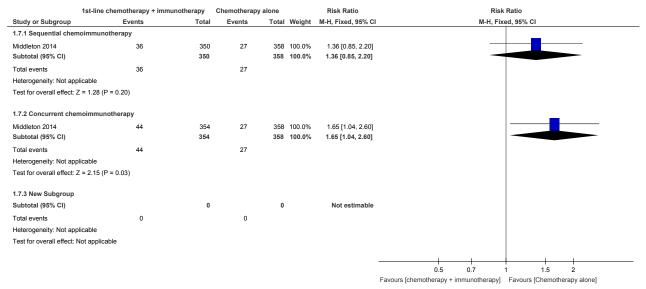
3 Figure 450: Grade 3/4/5 toxicities: Vomiting



5 Figure 451: Grade 3/4/5 toxicities: Diarrhoea

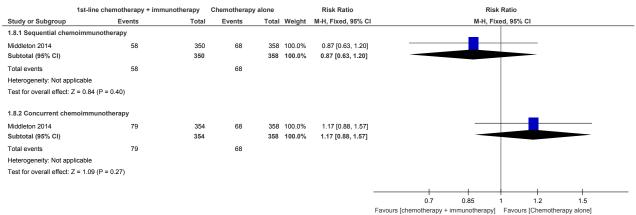


1 Figure 452: Grade 3/4/5 toxicities: Fatigue



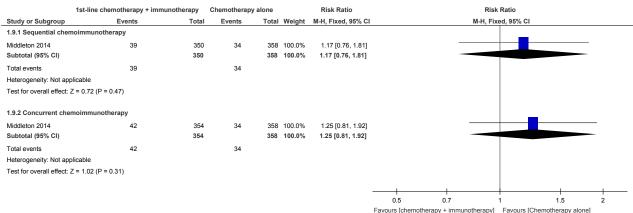
2

3 Figure 453: Grade 3/4/5 toxicities: Neutropenia



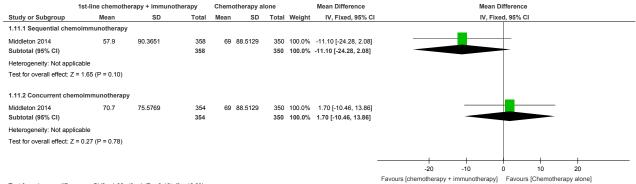
4 Test for subgroup differences: Chi² = 1.84, df = 1 (P = 0.17), l² = 45.8%

5 Figure 454: Grade 3/4/5 toxicities: Pain



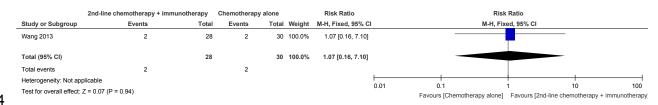
6 Test for subgroup differences: Chi² = 0.04, df = 1 (P = 0.84), $I^2 = 0\%$

1 Figure 455: Health-related Quality of Life at 20 weeks (EORTC QLQ-C30)

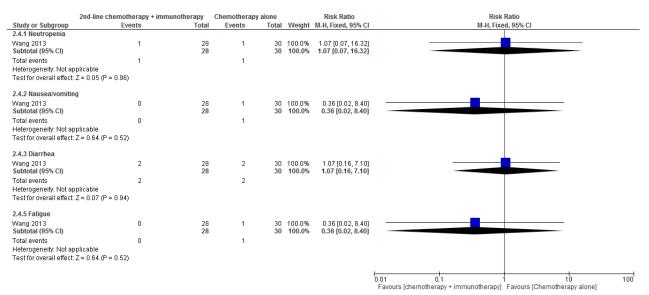


Test for subgroup differences: $Chi^2 = 1.96$, df = 1 (P = 0.16), $I^2 = 48.9\%$

3 Figure 456: Overall response rate (CR + PR): unclear follow-up



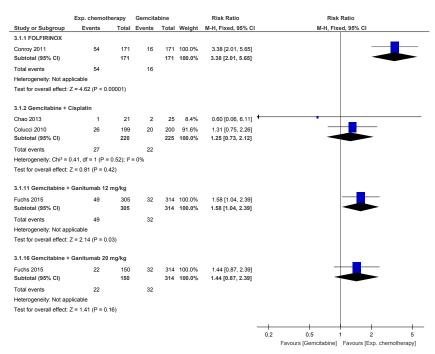
5 Figure 457: Grade 3/4 toxicities



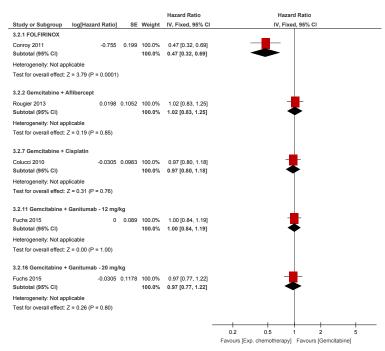
H.17.21 Gemcitabine versus other chemotherapy

H.17.2.12 In adults with metastatic pancreatic cancer

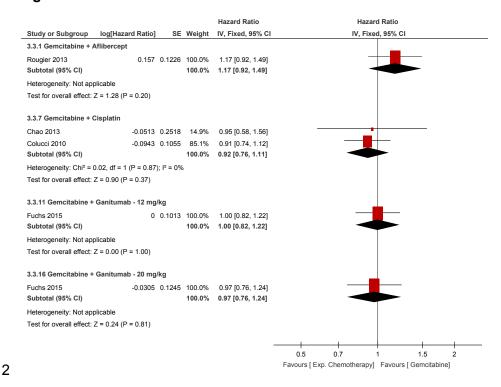
3 Figure 458: overall response rate (CR+RP)



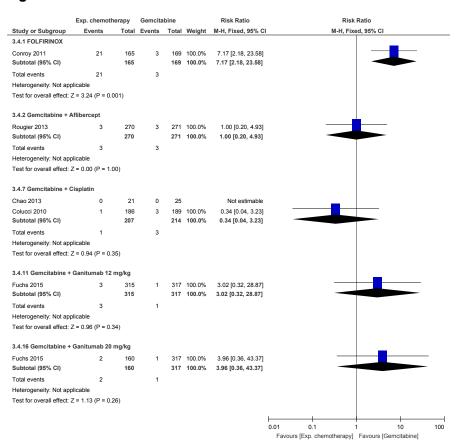
5 Figure 459: Progression-free survival



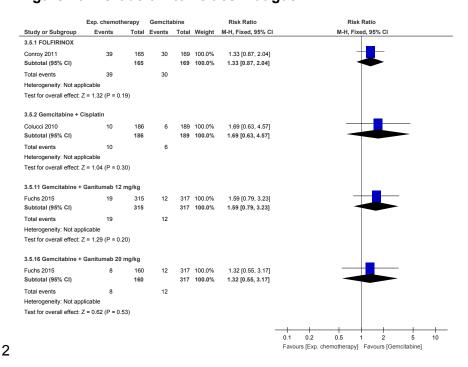
1 Figure 460: Overall survival



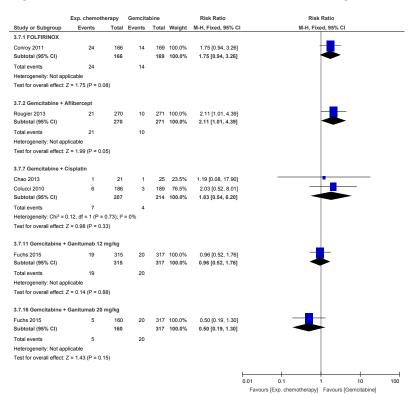
3 Figure 461: Grade 3/4 toxicities: Diarrhoea



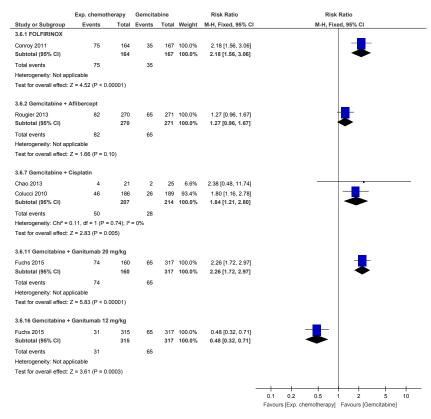
1 Figure 462: Grade 3/4 toxicities: Fatigue



3 Figure 463: Grade 3/4 toxicities: Nausea/vomiting

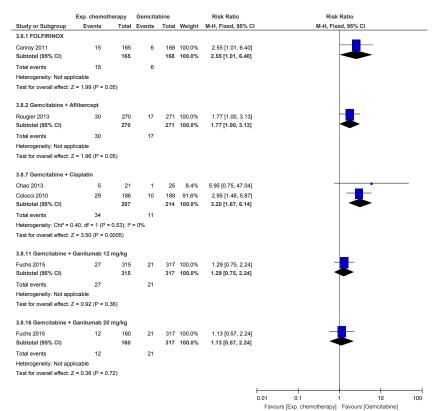


1 Figure 464: Grade 3/4 toxicities: Neutropenia

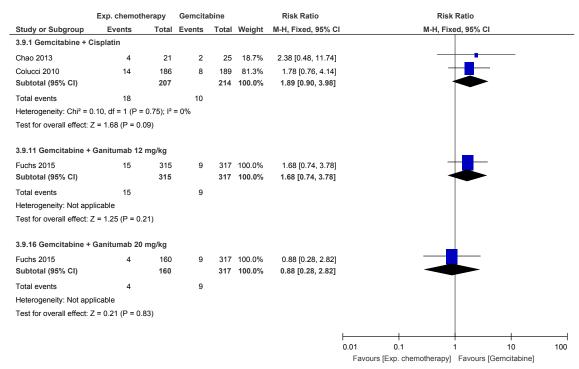


2

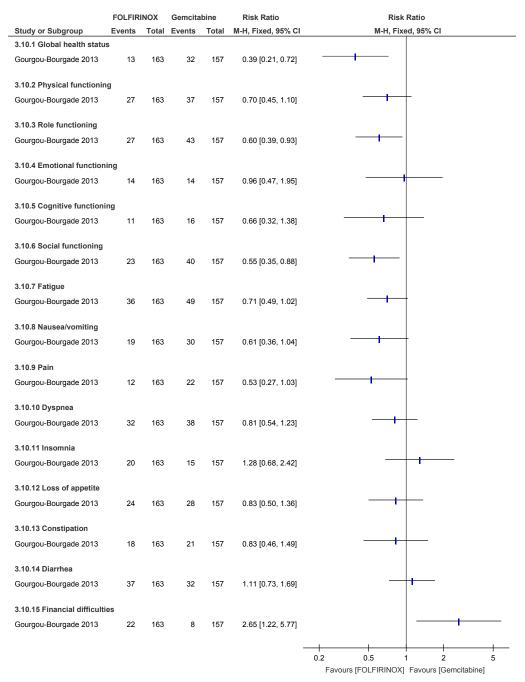
3 Figure 465: Grade 3/4 toxicities: Thrombocytopenia



1 Figure 466: Grade 3/4 toxicities: Leucopoenia

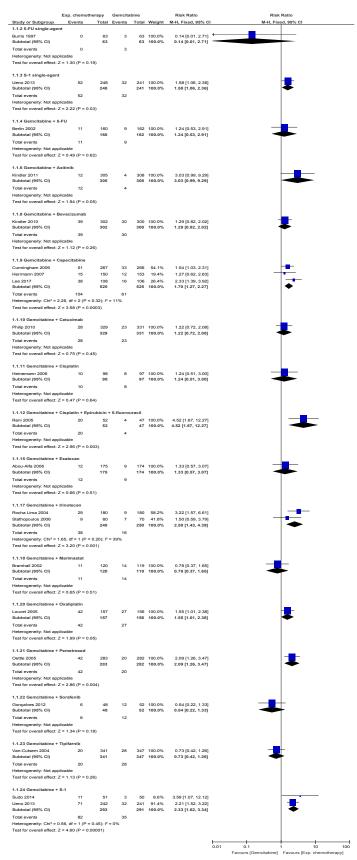


1 Figure 467: HRQL - Number of patients with a clinically significant (10 point) 2 deterioration QLQ-C30 [between baseline and the end of treatment (6 months)]

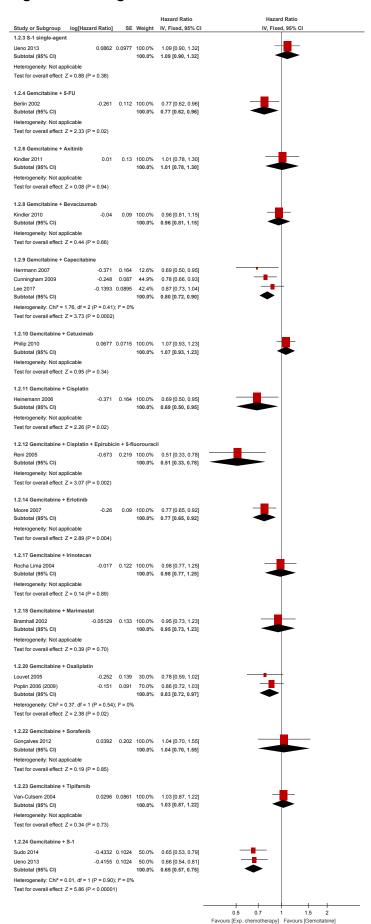


H.17.2.21 In adults with locally advanced or metastatic pancreatic cancer

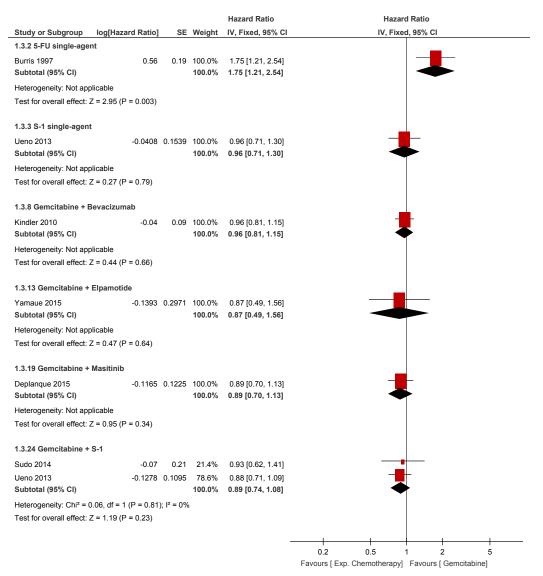
2 Figure 468: Overall response rate



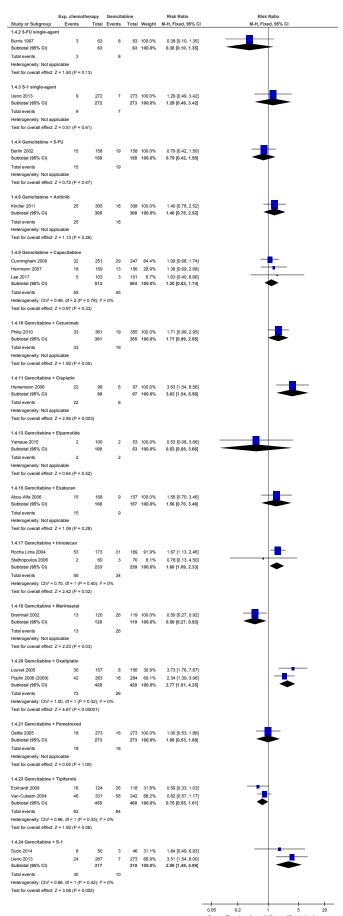
1 Figure 469: Progression-free survival



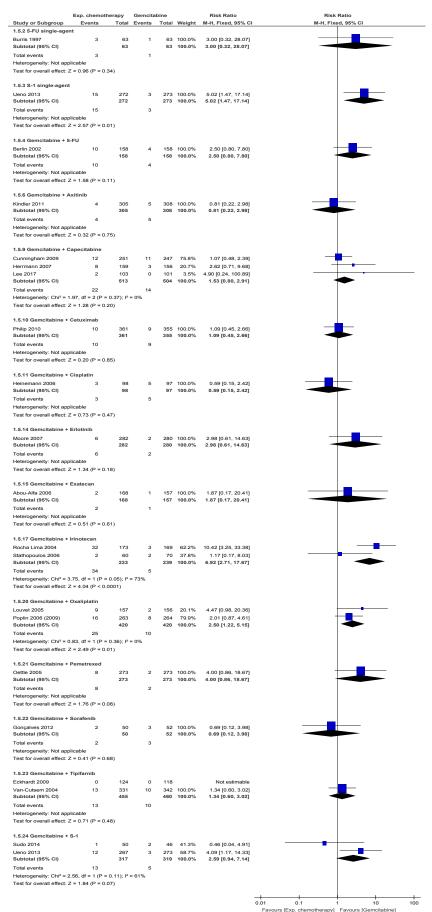
1 Figure 470: Overall survival



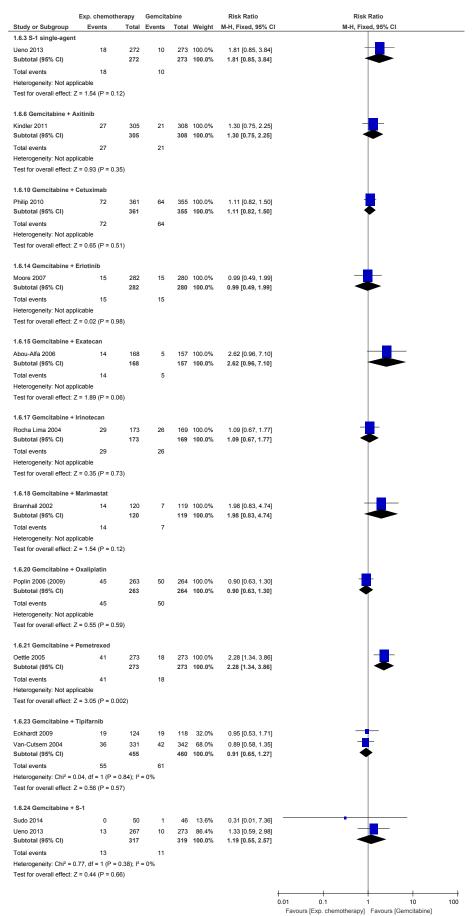
1 Figure 471: Grade 3/4 toxicities - Nausea/Vomiting



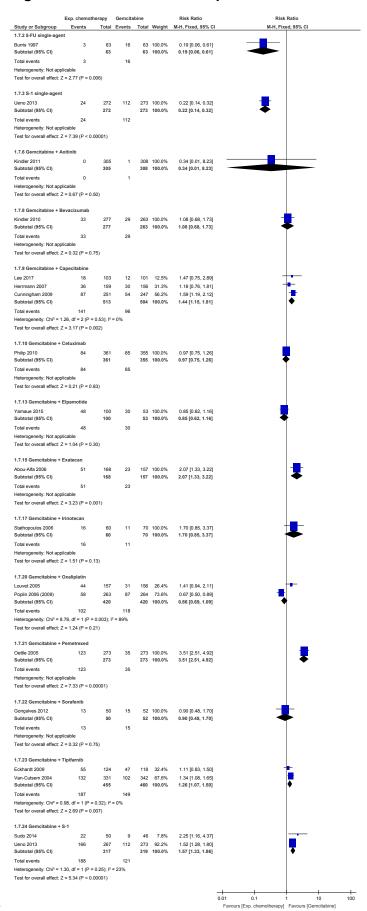
1 Figure 472: Grade 3/4 toxicities - Diarrhoea



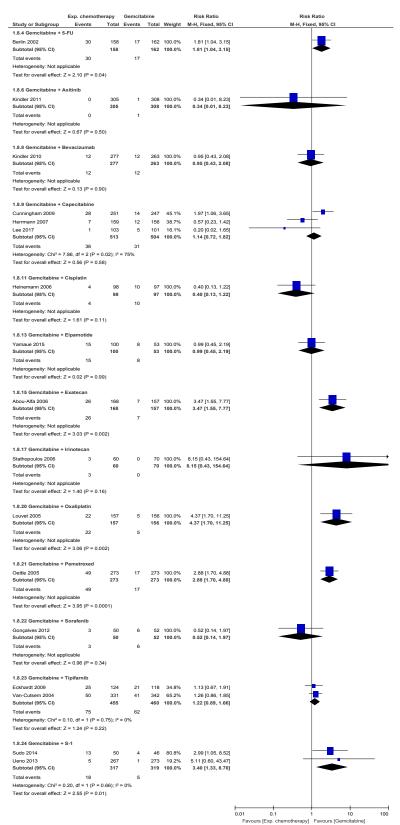
1 Figure 473: Grade 3/4: Fatigue



1 Figure 474: Grade 3/4: Neutropenia



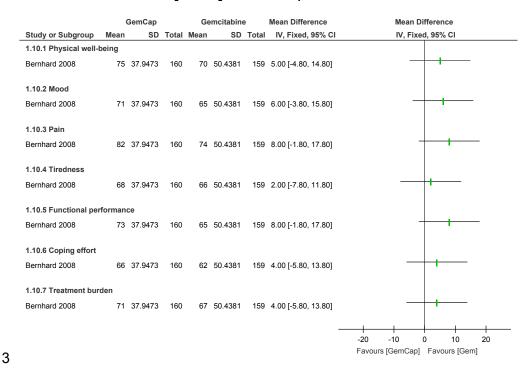
1 Figure 475: Grade 3/4: Thrombocytopenia



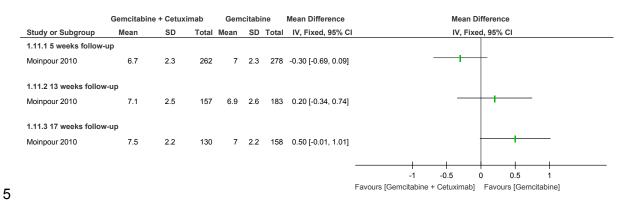
1 Figure 476: Grade 3/4: Leucopoenia

	Exp. chemoth	erapy	Gemcita	bine		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% C	M-H, Random, 95% CI	
1.9.3 S-1 single-agent	t						_	
Ueno 2013	10	272	51		100.0%	0.20 [0.10, 0.38]		
Subtotal (95% CI)		272		273	100.0%	0.20 [0.10, 0.38]		
Total events	10		51					
Heterogeneity: Not app								
Test for overall effect:	Z = 4.85 (P < 0.0	00001)						
1.9.4 Gemcitabine + 5	: =11							
		450	40	450	100.00/	4 04 [4 02 2 20]		
Berlin 2002 Subtotal (95% CI)	29	158 158	16		100.0% 100.0%	1.81 [1.03, 3.20] 1.81 [1.03, 3.20]		
	29	100	16	100	100.070	1.01 [1.00, 0.20]		
Total events Heterogeneity: Not app			10					
Test for overall effect:		141						
rest for overall effect.	2 - 2.03 (1 - 0.0	,-,						
1.9.6 Gemcitabine + A	Axitinib							
Kindler 2011	0	305	0	308		Not estimable		
Subtotal (95% CI)	-	305	-	308		Not estimable		
Total events	0		0					
Heterogeneity: Not app								
Test for overall effect:								
1.9.10 Gemcitabine +	Cetuximab							
Philip 2010	40	361	52	355	100.0%	0.76 [0.51, 1.11]	-	
Subtotal (95% CI)		361		355	100.0%	0.76 [0.51, 1.11]	•	
Total events	40		52					
Heterogeneity: Not app	olicable							
Test for overall effect:	Z = 1.42 (P = 0.1	16)						
1.9.11 Gemcitabine +								
Heinemann 2006	10	98	8		100.0%	1.24 [0.51, 3.00]		
Subtotal (95% CI)		98	_	97	100.0%	1.24 [0.51, 3.00]		
Total events	10		8					
Heterogeneity: Not app		\.						
Test for overall effect:	Z = 0.47 (P = 0.6	04)						
1.9.13 Gemcitabine +	Elpamotide							
Yamaue 2015	31	100	23	53	100.0%	0.71 [0.47, 1.09]	- 	
Subtotal (95% CI)	01	100	20		100.0%	0.71 [0.47, 1.09]	→	
Total events	31		23				•	
Heterogeneity: Not app								
Test for overall effect:		2)						
	,	•						
1.9.20 Gemcitabine +	Oxaliplatin							
Poplin 2006 (2009)	32	263	42	264	100.0%	0.76 [0.50, 1.17]	-	
Subtotal (95% CI)		263		264	100.0%	0.76 [0.50, 1.17]	•	
Total events	32		42					
Heterogeneity: Not app	olicable							
Test for overall effect:	Z = 1.23 (P = 0.2	22)						
1.9.24 Gemcitabine +	S-1							
Sudo 2014	10	50	8	46	24.8%	1.15 [0.50, 2.66]		
Ueno 2013	101	267	51	273	75.2%	2.02 [1.51, 2.71]		
Subtotal (95% CI)		317		319	100.0%	1.76 [1.09, 2.84]		
Total events	111		59					
Heterogeneity: Tau ² =			P = 0.21);	I ² = 36%	6			
Test for overall effect:	∠ = 2.31 (P = 0.0	12)						
							0.01 0.1 1 10	100
							Favours [Exp. chemotherapy] Favours [Gemcitabine]	

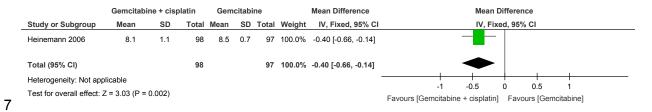
1 Figure 477: HRQL*(*mean score difference at 6 months -linear-analogy-self-2 assessment [LASA] indicators)



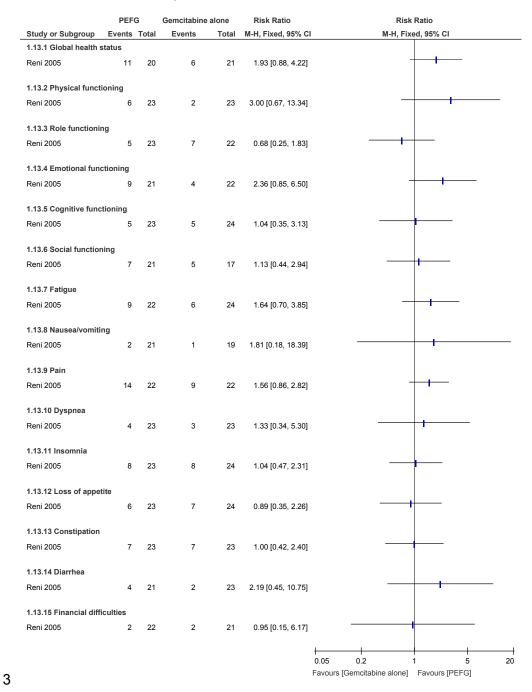
4 Figure 478: HRQL*(Emotional Well-Being Score at 5, 13, and 17 weeks follow-up)



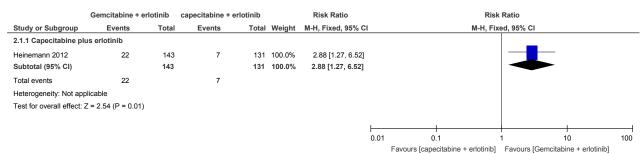
6 Figure 479: HRQL*(follow-up at 6 treatment cycles-Spitzer 5-Item Index)



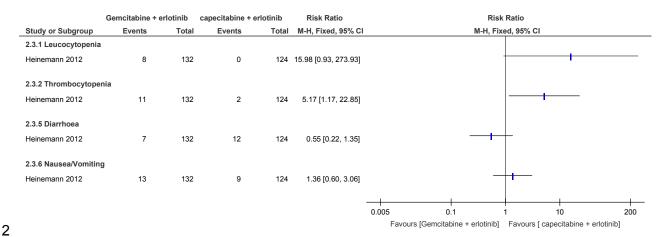
1 Figure 480: HRQL*(Number of patients with a clinically significant improvement QLQ-C30 at one cycle)



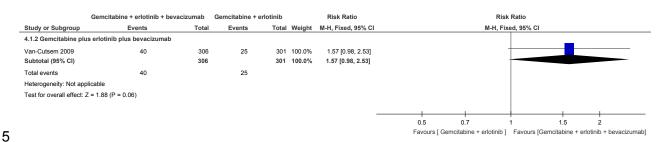
4 Figure 481: GEM + erlotinib *versus* capecitabine + erlotinib - Overall response rate (CR + PR)



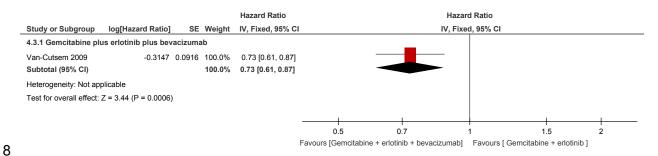
1 Figure 482: GEM + erlotinib versus capecitabine + erlotinib - Grade 3/4 toxicities



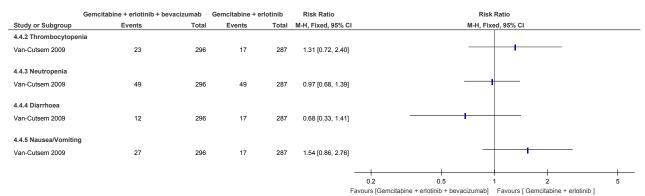
3 Figure 483: GEM + erlotinib versus GEM + erlotinib + bevacizumab - Overall response 4 rate (CR + PR)



6 Figure 484: GEM + erlotinib *versus* GEM + erlotinib + bevacizumab – Progression-free 7 survival

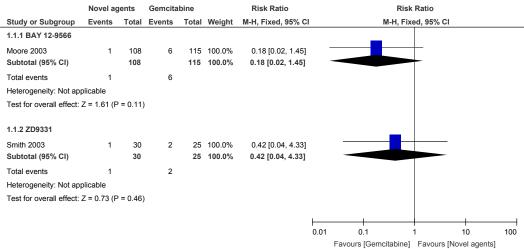


9 Figure 485: GEM + erlotinib versus GEM + erlotinib + bevacizumab - Grade 3/4 10 toxicities



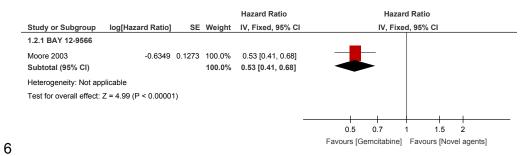
H.17.31 Gemcitabine versus novel agents in adults with locally advanced or metastatic pancreatic cancer

3 Figure 486: Overall response rate (CR + PR) at 8 weeks of therapy

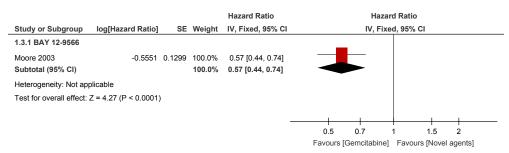


Test for subgroup differences: $Chi^2 = 0.28$, df = 1 (P = 0.59), $I^2 = 0\%$

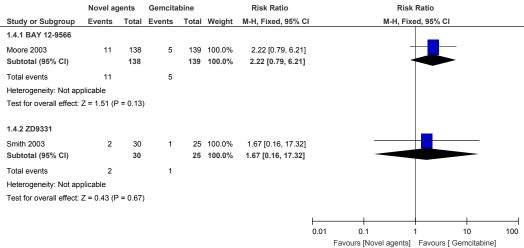
5 Figure 487: Progression-free survival



7 Figure 488: Overall survival

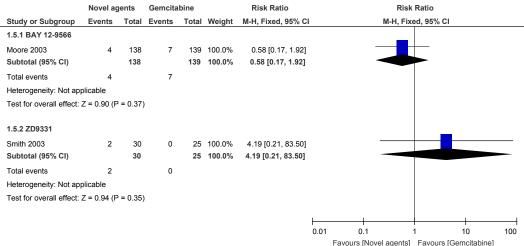


1 Figure 489: Grade 3/4 toxicities: Nausea



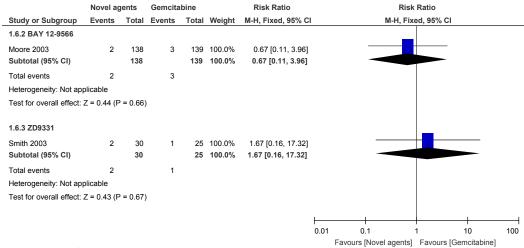
Test for subgroup differences: $Chi^2 = 0.05$, df = 1 (P = 0.83), $I^2 = 0\%$

3 Figure 490: Grade 3/4 toxicities: Vomiting



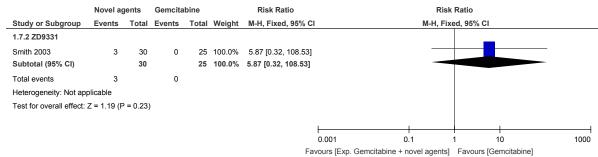
4 Test for subgroup differences: Chi² = 1.46, df = 1 (P = 0.23), I² = 31.3%

5 Figure 491: Grade 3/4 toxicities: Diarrhoea



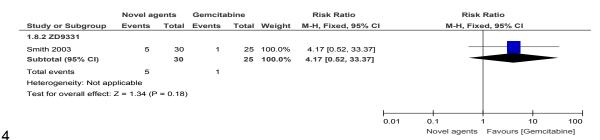
6 Test for subgroup differences: Chi² = 0.37, df = 1 (P = 0.54), $I^2 = 0\%$

1 Figure 492: Grade 3/4 toxicities: Fatigue

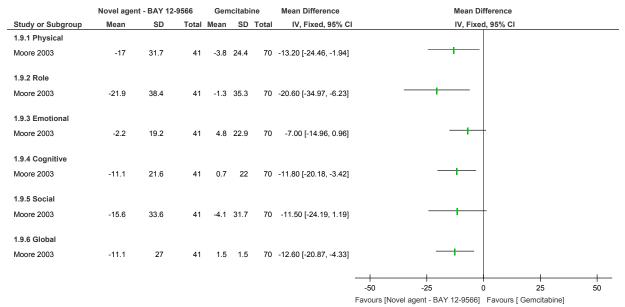


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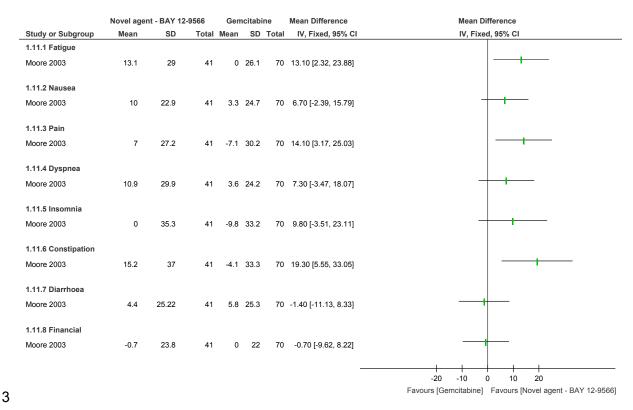
3 Figure 493: Grade 3/4 toxicities: Neutropenia



5 Figure 494: HRQL (EORTC C-30: Domains) - Mean change from Baseline at 8 weeks follow-up

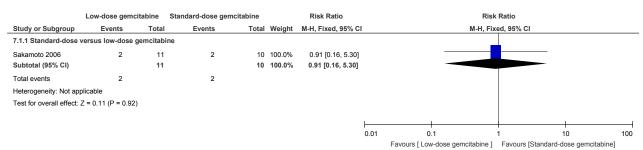


1 Figure 495: HRQL (EORTC C-30: Symptoms) - Mean change From Baseline at 8 weeks follow-up

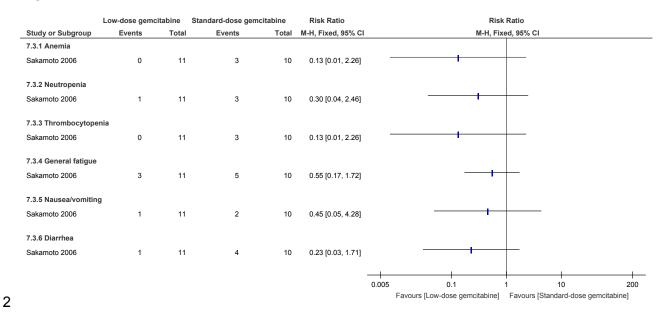


H.17.44 Standard-dose gemcitabine versus low-dose gemcitabine in adults with locally advanced or metastatic pancreatic cancer

6 Figure 496: Overall response rate (CR + PR)



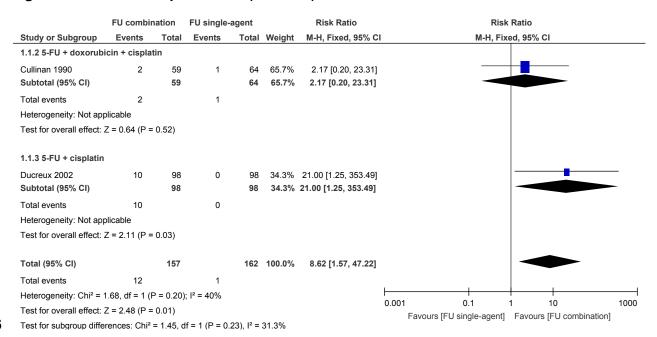
1 Figure 497: Grade 3/4 toxicities



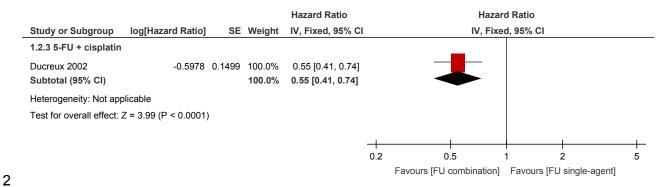
H.17.53 5-FU versus combination 5-FU

H.17.5.14 In adults with metastatic pancreatic cancer

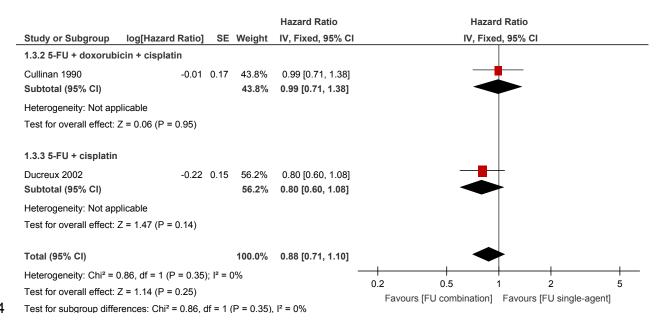
5 Figure 498: Overall response rate (CR + PR)



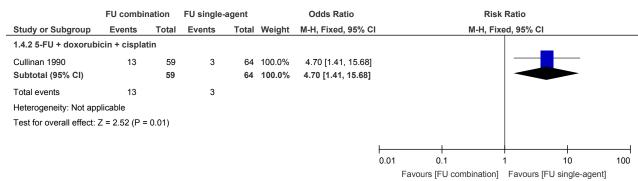
1 Figure 499: Progression-free survival



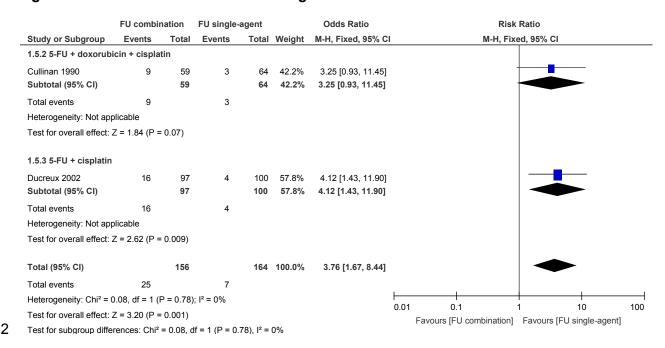
3 Figure 500: Overall survival



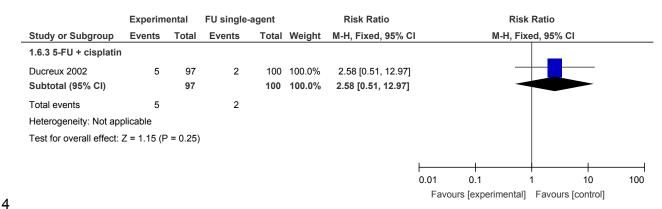
5 Figure 501: Grade 3/4 toxicities: Nausea



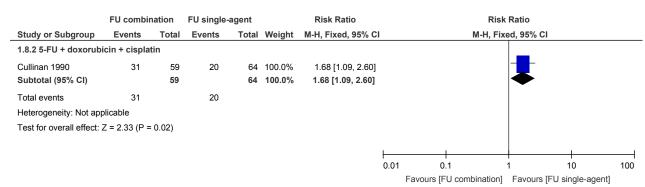
1 Figure 502: Grade 3/4 toxicities: Vomiting



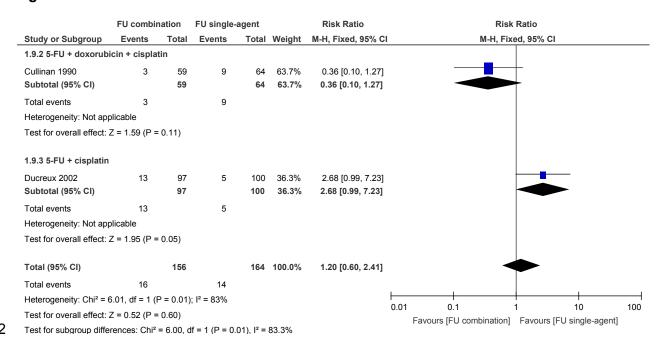
3 Figure 503: Grade 3/4 toxicities: Diarrhoea



5 Figure 504: Grade 3/4 toxicities: Leucopoenia

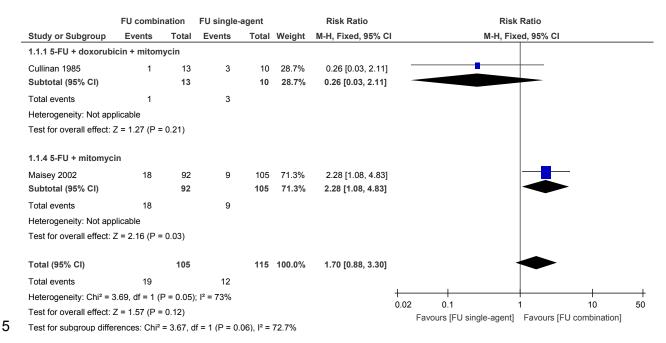


1 Figure 505: Grade 3/4 toxicities: Stomatitis

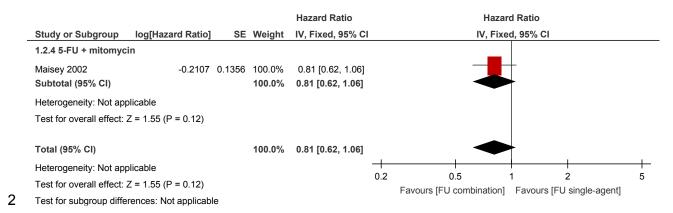


H.17.5.23 In adults with locally advanced metastatic pancreatic cancer

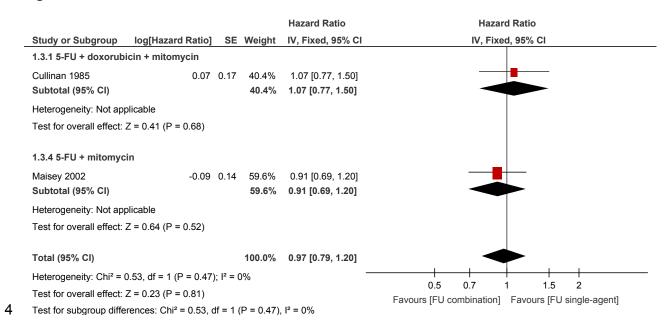
4 Figure 506: Overall response rate (CR + PR)



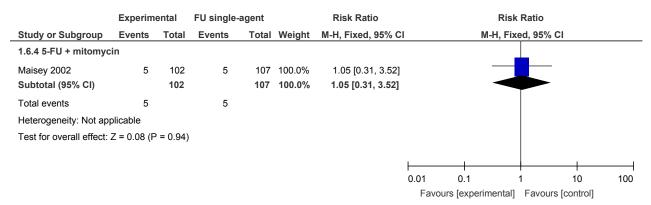
1 Figure 507: Progression-free survival



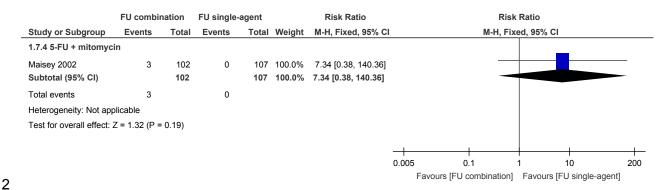
3 Figure 508: Overall Survival



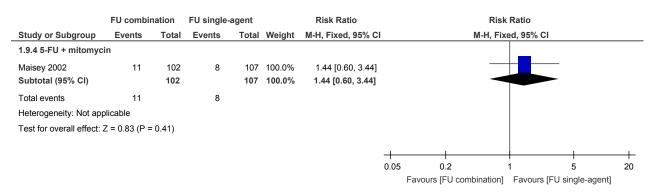
5 Figure 509: Grade 3/4 toxicities: Diarrhoea



1 Figure 510: Grade 3/4 toxicities: Neutropenia

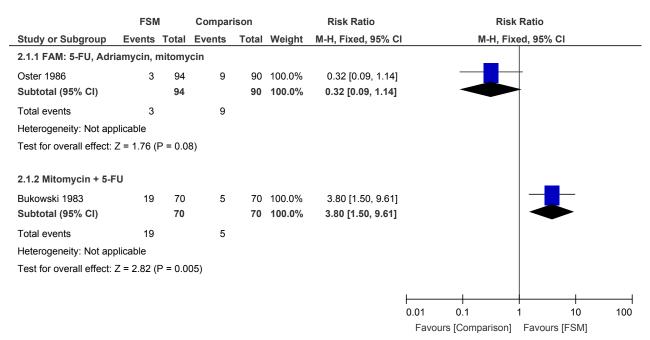


3 Figure 511: Grade 3/4 toxicities: Stomatitis



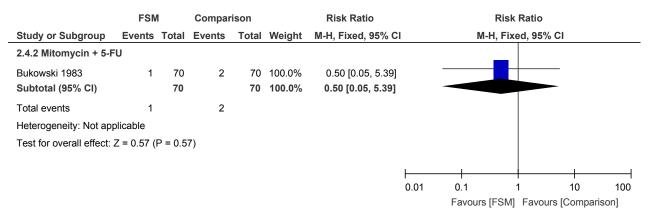
H.17.65 Combination 5-FU (FSM) versus other chemotherapy regimens in adults with 6 locally advanced or metastatic pancreatic cancer

7 Figure 512: Overall response rate (CR + PR)



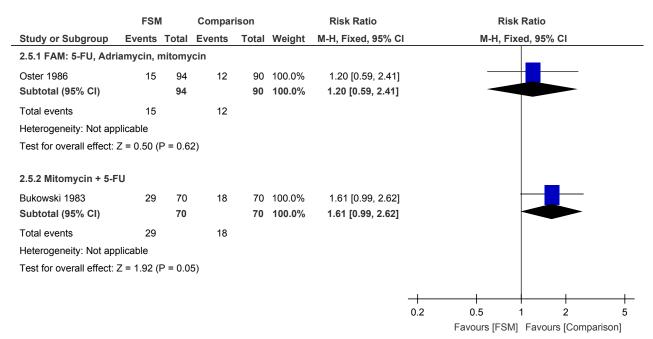
8

1 Figure 513: Grade 3/4 toxicities: Diarrhoea

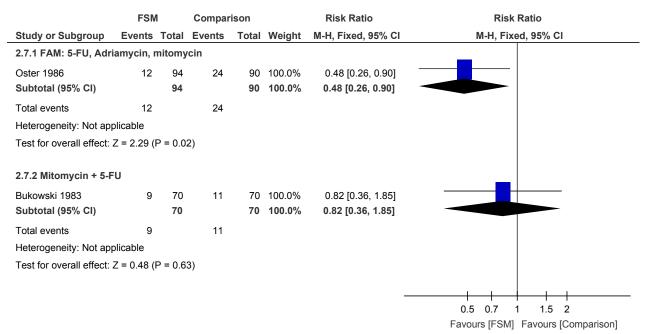


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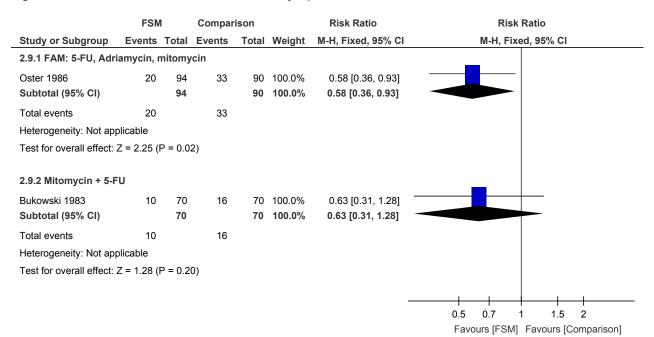
3 Figure 514: Grade 3/4 toxicities: Nausea/vomiting



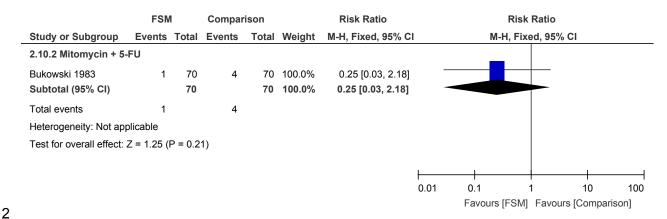
1 Figure 515: Grade 3/4 toxicities: Leucopoenia



2 3 Figure 516: Grade 3/4 toxicities: Thrombocytopenia

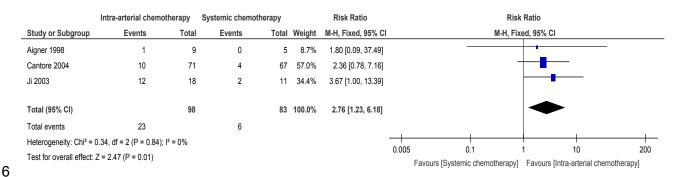


1 Figure 517: Drug-related deaths

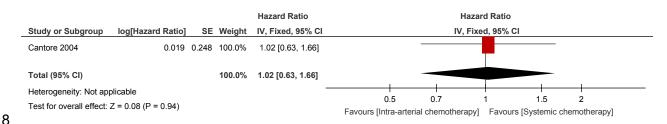


H.17.73 Intra-arterial chemotherapy versus systemic chemotherapy in adults with 4 locally advanced and metastatic pancreatic cancer

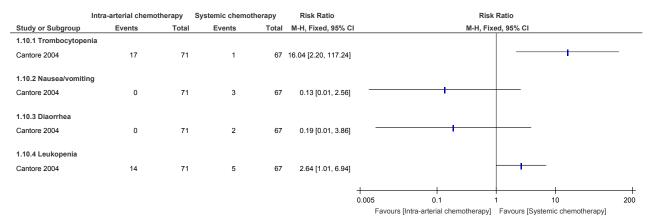
5 Figure 518: Overall response rate (CR + PR)



7 Figure 519: Overall survival

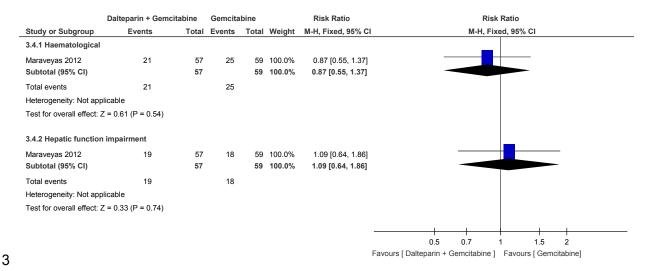


9 Figure 520: Grade 3/4 toxicities

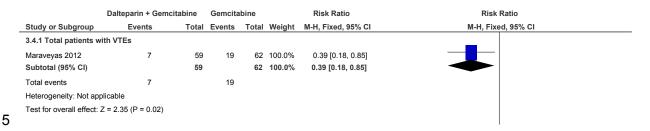


H.17.81 Chemotherapy versus chemotherapy and prophylactic anticoagulant

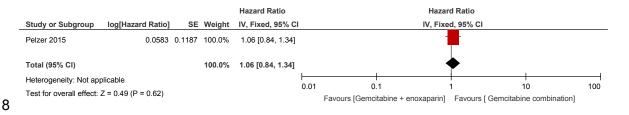
2 Figure 521: Adverse effects: Grade 3/4 toxicities



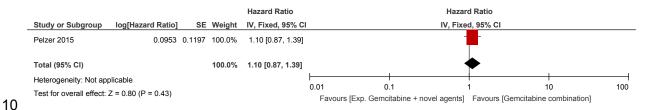
4 Figure 522: Adverse effects: vascular thromboembolism events (VTEs)



6 Figure 523: Combination gemcitabine vs gemcitabine + enoxaparin – Progression-free survival

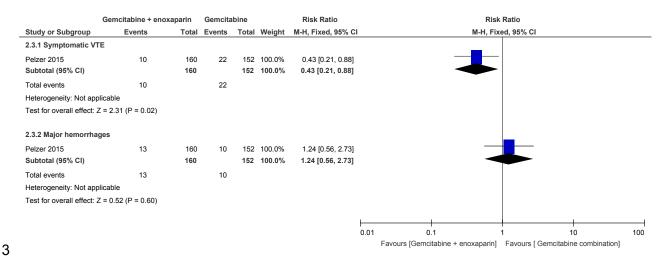


9 Figure 524: Combination gemcitabine vs gemcitabine + enoxaparin - Overall Survival



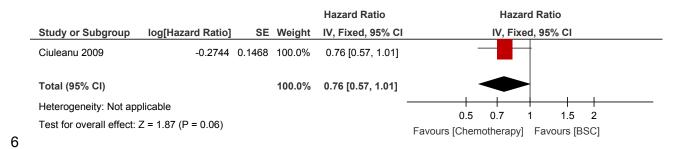
1 Figure 525: Combination gemcitabine vs gemcitabine + enoxaparin – Adverse effects:

2 vascular thromboembolism (VTE)

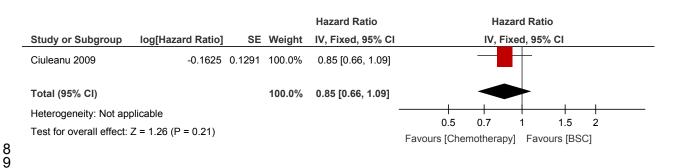


H.17.94 Second-line chemotherapy versus best supportive care

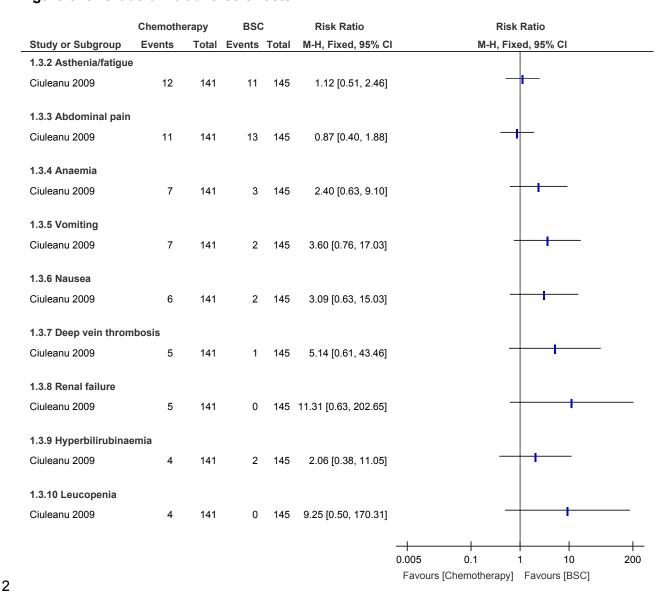
5 Figure 526: Progression-free survival



7 Figure 527: Overall survival



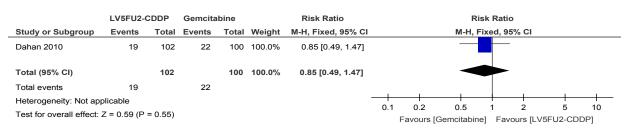
1 Figure 528: Grade 3/4/5 adverse effects



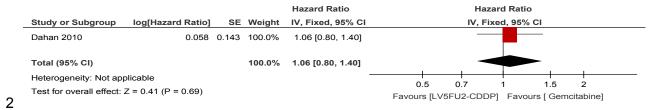
H.17.103 Second-line chemotherapy versus other chemotherapy

H.17.10.14 LV5FU2-CDDP then Gemcitabine *versus* Gemcitabine then LV5FU2-CDDP in adults 5 with metastatic pancreatic cancer

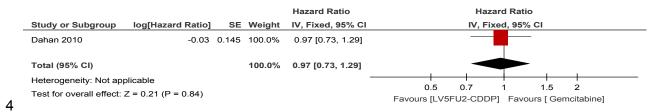
6 Figure 529:- Overall response rate (CR + PR)



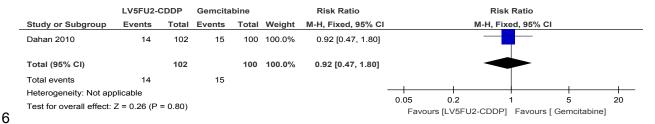
1 Figure 530: Progression Free Survival



3 Figure 531: Overall Survival

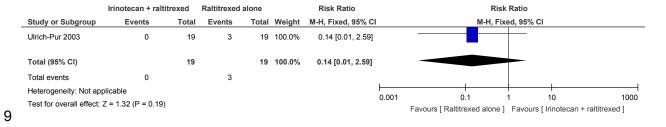


5 Figure 532: Grade 3/4 toxicities: Nausea/vomiting

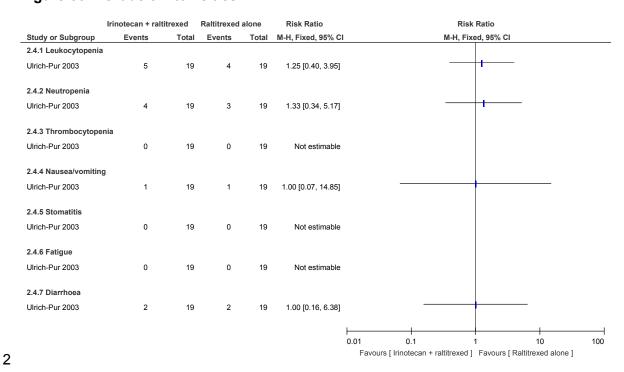


H.17.10.27 Irinotecan + raltitrexed versus raltitrexed in adults with metastatic pancreatic cancer

8 Figure 533: Overall response rate (CR + PR)

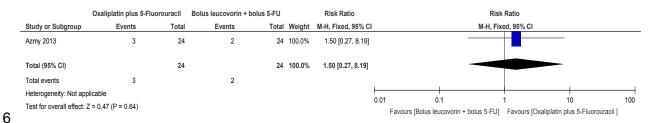


1 Figure 534: Grade 3/4 toxicities

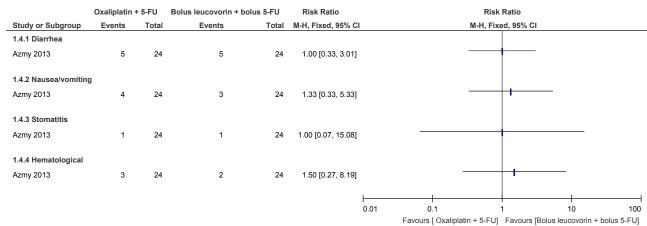


H.17.10.33 5-FU and Oxaliplatin *versus* bolus 5-FU and bolus FA in adults with locally advanced 4 or metastatic pancreatic cancer

5 Figure 535: Overall response rate (CR + PR)

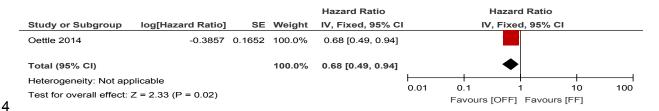


7 Figure 536: Grade 3/4 toxicities

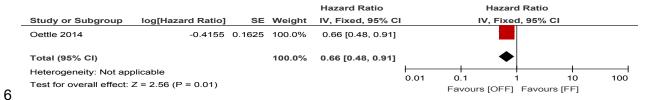


H.17.10.41 Oxaliplatin + 5-FU *versus* FA + 5-FU in adults with locally advanced and metastatic 2 pancreatic cancer

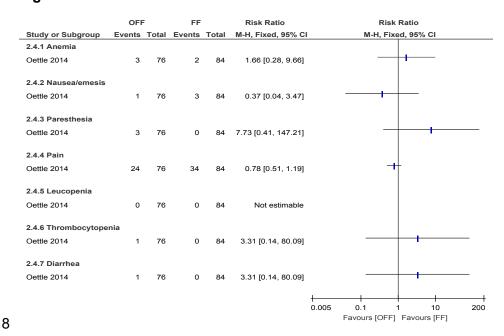
3 Figure 537: Progression-free survival



5 Figure 538: Overall Survival

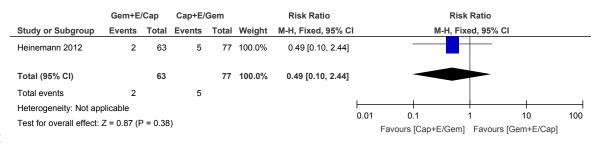


7 Figure 539: Grade 3/4 toxicities

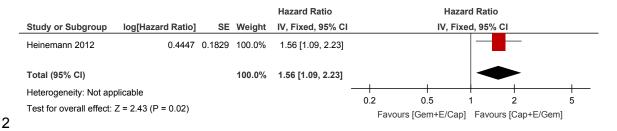


H.17.10.59 Capecitabine + erlotinib then gemcitabine *versus* gemcitabine and erlotinib then 10 capecitabine in adults with locally advanced or metastatic pancreatic cancer

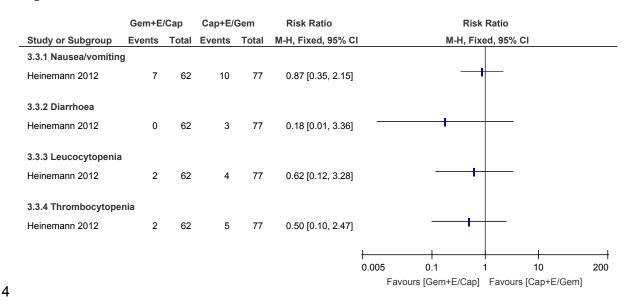
11 Figure 540: Overall response rate (CR + PR)



1 Figure 541: Overall survival



3 Figure 542: Grade 3/4 toxicities

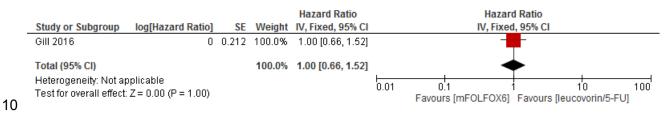


H.17.10.65 Modified FOLFOX6 (infusion) vs infusional 5-FU and FA in adults with locally 6 advanced or metastatic pancreatic cancer

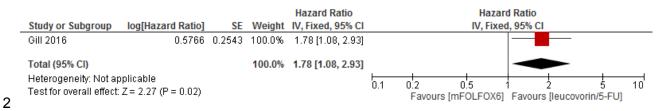
7 Figure 543: Overall response rate (CR + PR)



9 Figure 544: Progression-free survival



1 Figure 545: Overall survival



1 Figure 546: Grade 3/4 toxicities

